



STRATEGIC WATER RESOURCES PLAN UPDATE FINAL ENVIRONMENTAL IMPACT REPORT December 2024

Prepared by:

Palmdale Water District 2029 East Avenue Q Palmdale, CA 93550

With Assistance From:





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ACRONYMS AND ABBREVIATIONS

AFY	Acre-feet per year
AVAQMD	Antelope Valley Air Quality Management District
AWTP	Advanced Water Treatment Plant
CAA	Clean Air Act
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFGC	California Fish and Game Commission
CFR	Code of Federal Regulations
CNDDB	California Natural Diversity Database
CRHR	California Register of Historical Resources
CRMP	Cultural Resources Monitoring Plan
DDW	Division of Drinking Water
DEIR	Draft Environmental Impact Report
ESA	Endangered Species Act
GDE	groundwater dependent ecosystem
IW	Industrial Wastewater
LACSD	Los Angeles County Sanitation Districts
LSM	Less than significant with mitigation
LTS	Less than significant
MBMI	Morongo Band of Mission Indians
MGD	million gallons per day
MLD	Most Likely Descendant
MM/COA	Mitigation Measures/Conditions of Approval
MMRP	Mitigation Monitoring and Reporting Program
NAHC	Native American Heritage Commission
NOA	Notice of Availability
NOP	Notice of Preparation
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
EIR	Program Environmental Impact Report
PRC	Public Resources Code
PRWA	Palmdale Recycled Water Agency
	i unitale necyclea water Agency

PWD	Palmdale Water District
RWQCB	Regional Water Quality Control Board
SCAG	Southern California Association of Governments
SOI	United States Secretary of the Interior Standards
SVP	Society of Vertebrate Paleontology
SWP	State Water Project
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
SWRP	Strategic Water Resources Plan
USACE	United States Army Corps of Engineers
USBR	United States Bureau of Reclamation
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
WEAP	Worker Environmental Awareness Program
WMA	Water Management Amendment

CHAPTER 1. INTRODUCTION

1.1 PURPOSE

This Final Environmental Impact Report (Final EIR) document has been prepared in accordance with California Environmental Quality Act (CEQA) as amended (Public Resources Code (PRC) section (§) 21000 et seq.) and the CEQA Guidelines (California Code of Regulations (CCR) §15000 et seq.). Before approving a project, a lead agency must prepare a Final EIR (CCR §15089(a)). According to the CEQA Guidelines (CCR §15132) the Final EIR shall consist of:

- a) The Draft Environmental Impact Report or a revision of the DEIR;
- b) Comments and recommendations received on the DEIR either verbatim or in summary;
- c) A list of persons, organizations, and public agencies comments on the DEIR;
- d) The responses of the lead agency to significant environmental points raised in the review and consultation process; and
- e) Any other information added by the lead agency.

The Final EIR is the document that decision-makers in the lead and responsible agencies consider before approving or denying a project. Completion and certification of the Final EIR precede the lead agency's determination of whether to approve or carry out the project (CCR §15089(a), §15090(b)), and its adoption of findings (required by PRC §21081 and CCR §15091 and §15093).

As the lead agency for the Strategic Water Resources Plan (SWRP) Update (proposed Project) the Palmdale Water District (PWD or the District) has prepared this Final EIR in accordance with the CEQA Guidelines. This Final EIR provides documentation of the comments received on the DEIR (State Clearinghouse #2023080290), a response to these comments, necessary text revisions to the DEIR, additional information, and the Mitigation Monitoring and Reporting Program (MMRP). The publicly circulated DEIR described the environmental consequences associated with the implementation of the proposed Project and recommends mitigation measures to reduce potentially significant impacts.

1.2 ENVIRONMENTAL REVIEW PROCESS

According to the CEQA Guidelines, lead agencies are required to consult with public agencies having jurisdiction over a proposed project and to provide the agencies and the public with an opportunity to comment on the DEIR. Those processes are described below.

1.2.1 NOTICE OF PREPARATION PROCESS

On August 15, 2023 PWD circulated a Notice of Preparation (NOP) which included a description of the project, location of the project, and probable environmental effects of the project in accordance with CEQA Guidelines section 15082. The NOP was made available in print and electronic form, and PWD accepted comments on the NOP for a 30-day period, closing on

September 14, 2023, and a public scoping meeting was held on September 7, 2023. Comments received on the NOP were considered during the preparation of the Draft EIR and are contained in Appendix A of the Draft EIR.

1.2.2 Draft Environmental Impact Report Process

The Draft EIR was made available for public review on September 27, 2024 and was distributed to local and State of California (State) responsible and trustee agencies. The CEQA-mandated 45-day review and comment period for the public and agencies ended on November 11, 2024. Pursuant to §15087 of the CEQA Guidelines, a public Notice of Availability (NOA) of the Draft EIR was given. CEQA requires under §15105, notice be mailed to the last known name and address of all organizations and individuals who have previously requested such notice in writing, and also by at least one of the following procedures:

- 1. Publication at least one time by the public agency in a newspaper of general circulation in the area affected by the Project. If more than one area is affected, the notice shall be published in the newspaper of largest circulation from among the newspapers of general circulation in those areas.
- 2. Posting of notice by the public agency on and off the site in the area where the Project is to be located.
- 3. Direct mailing to the owners and occupants of property contiguous to the parcels on which the Project is located. Owners of such property shall be identified as shown on the latest equalized assessment roll.

In accordance with §15087 of the CEQA Guidelines, on September 27, 2024, PWD published the NOA in the Antelope Valley Press newspapers. Copies of the NOA and Draft EIR were available for public review electronically on PWD's website (<u>https://www.palmdalewater.org/our-customers/projects/capital-projects/strategic-water-resources-plan/</u>) starting September 27, 2024. The Draft EIR was available as a hard copy during regular business hours at the following locations:

- Palmdale Water District Headquarters, 2029 E Avenue Q, Palmdale CA 93550
- Palmdale City Library, 700 E Palmdale Boulevard, Palmdale CA 93550

PWD provided the following ways for the public to stay informed and provide feedback on the Project beyond the requirements of §15087 of the CEQA Guidelines:

• Maintained a website (<u>https://www.palmdalewater.org/our-customers/projects/capital-projects/strategic-water-resources-plan/</u>) with the proposed Project background, information, updates, and documents.

1.2.3 FINAL ENVIRONMENTAL IMPACT REPORT

Consistent with CEQA Guidelines (CCR §15132) the Final EIR includes: (1) necessary revisions to the Draft EIR; (2) comments received on the DEIR; (3) responses of the District to significant environmental points raised in the review process and to comments on environmental issues; and (4) information added by the District to clarify and amplify information contained in the Draft EIR.

The Final EIR includes the comments received regarding the Draft EIR, as well as the PWD's responses to comments and incorporates the Draft EIR by reference. PWD evaluated the comments received on environmental issues and prepared written responses to those comments. For those environmental issues raised in numerous comments, the PWD prepared Master Responses to address the environmental issue. In addition, PWD provided a written response for each CEQA-related comment received during the public review period.

The Final EIR also includes revisions to the Draft EIR and new information added to the Draft EIR after the public review period. These changes and additional information do not require recirculation of the Draft EIR because they do not constitute "significant new information" (CCR §15088.5). The new information does not show any new significant impacts or substantial increases in the severity of the impacts analyzed in the Draft EIR. The changes made to the Draft EIR and the new information added to the Final EIR merely clarify or amplify information contained in the Draft EIR or make insignificant modifications.

1.3 DOCUMENT ORGANIZATION

This Final EIR document consists of the following chapters:

- **Chapter 1: Introduction**. This chapter discusses the purpose and organization of this Final EIR and summarizes the environmental review process for the Project.
- **Chapter 2**: **Response to Comments**. This chapter contains lists of agencies, tribes, organizations, and individuals who submitted written comments during the public review period; reproductions of all comment letters received on the Draft EIR; and a written response for each CEQA-related comment received during the public review period.
- **Chapter 3**: **Draft EIR Text Revisions**. This chapter includes revisions to the Draft EIR that are necessary in light of the comments received and responses provided, or necessary to amplify or clarify material in the Draft EIR, are contained in this chapter. Double underline text represents language that has been added to the Draft EIR; text with strikeout has been deleted from the Draft EIR.
- **Chapter 4**: **Final EIR Document Preparers**. This chapter lists Final EIR document contributions, qualifications, and quality control procedures.
- **Chapter 5**: **References**. This chapter includes new references used for preparation of the Final EIR.
- Appendix A: Mitigation Monitoring and Reporting Program

CHAPTER 2. RESPONSE TO COMMENTS

This chapter of the Final EIR includes a copy of all comment letters that were submitted to the District during the Draft EIR public review period and responses to those comments prepared in accordance with CEQA Guidelines Section 15088.

Table 1.1-1 lists the entities that submitted comments, and each comment letter has been coded with a number to facilitate identification and tracking. Individual comments and the responses to them were assigned corresponding numbers (e.g., 1-1, 1-2, 1-3). To aid readers and commenters, electronically bracketed comment letters have been reproduced in this document, with the corresponding responses provided immediately following each comment letter.

Comment Letter Designation	Commenter	Date
1	Los Angeles County Sanitation District*	9/15/2023
2	Los Angeles County Sanitation District	11/06/2024
3	Department of Water Resources	10/04/2024
4	Antelope Valley Air Quality Management District	10/07/2024
5	Yuma Quechan Indian Tribe	10/24/2024
6	California Department of Fish and Wildlife	11/8/2024
7	State Water Resources Control Board	11/12/2024
8	Department of Transportation	11/8/2024
9	City of Lancaster	11/12/2024
10	Morongo Band of Mission Indians	11/11/2024

Table 1.1-1 Comments Received on the Draft EIR

*Commenter resubmitted comment letter from the NOP.

Comment Letter 1

LOS ANGELES COUNTY SANITATION DISTRICTS Converting Waste Into Resources Robert C. Ferrante Chief Engineer and General Manager

1955 Workman Mill Road, Whittier, CA 90601-1400 Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998 (562) 699-7411 • www.lacsd.org

September 15, 2023

Ref. DOC 6998694

VIA EMAIL aly@palmdalewater.org

Mr. Adam C. Ly, Assistant General Manager Palmdale Water District 2029 East Avenue Q Palmdale, CA 93550

Dear Mr. Ly:

Comments on the Notice of Preparation of the Draft Environmental Impact Report for the 2023 Strategic Water Resources Plan Update

The Los Angeles County Sanitation Districts (Sanitation Districts) received a Notice of Preparation (NOP) of a Draft Environmental Impact Report (DEIR) for the subject plan update on August 14, 2023. Most of Palmdale Water District's service area is located within the jurisdictional boundaries of County Sanitation District No. 20 (District No. 20). We offer the following comments:

For the Proposed Groundwater Injection Wells and Conveyance Pipelines

- 1. District No. 20 owns and maintains sewerage facilities within the project area that may be affected by the proposed project. Approval to construct improvements within a Sanitation Districts' sewer easement and/or over or near a Sanitation Districts' sewer is required before construction may begin. To obtain copies of as-built drawings of District No. 20's facilities within the project limits, please contact the Sanitation Districts' Engineering Counter at engineeringcounter@lacsd.org or (562) 908-4288, extension 1205. If any of the proposed improvements for this project will be located over or near a Sanitation Districts' sewer easement, "Buildover" review and approval by the Sanitation Districts will be required. For a copy of the Sanitation Districts' Buildover procedures and requirements, go to www.lacsd.org, under Services, then Wastewater Program and Permits and select Buildover Procedures. For more specific information regarding the buildover procedure, please contact Mr. Ryan Honda at (562) 908-4288, extension 2766.
- 2. The Sanitation Districts cannot issue a detailed response to or permit construction of the proposed project until detailed project plans and specification that incorporate District No. 20's facilities are submitted for our review. When project plans that incorporate our facilities have been prepared, please submit copies to the Engineering Counter for our review and comment.

For the Proposed Pure Water Antelope Valley Advanced Water Treatment Plant

3. The Sanitation Districts, with a mission to protect public health and the environment and, in doing so, convert waste into resources such as recycled water, energy, and recycled materials, is in support of the proposed Advanced Water Treatment Plant (AWTP). The Sanitation Districts has a long history of providing affordable, high-quality recycled water to public and private water suppliers to help meet the water supply needs for more than a hundred thousand people within District No. 20's service area. Wastewater generated by the proposed project will be treated at the Palmdale Water Reclamation Plant,

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Mr. Adam C. Ly 2 September 15, 2023 which has a capacity to treat 12 million gallons per day (MGD) of wastewater and currently processes an average recycled flow of 8.2 MGD. 4. The proposed AWTP may require an Industrial Wastewater (IW) Discharge permit from the Sanitation Districts in order to discharge brine or any other wastewater into District No. 20's sewerage system. Please 1-4 contact the Sanitation Districts' IW Section at (562) 908-4288, extension 2900, to determine if an IW Permit is necessary. If this permit is necessary, Palmdale Water District will be required to obtain the IW Permit before beginning project construction. Additional information for which can be found on our website at Industrial Wastewater Discharge Permits. 5. The proposed AWTP may require a Trunk Sewer Connection Permit from the Sanitation Districts if the proposed brine/wastewater discharge pipeline from the AWTP will connect directly to a District No. 20's 1-5 trunk sewer. The Sanitation Districts will determine if such a permit is necessary during review of the detailed project plans that Palmdale Water District will prepare and submit to the Sanitation Districts' Engineering Counter for review, as indicated in Comment #1 above. 6. In order to estimate the volume of wastewater the project will generate, go to www.lacsd.org, under Services, then Wastewater Program and Permits and select Will Serve Program, and then click on the Table 1-6 1. Loadings for Each Class of Land Use link for a copy of the Sanitation Districts' average wastewater generation factors. General Comments Please revise all references in the NOP from "Palmdale Water Reclamation Facility" to "Palmdale Water 7. 1-7 Reclamation Plant". Additionally, at the bottom of page 2, where the first reference is made to this facility, please revise the language as follows "...within the vicinity of the Palmdale Water Reclamation Plant (WRP) (see Figure 3), which is owned and operated by County Sanitation District No. 20." Please revise all references in Exhibits 2 and 3 from 'Palmdale WRF'' to 'Palmdale WRP''. 1-8 8. 9. The Sanitation Districts are empowered by the California Health and Safety Code to charge a fee to connect facilities (directly or indirectly) to the Sanitation Districts' Sewerage System or to increase the strength or quantity of wastewater discharged from connected facilities. This connection fee is used by the Sanitation Districts for its capital facilities. Payment of a connection fee may be required before this project is permitted to discharge to the Sanitation Districts' Sewerage System. For more information and a copy of 1-9 the Connection Fee Information Sheet, go to www.lacsd.org, under Services, then Wastewater (Sewage) and select Rates & Fees. In determining the impact to the Sewerage System and applicable connection fees, the Sanitation Districts will determine the user category (e.g. Condominium, Single Family Home, etc.) that best represents the actual or anticipated use of the parcel(s) or facilities on the parcel(s) in the development. For more specific information regarding the connection fee application procedure and fees, 1-10 please contact the Sanitation Districts' Wastewater Fee Public Counter at (562) 908-4288, extension 2727. If an Industrial Wastewater Discharge Permit is required, connection fee charges will be determined by the Industrial Waste Section. 10. In order for the Sanitation Districts to conform to the requirements of the Federal Clean Air Act (CAA), the capacities of the Sanitation Districts' wastewater treatment facilities are based on the regional growth

10. In order for the Sanitation Districts to conform to the requirements of the Federal Clean Air Act (CAA), the capacities of the Sanitation Districts' wastewater treatment facilities are based on the regional growth forecast adopted by the Southern California Association of Governments (SCAG). Specific policies included in the development of the SCAG regional growth forecast are incorporated into clean air plans, which are prepared by the South Coast and Antelope Valley Air Quality Management Districts in order to improve air quality in the South Coast and Mojave Desert Air Basins as mandated by the CAA. All expansions of Sanitation Districts' facilities must be sized and service phased in a manner that will be consistent with the SCAG regional growth forecast for the counties of Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial. The available capacity of the Sanitation Districts' treatment

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Mr. Adam C. Ly

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September 15, 2023

facilities will, therefore, be limited to levels associated with the approved growth identified by SCAG. As such, this letter does not constitute a guarantee of wastewater service but is to advise Palmdale Water District that District No. 20 intends to provide this service up to the levels that are legally permitted and to inform the Palmdale Water District of the currently existing capacity and any proposed expansion of District No. 20's facilities.

If you have any questions, please contact Ms. Mandy Huffman at (562) 908-4288, extension 2743, or <u>mandyhuffman@lacsd.org</u>.

Very truly yours,

Lis grand

Ziad El Jack Supervising Engineer Facilities Planning Department

MNH:mnh

cc: Engineering Counter R. Honda P. Palencia R. Paracuelles

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RESPONSE TO COMMENT LETTER 1

Los Angeles County Sanitation Districts, Ziad El Jack, Supervising Engineer

Response to Comment 1-1:

The Draft EIR text in Table 2-7: Regulatory Requirements and Authorizations within Chapter 2 (Project Description) has been revised to reflect that an easement is needed prior to construction for Los Angeles County Sanitation District (LACSD) No. 20 owned and maintained sewerage facilities within the proposed Project area that may be affected by the proposed Project. The LACSD approvals shown in Table 2-7: Regulatory Requirements and Authorizations and Approvals were updated with double underlined text as follows to reflect this required easement.

Agency	Type of Approval	Water Supply Element
Los Angeles County Sanitation District	Industrial Wastewater (IW) Discharge permit; Trunk Sewer Connection permit to discharge brine or other wastewater into sewerage system	Recycled Water – Pure Water Antelope Valley
Los Angeles County Sanitation District	Submittal of detailed project plans and specifications	Groundwater - injection wells and conveyance pipelines Recycled Water – Pure Water Antelope Valley
Los Angeles County Sanitation District	<u>Easement</u>	<u>Recycled Water – Pure</u> <u>Water Antelope Valley</u>

Response to Comment 1-2:

See Table 2-7: Regulatory Requirements and Authorizations and Approvals in Chapter 2 Project Description of the Draft EIR which lists the authorizations and approvals required for the Project. Groundwater Injection Wells and Conveyance Pipelines will incorporate LACSD District No. 20's facilities on plans and specifications submitted to the LACSD No. 20's Engineering Counter for review and comment as stated in the Draft EIR. At this time, plans for the Pure Water Antelope Valley injection wells and pipelines are still conceptual. PWD will develop plans that incorporate LACSD No. 20's facilities and will submit it to the Engineering Counter as the plans are developed.

Response to Comment 1-3:

Comment noted and PWD would like to thank LACSD for their support in this project.

Response to Comment 1-4:

The Draft EIR states that an Industrial Wastewater Discharge Permit is required in Table 2-7: Regulator Requirements and Authorizations and Approvals. PWD would obtain this permit (if there are discharges requiring IWD permit) prior to construction.

Response to Comment 1-5:

The Draft EIR states that a Trunk Sewer Connection Discharge permit is required in Table 2-7: Regulatory Requirements and Authorizations and Approvals. PWD would obtain this permit prior to construction.

Response to Comment 1-6:

As the Pure Water Antelope Valley Advanced Water Treatment Project progresses PWD will work with LACSD to obtain an Industrial Wastewater Discharge Permit and other approvals as stated in Table 2-7: Regulator Requirements and Authorizations and Approvals of Chapter 2 Project Description in the Draft EIR. PWD appreciates the direction for calculating wastewater volumes necessary to complete design and approval of the Pure Water Antelope Valley Advanced Water Treatment project.

Response to Comment 1-7:

All references of "Palmdale Water Reclamation Facility" in the Notice of Preparation were revised to "Palmdale Water Reclamation Plant" throughout the Draft EIR.

Response to Comment 1-8:

Exhibits 2 and 3 from the NOP were revised for the Draft EIR. All references to "Palmdale WRF" were changed to "Palmdale WRP" throughout the Draft EIR.

Response to Comment 1-9:

Comment noted. PWD appreciates the information necessary to complete the connection process. Prior to construction of the proposed Project, PWD will ensure that they are in compliance with all applicable requirements to discharge to LACSD's Sewerage System and pay the connection fee, if applicable.

Response to Comment 1-10:

Comment Noted. PWD appreciates the information. If an Industrial Wastewater Discharge Permit is required, connection fee changes will be determined by the Industrial Waste section. An Industrial Wastewater Discharge Permit was identified as a likely requirement of the proposed Project in the Draft EIR Table 2-7: Regulatory Requirements and Authorizations and Approvals as an anticipated permit for the proposed Project. PWD will be in compliance with all requirements pertaining to the connection fees and will pay fees, as applicable.

Response to Comment 1-11:

The Draft EIR found the proposed Project would not have a direct growth inducement effect as it does not propose development of new housing that would attract additional population to the area (see Section 5.1.6 Growth Inducement Potential). PWD appreciates that LACSD No. 20 will provide service up to levels that are legally permitted and will inform PWD of the current capacity and of any proposed expansion of LACSD No. 20's facilities.

Comment Letter 2



Robert C. Ferrante Chief Engineer and General Manager 1955 Workman Mill Road, Whittier, CA 90601-1400 Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998 (562) 699-7411 • www.lacsd.org

November 6, 2024

Ref. DOC 7332579

VIA EMAIL srogers@palmdalewater.org

Mr. Scott Rogers, Engineering Manager Palmdale Water District 2029 East Avenue Q Palmdale, CA 93550

Dear Mr. Rogers:

Second Response to 2023 Strategic Water Resources Plan Update

The Los Angeles County Sanitation Districts (Districts) received a Notice of Availability (NOA) of a Draft Environmental Impact Report (DEIR) for the subject project located in the City of Palmdale on September 30, 2024. Previous comments submitted by the Districts in correspondence dated September 15, 2023 (copy enclosed) still apply to the subject project with the following updated information:

- Section 2.5.2 Recycled Water, page 2-12: The Palmdale Water Reclamation Plant (WRP) currently provides tertiary treatment for approximately 10,200 acre-feet per year (AFY) of wastewater generated in and around the City and produces an average of 9.000 AFY of Title 22 recycled water. The City is a recycled water customer through Palmdale Recycled Water Authority (PRWA) for landscape irrigation and construction water. The remaining portion of Palmdale WRP recycled water is beneficially used for agricultural irrigation.
- 2. Section PFSI-3.5 Sanitation District Collaboration and Water Purveyors, *page 5-4*: Work with the Sanitation District and Water Purveyors to identify users for recycled water and support plans for its treatment and distribution.
- 3. All other information concerning Districts' facilities and sewerage service contained in the document is 2-3 current.

If you have any questions, please contact the undersigned at (562) 908-4288, extension 2742, or phorsley@lacsd.org.

Very truly yours,

Patricia Horsley.

Patricia Horsley Environmental Planner Facilities Planning Department

PLH:plh

Enclosure

DOC 7360414.D2099

RESPONSE TO COMMENT LETTER 2

Los Angeles County Sanitation Districts, Patricia Horsely, Environmental Planner

Response to Comment 2-1:

The text in the Draft EIR on page 2-12 under Section 2.5-2 Recycled Water has been revised to clarify details associated with the Palmdale Water Reclamation Plant, and reads as follows:

The Palmdale Water Reclamation Plant currently provides tertiary treatment for approximately 12,000 10,200 acre-feet per year (AFY) of wastewater generated in and around the City and produces an average of 10,700 9,000 AFY of Title 22 recycled water. A contract with LACSD entitles PWD to up to 5,325 AFY of recycled water. There is also an agreement with the LACSD for 2,000 AFY of recycled water to provide to customers throughout the City's service area, which has since been transferred to Palmdale Recycled Water Agency (PRWA).

The City is a recycled water customer through PRWA for landscape irrigation and construction water. The remaining portion of Palmdale Water Reclamation Plant recycled water is <u>beneficially</u> used for agricultural irrigation.

Response to Comment 2-2:

The comment is noted, however, Public Facilities, Services, and Infrastructure -3.5 Sanitation District Collaboration and Water Purveyors was directly derived from the 2022 City of Palmdale General Plan, which outlines the City's comprehensive planning framework and policies, as a result this statement cannot be revised.

Response to Comment 2-3:

Comment noted. PWD appreciates the input on the LACSD facilities and sewerage service.

Comment Letter 3

From: Zamanian, Arian@DWR <<u>Arian.Zamanian@water.ca.gov</u>>
Sent: Friday, October 4, 2024 10:40 AM
To: Scott Rogers <<u>srogers@palmdalewater.org</u>>
Cc: Luzuriaga, Patrick@DWR <<u>Patrick.Luzuriaga@water.ca.gov</u>>; Ely, Terri@DWR <<u>Terri.Ely@water.ca.gov</u>>
Subject: Strategic Water Resources Plan Draft EIR

CAUTION: This email originated from outside of PWD. Do not click links or open attachments unless you

recognize the sender and know the content is safe.

Hi Scott,

I was looking over the SWRP EIR that PWD submitted and wanted to offer some insight on the Turnback Pool Program since it's mentioned as a source of PWD's imported SWP supplies... As of February 2021, with execution of the Water Management Amendment (WMA) to most of our SWP Contractors' Water Supply Contracts (includes PWD), the Turnback Pool Program no longer exists. Instead, the WMA gives more flexibility by allowing those SWP contractors to buy/sell their Table A, Carryover, previously banked Table A water, and Article 21 water from/to each other. Prior to the WMA, such sales were not allowed. For accuracy purposes, it would be good to include this flexibility into the EIR as a means of acquiring additionally SWP water.

Thanks, Arian Zamanian, P.E. Senior Engineer, Water Resources SWP Water Supply Contracts Unit DWR-O&M 1516 9th Street, 2nd floor Sacramento, California 95814 Office: 916-902-9888

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RESPONSE TO COMMENT LETTER 3

Department of Water Resources, Arian Zamanian, Senior Engineer

Response to Comment 3-1:

The Draft EIR incorporates language directly from the SWRP regarding the Turnback Pool Program as a source of water. Draft SWRP was prepared and released overlapping the Water Management Agreement of February 2021. As the comment notes, the Water Management Agreement gives more flexibility to State Water Project (SWP) contractors to buy or sell their Table A, Carryover, previously banked Table A water, and Article 21 water from and to SWP contractors. Prior to the Water Management Agreement, such sales were not allowed. This does change does not affect the adequacy of the Draft EIR analysis related to State Water Project water as it relates to the Project. However, for accuracy purposes, the Draft EIR text has been revised to incorporate this flexibility and disclose the Water Management Agreement replaces the Turnback Pool Program as a means of acquiring additional SWP water.

Text in the Draft EIR in the Executive Summary on page ES-2 has been revised accordingly to provide this clarification, and reads as follows:

In addition to the Table A amount, PWD supplements Table A water with carryover water, Article 21 water, and turnback pool water <u>Water Management Amendment</u>.

Text in the Draft EIR in Chapter 2 Project Description on page 2-10 has been revised accordingly to provide clarification, and reads as follows:

These include carryover water, "Article 21" water, and turnback pool water <u>Water</u> <u>Management Amendment</u> which are defined as:

- **Carryover water** is Table A water that is allocated to a contractor but not used by the end of the SWP contract year. If space is available, contractors may store up to 5,000 acre-feet (AF) of Table A water in the part of the San Luis Reservoir owned by the SWP for delivery the following year. However, if the San Luis Reservoir must spill that season, the contractor's carryover water will be lost. PWD has stored an average of 2,442 AFY of this water from 2011 and 2021.
- Article 21 water is additional water that PWD may receive temporarily, in addition to its approved Table A water. This water is only offered occasionally, usually in wet hydrologic years, when there is more water in the Delta than the SWP contractors are entitled to. Historically, PWD has not received much of its water. Between 2011 and 2021, PWD has received a total of 335 AFY of Article 21 water.
- Turnback pools are a mechanism for contractors with extra Table A water to sell their water back to other contractors. Since 2011, PWD has only brought about 26 AF of water from turnback pools to supplement its water supplies. <u>Water</u> <u>Management Amendment</u> allows SWP contractors to buy or sell their Table A,

<u>Carryover water, previously banked Table A water, and Article 21 water with each other.</u>

Antelope Valley Air Quality Management District

Comment Letter 4

Antelope Valley Air Quality Management District

2551 West Avenue H Lancaster, CA 93536 661-723-8070 www.avaqmd.ca.gov Barbara Lods, Executive Director

In reply, please refer to AV1024/136

October 7, 2024

Kim Clyma Palmdale Water District 2029 East Avenue Q Palmdale, CA 93550

Project: Notice of Availability Draft Environmental Impact Report for the 2023 Strategic Water Resources Plan Update, State Clearinghouse #2023080290

To Whom It May Concern:

The Antelope Valley Air Quality Management District (District) has received the request to review planning documents – for the Notice of Availability Draft Environmental Impact Report for the 2023 Strategic Water Resources Plan Update, State Clearinghouse #2023080290 for the proposed actions that make the most of local water supplies and facilities. The goal of this SWRP Update was to reevaluate PWD's ability to meet the demands of both current and future customers through the year 2050 while aligning with PWD's long-term plan for supplying water to its customers. This project site is located throughout PWD's 47-square-mile service area in the Antelope Valley area of Los Angeles County, California. A portion of the Palmdale Ditch component of the Project extends south of the PWD service area and a portion of the conveyance facilities to the Upper Amargosa Creek Water Recharge Project extended north of the PWD service area in unincorporated Los Angeles County. This project site is located in the Palmdale and Ritter Ridge U.S. Geological Survey (USGS) 7.5-minute quadrangles.

Prior to initiating any construction activity, the District requires the proposed project to comply with all requirements outlined in <u>District Rule 403</u>, *Fugitive Dust*. A person shall not conduct an Active Operation of Construction, excavation, extraction and other Earth-Moving Activities with a Disturbed Surface Area of five or more acres, or with a daily import or export of 100 cubic yards or more of Bulk Material without utilizing at least one of the measures listed for each of the operation stages specified in subparagraphs following District Rule 403(C)(4)(a). Upon completion of the project, all disturbed surface areas must meet the definition of a stabilized surface, as defined in Rule 403 and verified by District 4-3

We have reviewed the documentation and based on the information available to us at this time, we have no additional 4-4

Thank you for the opportunity to review this planning document. If you have any questions regarding the information presented in this letter please contact me at (661) 723-8070 ext. 23 or <u>blods@avaqmd.ca.gov</u>.

Sincerely,

Barbara Sode

Barbara Lods

BJL/SS Sent via Email

RESPONSE TO COMMENT LETTER 4

Antelope Valley Air Quality Management District, Barbara Lods

Response to Comment 4-1:

PWD appreciates the time and consideration in submitting a comment letter.

Response to Comment 4-2:

Please refer to the Draft EIR Section 3.2.3.4 Impacts and Mitigation Measures page 3.2-23, for the specific discussion surrounding the Project complying with all applicable laws and regulations regarding air quality. The Draft EIR describes that the proposed Project would comply with all requirements outlined in District Rule 403. Mitigation Measure AIR-1 complies with District Rule 403(C)(4)(a) as it states that PWD shall ensure construction contractor(s) implement at least one measure to comply with District Rule 403, which includes Dust Control Plan.

Response to Comment 4-3:

Please refer to the Draft EIR Section 3.2.3.4 Impacts and Mitigation Measures page 3.2-23, which describes how the proposed Project would comply with Antelope Valley Air Quality Management District (AVAQMD) Rule 403 requirements, which includes meeting the definition of a stabilized surface.

Response to Comment 4-4:

Comment noted. PWD appreciates the AVAQMD's time and consideration of the Draft EIR.

5-1

Comment Letter 5

From: Jill Mccormick <<u>historicpreservation@quechantribe.com</u>> Sent: Thursday, October 24, 2024 11:26 AM To: Scott Rogers <<u>srogers@palmdalewater.org</u>> Subject: 2023 Strategic Water Resources Plan Update - Palmdale Water District

CAUTION: This email originated from outside of PWD. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning,

This email is to inform you that we do not wish to comment on this project. The Ft. Yuma Quechan Tribe Historic Preservation Office defers to the more local Tribes on this matter.

Thank you, H. Jill McCormick, M.A.

Historic Preservation Office Ft. Yuma Quechan Indian Tribe P.O. Box 1899 Yuma, AZ 85366-1899 Office: 760-919-3631 Cell: 928-920-6521



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RESPONSE TO COMMENT LETTER 5

Yuma Quechan Indian Tribe, Jill McCormick, Historic Preservation Officer

Response to Comment 5-1:

PWD appreciates the Yuma Quechan Indian Tribe's time and consideration and will coordinate with more local tribes requesting to be consulted on the Project.



State of California – Natural Resources Agency DEPARTMENT OF FISH AND WILDLIFE South Coast Region 3883 Ruffin Road San Diego, CA 92123 (858) 467-4201 wildlife.ca.gov Cor GAVIN NEWSOM, Governor CHARLTON H. BONHAM, Director



6-1

Comment Letter 6

November 8, 2024

Scott Rogers Palmdale Water District 2029 East Avenue Q Palmdale, CA 93550 srogers@palmdalewater.org

SUBJECT: PROGRAMMATIC ENVIRONMENTAL IMPACT REPORT FOR THE 2023 STRATEGIC WATER RESOURCES PLAN, SCH NO. 2023080290, LOS ANGELES COUNTY, CA

Dear Scott Rogers:

The California Department of Fish and Wildlife (CDFW) reviewed the Programmatic Environmental Impact Report (PEIR) from the Palmdale Water District (PWD; Lead Agency) for the 2023 Strategic Water Resources Plan (Project) pursuant to the California Environmental Quality Act (CEQA) and CEQA Guidelines¹.

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, CDFW appreciates the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

CDFW ROLE

CDFW is California's Trustee Agency for fish and wildlife resources and holds those resources in trust by statute for all the people of the State (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a)). CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species (Fish & G. Code, § 1802). Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect fish and wildlife resources.

Conserving California's Wildlife Since 1870

¹ CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

Scott Rogers Palmdale Water District November 8, 2024 Page 2 of 17

CDFW may also act as a Responsible Agency under CEQA. (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381). CDFW expects that it may need to exercise regulatory authority as provided by the Fish and Game Code. As proposed, for example, the Project may be subject to CDFW's lake and streambed alteration regulatory authority (Fish & G. Code, § 1600 et seq.). Likewise, to the extent implementation of the Project as proposed may result in "take" as defined by State law² of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.) or the Native Plant Protection Act (NPPA; Fish & G. Code, §1900 et seq.), the Project proponent may seek related take authorization as provided by the Fish and Game Code.

PROJECT DESCRIPTION SUMMARY

Proponent: PWD

Objective: The Project is a programmatic Plan for developing and utilizing a mix of water supply sources and facilities to meet PWD's water supply demand through 2050. The Plan also describes PWD's ongoing monitoring and reporting of conservation efforts to meet City and State policies and ordinances. Described are several water supply sources and facilities, some of which are analyzed in other CEQA documents. In addition to ongoing Projects that are associated with separate CEQA actions, this Project proposes and analyzes the following new actions:

Pure Water Project

Under the proposed Project, PWD would maximize beneficial use of recycled water through construction and implementation of an Advanced Water Purification Facility (facility) on a vacant property near the Palmdale Water Reclamation Plant. The facility is referred to as the Pure Water Antelope Valley Project, and operations would consist of directly injecting purified water into the saturated zone of an aquifer. Moreover, PWD would store recycled water after purification into the Antelope Valley Groundwater Basin. Up to five new recycled water injection wells would be required if more recycled water is received. The locations of the purified recycled water injection wells are anticipated to be within the Pure Water Antelope Valley property. New recycled water conveyance pipelines would be constructed between the Palmdale Water Reclamation Plant and the new facility, and between the new injection wells and the new facility. The facility and associated infrastructure is conceptual in capacity and no CEQA analysis was provided in this PEIR.

Well Replacement and Rehabilitation

Under the proposed Project, PWD would rehabilitate or replace up to 22 PWD groundwater wells to maintain the existing pumping capacity and enable greater pumping during dry years. Five existing wells have been pre-selected to be replaced in the near future. Wells selected for rehabilitation would remain in their existing location

6-1 cont

² "Take" is defined in Section 86 of the Fish and Game Code as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill."

Scott Rogers Palmdale Water District November 8, 2024 Page 3 of 17

while replacement wells may be located in areas with higher rates of groundwater production or near existing wells. Moreover, PWD would purchase 1,000 acre-feet per year (AFY) of groundwater production rights from other pumpers in the Antelope Valley Groundwater Basin. A total of seven new wells would be constructed to extract the purchased groundwater rights and water that would connect to an existing distribution system. New conveyance pipelines would also need to be installed to implement extraction activities.

Palmdale Ditch Conversion Project

Additionally, the Project proposes the Palmdale Ditch Conversion Project. The Palmdale Ditch (Ditch) is an 8.5-mile-long conveyance system that transports water from Littlerock Reservoir to Lake Palmdale. Approximately 1.3 miles of the Ditch was previously converted to an underground pipeline. This proposed Project would enclose the remaining 7.2-mile-long Ditch by constructing a pipeline within and near the existing Ditch.

Project Alternatives: The PEIR provides three Project Alternatives: No Project Alternative (Alternative 1), Reduced Project Alternative (Alternative 2), and Alternative Location to the Palmdale Ditch Conversion Project (Alternative 3). Under Alternative 1, PWD would not implement the proposed Project and no impacts would occur. Under Alternative 2, the proposed Project would not include a purchase of 2,000 AFY groundwater production rights and does not include improvements to the Ditch. The Ditch would maintain its existing condition and would not be converted to an underground pipeline. The new turnout to the California Aqueduct would also not be constructed. The remainder of the proposed Project such as maximizing imported water supplies, recycled water injection, rehabilitation and replacement of wells, construction of new groundwater wells, and on-going Projects would be implemented. Under Alternative 3, an alternate location of the Ditch is considered. Under this alternative, the Ditch would continue to be a buried pipeline, however, 6.5 miles of buried pipeline would be installed within Cheseboro Road and Barrel Springs Road. Moreover, the majority of the current Ditch would be abandoned, and water would be conveyed via gravity flow with siphons in the pipeline. The new turnout at the California Aquaduct may still be installed. Similar to Alternative 2, the remaining actions and on-going Projects proposed in the Project would be implemented.

Location: The Project area is located throughout PWD's 47-square mile service area in the City of Palmdale (City) and its surrounding sphere of influence within Los Angeles County. The proposed Project includes some facilities that are located outside of PWD's service area. For the Palmdale Ditch Improvement Project, a portion of the Ditch extends south of the PWD service area and into the Angeles National Forest.

Timeframe: The proposed implementation schedule for these individual Projects within the Plan are scheduled to be implemented between 2025 to 2035. PWD would continue to recharge imported water at the Upper Amargosa Creek Recharge Project and continue to remove sediment at Littlerock Reservoir. It is assumed that the Palmdale 6-2 cont.

Scott Rogers Palmdale Water District November 8, 2024 Page 4 of 17

Ditch Conversion Project and Pure Water Antelope Valley Project are high-priority individual Projects that would be initiated near 2025. Additionally, recycled water injection wells and new groundwater wells would be constructed prior to 2035. Groundwater rights purchases would not be required until the end of the planning period between 2045 to 2050.

Biological Setting: The PWD service area is almost entirely within the City but also consists of land within unincorporated Los Angeles County. The Project area is located within the Antelope Valley, which encompasses a variety of vegetation communities and landscapes. Analysis of the biological resources and sensitive species for the proposed Project was conducted through review of the 2018 PWD Water System Master Plan PEIR and a review of databases. For the Palmdale Ditch Conversion Project, Rincon Consultants Inc. conducted a biological resource assessment (BRA), delineation of water features, a western Joshua tree (*Yucca brevifolia*; CESA candidate species) census, and focused surveys for Crotch's bumble bee (*Bombus crotchii*; CESA candidate species).

Within the Project area, there are active and remnant agricultural fields as well as various desert vegetation communities. Vegetation communities within the Project area include, but is not limited to, Joshua tree woodland, semi-desert chaparral, California juniper (*Juniperus californica*) woodland, shrubland, and grassland. Open water in the Project area consist of Lake Palmdale, Una Lake, Littlerock Wash, the California Aqueduct, and Anaverde Creek.

Given the diverse desert habitats within the Project area, there is suitable habitat for the following species: Mohave ground squirrel (Xerospermophilus mohavensis; CESA-listed threatened), southwestern pond turtle (Actinemys pallida; federal candidate for listing, SSC), desert tortoise (Gopherus agassizii; CESA-listed endangered, ESA-listed threatened), two-striped gartersnake (Thamnophis hammondii; SSC), northern California legless lizard (Anniella pulchra; SSC), California legless lizard (Anniella spp.; SSC), California glossy snake (Arizona elegans occidentalis; SSC), coast horned lizard (Phrynosoma blainvillii; SSC), tricolored blackbird (Agelaius tricolor; CESA-listed threatened), burrowing owl (Athene cunicularia; CESA candidate species), loggerhead shrike (Lanius Iudovicianus; SSC), Le Conte's thrasher (Toxostoma lecontei), least Bell's vireo (Vireo bellii pusillus; CESA and ESA-listed endangered), bald eagle (Haliaeetus leucocephalus), golden eagle (Aquila chrysaetos; Fully Protected Species), Swainson's hawk (Buteo swainsoni; CESA-listed threatened), southwestern willow flycatcher (Empidonax traillii extimus; CESA and ESA-listed endangered), San Diego desert woodrat (Neotoma lepida intermedia; SSC), pallid bat (Antrozous pallidus; SSC), and Townsend's big-eared bat (Corynorhinus townsendii; SSC). While there is no designated critical habitat in the Project area, the nearest critical habitat is for arroyo toad (Anaxyrus californicus; Endangered Species Act (ESA)-listed endangered, SSC), located one mile south of the Ditch. Deer (Cervidae sp.), bears (Ursidae sp.), bobcats (Lynx rufus sp.), desert big horn sheep (Ovis canadensis neisoni; Fully Protected

6-2 cont.

6-2 cont

6-3

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Scott Rogers Palmdale Water District November 8, 2024 Page 5 of 17

Species), and mountain lion (*Puma concolor*, CESA candidate species) may also be observed utilizing the ditch.

PWD has incorporated 21 mitigation measures in the PEIR specific to biological resources and special-status species. The mitigation measures cover a variety of topics, which include, but is not limited to best management practices, preconstruction surveys, qualified biological monitor, and species-specific measures. The species-specific measures focus on avoidance actions (i.e., avoidance buffers), plans, and compensatory mitigation of a 1:1 ratio if avoidance is unachievable.

Project History: As part of the CEQA process, PWD published a Notice of Preparation (NOP) for the Project on August 15, 2023. During the CEQA public review period, CDFW provided a comment letter to PWD (September 2023). Since July 2024, CDFW has worked with PWD and the biological consultant, Rincon Consultants Inc., to discuss biological resources related to the Palmdale Ditch Conversion Project. Engagement with PWD and their consultant have been centered around Crotch's bumble bee focused surveys and western Joshua tree permitting obligations.

COMMENTS AND RECOMMENDATIONS

While CDFW appreciates the PWD's efforts to incorporate CDFW's NOP comments, we have additional comments and recommendations below to assist PWD in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources. Additional comments or other suggestions may also be included to improve the document.

COMMENT # 1: Palmdale Ditch Conversion Project

Issue: The biological analysis provided in the PEIR for the Palmdale Ditch Conversion Project may not sufficiently evaluate impacts on wildlife species.

Specific impact: The Palmdale Ditch Conversion Project involves permanently removing a critical water source for wildlife from Littlerock Reservoir to Lake Palmdale (approximately 8.5 miles). Construction activities related to converting the 7.2-mile Ditch to a pipeline may result in permanent and temporary loss of suitable habitat, direct mortality of rare plants and wildlife, loss of a water source for wildlife, and increase both noise and disturbance.

Why impact would occur: The PEIR stated that there has been a decrease in water deliveries from 1995 to 2024 and claimed that, "...wildlife likely rely on other readily available sources of water within and adjacent to the BSA, such as Littlerock Wash, and other water features overly the San Adreas Fault (i.e., sag ponds), Lake Palmdale, Lake Una..." (page 3.3-35). While water deliveries are not as frequent, the Ditch is an intermittent stream that also receives water during flooding events and wash-outs. Additionally, some water features such as Lake Palmdale are in close proximity to urbanized areas of the City that see a high level of human activity. Because of this

Scott Rogers Palmdale Water District November 8, 2024 Page 6 of 17

higher level of human activity, wildlife may preferentially select the Ditch as a water source over the other available sources. Given its proximity to suitable habitat and the Angeles National Forest, it is highly probable that medium to large sized mammals may utilize the Ditch as a water resource. Medium and large bodied mammals that may use the Ditch for water include, but are not limited to, big horn sheep, mule deer, mountain lions (of the San Gabriel Population that represent an evolutionarily significant unit), bobcats, and other meso-carnivores. In support of this hypothesis, CDFW has anecdotal evidence of desert big horn sheep drinking from the upper reaches of the Littlerock reservoir (personal communication). A wildlife camera study should be conducted to provide technical data on which wildlife species use the ditch and how often they visit. Without camera data to substantiate claims of wildlife usage, CDFW remains concerned that enclosing the entire Ditch will result in the permanent loss of a water source and have significant impacts on wildlife.

Not only do ditches like the Palmdale Ditch represent a water resource to wildlife species, but ditches are often used as movement corridors for wildlife (CDFW observation). The BRA states that, "The Ditch occurs along a transition between mountain and desert ecosystems within a largely undeveloped area lacking physical barriers to connectivity or artificial lighting that creates the potential for wildlife movement across the BSA" (page 52). Conducting a camera survey would also provide data on wildlife movement and alternative uses of the Ditch by local wildlife species.

Evidence impact would be significant:

Several wildlife species are protected under CESA and meet the CEQA definition of rare, threatened, or endangered species (CEQA Guidelines, § 15380). Moreover, the Project may impact Fully Protected Species such as bighorn sheep, which are known to occur in Antelope Valley. Fully Protected Species may not be taken or possessed except with authorization from CDFW and only under specific circumstances (Fish and Game Code § 4700). Impacts on the special-status wildlife may require a mandatory finding of significance because the Project would potentially threaten to eliminate a plant or animal community and/or substantially reduce the number or restrict the range of an endangered, rare, or threatened species (CEQA Guidelines, §15065). Habitat that supports wildlife movement and serve as wildlife migratory corridors are essential to the survival of many California species (Fish and Game Code §1955 (d)). With the increasing loss of suitable habitat and water sources on a local and regional scale, impacts to these biological resources would be considered significant impacts as a result of the Project.

Recommended Potentially Feasible Mitigation Measure(s)

Recommendation #1: Wildlife Camera Study - CDFW recommends PWD conduct a camera survey by deploying motion-activated trail cameras intermittently along the drainage, using animal tracks, scat, trails, and other wildlife signs to set the cameras in areas where wildlife are likely to occur. Cameras should be placed by a biologist familiar 6-3 cont

Scott Rogers Palmdale Water District November 8, 2024 Page 7 of 17

with the local wildlife species and who has experience deploying, monitoring, and analyzing data from trail camera surveys. Cameras should be deployed for a minimum of one year to accurately capture the activity of local wildlife species.

Recommendation #2: Wildlife Movement - Following the results of the wildlife camera study, CDFW recommends that PWD reassess the Project's impact on the Ditch serving as a local wildlife corridor and wildlife movement.

ADDITIONAL COMMENTS

Reduced Project Alternative. CDFW supports the Reduced Project Alternative, which would leave the Ditch in its current condition and eliminate the purchase of groundwater rights. If PWD proceeds with enclosing the pipeline, wildlife species would be impacted, directly (e.g., mortality, injury) and indirectly (e.g., habitat loss). During the construction phase of the Ditch, approximately 450 western Joshua trees would be removed, and work would occur within 50 feet of up to 1,200 western Joshua trees. Additionally, up to approximately 80 acres of suitable floral resources for Crotch's bumble bee would be impacted (page 3.3-63). Furthermore, the PEIR states, "[T]he Reduced Project Alternative would not include the conversion of the Palmdale Ditch; thus it would have fewer construction-related impacts to biological, cultural and tribal resources, paleontological, wildfire, aesthetics, and transportation to the construction phase, and reduced impacts to air quality, energy, GHG emissions, and transportation during operations" (page 4-9). While PWD believes that the Reduced Project Alternative does not completely fulfil the objectives of the SWRP, PWD can achieve the majority of its objectives with this alternative and could re-evaluate additional ways to optimize its other water supply sources. CDFW strongly recommends that PWD adopt the Reduced Project Alternative as the proposed Project. If PWD chooses to pursue the Palmdale Ditch Conversion Project, we believe that separate and distinct CEQA analysis would be appropriate.

<u>CEQA Document Tiering</u>. The PEIR discusses Project-specific construction activities and biological impacts related to the Pure Water Antelope Valley Project, Palmdale Ditch Conversion Project, and rehabilitation and/or replacement of existing wells. For the Pure Water Antelope Valley Project and rehabilitation and/or replacement of existing wells, no site-specific biological assessment was conducted for either of these individual Projects. The impact analysis in the Biological Resources section of the PEIR is speculative and not based on biological surveys conducted at the individual Project sites by qualified biologists. CDFW recommends that, for individual Projects nested under the proposed Project, findings of significance should be set aside when certifying the PEIR until those aspects can be fully studied in a subsequent or supplemental CEQA document (see CEQA Guidelines §§ 15162 and 15163). The PEIR should explicitly discuss what further CEQA actions are anticipated for these Projects, whether further analysis will be provided, and whether it will be available for public review. In addition to this recommendation, CDFW would appreciate the opportunity to review and comment on CEQA addendums associated with this PEIR.

Woodard & Curran, Inc. December 2024

6-3 cont.

6-4

Scott Rogers Palmdale Water District November 8, 2024 Page 8 of 17

<u>Project Components</u>. Table ES-2: Summary of Impacts outlines the mitigation measures that are anticipated to be adopted once the PEIR is certified. For mitigation measures pertaining to biological resources, each measure states whether the mitigation measure applies to the Palmdale Dith Conversion, other Project components, or both. Given that the EIR is a programmatic planning document, mitigation measures should not have separate requirements for distinct Project components such as the Palmdale Ditch Conversion Project. CDFW recommends that all mitigation measures be applied to all components of the proposed Project as a whole. Mitigated measures specific to the Palmdale Ditch Conversion Project should be incorporated into a tiered Project-specific CEQA document. Conversely, CDFW recommends that the Palmdale Ditch Conversion Project be analyzed as its own project separate from this CEQA action.

Mitigation Measures, Mitigation measures pertaining to special-status species, in summary, state that avoidance will be prioritized and that if impacts cannot be avoided. then a compensatory mitigation ratio of 1:1 will be used. While CDFW acknowledges that avoidance is generally preferred over take of listed or otherwise sensitive species. we believe that the scope and breadth of the Project and associated individual Projects makes full avoidance of these species extraordinarily challenging and/or unlikely. Furthermore, CDFW does not concur that a 1:1 compensatory mitigation ratio will necessarily satisfy CESA's Fully Mitigated Standard. Any Incidental Take Permit (ITP) issued may require a higher ratio in order to meet this standard. Ratios associated with take of riparian habitat through a Streambed Alteration Agreement may also be higher than 1:1. Therefore, if special-status species are observed on site, CDFW requests that we be contacted as soon as possible to scope appropriate compensatory mitigation and outstanding permitting requirements. We recommend that mitigation measures BIO-2. 3, 4, 5, 6, 8, 9, 10, 11, 19, and 20 be amended to say that appropriate mitigation ratios for compensatory mitigation may be increased higher than a 1:1 ratio following consideration of all Project impacts and coordination with CDFW. CDFW is available to review and provide feedback on any mitigation measure language prior to the publication of the final PEIR and welcome collaboration with the PWD at this phase of the document development.

In addition to references to compensatory mitigation, CDFW also recommends the mitigation measures for arroyo toad, desert tortoise, tricolored blackbird, and least Bell's vireo be separate and distinct measures by species rather than consolidated into one measure. Impacts towards these species cannot be addressed uniformly, and each measure should describe what is needed in order to appropriately mitigate for each species. Mitigation should include avoidance as well as compensatory mitigation provisions and permitting obligations.

Mitigation Measure BIO-17. CDFW recommends that PWD revise Mitigation Measure BIO-17 to incorporate language underlined and omit language in strikethrough:

6-6

Scott Rogers Palmdale Water District November 8, 2024 Page 9 of 17

This mitigation measure is applicable to <u>individual Projects in the Palmdale Ditch</u> Conversion project and other Project components for which suitable habitat for nesting birds is identified during the habitat assessment conducted pursuant to Mitigation Measure BIO-1. Project component construction activities shall occur outside of the bird breeding season (February 1 to August 31) to the extent practicable. If construction must commence within the bird breeding season, PWD shall retain a qualified biologist to conduct a pre-construction nesting bird survey within <u>a 500-foot radius of the project</u> <u>site the disturbance footprint plus a 100-foot buffer (300 feet for raptors)</u>, where feasible, no more than seven days prior to initiation of ground disturbance (including, but not limited to, site preparation, staging and mobilization, vegetation clearance/mowing/trimming, grading, and excavation) in each work area. If the Project component is phased or construction activities stop for more than one week, a subsequent pre-construction nesting bird survey shall be conducted prior to each phase of construction, if initiated during the bird breeding season.

Pre-construction nesting bird surveys shall be conducted during the time of day when birds are active and shall factor in sufficient time to perform this survey adequately and completely. A brief report of the nesting bird survey results, if applicable, shall be submitted to PWD for review and approval prior to ground disturbance and/or vegetation removal activities.

If no nesting birds are observed during pre-construction surveys, no further action is required. If nests are found, an appropriate avoidance buffer<u>of up to 300 feet</u> ranging in size from 25 to 50 feet for passerine (perching birds) nests and <u>up to 500 feet up to 300</u> feet for active, non-listed raptor nests (depending on the species and the proposed work activity) shall be determined by the qualified biologist and demarcated with bright orange construction fencing or other suitable flagging. Active nests shall be monitored at a minimum of once per week until a qualified biologist has determined the birds have fledged and are no longer reliant upon the nest or parental care for survival. No construction activity shall occur within this buffer until the qualified biologist confirms the breeding/nesting is completed and all the young have fledged. If Project component activities must occur within the buffer, they shall only be conducted at the discretion of the qualified biologist.

<u>Hydrology Report</u>. The BRA identified 20 unnamed drainages along the Ditch area. During heavy rain events these drainages may enter and flow through the open Ditch. Once the Ditch is completely underground, the hydrological flow will be altered. The PEIR does not discuss hydrology, nor does it provide any technical study to demonstrate the hydrology pattern of surrounding drainage systems upon buildout of the pipeline. CDFW recommends the PWD provide a provide a hydrological study and basis of design report that includes information on how water and sediment is conveyed throughout the entirety of the ditch project, including water surface profiles in a 2-, 5-, 10-, 25-, 50-, 100-, and 200-year storm event. This report should provide information about how the enclosing the ditch will affect local drainages and will depict the anticipated post Project hydrology. 6-9 cont.

6-11

6-12

6-13

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Scott Rogers Palmdale Water District November 8, 2024 Page 10 of 17

<u>Fully Protected Species</u>. The PEIR notes that there is a moderate potential for the golden eagle to occur within the Project area (page 3.3-29). Additionally, CDFW is aware of desert big horn sheep within the Project area and Antelope Valley. Fully Protected Species may not be taken or possessed at any time according to the Fish and Game Code § 3511. CDFW cannot authorize take for the golden eagle or desert big horn sheep and PWD must completely avoid impacts to these species during individual project's construction and operational activities.

<u>Mitigation Measure BIO-3</u>. CDFW appreciates the incorporation of Mitigation Measure BIO-3: Joshua Tree Census Survey, Avoidance, Minimization, and Compensation Measures in the PEIR. We recommend that the mitigation measure removes the in-lieu fee prices given that rates associated with the Western Joshua Tree Conservation Act may change prior to an invoice payment.

<u>CESA</u>. Several CESA protected species (e.g., western Joshua tree, burrowing owl, desert tortoise, Crotch's bumble bee) are either present within the Project area or have the potential of being present during individual project activities. As to CESA, take of any endangered, threatened, candidate species, or CESA-listed plant species that results from the Project is prohibited, except as authorized by state law (Fish & G. Code §§ 2080, 2085; Cal. Code Regs., tit. 14, §786.9). While CDFW appreciates the avoidance and minimization measures PWD has incorporated into the PEIR to avoid take of special status species, incidental take may still occur. Consequently, if the Project or any Project-related activity will result in take of a species designated as endangered or threatened, or a candidate for listing under CESA, CDFW recommends that PWD seek appropriate take authorization under CESA prior to implementing the Project. Appropriate authorization from CDFW may include an ITP or a consistency determination in certain circumstances, among other options [Fish & G. Code, §§ 2080.1, 2081, subds. (b) and (c)].

Early consultation is encouraged, as significant modification to a project and mitigation measures may be required to obtain a CESA Permit. Revisions to the Fish and Game Code, effective January 1998, may require that CDFW issue a separate CEQA document for the issuance of an ITP unless the Project CEQA document addresses all Project impacts to CESA-listed species and specifies a mitigation monitoring and reporting program that will meet the requirements of an ITP. For these reasons, biological mitigation monitoring and reporting proposals should be of sufficient detail and resolution to satisfy the requirements for a CESA ITP.

<u>ESA Consultation</u>. Several project components of the proposed Project may result in take of special-status species protected under ESA. Take under the ESA includes significant habitat modification or degradation that could result in death or injury to a listed species by interfering with essential behavioral patterns such as breeding, foraging, or nesting. CDFW recommends consultation with the USFWS, in order to

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comply with ESA, prior to Project construction and operational activities that may adversely impact ESA-listed or candidate species.

Mitigation and Monitoring Reporting Plan. CDFW recommends the Project's environmental document include the mitigation measures recommended in this letter. CDFW has provided comments via a mitigation monitoring and reporting plan to assist in the development of feasible, specific, detailed (i.e., responsible party, timing, specific actions, location), and fully enforceable mitigation measures (CEQA Guidelines, § 15097; Pub. Resources Code, § 21081.6). The Lead Agency is welcome to coordinate with CDFW to further review and refine the Project's mitigation measures. Per Public Resources Code section 21081.6(a)(1), CDFW has provided a summary of our suggested mitigation measures and recommendations in the form of an attached Draft Mitigation Monitoring and Reporting Plan (Attachment A).

ENVIRONMENTAL DATA

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, subd. (e).) Accordingly, please report any special status species and natural communities detected during Project surveys to the California Natural Diversity Database (CNDDB). The <u>CNDDB website</u>³ provides direction regarding the types of information that should be reported and allows on-line submittal of field survey forms (CDFW 2024a).

In addition, information on special status native plant populations and sensitive natural communities, should be submitted to CDFW's Vegetation Classification and Mapping Program using the <u>Combined Rapid Assessment and Relevé Form</u>⁴ (CDFW 2024b).

PWD should ensure data collected for the preparation of the PEIR is properly submitted.

FILING FEES

The Project, as proposed, would have an impact on fish and/or wildlife, and assessment of environmental document filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the environmental document filing fee is required in order for the underlying project approval to be operative, vested, and final. (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089.)

³ https://wildlife.ca.gov/Data/CNDDB https://wildlife.ca.gov/Data/CNDDB

⁴ https://wildlife.ca.gov/Data/VegCAMP/Natural-Communities/Submit

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CONCLUSION

CDFW appreciates the opportunity to comment on the PEIR to assist PWD in identifying and mitigating Project impacts on biological resources. CDFW requests an opportunity to review and comment on any response that PWD has to our comments and to receive notification of any forthcoming hearing date(s) for the Project (CEQA Guidelines, § 15073(e)).

Questions regarding this letter or further coordination should be directed to Julisa Portugal⁵, Environmental Scientist.

Sincerely,

DocuSigned by: bot litre

Victoria Tang Environmental Program Manager South Coast Region

ATTACHMENTS

Attachment A: Draft Mitigation, Monitoring, and Reporting Program

ec: <u>California Department of Fish and Wildlife</u> Victoria Tang, Environmental Program Manager Jennifer Turner, CEQA Senior Environmental Scientist (Supervisory) Steve Gibson, CESA Senior Environmental Scientist (Supervisory) Frederic Rieman, LSA Senior Environmental Scientist (Supervisory) Julisa Portugal, Environmental Scientist Cooper Wall, Environmental Scientist Andrew Aitken, Environmental Scientist

Office of Planning and Research State.Clearinghouse@opr.ca.gov

⁵ Phone: 582-330-7583; Email: <u>Julisa.Portugal@wildlife.ca.gov</u>

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REFERENCES

California Department of Fish and Wildlife. September 2023. Comments on the Notice of Preparation of a Programmatic Environmental Impact Report for the 2023 Strategic Water Resources Plan Update, Palmdale Water District, Los Angeles County, California (SCH No. 2023080290)

[CDFW] California Department of Fish and Wildlife. 2024a. California Natural Diversity Database. Available at: <u>https://wildlife.ca.gov/Data/CNDDB</u>

[CDFW] California Department of Fish and Wildlife. 2024b. Combined Rapid Assessment and Revele Form. Available at:

https://wildlife.ca.gov/Data/VegCAMP/Natural-Communities/Submit

[CNPS] California Native Plant Society. 2024. California Rare Plant Ranks. Available at: https://www.cnps.org/rare-plants/california-rare-plant-ranks

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ATTACHMENT A: DRAFT MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

CDFW provides the following language to be incorporated into the MMRP for the Project.

Mitigation Measure	Timing	Responsible Party
Mitigation Measure #1: Mitigation Measure BIO-17 - This mitigation measure is applicable to individual Projects in which suitable habitat for nesting birds is identified during the habitat assessment conducted pursuant to Mitigation Measure BIO-1. Project component construction activities shall occur outside of the bird breeding season (February 1 to August 31). If construction must commence within the bird breeding season, PWD shall retain a qualified biologist to conduct a pre-construction nesting bird survey within a 500-foot radius of the project site, no more than seven days prior to initiation of ground disturbance (including, but not limited to, site preparation, staging and mobilization, vegetation clearance/mowing/trimming, grading, and excavation). If the Project component is phased or construction activities stop for more than one week, a subsequent pre-construction nesting bird survey shall be conducted prior to each phase of construction, if initiated during the bird breeding season.	Prior to and during Project activities	Qualified Biologist
Pre-construction nesting bird surveys shall be conducted during the time of day when birds are active and shall factor in sufficient time to perform this survey adequately and completely. A brief report of the nesting bird survey results, if applicable, shall be submitted to PWD for review and approval prior to ground disturbance and/or vegetation removal activities.		
If no nesting birds are observed during pre-construction surveys, no further action is required. If nests are found, an appropriate avoidance buffer of up to 300 feet for passerine (perching birds) nests and up to 500 feet for active, non-listed raptor nests		

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Mitigation Measure	Timing	Responsible Party
shall be determined by the qualified biologist and demarcated with bright orange construction fencing or other suitable flagging. Active nests shall be monitored at a minimum of once per week until a qualified biologist has determined the birds have fledged and are no longer reliant upon the nest or parental care for survival. No construction activity shall occur within this buffer until the qualified biologist confirms the breeding/nesting is completed and all the young have fledged.		
Recommendation #1: Wildlife Camera Study - CDFW recommends PWD conduct a camera survey by deploying motion-activated trail cameras intermittently along the drainage, using animal tracks, scat, trails, and other wildlife signs to set the cameras in areas where wildlife are likely to occur. Cameras should be placed by a biologist familiar with the local wildlife species and who has experience deploying, monitoring, and analyzing data from trail camera surveys. Cameras should be deployed for a minimum of one year to accurately capture the activity of local wildlife species.	Prior to adoption of PEIR	Lead Agency
Recommendation #2: Wildlife Movement - Following the results of the wildlife camera study, CDFW recommends that PWD reassess the Project's impact on the Ditch serving as a local wildlife corridor and wildlife movement.	Prior to adoption of PEIR	Lead Agency
Recommendation #3: Reduced Project Alternative - CDFW strongly recommends that PWD adopt the Reduced Project Alternative as the proposed Project. If PWD chooses to pursue the Palmdale Ditch Conversion Project, we believe that separate and distinct CEQA analysis would be appropriate.	Prior to adoption of PEIR	Lead Agency

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Mitigation Measure	Timing	Responsible Party
Recommendation #4: CEQA Document Tiering - CDFW recommends that, for individual Projects nested under the proposed Project, findings of significance should be set aside when certifying the PEIR until those aspects can be fully studied in a subsequent or supplemental CEQA document (see CEQA Guidelines §§ 15162 and 15163). The PEIR should explicitly discuss what further CEQA actions are anticipated for these Projects, whether further analysis will be provided, and whether it will be available for public review.	Prior to adoption of PEIR	Lead Agency
Recommendation #5: Project Components - CDFW recommends that all mitigation measures should be applied to all components of the proposed Project as a whole. Mitigated measures specific to the Palmdale Ditch Conversion Project should be incorporated into a tiered Project-specific CEQA document. Conversely, CDFW recommends that the Palmdale Ditch Conversion Project be analyzed as its own project separate from this CEQA action.	Prior to adoption of PEIR	Lead Agency
Recommendation #6: Mitigation Measures - We recommend that mitigation measures BIO-2, 3,4,5,6, 8, 9, 10,11,19, and 20 be amended to say that appropriate mitigation ratios for compensatory mitigation will be scoped with CDFW. CDFW also recommends the mitigation measures for arroyo toad, desert tortoise, tricolored blackbird, and least Bell's vireo, be separate and distinct measures by species rather than clumped into one measure.	Prior to adoption of PEIR	Lead Agency
Recommendation #7: Hydrology Report - CDFW recommends the PWD provide a provide a hydrological study and basis of design report that includes information on how water and sediment is conveyed throughout the entirety of the ditch project, including water surface profiles in a 2-, 5-, 10-, 25-, 50-, 100-, and 200-year storm event. This report should provide information about how the enclosing the ditch will affect local drainages and will depict the anticipated post Project hydrology.	Prior to adoption of PEIR	Lead Agency

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Mitigation Measure	Timing	Responsible Party
Recommendation #8: Fully protected Species - CDFW cannot authorize take for the golden eagle or desert big horn sheep and PWD must completely avoid impacts to these species during individual project's construction and operational activities.	During individual Projects	PWD
Recommendation #9: Mitigation Measure BIO-3 - We recommend that the mitigation measure removes the in-lieu fee prices given that rates associated with the Western Joshua Tree Conservation Act may change prior to an invoice payment.	Prior to adoption of PEIR	Lead Agency
Recommendation #10: CESA - CDFW recommends that PWD seek appropriate take authorization under CESA prior to implementing the Project. Appropriate authorization from CDFW may include an ITP or a consistency determination in certain circumstances, among other options.	Prior to ground- disturbing activities	PWD
Recommendation #11: ESA - CDFW recommends consultation with the USFWS, in order to comply with ESA, prior to Project construction and operational activities that may adversely impact ESA-listed or candidate species.	Prior to ground- disturbing activities	PWD

RESPONSE TO COMMENT LETTER 6

California Department of Fish and Wildlife, Victoria Tang, Environmental Program Manager, South Coast Region

Response to Comment 6-1:

The commenter's role as a trustee and responsible agency under CEQA is acknowledged. As indicated in Table 2-7: Regulatory Requirements and Authorization and Approvals on pages 2-38 and 2-39 of the Draft EIR, the Palmdale Ditch Conversion Project would require a Streambed Alteration Agreement and Incidental Take Permits from CDFW; therefore, CDFW is anticipated to serve as a responsible and trustee agency under CEQA for the Project.

Response to Comment 6-2:

The comment's summary of the Project description, location, timeframe, alternatives, and biological setting evaluated in the Draft EIR as well as a summary of the Project history is noted. The comment's intent to offer comments and recommendations to assist PWD in adequately identifying and/or mitigating the Project's impact on biological resources is appreciated. Refer to Response 6-3 through Response 6-17 for responses to the specific comments, recommendations, and suggested measures provided by the comment.

Response to Comment 6-3:

The following response responds to the comment's concerns about the analysis of impacts to wildlife species from the Palmdale Ditch Conversion Project in the Draft EIR. The comment suggests the conversion of the Palmdale Ditch (Ditch) would permanently remove a water source for wildlife between Littlerock Reservoir and Lake Palmdale and construction activities would potentially result in permanent and temporary habitat loss, direct mortality of rare plants and wildlife, and increased noise and disturbance during construction. The comment recommends conducting a wildlife camera study to gather data on the use of the Ditch as a water source and movement corridor and suggests PWD reassess the Project's impact based on the study's findings.

As described in Section 3.3.1.5, *Wildlife Movement Corridors*, and Section 3.3.1.6, *Aquatic Resources*, in Section 3.3, *Biological Resources*, of the Draft EIR (pages 3.3-35 and 3.3-39), while the Ditch may function as a source of water for local and migrating wildlife during times that water deliveries occur, the timing and amount of such deliveries have been unpredictable in the last decade as a result of drought years and changing climatic patterns affecting precipitation and thus water levels in Littlerock Reservoir. In the absence of a reliable and predictable water supply in the Ditch over the years, wildlife likely rely on other readily available sources of water *Quality*, of the Draft EIR and Response 6-10, below, the current conveyance capacity of the Ditch is a fraction of flood volumes that would be expected during the 2-year design storm or 100-year design storm. As a result, most flood waters flow over the Ditch (including across existing overcrossings over the Ditch) during such storm events and do not collect within the Ditch.

Other water sources for wildlife near the southern extent of the Ditch (which likely experience lower levels of human activity) include Littlerock Wash, Littlerock Reservoir (at which the comment indicates they have anecdotal evidence of desert big horn sheep drinking water), and sag ponds south of the region's urban areas. The northern extent of the Ditch is in proximity to paved roadways, development, and likely higher levels of human activity (including temporary shelters constructed by those experiencing homelessness, off-highway vehicle use, and other recreation users), which, as the comment notes, would likely discourage wildlife from preferentially selecting such a water source.

While wildlife may move along certain sections of the Ditch, they are likely crossing the Ditch as they move across the landscape of the San Gabriel Mountain foothills. In some areas, the current nature of the Ditch is not conducive to facilitating wildlife movement, such as in the Angeles National Forest where the Ditch is characterized by a concrete trough that would be difficult for wildlife to use as a movement corridor (refer to Photograph 1 of Appendix E, Site Photographs, of Appendix C-1, *Palmdale Ditch Conversion Project Biological Resources Assessment*, of the Draft EIR).

The Draft EIR has been prepared in accordance with CEQA Guidelines Section 15151, which states "An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in the light of what is reasonably feasible." The analysis of potential impacts to wildlife movement from the Palmdale Ditch Conversion Project in the Draft EIR is sufficient to inform decision makers of potential environmental consequences in light of what is reasonably feasible. A year-long wildlife camera study would not be reasonably feasible given the need to construct the pipeline to achieve water conservation goals and the anticipated construction schedule dictated by State and federal funding requirements. In addition, a year-long wildlife camera study of the Ditch alone would not be sufficient to decisively conclude whether the Ditch is a critical water source for wildlife between Littlerock Reservoir to Lake Palmdale relative to other water sources that wildlife can and likely do access in this area, as noted above. To determine whether wildlife preferentially select the Ditch as a water source over others would require a much broader study of water sources in the area, which is not reasonably feasible. Such a study would not be expected to meaningfully change the conclusions of the Draft EIR considering that the mediumto large-sized mammals identified by the comment are highly mobile (some with large ranges) and likely not solely reliant on the Ditch nor restricted from accessing other water sources in the vicinity, such as those noted previously. Therefore, no revisions to the Draft EIR are warranted.

Response to Comment 6-4:

The comment's support for the Reduced Project Alternative and suggestion that PWD prepare a separate CEQA analysis for the Palmdale Ditch Conversion Project if this project is pursued is noted.

CEQA Guidelines Section 15168 provides the requirements for preparing and utilizing a EIR. CEQA Guidelines Section 15168(b) indicates "If the agency finds that pursuant to Section 15162, no subsequent EIR would be required, the agency can approve the activity as being within the scope of the project covered by the program EIR, and no new environmental document would be required. Whether a later activity is within the scope of a program EIR is a factual question that the lead agency determines based on substantial evidence in the record. Factors that an agency may consider in making that determination include, but are not limited to, consistency of the later activity with the ... geographic area analyzed for environmental impacts, and covered infrastructure, as described in the program EIR." CEQA Guidelines Section 15168(c)(5) also states "A program EIR will be most helpful in dealing with later activities if it provides a description of planned activities that would implement the program and deals with the effects of the program as specifically and comprehensively as possible. With a good and detailed project description and analysis of the program, many later activities could be found to be within the scope of the project described in the program EIR, and no further environmental documents would be required." Furthermore, CEQA Guidelines Section 15152(b) indicates "agencies are encouraged to tier the environmental analyses which they prepare for separate but related projects...This approach can eliminate repetitive discussions of the same issues and focus the later EIR or negative declaration on the actual issues ripe for decision at each level of environmental review." It also states "Tiering does not excuse the lead agency from adequately analyzing reasonably foreseeable significant environmental effects of the project and does not justify deferring such analysis to a later tier EIR or negative declaration. However, the level of detail contained in a first tier EIR need not be greater than that of the program, plan, policy, or ordinance being analyzed."

The level of detail at which Project components are analyzed in the Draft EIR corresponds to the level of detail currently available for each Project component. The Palmdale Ditch Conversion Project is currently undergoing 90 percent design; therefore, there is a high degree of information known about this Project component and its potential environmental impacts. As encouraged by CEQA Guidelines Section 15168(c)(4), the Draft EIR deals with the effects of the proposed Program as specifically and comprehensively as feasible at the current stage of planning for each Project component. In addition, to comply with CEQA Guidelines Section 15152(b), PWD has adequately analyzed the reasonably foreseeable significant environmental effects from the Palmdale Ditch Conversion Project instead of deferring such analysis to a later tier EIR or negative declaration. Pursuant to CEQA Guidelines Section 15168(c)(2, 4), PWD may determine later activities (e.g., the Palmdale Ditch Conversion Project) are within the scope of the geographic area and covered infrastructure analyzed in the EIR and that no further environmental documents are required. At this time, PWD anticipates a separate CEQA analysis for the Palmdale Ditch Conversion Project will not be required because a project-level analysis was already conducted in the Draft EIR.

Response to Comment 6-5:

The comment states the Draft EIR states an opinion that the biological resources impact analysis in the Draft EIR related to the Pure Water Antelope Valley Project and rehabilitation and/or replacement of existing wells is speculative because it is not based on site-specific biological surveys and recommends deferring significance findings for individual projects until further studies are completed in a subsequent or supplemental CEQA document. The comment suggests the Draft EIR disclose the future CEQA actions and public review availability for the Pure Water Antelope Valley Project and rehabilitation and/or replacement of existing wells. The comment requests CDFW be provided with the opportunity to review and comment on any addenda to the Draft EIR.

The Draft EIR has been prepared in accordance with CEQA Guidelines Section 15151, which states "An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in the light of what is reasonably feasible."

CEQA Guidelines Section 15168(c)(5) also states "A program EIR will be most helpful in dealing with later activities if it provides a description of planned activities that would implement the program and deals with the effects of the program as specifically and comprehensively as possible. With a good and detailed project description and analysis of the program, many later activities could be found to be within the scope of the project described in the program EIR, and no further environmental documents would be required." Furthermore, CEQA Guidelines Section 15152(b) indicates "agencies are encouraged to tier the environmental analyses which they prepare for separate but related projects...This approach can eliminate repetitive discussions of the same issues and focus the later EIR or negative declaration on the actual issues ripe for decision at each level of environmental review." It also states "Tiering does not excuse the lead agency from adequately analyzing reasonably foreseeable significant environmental effects of the project and does not justify deferring such analysis to a later tier EIR or negative declaration. However, the level of detail contained in a first tier EIR need not be greater than that of the program, plan, policy, or ordinance being analyzed."

In the case of the proposed Project, programmatic analysis of later activities such as the Pure Water Antelope Valley Project and the rehabilitation and replacement of existing wells is consistent with CEQA's encouragement for tiering of CEQA analysis associated with separate but related projects such as those covered by the proposed Project. The level of detail in the Draft EIR was sufficient for PWD to make a decision on the project "intelligently tak[ing] account of environmental consequences]. The analysis of the Draft EIR was based on substantial evidence available at the time and that the level of detail in the analysis corresponds to the level of detail available in project component design. To comply with CEQA Guidelines Section 15152(b), PWD has adequately analyzed the Pure Water Antelope Valley Project and the rehabilitation and replacement of existing wells' reasonably foreseeable significant environmental effects from the Project. Measures have been incorporated into the Draft EIR to mitigate the reasonably foreseeable impacts associated with these activities and will be incorporated into the future siting and design of the facilities to avoid or mitigate potential impacts with sufficient performance standards to reduce any potential impact. Additionally, subsequent environmental documents will be prepared if any new significant, or substantially more severe significant, impacts are identified as Project component design is refined.

Response to Comment 6-6:

The comment stating an opinion that the mitigation measures pertaining to biological resources within Table ES-2 of the Draft EIR should not have separate requirements for distinct Project components because the Draft EIR is a programmatic planning document and that all mitigation measures be applied to all Project components with the mitigation measures specific to the Palmdale Ditch Conversion Project being handled as a separate tiered CEQA document is noted.

As stated in response to Comment 6-4 and 6-5, the CEQA Guidelines recommend lead agencies streamline CEQA documentation where feasible and capitalize on program environmental documentation to tier project-level environmental analysis when it is prepared in accordance with an overall program (CEQA Guidelines section 15152(b)). As encouraged by CEQA Guidelines Section 15168(c)(4), the Draft EIR deals with the effects of the proposed Program as specifically and comprehensively as feasible at the current stage of planning for each Project component. In addition, to comply with CEQA Guidelines Section 15152(b), PWD has adequately analyzed the reasonably foreseeable significant environmental effects from the Palmdale Ditch Conversion Project instead of deferring such analysis to a later tier EIR or negative declaration. Pursuant to CEQA Guidelines Section 15168(c)(2, 4), PWD may determine later activities (e.g., the Palmdale Ditch Conversion Project) are within the scope of the geographic area and covered infrastructure analyzed in the EIR and that no further environmental documents are required. At this time, PWD anticipates a separate CEQA analysis for the Palmdale Ditch Conversion Project will not be required because a project-level analysis was already conducted in the Draft EIR consistent with the CEQA Guidelines recommendation for streamlined environmental analysis. The Draft EIR sufficiently analyzes and mitigates impacts associated specifically with the Palmdale Ditch Conversion Project as well as the other components associated with the Project. Project components were analyzed for potential environmental effects and mitigated as necessary to reduce all possible significant effects to the extent feasible. Mitigation was specifically crafted to mitigate these particular potential effects and evaluated based on the Project component that could potentially cause the effect. Universally applying mitigation to all components would unnecessarily burden PWD to comply with mitigation measures that do not apply to certain components of the project because there is no potential for significant effect. No changes to the Draft EIR Executive Summary Table ES-2 or mitigation measures are warranted and the analysis and mitigation is sufficient to fully disclose and mitigate potential significant effects.

Response to Comment 6-7:

The comment indicates full avoidance of species will likely be challenging or unlikely due to the Project's scope. The comment states they do not concur with a 1:1 compensatory mitigation ratio will meet the California Endangered Species Act's (CESA) Fully Mitigated Standard. The comment notes that Incidental Take Permits as well as Streambed Alteration Agreement may require higher than a 1:1 ratio for state listed species and riparian habitat, respectively. The comment requests prompt notification if special-status species are found on site to discuss appropriate mitigation. The comment recommends amending Mitigation Measures BIO-2 through BIO-6, BIO-8 through BIO-11, BIO-19, and BIO-20 to allow for higher compensatory

mitigation ratios following coordination with CDFW. The comment offers to review and provide feedback on mitigation language prior to publication of the Final EIR.

Mitigation Measures BIO-2 through BIO-6, BIO-8 through BIO-11, BIO-19, and BIO-20 as presented in the Draft EIR are sufficient to reduce potential impacts to less-than-significant levels under CEQA and to maintain compliance with relevant laws and regulations. Nevertheless, the text of Mitigation Measures BIO-2, BIO-4, BIO-5, BIO-6, BIO-9, BIO-19, and BIO-20 in Section 3.3.3.2, *Mitigation Measures*, of the EIR has been revised to clarify the requirements in response to the comment's recommendations, as shown below. In all relevant instances, mitigation ratio discussions identify a minimum ratio, and coordination with CDFW is included for applicable resources under CDFW's jurisdiction. However, revisions were not incorporated into Mitigation Measures BIO-3, BIO-8, BIO-10 and BIO-11 in response to the comment's recommendations for the following reasons:

- Mitigation Measure BIO-3 includes mitigation for potential impacts to western Joshue tree through the Western Joshua Tree Conservation Act mitigation fee payment and/or relocation and includes consultation with CDFW; as a result, a compensatory mitigation ratio is not appropriate for this mitigation measure.
- Mitigation Measure BIO-8 includes avoidance of nesting Swainson's hawks in compliance with CESA as well as the Migratory Bird Treaty Act and California Fish and Game Code Sections 3503 and 3503.5; as a result, a compensatory mitigation ratio is not appropriate for this mitigation measure.
- Mitigation Measure BIO-10 requires consultation with CDFW for design and location of artificial bat roosts for special-status bats, if deemed necessary, which shall be of comparable size and quality to confirmed or formerly occupied bat roosting habitat destroyed during Project component construction. A compensatory mitigation ratio for the number of artificial bat roosts is not appropriate for this measure because the performance standard is the accommodation of a comparable number of bats.
- Mitigation Measure BIO-11 requires passive relocation of woodrats through "daylighting" of any occupied woodrat middens that may be impacted in Project work areas. A compensatory mitigation ratio is not appropriate for this measure considering that woodrats would move out of harm's way and rebuild middens as necessary in the surrounding areas.

Mitigation Measure BIO-2: Special-Status Plant Surveys, Avoidance Measures, Mitigation and Monitoring Plan

- [...]
- Criteria and performance standards by which to measure the success of the mitigation, including replacement of impacted plants at a minimum 1:1 ratio, to be determined in consultation with CDFW if a Lake or Streambed Alteration Agreement pursuant to California Fish and Game Commission (CFGC) Section 1602 or Incidental Take Permit pursuant to CFGC Section 2081 is otherwise required for the Project component;

Mitigation Measure BIO-4: Arroyo Toad, Desert Tortoise, Tricolored Blackbird, and Least Bell's Vireo Avoidance, Minimization and Compensation Measures

[...]

If the proposed Project results in permanent impacts to habitat occupied by specialstatus wildlife species, United States Fish and Wildlife Service (USFWS) and CDFW shall be consulted to ensure compliance with the Endangered Species Act and/or requirements for avoidance, minimization, or mitigation measures (e.g., replacement of impacted occupied habitat at a minimum 1:1 ratio<u>, to be determined in consultation with</u> <u>USFWS and/or CDFW, as applicable</u>).

Mitigation Measure BIO-5: Crotch's Bumble Bee Avoidance, Minimization, and Compensation Measures

[...]

 If Crotch's bumble bee is determined to be present on the Project component site, floral resources associated with the species that will be removed or damaged by Project component activities in the areas of the Project component site where Crotch's bumble bee is detected and documented shall be replaced at a <u>minimum</u> 1:1 ratio, to be determined in consultation with CDFW as part of the Incidental Take Permit process pursuant to CFGC Section 2081 for the Project component. Planning and implementation of suitable habitat replacement may be integrated into the Habitat Revegetation, Restoration, and Monitoring Program described under Mitigation Measure BIO-19.

Mitigation Measure BIO-6: Burrowing Owl Breeding Season Survey and Foraging Habitat Mitigation

[...]

• Permanent foraging habitat loss shall be mitigated at a <u>minimum</u> 1:1 ratio<u>, to be</u> <u>determined in consultation with CDFW as part of the Incidental Take Permit</u> <u>process pursuant to CFGC Section 2081 for the Project component.</u>

Mitigation Measure BIO-9: Mohave Ground Squirrel Avoidance and Minimization Measures

[...]

 If burrows are identified during the survey that are suspected or known to be occupied by Mohave ground squirrel and cannot be avoided, the qualified biologist shall prepare a Mohave Ground Squirrel Relocation Plan outlining measures to relocate individual Mohave ground squirrels prior to construction start. The plan shall be submitted to PWD and CDFW for review and approval and shall be implemented prior to commencement of Project component activities in work areas with suspected or known Mohave ground squirrel burrows. The Plan shall outline measures for burrow excavation, handling of individuals, identification of proposed relocation areas, and release of relocated individuals after the conclusion of all grading, clearing, and construction activities. <u>The Plan shall also detail restoration of and/or compensatory</u> <u>mitigation, at a minimum 1:1 ratio, of occupied Mohave ground squirrel habitat</u> <u>that is temporarily or permanently impacted by the Project activities if required</u> <u>by CDFW as part of the Incidental Take Permit process pursuant to CFGC Section</u> <u>2081 for the Project component.</u> A report documenting relocation activities and outcomes shall be prepared by the qualified biologist and submitted to PWD and CDFW for review and approval after completion of relocation activities.
 Mitigation Measure BIO-19: Sensitive Natural Communities and Jurisdictional

Features Avoidance, Minimization Measures

[...]

 If impacts to sensitive natural communities cannot be avoided, PWD shall identify compensatory mitigation prior to disturbance of the features. Mitigation may take the form of permittee-responsible, on-site or off-site mitigation or the purchase of credits from an approved mitigation bank or through applicantsponsored mitigation (e.g., purchase and/or dedication of land for mitigation). If required, compensatory mitigation for unavoidable impacts to sensitive vegetation communities shall be accomplished at a minimum ratio of 1:1; however, the final ratio shall be determined and approved by CDFW<u>if a Lake or Streambed Alteration Agreement pursuant to CFGC Section 1602 or Incidental Take Permit pursuant to CFGC Section 2081 is required for the Project component.
</u>

Mitigation Measure BIO-20: Aquatic Resources Delineation and Compensatory Mitigation

[...]

If impacts to jurisdictional waters and wetlands cannot be avoided, PWD shall identify compensatory mitigation prior to disturbance of the features. Compensatory mitigation for impacts to the jurisdictional extents of the Palmdale Ditch shall be provided at a minimum 0.5:1 ratio, <u>unless a higher ratio</u> is required by Lahontan Regional Water Quality Control Board (RWQCB), CDFW, and/or United States Army Corps of Engineers (USACE), given the Ditch's altered hydrology as a manmade structure constructed entirely in uplands that is artificially lined in a number of areas (concrete, synthetic liner, elevated flume) and its controlled flow that fluctuates in quantity and timing from year to year depending on annual climatic conditions and available water supply in Littlerock Reservoir. Compensatory mitigation for impacts to other jurisdictional waters and wetlands shall be provided at a minimum 1:1 ratio, unless a higher ratio is required by Lahontan RWQCB, CDFW, and/or USACE.

Response to Comment 6-8:

The comment recommends mitigation measures for arroyo toad, desert tortoise, tricolored blackbird, and least Bell's vireo be separate and distinct measures by species with species-specific language, avoidance measures, compensatory mitigation, and permitting obligations rather than consolidated into one measure.

Mitigation Measure BIO-4 as presented in the Draft EIR is sufficient to reduce potential impacts to arroyo toad, desert tortoise, tricolored blackbird, and least Bell's vireo to less-than-significant levels under CEQA. This mitigation measure includes species-specific language (including references to the appropriate, species-specific survey protocols), avoidance measures, mitigation, and permitting obligations (including a requirement to consult with USFWS and CDFW). The mitigation measure language allows for flexibility in implementing species-specific avoidance and mitigation measures, depending on which species are identified as present within each Project component site) if avoidance of special-status wildlife species is not feasible. Parsing them into separate measures would not change the effectiveness of the measure. Additionally, the Project will comply with all applicable laws and regulations including the permitting obligations set forth through consultation. Compliance with existing laws and regulations is a part of the Project baseline analyzed and does not require additional mitigation.

Response to Comment 6-9:

The comment recommends modifications to Mitigation Measure BIO-17.

Mitigation Measure BIO-17 as presented in the Draft EIR is sufficient to reduce potential impacts to nesting birds to less-than-significant levels under CEQA and maintains compliance with existing regulatory requirements of the Migratory Bird Treaty Act and California Fish and Game Code. Nevertheless, to clarify this measure, some of the comment's recommended revisions have been incorporated into the text of this Mitigation Measure BIO-17 in Section 3.3.3.2, Mitigation Measures, of the Draft EIR, as shown below. However, the comment's request to remove the distinction between the Palmdale Ditch Conversion project and other Project components was not incorporated because it would have rendered the Mitigation Measure BIO-17 inapplicable to the Palmdale Ditch Conversion project, which is not subject to Mitigation Measure BIO-1. The comment's request to remove certain phrases (e.g., "to the extent practicable," "in each work area," "if Project component activities must occur within the buffer, they shall only be conducted at the discretion of the qualified biologist") were not incorporated because this language provides necessary flexibility for: (a) construction to occur during the nesting bird season, if needed; (b) work areas to be treated separately for the purposes of mitigation measure implementation if they are spatially or temporally distinct and separate from one another; and (c) the qualified biologist to exercise professional judgment in the field regarding appropriate buffers for nesting birds based on species sensitivity, work activity, and ambient conditions.

Mitigation Measure BIO-17: Nesting Bird Surveys and Avoidance and Minimization Measures

This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which suitable habitat for nesting birds is identified during the habitat assessment conducted pursuant to Mitigation Measure BIO-1. Project component construction activities shall occur outside of the bird breeding season (February 1 to August 31) to the extent practicable. If construction must commence within the bird breeding season, PWD shall retain a qualified biologist to conduct a preconstruction nesting bird survey within the disturbance footprint plus a <u>minimum buffer</u> of 100 feet to a maximum buffer of 500 feet depending on species, work activity, and <u>existing ambient conditions</u> 100-foot buffer (300 feet for raptors), where feasible, no more than seven days prior to initiation of ground disturbance (including, but not limited to, site preparation, staging and mobilization, vegetation clearance/mowing/trimming, grading, and excavation) in each work area. If the Project component is phased or construction activities stop for more than one week, a subsequent pre-construction nesting bird survey shall be conducted prior to each phase of construction, if initiated during the bird breeding season.

Pre-construction nesting bird surveys shall be conducted during the time of day when birds are active and shall factor in sufficient time to perform this survey adequately and completely. A brief report of the nesting bird survey results, if applicable, shall be submitted to PWD for review and approval prior to ground disturbance and/or vegetation removal activities.

If no nesting birds are observed during pre-construction surveys, no further action is required. If nests are found, an appropriate avoidance buffer <u>of up to 300 feet</u> ranging in size from 25 to 50 feet for passerine (perching birds) nests and up to <u>500</u> 300 feet for active, non-listed raptor nests (depending on the species and the proposed work activity) shall be determined by the qualified biologist and demarcated with bright orange construction fencing or other suitable flagging. Active nests shall be monitored at a minimum of once per week until a qualified biologist has determined the birds have fledged and are no longer reliant upon the nest or parental care for survival. No construction activity shall occur within this buffer until the qualified biologist confirms the breeding/nesting is completed and all the young have fledged. If Project component activities must occur within the buffer, they shall only be conducted at the discretion of the qualified biologist.

Response to Comment 6-10:

The comment states an opinion that the Draft EIR does not discuss hydrology or provide any technical study to demonstrate the hydrology pattern of surrounding drainage systems upon completion of the Palmdale Ditch Conversion Project. The comment recommends PWD provide a hydrological study and basis of design report that evaluates water and sediment flow through the Ditch during various storm events and the impacts of enclosing the Ditch on local drainages and outlines the expected post-project hydrology.

Impacts to hydrology are discussed in Section 3.8, *Hydrology, Groundwater, and Water Quality,* of the Draft EIR. Impacts specifically to drainage pattern alteration as it pertains to erosion,

siltation, surface runoff, and flooding are evaluated under Impact HYD-3a through Impact HYD-3d on pages 3.8-21 to 3.8-31. As indicated throughout the discussion (e.g., pages 3.8-24 to 3.8-25, 3.8-27, and 3.8-28), "the Palmdale Ditch Conversion project would increase the amount of pervious surfaces within the Project area compared to existing conditions. Along segments of the Ditch where the pipeline is placed in the existing Ditch alignment, the Ditch would be backfilled, and minor site grading would be conducted to tie in drainage patterns above the pipeline to existing natural contours adjacent to the alignment. The remaining Ditch segments may either be left in place and continue to function as part of the drainage pattern of the immediate vicinity or be backfilled with the natural overland drainage courses restored to their natural state. The existing Ditch has a conveyance capacity of approximately 20 cubic-feet-persecond, which is approximately 23 percent of the two-year design storm and approximately 0.2 percent of the 100-year design storm for the approximately eight-square-mile area that drains towards the Ditch. Conversion of the Ditch to an underground pipeline is expected to increase surface flows of stormwater to downstream tributaries (which currently receive runoff during storm events) by approximately 1.6 percent, which would be minimal and would not substantially increase flooding on- or off-site (Hazen & Sawyer 2024)." The analysis concludes construction and operation of the Palmdale Ditch Conversion project would not 1) substantially alter the existing drainage pattern in a manner which would result in substantial erosion or siltation on- or off-site; 2) substantially alter the existing drainage pattern in a manner which would substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site; 3) substantially alter the existing drainage pattern in a manner which would create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or 4) substantially alter the existing drainage pattern in a manner which impedes or redirects flood flows. Impacts related to drainage pattern alteration resulting from the Palmdale Ditch Conversion project were determined by the Draft EIR to be less than significant under Impacts HYD-3a through 3d. Therefore, no additional analysis of the hydrological impacts of the Palmdale Ditch Conversion project in the Draft EIR is warranted.

Response to Comment 6-11:

The comment states the requirements for Fully Protected Species and indicates CDFW cannot authorize take for golden eagle (*Aquila chrysaetos*) or desert bighorn sheep (*Ovis canadensis nelsoni*). The comment states PWD must completely avoid impacts to these species during construction and operational activities for Project components.

This comment is noted. As described in *Impact BIO-1 Analysis*, in Section 3.3.3.4, *Impacts and Mitigation Measures*, of the Draft EIR (page 3.3-56), although there is moderate or high potential for golden eagle to forage within the Project area, it is not expected to nest in the Project area due to the lack of suitable nesting habitat. Therefore, take of golden eagle is not expected. Potential Project impacts to desert bighorn sheep are not addressed in the Draft EIR because there are no documented records of the species in the California Natural Diversity Database

(CNDDB) within the standard nine-quadrangle search area used for the Project (as described in Section 3.3.1.1, *Methodology for Establishing Environmental Setting*, of the Draft EIR). Regardless, take of desert bighorn sheep is not expected given the ability of this highly mobile species to move out of harm's way. PWD would be required by law to comply with the requirements for Fully Protected Species during implementation of the proposed Project.

Response to Comment 6-12:

The comment recommends removing the in-lieu fee prices from Mitigation Measure BIO-3 given that rates associated with the Western Joshua Tree Conservation Act may change prior to an invoice payment.

Mitigation Measure BIO-3 as presented in the Draft EIR is sufficient to reduce potential impacts to western Joshua to less-than-significant levels under CEQA and to maintain compliance with the Western Joshua Tree Conservation Act and/or CESA. Nevertheless, to clarify this measure, the comment's recommended revisions have been incorporated into the text of this mitigation measure in Section 3.3.3.2, *Mitigation Measures*, of the EIR, as shown below.

Mitigation Measure BIO-3: Joshua Tree Census Survey, Avoidance, Minimization, and Compensation Measures

[...]

- PWD shall submit payment of an in-lieu fee to CDFW pursuant to CDFW's standard mitigation fee structure for western Joshua tree in effect at the time of application for an Incidental Take Permit. The current (2024) standard mitigation fee structure is as follows:
 - Trees five meters or greater in height \$2,500 per tree
 - ☐ Trees one meter or greater but less than 5 meters in height \$500 per tree
 - Trees less than one meter in height \$340 per tree

Response to Comment 6-13:

The comment recommends PWD consult with CDFW to obtain appropriate take authorization if the Project would result in the take of a species designated as endangered or threatened, or a candidate for listing under CESA; summarizes key requirements for an Incidental Take Permit; and recommends early consultation with CDFW.

This comment is noted. PWD is consulting with CDFW to obtain appropriate take authorizations for the Palmdale Ditch Conversion Project for potential take of western Joshua tree (*Yucca brevifolia*; protected under the Western Joshua Tree Conservation Act and a candidate threatened species under CESA) and Crotch's bumble bee (*Bombus crotchii*; candidate endangered species under CESA). PWD would consult with CDFW and apply for take authorizations for other Project components analyzed in the Draft EIR, if determined necessary.

Response to Comment 6-14:

The comment recommends engaging in consultation with the USFWS to comply with the federal Endangered Species Act (ESA) prior to Project construction and operational activities that may adversely impact ESA-listed or candidate species.

The comment is noted. The United States Bureau of Reclamation (the lead federal action agency for the Palmdale Ditch Conversion Project) is proceeding to fulfill their obligations to comply with the federal ESA. If other Project components analyzed in the Draft EIR have a federal nexus or would potentially result in adverse effects to federally listed species, PWD would fulfill necessary obligations under the federal ESA for those Project components in coordination with the lead federal action agency(ies) and/or the USFWS.

Response to Comment 6-15:

The comment recommends updating the mitigation measures for biological resources in the Draft EIR to include their suggested measures and indicates they have provided a summary of their suggested mitigation measures and recommendations in a Mitigation Monitoring and Reporting Plan included as an attachment to their letter.

This comment is noted. Please refer to Responses 6-3 through -14 for discussions on the comment's suggested mitigation measures and other recommendations. A Mitigation Monitoring and Reporting Plan has been prepared for the Project and is included as **Appendix A** to the Final EIR.

Response to Comment 6-16:

The comment states the requirements for reporting observations of special status species and sensitive natural communities and requests submittal of observation data to the CNDDB should any special status species be detected and provides guidance for submittal.

In accordance with the requirements of Public Resources Code Section 21003(e), all observations of special status species would be recorded on CNDDB field sheets and sent to CDFW. PWD also intends to submit information on special status native plant populations and sensitive natural communities via CDFW's Combined Rapid Assessment and Relevé Form. All Crotch's bumble bee observations for the Palmdale Ditch Conversion Project were submitted to the CNDDB on September 3, 2024 as required in the *CDFW Survey Considerations for California Endangered Species Act (CESA) Candidate Bumble Bee Species* (2023) (Rincon Consultants, Inc. 2024). All short-joint beavertail (*Opuntia basilaris* var. *brachyclada*) observations for the Palmdale Ditch Conversion Project were also submitted to the CNDDB on November 13, 2024.

Response to Comment 6-17:

The comment stating CDFW's filing fee requirements are required is noted. PWD would be required by law to pay all appropriate CDFW filing fees upon filing the Notice of Determination.

Response to Comment 6-18:

The comment requests the opportunity to review and comment on responses to their comments, requests notification of future public hearings on the project, and provides their contact information.

This comment is noted. PWD will provide CDFW with a copy of these responses to comments prior to consideration of the Final EIR by the PWD Board of Directors and will notify CDFW of future public hearings associated with the Project.

Comment Letter 7





State Water Resources Control Board

November 12, 2024

Scott Rogers Palmdale Water District 2029 E Avenue Q Palmdale, CA 93550

PALMDALE WATER DISTRICT (WATER SYSTEM), ENVIRONMENTAL IMPACT REPORT (EIR) FOR THE 2023 STRATEGIC WATER RESOURCES PLAN DRAFT PROGRAM ENVIRONMENTAL IMPACT REPORT PROJECT (PROJECT); STATE CLEARINGHOUSE # 2023080290

Dear Scott Rogers:

Thank you for the opportunity to review the EIR for the proposed Project. The State Water Resources Control Board, Division of Drinking Water (State Water Board, DDW) is responsible for issuing water supply permits pursuant to the Safe Drinking Water Act. This Project is within the jurisdiction of the State Water Board, DDW's Hollywood District. DDW Hollywood District issues domestic water supply permit amendments to public water systems pursuant to Waterworks Standards (Title 22 California Code of Regulations [Cal Code Regs.] chapter 16 et. seq.). A public water system requires a water supply permit amendment when changes are made to a domestic water supply source, storage, or treatment and for the operation of new water system componentsas specified in the Cal. Code Regs. § 64556.

7-1

7-2

7-3

The State Water Board, DDW, as a responsible agency under the California Environmental Quality Act (CEQA), has the following comments on the Water System's EIR:

- The Water System may need to apply for a domestic water supply permit amendment from the State Water Resources Control Board, Division of Drinking Water for new sources of supply. Please add the agency and the permit to section 2.5.9 Anticipated Permits and Approvals, Table 2-7, Regulatory Requirements and Authorizations and Approvals (PDF page 110).
- The Water System may replace five wells in the near term (PDF page 105) but provides conflicting accounts of where these wells will be located (PDF pages 79, 85,105, 382, et cetera). In the Project Description and figures, please describe all the proposed and possible areas where the rehabilitated and replacement wells could be located.

E. JOAQUIN ESQUIVEL, CHAIR | ERIC OPPENHEIMER, EXECUTIVE DIRECTOR

1001 I Street, Sacramento, CA 95814 | Mailing Address: P.O. Box 100, Sacramento, CA 95812-0100 | www.waterboards.ca.gov

7-4

Scott Rogers

- 2 -

November 12, 2024

When the CEQA review process is completed, please forward the following items with the permit application to the State Water Board, DDW Hollywood District Office at DWPDIST07@waterboards.ca.gov:

- Copy of the EIR and Mitigation Monitoring and Reporting Plan (MMRP);
- Copy of all comment letters received and the lead agency responses as appropriate;
- Copy of the Resolution or Board Minutes certifying the EIR and adopting the MMRP; and
- Copy of the date stamped Notice of Determination filed at the Los Angeles County Clerk's Office and the Governor's Office of Planning and Research, State Clearinghouse.

Please contact Lori Schmitz of the State Water Board at (916) 449-5285 or Lori.Schmitz@waterboards.ca.gov, for questions regarding this comment letter.

Sincerely,

Digitally signed by Lori Lori Schmitz Date: 2024.11.12 Schmitz P15:04:41 -08'00'

Lori Schmitz Environmental Scientist Division of Financial Assistance Special Project Review Unit 1001 I Street, 16th floor Sacramento, CA 95814

Cc:

Office of Planning and Research, State Clearinghouse

Dmitriy Ginzburg District Engineer Hollywood District

Milagros Alora Sanitary Engineer Hollywood District

RESPONSE TO COMMENT LETTER 7

State Water Resources Control Board, Lori Schmitz, Environmental Scientist

Response to Comment 7-1:

PWD acknowledges the State Water Resources Control Board (SWRCB), Division of Drinking Water (DDW) is responsible for issuing water supply permits pursuant to the Safe Drinking Water Act as illustrated in Table 2-7 of the Draft EIR. PWD recognizes the proposed Project is within DDW's jurisdiction in Hollywood and would require a water supply permit amendment if changes to a domestic water supply source, storage, or treatment are required or if there is operation of new water system components.

Response to Comment 7-2:

The comment notes that the water system may need to apply for a domestic water supply permit amendment from the SWRCB, DDW for new sources of supply. The comment requests adding the water supply permit amendment to Table 2-7: Regulatory Requirements and Authorizations and Approvals.

The SWRCB requirements in Table 2-7: Regulatory Requirements and Authorizations and Approvals were updated to reflect this required easement as follows:

Agency	Type of Approval	Water Supply Element
State Water Resources Control	Approval of the Stormwater	Local Supplies –
Board	Pollution Prevention Plan	Palmdale Ditch
	(SWPPP) under the statewide	Conversion
	National Pollution Discharge	
	Elimination System (NPDES)	
	Construction General Permit	
State Water Resources Control	Water Supply Permit	<u>Recycled Water – Pure</u>
Board	<u>Amendment</u>	Water Antelope Valley

Response to Comment 7-3:

As described on page 2-15 within the Draft EIR Project Description Section 2.5.3.1 Existing Wells Rehabilitation or Replacement well rehabilitation and replacement within the proposed Project and considered in the SWRP is based on the conclusion and recommendations of the 2020 Well Rehabilitation Prioritization Program. As stated within this Draft EIR section the north wellfield (also known as pressure zone 2800) was recommended as an area known for high groundwater production rates, however, the placement of the replacement wells would be determined as the well is sited and designed at optimal locations within PWD district boundaries. As described, wells will be rehabilitated as identified and prioritized in the 2020 Well Rehabilitation Prioritization Program at or adjacent to the existing well sites. CEQA Guidelines Section 15168 provides the requirements for preparing and utilizing a EIR. CEQA Guidelines Section 15168(b) indicates "If the agency finds that pursuant to Section 15162, no subsequent EIR would be required, the agency can approve the activity as being within the scope of the project covered by the program EIR, and no new environmental document would be required. Whether a later activity is within the scope of a program EIR is a factual question that the lead agency determines based on substantial evidence in the record. Factors that an agency may consider in making that determination include, but are not limited to, consistency of the later activity with the ... geographic area analyzed for environmental impacts, and covered infrastructure, as described in the program EIR." CEQA Guidelines Section 15168(c)(5) also states "A program EIR will be most helpful in dealing with later activities if it provides a description of planned activities that would implement the program and deals with the effects of the program as specifically and comprehensively as possible. With a good and detailed project description and analysis of the program, many later activities could be found to be within the scope of the project described in the program EIR, and no further environmental documents would be required." Furthermore, CEQA Guidelines Section 15152(b) indicates "agencies are encouraged to tier the environmental analyses which they prepare for separate but related projects...This approach can eliminate repetitive discussions of the same issues and focus the later EIR or negative declaration on the actual issues ripe for decision at each level of environmental review." It also states "Tiering does not excuse the lead agency from adequately analyzing reasonably foreseeable significant environmental effects of the project and does not justify deferring such analysis to a later tier EIR or negative declaration. However, the level of detail contained in a first tier EIR need not be greater than that of the program, plan, policy, or ordinance being analyzed."

Due to the need for flexibility in location of rehabilitation and replacement wells the associated impacts were assessed programmatically within the Draft EIR and beyond illustrating existing well locations of the figures should be assumed to occur within the boundaries of PWD service area. As PWD advances the well replacement projects, they will be further evaluated once locations are selected to determine if there are any site-specific impacts that vary or are greater than those evaluated programmatically within the Draft EIR. If additional impacts are identified at that time, further environmental review will be conducted specific to the exact location of the replacement well. The following sentence has been added for clarification to the second paragraph on page 2-15 of Chapter 2 Project Description:

...The 2020 Well Rehabilitation Prioritization Program noted that a well site assessment and preliminary design had been completed on two potential new replacement production wells, designated Well 36 and 37, which would be situated in the north wellfield (pressure zone 2800). However, siting of wells will take into account a number of factors including groundwater production rates, district owned facilities, potential environmental effects, cost, and other engineering factors and may occur anywhere within the PWD boundaries. No CEQA documentation was prepared for the 2020 Well Rehabilitation Prioritization Program.

Response to Comment 7-4:

PWD appreciates the information provided regarding necessary information required to accompany the permit application. PWD will plan to submit the permit application to SWRCB, DDW Hollywood District Office along with a copy of the EIR and MMRP, copy of all comment letters received and responses, copy of the resolution of Board minutes certifying the EIR and adopting the MMRP, and copy of the date stamped Notice of Determination filed at the Los Angeles County Clerk's Office and the Governor's Office of Planning Research, State Clearinghouse once the CEQA review process is complete.

STATE OF CALIFORNIA-CALIFORNIA STATE TRANSPORTATION AGENCY

GAVIN NEWSOM, Governor

DEPARTMENT OF TRANSPORTATION DISTRICT 7 100 S. MAIN STREET, MS 16 LOS ANGELES, CA 90012 PHONE (213) 897-0673 FAX (213) 897-1337 TTY 711 www.dot.ca.gov

Comment Letter 8



November 8, 2024

Scott Rogers, Engineering Manager Palmdale Water District 2029 E Avenue Q Palmdale, CA 93550

> RE: 2023 Strategic Water Resources Plan Draft Program Environmental Impact Report– Draft Environmental Impact Report (DEIR) SCH #2023080290 GTS #07-LA-2023-04639 Vic. LA Multiple

Dear Scott Rogers,

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The Palmdale Water District (PWD) has updated its Strategic Water Resources Plan (SWRP) to reevaluate PWD's ability to meet the demands of both current and future customers through the year 2050. The SWRP Update, completed in June 2023, analyzes PWD's current mix of water sources, which includes groundwater, surface water, imported water, and recycled water, to find the best way to meet the needs of a growing population under changing future conditions. A Preferred Strategy was identified that optimizes PWD's mix of water sources up to the year 2050. The Preferred Strategy, referred to as the 'proposed Project', includes proposed actions that make the most of local water supplies and facilities and increase water storage in the Antelope Valley Groundwater Basin.

After reviewing the DEIR, Caltrans has the following comments:

Caltrans concurs with Mitigation Measure TRA-1: Traffic Control Plan from the Initial Study. Prior to construction, PWD shall require its construction contractor(s) to prepare and implement a Traffic Control Plan, to be approved by the City of Palmdale and/or the County of Los Angeles, based on jurisdiction. The plan shall include traffic counts at intersections near the proposed Project facilities to determine existing traffic conditions. Based on these traffic counts, the plan shall recommend mitigation to minimize impacts

"Provide a safe and reliable transportation network that serves all people and respects the environment"

8-1

8-2

Scott Rogers November 8, 2024 Page 2

to existing traffic conditions. The plan shall also include provisions for traffic control measures including barricades, warning signs, cones, lights, and flag persons, to allow safe circulation of vehicle, bicycle, pedestrian, and emergency response traffic.

Any transportation of heavy construction equipment and/or materials that requires the use of oversized transport vehicles on State Highways will require a Caltrans transportation permit. Caltrans recommends limiting construction traffic to off-peak periods to minimize the potential impact on State facilities. If construction traffic is expected to cause issues on any State facilities, please submit a construction traffic control plan detailing these issues for Caltrans' review. We look forward to the coordination of our efforts to ensure potential impacts to the highway facilities and traveling public are discussed and addressed before work begins.

If you have any questions, please contact project coordinator Frances Duong, at frances.duong@dot.ca.gov and refer to GTS #07-LA-2023-04639.

Sincerely,

Anthony Higgins

Anthony Higgins Acting LDR/CEQA Branch Chief

Cc: State Clearinghouse

"Provide a safe and reliable transportation network that serves all people and respects the environment"

RESPONSE TO COMMENT LETTER 8

Department of Transportation, Anthony Higgins, Acting LDR/CEQA Branch Chief

Response to Comment 8-1:

PWD would like to thank the comment for their time and consideration in submitting a comment letter for the proposed Project.

Response to Comment 8-2:

PWD acknowledges the comment's support with Mitigation Measure TRA-1: Traffic Control Plan.

Response to Comment 8-3:

The text of Table 2-7 was revised to include a Caltrans transportation permit based on the comment that any transportation of heavy construction equipment and/or materials that requires the use of oversized transport vehicles on State Highways will require a Caltrans transportation permit.

On page 2-38 of the Draft EIR the following was added to Table 2-7: Regulatory Requirements and Authorizations and Approvals was updated to reflect this required permit.

Agency	Type of Approval	Water Supply Element
California Department of	Transportation Permit and	All
<u>Transportation</u>	construction control plan	

Response to Comment 8-4:

PWD acknowledges the comment and will submit a construction control plan to Caltrans if applicable. The revision of Draft EIR Table 2-7 in the previous response addresses this comment.

Comment Letter 9

From: Reyes, Joy greyes@cityoflancasterca.gov> Sent: Tuesday, November 12, 2024 8:40 AM To: Scott Rogers <srogers@paimdalewater.org> Cc: Diaz, Marissa <mdiaz@cityoflancasterca.gov> Subject: FW: Public Review of Draft Environmental Impact Report for the 2023 Strategic Water Resources Plan Update — Paimdale Water District

Good morning Mr. Rogers

On behalf of the City of Lancaster Public Works Director Marissa Diaz, please be advised the City has no 9-1 comment on this Draft EIR.

Thank you,

Joy Reyes Sr. Administrative Assistant – PW Administration

City of Lancaster 44933 Fem Ave. | Lancaster, CA 93534 T 661.723.6107

jreyes@cityofiancasterca.gov | cityofiancasterca.gov

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1

RESPONSE TO COMMENT LETTER 9

City of Lancaster, Joy Reyes, Senior Administrative Assistant

Response to Comment 9-1:

This comment is noted. PWD would like to thank the comment for their time and consideration.

Comment Letter 10

TRIBAL HISTORIC PRESERVATION OFFICE

VIA ELECTRONIC MAIL

srogers@palmdalewater.org

Scott Rogers, Engineering Manager Palmdale Water District 2029 E Avenue Q, Palmdale, CA 93550



10-1

10-2

10-3

MORONGO

BAND OF

November 11, 2024

RE: AB-52 Consultation for Palmdale Water District 2023 Strategic Water Resources Plan (SWRP) Draft EIR

The Morongo Band of Mission Indians (Tribe/MBMI) Tribal Historic Preservation Office received the City of – Palmdale (City) letter regarding the above referenced project on September 30, 2024. The proposed Strategic Water Resource Plan (SWRP) (Project) is located within the ancestral territory and traditional use area of the Cahuilla and Serrano people of the Morongo Band of Mission Indians.

Tribal cultural resources are non-renewable resources and therefore of high importance to the Morongo Tribe, therefore, tribal participation (a.k.a. tribal monitors) is recommended during all ground disturbing activities. We look forward to working with the City to protect these irreplaceable resources out of respect for ancestors of the Morongo people who left them there, and for the people of today and for generations to come.

Projects within this area are sensitive for cultural resources regardless of the presence or absence of remaining surface artifacts and features. Tribal cultural resources are non-renewable resources and therefore of high importance to the Morongo Tribe and tribal participation (a.k.a. Tribal Monitors) is requested by MBMI THPO during all ground disturbing activities.

After reviewing the DEIR, there are several concerns that the Tribe has with the "Ethnographic Setting" section (3.4.1.5) and the "Impacts and Mitigation Measures" section (3.4.3.3). These concerns include:

Ethnographic Setting:

1. On page 3.4-7 of the DEIR, the "Vanyumé" are mentioned as inhabiting the southeastern portion of the Valley, including the Mojave River. The Vanyumé are the desert division of the Serrano; they were first mentioned an the "Beñemé" by Father Francisco Garcés in 1776. Later, the ethnic designation Vanyumé was adopted by Kroeber who mistranslated the name. Sutton and Earle (2017) discuss the relationship between the Mountain and Desert divisions of the Serrano at depth, suggesting that they are two divisions of the Serrano proper, not independent political, linguistic, or cultural entities (Earle 1997). In order to accurately represent the prehistory of the area, the "Ethnographic Setting" section of the DEIR should edit this section to better represent the two Serrano divisions, rather than just mentioning the Vanyumé *once* as inhabiting a specific portion of the Valley.

Impact and Mitigation Measures:

12700 Pumarra Road - Banning, CA 92220 - (951) 755-5259 - Fax (951) 572-6004 - <u>THPO@morongo-nsn.gov</u>

TRIBAL HISTORIC PRESERVATION OFFICE 10-4 1. The retention and participation of a Tribal Monitor in the event that any inadvertent discoveries are made. See MBMI CR-6. The treatment and disposition of inadvertent discoveries. See MBMI CR-6, A-D. 10-5 2 The treatment of inadvertently discovered human remains. Most importantly, including the security 10-6 that no photographs are to be taken except by the coroner, with written approval by the consulting Tribe[s]. See MBMI CR-7, A-D. A final report(s) created as part of the project shall be submitted to the Lead Agency and Consulting 4 10-7 Tribe(s) for review and comment. Other Comments/Concerns: 1. In the "Prehistoric Setting" (3.4.1.3), please avoid describing local groups that inhabited the 10-8 landscape as "Tribe(s)." During these periods, these groups are not known as "Tribe(s);" a better term might be "local groups." When mentioning specific sites located in the Antelope Valley, for example, Lovejoy Springs 2. 10-9 (mentioned on page 3.4-3), please include the trinomial of the site. Love joy Springs' trinomial is CA-LAN-192 10-10 3. The citation for Price et al. should have the corresponding date of 2009, not 2008. Robinson (1977:47) is the first to suggest that the local groups which inhabited the Antelope Valley 4. occupied a central geographical location. These groups were a "central point of contact between 10-11 four major centers of cultural development in central and southern California;" this included Shoshonean people of the desert proper to the east, the Yokuts to the north, the Chumash to the west, and the Gabrieliño to the south. We look forward to working with the City to protect these irreplaceable resources out of respect for 10-12 ancestors of the Morongo people who left them there, and for the people of today and for generations to come. Please see the following Mitigation Measures to be included in the Project Environmental Document: **Cultural Resource Mitigation Measures:** CR-1: Tribal Monitoring Services Agreement Prior to the issuance of grading permits, the applicant shall enter into a Tribal Monitoring Services Agreement with the Morongo Band of Mission Indians (MBMI) for the Project. The Tribal Monitor shall be on-site during all ground-disturbing activities (including, but not 10-13 limited to, clearing, grubbing, tree and bush removal, grading, trenching, fence post placement and removal, construction excavation, excavation for all utility and irrigation lines, and landscaping phases of

any kind). The Tribal Monitor shall have the authority to temporarily divert, redirect, or halt the grounddisturbing activities to allow identification, evaluation, and potential recovery of cultural resources.

CR-3: Cultural Resource Management Plan Prior to any ground-disturbing activities the project — Archaeologist shall develop a Cultural Resource Management Plan (CRMP) and/or Archaeological

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TRIBAL HISTORIC PRESERVATION OFFICE 10-14 Monitoring and Treatment Plan (AMTP) to address the details, timing, and responsibilities of all archaeological and cultural resource activities that occur on the project site. This Plan shall be written in consultation with the consulting Tribe[s] and shall include the following: approved Mitigation Measures (MM)/Conditions of Approval (COA), contact information for all pertinent parties, parties' responsibilities, procedures for each MM or COA, and an overview of the project schedule. CR-4: Pre-Grade Meeting The retained Qualified Archeologist and Consulting Tribe[s] representative shall 10-15 attend the pre-grade meeting with the grading contractors to explain and coordinate the requirements of the monitoring plan. CR-5: On-site Monitoring During all ground-disturbing activities the Qualified Archaeologist and the Tribal -Monitor shall be on-site full-time. The frequency of inspections shall depend on the rate of excavation, the materials excavated, and any discoveries of Tribal Cultural Resources as defined in California Public 10-16 Resources Code Section 21074. Archaeological and Tribal Monitoring will be discontinued when the depth of grading and the soil conditions no longer retain the potential to contain cultural deposits. The Qualified Archaeologist, in consultation with the Tribal Monitor, shall be responsible for determining the duration and frequency of monitoring. CR-6: Inadvertent Discovery of Cultural Resources In the event that previously unidentified cultural resources are unearthed during construction, the Qualified Archaeologist and the Tribal Monitor shall have the authority to temporarily divert and/or temporarily halt ground-disturbance operations in the area of discovery to allow for the evaluation of potentially significant cultural resources. Isolates and clearly nonsignificant deposits shall be minimally documented in the field and collected so the monitored grading can proceed. If a potentially significant cultural resource(s) is discovered, work shall stop within a 60-foot perimeter of 10-17 the discovery and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed. All work shall be diverted away from the vicinity of the find, so that the find can be evaluated by the Qualified Archaeologist and Tribal Monitor[s]. The Archaeologist shall notify the Lead Agency and consulting Tribe[s] of said discovery. The Qualified Archaeologist, in consultation with the Lead Agency, the consulting Tribe[s], and the Tribal Monitor, shall determine the significance of the discovered resource. A recommendation for the treatment and disposition of the Tribal Cultural Resource shall be made by the Qualified Archaeologist in consultation with the Tribe[s] and the Tribal Monitor[s] and be submitted to the Lead Agency for review and approval. Below are the possible treatments and dispositions of significant cultural resources in order of CEQA preference: A. Full avoidance. B. If avoidance is not feasible, Preservation in place. C If Preservation in place is not feasible, all items shall be reburied in an area away from any future impacts and reside in a permanent conservation easement or Deed Restriction D. If all other options are proven to be infeasible, data recovery through excavation and then curation in a Curation Facility that meets the Federal Curation Standards (CFR 79.1) CR-7: Inadvertent Discovery of Human Remains The Morongo Band of Mission Indians requests the following specific conditions to be imposed in order to protect Native American human remains and/or cremations. No photographs are to be taken except by the coroner, with written approval by the consulting Tribe[s]. 10-18 A. Should human remains and/or cremations be encountered on the surface or during any and all ground-disturbing activities (i.e., clearing, grubbing, tree and bush removal, grading, trenching,

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TRIBAL HISTORIC PRESERVATION OFFICE

fence post placement and removal, construction excavation, excavation for all water supply, electrical, and irrigation lines, and landscaping phases of any kind), work in the immediate vicinity of the discovery shall immediately stop within a 100-foot perimeter of the discovery. The area shall be protected; project personnel/observers will be restricted. The County Coroner is to be contacted within 24 hours of discovery. The County Coroner has 48 hours to make his/her determination pursuant to State and Safety Code §7050.5. and Public Resources Code (PRC) § 5097.98.
 B. In the event that the human remains and/or cremations are identified as Native American, the

- Coroner shall notify the Native American Heritage Commission within 24 hours of determination pursuant to subdivision (c) of HSC §7050.5.
- C. The Native American Heritage Commission shall immediately notify the person or persons it believes to be the Most Likely Descendant (MLD). The MLD has 48 hours, upon being granted access to the Project site, to inspect the site of discovery and make his/her recommendation for final treatment and disposition, with appropriate dignity, of the remains and all associated grave goods pursuant to PRC §5097.98
- D. If the Morongo Band of Mission Indians has been named the Most Likely Descendant (MLD), the Tribe may wish to rebury the human remains and/or cremation and sacred items in their place of discovery with no further disturbance where they will reside in perpetuity. The place(s) of reburial will not be disclosed by any party and is exempt from the California Public Records Act (California Government Code § 6254[r]). Reburial location of human remains and/or cremations will be determined by the Tribe's Most Likely Descendant (MLD), the landowner, and the City Planning Department.

CR-8: FINAL REPORT: The final report[s] created as a part of the project (AMTP, isolate records, site records, survey reports, testing reports, etc.) shall be submitted to the Lead Agency and Consulting Tribe[s] for review and comment. After approval of all parties, the final reports are to be submitted to the appropriate Information Center, and the Consulting Tribe[s].

10-19

This letter does not conclude consultation. Upon review of the requested Measures the MBMI THPO may ______ 10-20 further provide recommendations or guidance.

The lead contact for this Project is Bernadette Ann Brierty, Tribal Historic Preservation Officer (THPO). MBMI Tribal Archaeologist, Sarah Bertman will be assisting the Tribe in the review of this project. Please do not hesitate to contact us at <u>ABrierty@morongo-nsn.gov, THPO@morongo-nsn.gov,</u> <u>sbertman@morongo-nsn.gov</u>or (951) 663-2842, should you have any questions. The Tribe looks forward to meaningful government-to-government consultation with the City.

Respectfully,

Bernadette ann Brierty

Bernadette Ann Brierty Tribal Historic Preservation Officer Morongo Band of Mission Indians

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RESPONSE TO COMMENT LETTER 10

Morongo Band of Mission Indians, Bernadette Ann Brierty, Tribal Historic Preservation Officer

Response to Comment 10-1:

PWD acknowledges that the proposed Project is located within the ancestral territory and traditional use area of the Cahuilla and Serrano people of the Morongo Band of Mission Indians (MBMI). As indicated in Mitigation Measure TCR-1: Native American Resources Monitoring, full-time Tribal monitoring shall be conducted for ground-disturbing activities unless the Qualified Archaeologist has established as part of the archaeological assessment that previous disturbances have reduced the sensitivity to the extent that Tribal monitoring is not warranted. With respect to all tribes and groups who have engaged with the District on the Project the District will work with consulting tribes to equitably select tribal monitors on each individual component of the proposed Project. Further response to monitoring is discussed in comment 10-13

Response to Comment 10-2:

PWD acknowledges the comment indicating that project is within the ancestral territory are sensitive for cultural resources regardless of the present or absence of remaining surface artifacts. Please refer to response to Comment 10-1 regarding response to requests Tribal monitoring during all ground-disturbing activities.

Response to Comment 10-3:

As requested, Section 3.4.1.5 Ethnographic Setting has been edited to better present the two Serrano divisions, rather than just mention the Vanyumé once as inhabiting a specific portion of the Valley.

Text in Section 3.4.1.5 Ethnographic Setting om page 3.4-7 has been edited.

At the time of European contact, numerous groups occupied the area in and surrounding the Antelope Valley. The southeastern portion of the Valley, around the Mojave River, was inhabited by the Serrano and Vanyumé. <u>The Vanyumé are the desert division of the Serrano; they were first mentioned as the Beneme by Father Francisco Garces in 1776.</u> Later, the ethnic designation Vanyume was adopted by Kroeber who mistranslated the name. Sutton and Earle (2017) discuss the relationship between the Mountain and Desert divisions of the Serrano at depth, suggesting that they are two divisions of the Serrano proper, not independent political, linguistic, or cultural entities (Earle 1997).

Response to Comment 10-4:

The comment notes that the retention and participation of Tribal Monitor in the event that any inadvertent discoveries are made. Please refer to Mitigation Measure TCR-1 on Page 3.4-49 of the Draft EIR which includes requirements for Native American monitors. Potential impacts to

tribal cultural resources were adequately evaluated and the mitigation does not warrant revision. See the response for comment 10-17 below for a more detailed discussion.

Response to Comment 10-5:

The comment notes the treatment and disposition of inadvertent discoveries. Please refer to Mitigation Measure CUL-4 and CUL-9 on page 3.4-45 and 3.4-48 of the Draft EIR regarding training, treatment, and disposition of inadvertent resource discoveries that adequately meet the regulator requirements governing archaeological, tribal cultural, and human remain resources. See the response for comment 10-17 below for a more detailed discussion.

Response to Comment 10-6:

The comment notes the treatment of inadvertently discovered remains and requests that no photographs are to be taken except by the coroner, with written approval by the consulting Tribe(s). This comment is discussed in detail in the response to Comment 10-18 below.

Response to Comment 10-7:

The comment notes that a final report shall be created as part of the project shall be submitted to the Lead Agency and Consulting Tribe(s) for review and comment. See the response to Comment 10-19 below that discusses the final report.

Response to Comment 10-8:

The comment requests that PWD avoid describing local groups that inhabited the landscape as "Tribes" in Section 3.4.1.3 Prehistoric Setting because these groups are not known as "Tribe(s)" during this period. The comment recommends using the term "local groups."

PWD reviewed Section 3.4.1.3 and did not find any references describing local groups that inhabited the landscape as "Tribes."

Response to Comment 10-9:

The comment requests that trinomial of the site be included when mentioning specific sites located in the Antelope Valley. PWD acknowledges this comment; however, PWD will not be able to include trinomials in the EIR because not all trinomials are available and typically not publicly available. The addition of trinomials does not change the outcome of the proposed Project, as some commonly known sites may not have been included in the proposed Project.

Response to Comment 10-10:

The comment notes that the citation for Price et al. should have the corresponding date of 2009, not 2008. The citation for Price et al. has been revised to 2009 throughout the EIR.

Response to Comment 10-11:

The comment notes that Robinson (1977:47) is the first to suggest that the local groups which inhabited the Antelope Valley occupied a central geographical location, and that these groups were a "central point of contract between four major centers of cultural development in central and southern California," which included the Shoshonean people of the desert proper to the east, the Yokuts to the north, the Chumash to the west, and the Gabrielino to the south.

Text in Section 3.4.1.5 Ethnographic Setting on page 3.4-7 has been revised.

Robinson (1977) is the first to suggest that the local groups, which inhabited the Antelope Vvlley occupied a central geographical location. There groups were "a central point of contact between four major centers of cultural development in central and southern California;" this included Shoshonean people of the desert proper to the east, the Yokuts to the north, the Chumash to the west, and the Gabrieliño to the south. The territory of the Tataviam centered on the southwestern extent of the Antelope Valley, the Santa Clara River drainage, and possibly the Sierra Pelonas and the Palmdale area (Sutton 1988). The Kitanemuk inhabited the southern Tehachapi Mountains and the northern and central portion of the Antelope Valley. Finally, during the historic period, there is some evidence for the occupation of the Western Mojave by the Chemehuevi. The groups that are known to have lived in the vicinity of the proposed project area (Kitanemuk, Tataviam, Serrano, and Chemehuevi) are described in more detail below.

Robinson (1977) was also added to the list of references:

Robinson, R.W. 1977. The Prehistoric of the Antelope Valley, California: An Overview. Kern County Archaeological Society Journal 1: 43-48.

Response to Comment 10-12:

The comment notes that MBMI is looking forward to working with PWD to protect these irreplaceable resources out of respect for the ancestors of the Morongo people.

PWD acknowledges this comment and is also looking forward to working with the MBMI and other Tribal groups to protect cultural and Tribal resources in the proposed Project area.

Response to Comment 10-13:

The comment requests that CR-1: Tribal Monitoring Services Agreement be included in the EIR. The comment notes that PWD shall enter into a Tribal Monitoring Services Agreement with the MBMI for the Project. The Tribal monitor shall be on-site during all ground-disturbing activities. The Tribal monitor will have the authority to temporarily divert, redirect, or halt the ground-disturbing activities to allow identification, evaluation, and potential recovery of cultural resources.

Mitigation Measure TCR-1: Native American Resources Monitoring adequately mitigates the potential significant effects of the Project identified within the Draft EIR. Incorporation of a monitoring agreement with a specific tribe in an area where several tribes are consulting on projects does not further reduce potential environmental impacts associated with the proposed

Project. Entering into a tribal monitoring agreement with MBMI would grant priority to MBMI over the other tribes that have consulted with PWD on the Project. PWD aims to maintain open channels of communication and to work equitably with all consulting tribes for resource monitoring associated with the proposed Project, therefore, no change has been made to Mitigation Measure TCR-1: Native American Resources Monitoring.

Mitigation Measure TCR-1: Native American Resources Monitoring states that PWD will retain Tribal monitor(s) the monitoring from a California Native American Tribe that is culturally and geographically affiliated in the area within which the project component is located. If more than one Tribe is interested in monitoring a project component, PWD shall prepare a monitoring rotation schedule. The Tribal monitor(s) shall be on site during ground-disturbing activities had have the authority to halt and re-direct ground-disturbing activities in the event of a discovery until it has been assessed for significance and treatment implemented, if necessary, based on the recommendations of the Qualified Archaeologist in coordination with PWD and the Tribal monitor(s). All Tribal groups will be given the same opportunity.

Response to Comment 10-14:

The comment notes that a Qualified Archaeologist will be retain prior to any ground-disturbing activities who meets the U.S. Secretary of the Interior Standards. The Qualified Archaeologist shall be present during all ground disturbing activities to identify any known or suspected archaeological and/or cultural resources. The Qualified Archaeologist will also conduct a Cultural Resource Sensitivity Training, in conjunction with the Tribe's Tribal Historic Preservation Officer, and/or designated Tribal Representative, which will focus on the archaeological and tribal cultural resources that may be encountered during ground-disturbing activities.

As indicated in Mitigation Measure CUL-1: Cultural Resources Personnel Professional Qualifications Standards, PWD shall retain an archaeologist that meets the minimum professional qualifications set forth by the Secretary of the Interior. Mitigation Measure CUL-4: Construction Worker Cultural Resources Sensitivity Training states that the Qualified Archaeologist will implement a cultural resources sensitivity training program that will instruct all construction personnel of the types of cultural materials that may be encountered, cultural sensitivity issues, applicable laws protecting cultural resources, the proper treatment procedures to be enacted in the event of an inadvertent discovery of cultural materials or human remains, and confidentiality of discoveries. Additionally, Tribal representatives from each of the tribes consulting on the Palmdale Ditch Conversion Project shall be allowed to attend and/or participate in the training. Mitigation Measure CUL-1: Cultural Resources Personnel Professional Qualifications Standards and Mitigation Measure CUL-4: Construction Worker Cultural Resources Sensitivity Training meets the requirements of CEQA and does not require any modifications.

Response to Comment 10-15:

The comment requests that the project Archaeologist develop a Cultural Resource Management Plan and/or Archaeological Monitoring and Treatment Plan prior to any ground-disturbing

activities. The plan(s) shall be written in consultation with the consulting Tribe(s) and shall include approved Mitigation Measures/Conditions of Approval (MM/COA), contact information for all pertinent parties, parties' responsibilities, procedures for each MM/COA, and overview of the project schedule.

A Cultural Resources Monitoring Plan (CRMP) will be developed prior to the start of Projectrelated ground disturbance by a qualified archaeologist as indicated in Mitigation Measure CUL-5. The CRMP will discuss the monitoring protocols to be carried out during Project construction and should outline the appropriate measures to be followed in the event that cultural resources are encountered. The CRMP shall be submitted to PWD for dissemination to the Tribes consulting on the Project. Mitigation Measure CUL-5 as written meets the requirements of CEQA and Tribes will be given the opportunity to review the CRMP before PWD adopts the CRMP.

Response to Comment 10-16:

The comment offers an opinion that during all ground-disturbing activities, the Qualified Archaeologist and the Tribal Monitor shall be on-site full time. The frequency of inspections shall depend on the rate of excavation, the materials excavated, and any discoveries of Tribal Cultural Resources ad defined in California Public Resources Code Section 21074. Archaeological and Tribal Monitoring will be discounted when the depth of grading and the soil conditions no longer retain the potential to contain cultural deposits. The Qualified Archaeologist, in consultation with the Tribal Monitor, shall be responsible for determining the duration and frequency of monitoring.

Mitigation Measure CUL-5: Archaeological Resources Monitoring and Mitigation Measure TCR-1: Native American Resources Monitoring state that full time archaeological monitoring and full time Tribal monitoring shall be conducted unless the Qualified Archaeologist determines that previous disturbances have sufficiently lowered the sensitivity for encountering prehistoric archaeological resources. Mitigation Measure CUL-5: Archaeological Resources Monitoring and Mitigation Measure TCR-1: Native American Resources Monitoring as written satisfies all requirements of CEQA as on-site monitoring of the proposed Project area will be determined by Qualified Archaeologist.

Response to Comment 10-17:

The comment notes that in an event of inadvertent discovery of cultural resources is discovered during construction, the Qualified Archaeologist and the Tribal Monitor has the authority to temporarily divert and/or temporarily halt ground-disturbance operations in the area of discovery to allow for the evaluation of potentially significant cultural resources. Isolates and clearly nonsignificant deposits shall be minimally documented in the field and collected so the monitored grading can proceed.

The comment notes protocols that should be implemented if a potentially significant cultural resource(s) is discovered and includes possible treatments and dispositions of significant cultural resources in order of CEQA preference: full avoidance; if avoidance is not feasible, preservation

in place; if preservation in place is not feasible, all items shall be reburied in an area away from any future impacts and reside in a permanent conservation easement or deed restriction; if all other options are proven to be infeasible, data recovery through excavation and then curation in a curation facility that meets the Federal Curation Standards.

Mitigation Measure CUL-6: Archaeological Resources Discoveries describe the protocols in the event there is an inadvertent discovery of cultural remains in the proposed Project Area. PWD will halt work within 60 feet of any discovered cultural resources, install an environmentally sensitive area barrier, and contact a qualified archaeologist immediately for evaluation. If the Qualified Archaeologist determines that the resource is Native American, then a representative from the consulting Tribe(s) shall be contacted to participate in the evaluation of the resource. An archaeological testing will be conducted to determine eligibility for the California Register of Historical Resources or National Register of Historic Place. If the resource is eligible and impacts cannot be avoided, the Qualified Archaeologist will prepare a data recovery plan, which will be tailored to the physical nature and characteristics of the resource, pursuant to the requirements of CEQA Guidelines 15126.4(b)(3)(c).The data recovery plan shall identify data recovery excavation methods, measurable objectives, and data thresholds to reduce any significant impacts to the resource. Mitigation Measure CUL-6 as written satisfies all requirements of CEQA and provides Tribes with sufficient opportunities to evaluate the resource.

Response to Comment 10-18:

The comment notes that the MBMI request that no photographs are to be taken except by the coroner, with written approval by the consulting Tribe(s) in the event of inadvertent discovery of human remains. The comment notes specific conditions to be implemented to protect Native American human remains and/or cremations: immediate work in the vicinity shall stop within 100-foot perimeter of the discovery and area shall be protection, County Coroner has to be contacted within 24 hours of discovery and has 48 hours to make their determination pursuant to State and Safety Code Section 7050.5 and Public Resources Code Section 5097.98; County Coroner has 24 hours to notify the Native American Heritage Commission (NAHC) if the remains are Native American; the NAHC shall notify the Most Likely Descendant (MLD) and the MLD has 48 hours to inspect the site of discovery and give their recommendation; and if the MBMI has been named the MBMI, the MBMI may rebury the human remains and/or cremation and sacred items in their place of discovery with no further disturbance where they will reside in perpetuity; the place of reburial will not be disclosed to any party and is exempt from the California Public Records Act. The reburial location of human remains and/or cremations will be determined by the MLD, the landowner, and the City Planning Department.

Mitigation Measure CUL-9: Inadvertent Discovery of Human Remains as written satisfies all CEQA requirements as PWD will halt work within 100 feet of discovered human remains, contact the County Coroner, and will follow all protocols for Native American remains as designated by the California NAHC.

Response to Comment 10-19:

The comment requests that the final report(s) created as part of the proposed Project shall be submitted to the lead agency and consulting Tribe(s) for review and comment. After approval of all parties, the final reports are to be submitted to the appropriate information center, and the consulting Tribe(s).

Text in Mitigation Measure CUL-5: Archaeological Resources Monitoring on page 3.4-45 to 3.4-46 has been edited to clarify the CRMP.

Proposed Project Requirements. Archaeological monitoring shall be determined by the Qualified Archaeologist based on the results of the archaeological resources assessment conducted under CUL-3 and requires the preparation of a Cultural Resources Monitoring Plan (CRMP) prior to the start of Project-related ground disturbance. The CRMP should discuss the monitoring protocols to be carried out during Project construction and should outline the appropriate measures to be followed in the event that cultural resources are encountered <u>and outline requirements for the final monitoring report.</u>

Response to Comment 10-20:

The comment notes that the comment letter does not conclude consultation. Upon review of the requested measures, the MBMI Tribal Historic Preservation Officer may provide further recommendations or guidance.

PWD acknowledges the comment. As part of the AB 52 process for the proposed Project, PWD mailed letters on June 27, 2024 to representatives from each of the six tribes identified by the NAHC inviting them to consult on the proposed Project pursuant to AB 52, including the MBMI. Other Tribes consulted, but PWD did not receive a response from the MBMI Tribal Historic Preservation Officer. The deadline for Tribal consultation has passed.

CHAPTER 3. DRAFT EIR TEXT REVISIONS

Chapter 3 presents text changes to the Draft EIR that have been made in response to the comments and/or PWD self-initiated changes that amplify, clarify, or make modifications or corrections. These changes do not change the results or conclusions of the Draft EIR. Changes in the text are indicated by strikeout where text is removed and by double underline where text is added. Section numbers correspond to the section numbers of the Draft EIR.

These revisions derive from comments raised in one or more of the comment letters received by the District on the Draft EIR, or by changes made by PWD to clarify information contained in the Draft EIR.

DRAFT EIR SECTION ES.1 EXECUTIVE SUMMARY

Text in the Draft EIR in the Executive Summary on page ES-2 has been revised accordingly to provide this clarification, and reads as follows:

In addition to the Table A amount, PWD supplements Table A water with carryover water, Article 21 water, and-turnback pool water <u>Water Management Amendment</u>.

Text in the Draft EIR in the Executive Summary on page ES-8 has been revised accordingly to provide this clarification, and reads as follows:

Under the Reduced Project Alternative, PWD would not purchase <u>1,000</u> 2,000 AFY of production rights from other groundwater users in the Antelope Valley Groundwater Basin.

The following rows of Table ES-2 in the Draft EIR in the Executive Summary has been revised accordingly to provide clarification, and reads as follows:

Impact Statement	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
3.1 Aesthetics			
AES-3: In an urbanized area, conflict with applicable zoning and other regulations governing scenic guality.	PS <u>LTS</u>	Mitigation Measure AES-1: Above, shall apply	LSM- <u>LTS</u>
		Mitigation Measure AES-2: Above, shall apply	
		Mitigation Measure AES-3: Above, shall apply	
		No Mitigation Required	
3.2 Air Quality and Greenhouse Gas Emissions			
AIR-3: Expose sensitive receptors to substantial pollutant	LTS-PS	No mitigation required.	LT <u>SM</u>
concentrations.		Mitigation Measure AIR-2: Above shall, apply Mitigation Measure AIR-3: Above shall, apply	
3.3 Biological Resources			
BIO-1: Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS.	PS	Mitigation Measure BIO-1: Habitat Assessment This mitigation measure is applicable to all Project components except the Palmdale Ditch Conversion project. A habitat assessment shall be conducted prior to ground-disturbing activities within 500 feet of each proposed Project component footprint. If no suitable habitat occurs to support special-status plant species, special-status wildlife species, nesting bird species, sensitive plant communities, and/or native desert vegetation, then no further mitigation is necessary. If suitable habitat occurs, implementation of Mitigation Measures BIO-2 through BIO-19 shall be required based on the resources identified.	LSM
		 Mitigation Measure BIO-2: Special-Status Plant Surveys, Avoidance Measures, Mitigation and Monitoring Plan This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which suitable habitat for special-status plant species is identified within the Project component site during the habitat assessment conducted pursuant to Mitigation Measure BIO-1. PWD shall retain a qualified biologist to conduct surveys for special-status plants prior to any vegetation removal, grubbing, or other construction activity within each proposed Project component footprint. The surveys shall be floristic in nature and seasonally timed to coincide with the blooming periods of the following special-status species with potential to occur: All Project Components except Palmdale Ditch Conversion Project: Horn's milk-vetch, Palmer's mariposa-lily, alkali mariposa-lily, white pygmy-poppy, Mojave paintbrush, short-joint beavertail, Greata's aster, Peirson's morning-glory, sagebrush loeflingia, and Robbins' nemacladus. 	
		 Palmdale Ditch Conversion Project: Horn's milk-vetch, Palmer's mariposa-lily, alkali mariposa-lily, white pygmy-poppy, Mojave paintbrush, short-joint beavertail, and Greata's aster. The surveys shall be conducted during the relevant target species' blooming periods no more than two years prior to construction. Special-status plant species identified on site shall be mapped onto a site-specific aerial photograph. Surveys shall be conducted in accordance with the most current CDFW and USFWS protocols. A report of the survey results shall be submitted to PWD for review and approval. If special-status plants other than western Joshua trees are detected during special-status plant surveys, the observed special-status plants shall be avoided through Project component design where feasible, and vegetation clearing within 50 feet (15 meters) of any identified special-status plant shall be conducted by hand by the construction contractor(s), if practicable. An avoidance buffer of at least 	

Impact Statement	Level of	Mitigation Measure	Level of
	Significance before		Significance after
	Mitigation		Mitigation
		 50 feet (15 meters), or other distance as approved by a qualified biologist, shall be established around any identified special-status plants that can be feasibly avoided, and the avoidance buffer shall be diversed with bright torange protective fencing. The avoidance buffers shall be maintained for the duration of construction activities at each construction site and shall be removed only after the conclusion of all grading, clearing, and construction activities at each construction site. If special-status plants other than western Joshu tree are detected during special-status plant sources and would be impacted by Project component construction, PWD shall retain a qualified restoration specialist to develop a Special-Status Plant Mitigation and Monitoring Plan that provides for the onsite or off-site replacement of the species impacted by the Project component. The Special-Status Plant Mitigation and Monitoring Plan shall specify the following: The location of the mitigation site; Methods for harvesting seeds or salvaging and transplanting individuals to be impacted; Measures for propagating plants or transferring living plants from the salvage site to the mitigation site; A schedule and action plant to maintain and monitor the mitigation site; Criteria and performance standards by which to measure the success of the mitigation, including replacement of impacted plants at a minimum 1:1 ratio, to be determined in consultation with CDEV if a Lake or Streambed Alteration Agreement pursuant to CFGC Section 1602 or Incidental Take Permit pursuant to CFGC Section 2081 is otherwise required for the Project component construction; and Othitin five gears after introducing the plants to the mitigation site, the number of established, reproductive plants shall equal the number impacted during Project component construction; and Monitoring Plan shall be ininitiated prior to Project component construction; (including, b	

Impact Statement	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
		Mitigation Measure BIO-3: Joshua Tree Census Survey, Avoidance, Minimization, and Compensation Measures This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which suitable habitat for western Joshua tree is identified within 50 feet of the Project component site during the habitat assessment conducted pursuant to Mitigation Measure BIO-1. A western Joshua tree census survey shall be conducted for that component by a qualified arborist in accordance with CDFW's Western Joshua Tree Census Instructions, which requires a census of all western Joshua trees and within a minimum 50-foot buffer. Impacts to western Joshua trees and within a minimum 50-foot buffer shall be avoided to the extent feasible. An avoidance buffer of at least 50 feet shall be established around western Joshua tree individuals that can be feasibly avoided. If a 50-foot buffer is not feasible, a reduced buffer can be established if a qualified desert native plant specialist and CDFW determine the reduced buffer would avoid direct impacts to individual western Joshua tree(s). No activities shall occur within the buffer. The avoidance buffers shall be maintained for the duration of construction activities in each work area and shall be removed only after the conclusion of all grading, clearing, and construction activities at each Project component construction site. For each dead or live western Joshua tree individual that cannot be avoided through Project component geign, PWD shall implement one of the following measures: The western Joshua tree individual shall be trimmed or relocated under the guidance of a desert native plant specialist. Tree relocation shall be implemented in accordance with the following measures and CDFW determine that maximizes its survival, when feasible. • The relocated western Joshua tree individual that cannot be avoided through Project component construction site. • The relocated western Joshua tree individual that cannot b	
		Mitigation Measure BIO-4: Arroyo Toad, Desert Tortoise, Tricolored Blackbird, and Least Bell's Vireo Avoidance, Minimization and Compensation Measures This mitigation measure is applicable to the Project components for which suitable habitat for arroyo toad, desert tortoise, tricolored blackbird, and/or least Bell's vireo is identified within 500 feet of the Project component site during the habitat assessment conducted pursuant to Mitigation Measure BIO- 1 and does not apply to the Palmdale Ditch Conversion project. Focused protocol surveys shall be conducted by a qualified biologist following the protocol outlined in the most recent USFWS and/or CDFW protocol guidelines. These currently include: 1999 Survey Protocol for the Arroyo Toad; 2018 Preparing for Any Action That May Occur Within the Range of the Mojave Desert Tortoise (Gopherus agassizii); 2015 Staff Guidance Regarding Avoidance of Impacts to Tricolored Blackbird Breeding	

Impact Statement	Level of	Mitigation Measure	Level of
	Significance		Significance
	Mitigation		Mitigation
	before Mitigation	Colonies on Agricultural Fields in 2015; and 2001 Least Bell's Vireo Survey Guidelines). If any special- status wildlife species are observed during the focused surveys, these species and their habitat shall be avoided by the proposed Project. If avoidance of the special-status wildlife species is not feasible, and special-status wildlife may be potentially impacted by the proposed Project additional avoidance and mitigation measures will be required, such as constructing proposed Project facilities outside the breeding season, establishing a suitable buffer around known territories, and restricting activities around certain times of year. If the proposed Project results in permanent impacts to habitat occupied by special-status wildlife species, USFWS and CDFW shall be consulted to ensure compliance with the Endangered Species Act and/or requirements for avoidance, minimization, or mitigation measures (e.g., replacement of impacted occupied habitat at a minimum 1:1 ratio, to be determined in consultation with USFWS and/or CDFW as applicable). If species are identified and cannot be avoided, species-specific mitigation measures included in this section shall apply as applicable. Mitigation Measure BIO-5: Crotch's Bumble Bee Avoidance, Minimization, and Compensation Measures This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which suitable habitat for Crotch's bumblebee is identified within 50 feet of the Project component site during the habitat assessment conducted pursuant to Mitigation Measure BIO- 1. If Crotch's bumble bee is still considered a CESA candidate species or has been listed as threatened or endangered under CESA at the time construction of Project components commences, PWD shall implement the following avoidance, minimization, and compensation measures for this species: • A qualified biologist shall conduct a protocol-level presence/absence survey for Crotch's bumble bee in areas of the Project component site with suitable habitat du	after Mitigation
		identified within the Project component site or immediately adjacent to the site, a qualified biologist shall determine the need to establish a no-disturbance buffer around the nest,	
		where feasible, to reduce the risk of disturbance or accidental take. The buffer shall provide	
		at least 50 feet (15 meters) of clearance around active nest entrances. If Project component	

Impact Statement	Level of	Mitigation Measure	Level of
	Significance before		Significance after
	Mitigation		Mitigation
		 activities may result in disturbance or potential take, the qualified biologist, in coordination with CDFW, shall expand the buffer zone as necessary to prevent disturbance or take. If establishment of a no-disturbance buffer is feasible, construction activities shall not occur within the buffer until a qualified biologist determines the colony is no longer active (i.e., no Crotch's bumble bees are seen flying in or out of the nest for three consecutive days, indicating the colony has completed its nesting season and the next season's queens have dispersed from the colony). Once the nest has been determined to be inactive, construction activities within the no-disturbance buffer shall be maintained for the duration of Project component construction activities in each work area and shall be removed only after the conclusion of all grading, clearing, and construction activities at each construction site. If establishment of a no-disturbance buffer far/lor avoidance of the nest is not feasible, the qualified biologist shall consult with CDFW regarding potential encroachment into the no-disturbance buffer and for Project component activities that may result in take of Crotch's bumble bee. If Crotch's bumble bee is determined to be present on the Project component site, floral resources associated with the species that will be removed or damaged by Project component activities in the areas of the Project component site where Crotch's bumble bee is detected and documented shall be replaced at a <u>minimum</u> 1:1 ratio, <u>to be determined in consultation with CDFW apart of the habitat Revegetation, Restoration, and Monitoring Program described under Mitigation Measure BIO-19.</u> Mitigation Measure BIO-6: Burrowing Owl Breeding Season Survey and Foraging Habitat Mitigation This mitigation measure is applicable to the Palmale Ditch Conversion project and other Project component is effered to burrowing owl lingator (DFW 2012), or the most current CDFW guidance in e	
		vegetation within the burrowing owl survey area shall be taken and included as an appendix to the survey report. All vertebrate fauna detected in the burrowing owl	
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Impact Statement	Level of	Mitigation Measure	Level of
	Significance		Significance
	before Mitigation		after Mitigation
	WILLYALLON	 survey area shall be recorded in field notes. Inaccessible areas of the burrowing owl survey area outside the Project component site shall be surveyed using binoculars and/or spotting scopes to determine if owls are present. A survey report shall be prepared that includes survey methodology, survey results, an analysis of potential Project component impacts to actively nesting pairs, and a calculation of the compensatory mitigation for foraging habitat, if impacted. Late winter migrants and non-nesting individuals located outside of the Project component impact area shall not require habitat mitigation unless passive relocation is necessary. Maps showing burrow locations, a delineation of suitable habitat areas, and burrowing owls observed shall be included in the survey report. If actively breeding owls are observed within 500 feet of Project component activities, PWD shall implement compensatory mitigation for impacts to foraging habitat based on the following methodology: A 500-foot buffer shall be established around each active nest burrow to indicate the primary foraging habitat area for each nesting pair. Permanent Project component disturbance areas shall be overlain onto the foraging buffer zone(s) to calculate the area(s) of habitat loss. Permanent foraging habitat loss shall be mitigated at a 1:1 ratio. Compensatory mitigation for loss of foraging habitat shall be implemented on- or off-site and may include purchase of Conservation Bank credits, payment of an inlieu fee to benefit burrowing owl, or permanent conservation easement, funding of a non-wasting endowment, and/or implementation of a Mitigation (CDFW 2012). Mitigation lands shall be identified through coordination with CDFW on, adjacent, or proximate to the impact site where practicable and where habitat is 	Mitgation
		suitable to support burrowing owl. Mitigation Measure BIO-7 : Burrowing Owl Pre-Construction Clearance Survey And Occupied Burrow Avoidance And Minimization Measures This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which suitable habitat for burrowing owl is identified within 500 feet of the Project component site during the habitat assessment conducted pursuant to Mitigation Measure BIO-1. PWD shall retain a qualified biologist to conduct a pre-construction burrowing owl clearance survey of areas within the Project component site and a 500-foot buffer that contain suitable burrowing owl habitat to confirm presence/absence of burrowing owl individuals no more than 14 days prior to start of construction in each work area. The survey methodology shall be consistent with the methods outlined in the CDFW Staff Report on Burrowing Owl Mitigation (CDFW 2012). If no active breeding or wintering owls or evidence of occupied habitat is identified, then Project component construction in the work area may begin, and no further action is required. If active breeding or wintering owls or evidence of occupied habitat is detected in the Project component work area or within a 500-foot buffer, PWD shall implement the following measures for mitigation of potential burrowing owl presence in the Project area in accordance with the CDFW Staff Report on Burrowing Owl Mitigation (CDFW 2012): • A qualified biologist shall be present on site during initial ground disturbing activities in	

Mitigation Mitigation Occupied burrows shall not be disturbed during the nesting season (February 1 to August 3). ••••••••••••••••••••••••••••••••••••	Impact Statement	Level of Significance before	Mitigation Measure	Level of Significance after
 Occupied burrows shall not be disturbed during the nesting season (February 1 to August 31). No ground disturbing activities shall be permitted within a buffer no less than 656 feet (200 meters) from an active burrowing on whorwo during the breeding season. (depending on the level of disturbance, unless the qualified biologist determines a reduced buffer would not adversely affect the burrowing owiks). During the nonbreeding withs) During the nonbreeding withs) During the nonbreeding viewls. During the nonbreeding view of disturbance is low all fit active burrow is not directly affected by the qualified biologist of lowing monitoring and assessment of the Project components effects on the burrowing owl(s). If active wither burrows are found that would be directly affected by ground disturbing activities, owls can be excluded from winter burrows according to recommendations in the Staff Report on Burrowing Owl Mitigation (CDPW 2012). The qualified biologist shall prepare a passive relocation program in accordance with Appendic E (Example Components for fluor own Birds with a buffer and visual barries, use the cost of the CDPW Staff Report on Burrowing Owl Mitigation (CDPW 2012) and submit the passive relocation program to PVD and CDPW for to the submitter of visual barries with appendic E fluore the commendent of ground disturbance activities. If required, a compensatory mitigation agreement shall be developed in coordination with CDPW priot to passive relocation for who. Smaller non-disturbance buffers may be permitted in the winter (and sometimes breeding season) for the burrowing own dividuals if no are and visual barries, use has bable withs, is installed biologist determines the reduced buffer will provide adequate protection. The l				
Mitigation Measure BIO-8: Swainson's Hawk Avoidance And Minimization Measures This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which suitable habitat for Swainson's hawk is identified within 0.5-mile of the Project component site during the habitat assessment conducted pursuant to Mitigation Measure BIO-1. Construction activities shall be limited to the period between September 16 and February 28 to the extent feasible. If construction activities cannot be completed within this timeframe, PWD shall retain a qualified biologist(s) with Swainson's hawk survey experience to conduct a Swainson's hawk nest survey within the Project component site and a 0.5-mile buffer during the nesting season immediately prior to the commencement of Project component construction. While the proposed Project does not propose to construct renewable energy facilities, nest survey methods and timing shall follow those			 Occupied burrows shall not be disturbed during the nesting season (February 1 to August 31). No ground disturbing activities shall be permitted within a buffer no less than 656 feet (200 meters) from an active burrowing owl burrow during the breeding season, depending on the level of disturbance, unless the qualified biologist determines a reduced buffer would not adversely affect the burrowing owl (s). During the nonbreeding (winter) season (September 1 to January 31), ground disturbing work can proceed near active burrowing owl burrows at the discretion of the qualified biologist as long as the work occurs no closer than 165 feet (50 meters) from the burrow, depending on whether the level of disturbance is low and if the active burrow is not directly affected by the Project component activity. A smaller/larger buffer may be established by the qualified biologist following monitoring and assessment of the Project component's effects on the burrowing owl(s). If active winter burrows are found that would be directly affected by ground disturbing activities, owls can be excluded from winter burrows according to recommendations in the Staff Report on Burrowing Owl Mitigation (CDFW 2012). The qualified biologist shall prepare a passive relocation program in accordance with Appendix E (Example Components for Burrowing Owl Mitigation (CDFW 2012) and submit the passive relocation program to PWD and CDFW for review and approval prior to the commencement of ground disturbance buffers may be permitted in the winter (and sometimes breeding season) for the burrowing owl individuals if a noise and visual barrier, such as hay bale walls, is installed between the occupied burrowing owl burrow and construction activities, as long as the qualified biologist determines the reduced buffer will provide adequate protection. When a qualified biologist determines burrowing owls are no longer occupying the Project component site and passive relocation is complete, ground	
outlined in the CEC and CDFW protocol for the Antelope Valley (CDFW 2010) with the exception that the nest survey shall occur within a 0.5-mile buffer of the Project component site. A report			This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which suitable habitat for Swainson's hawk is identified within 0.5-mile of the Project component site during the habitat assessment conducted pursuant to Mitigation Measure BIO-1. Construction activities shall be limited to the period between September 16 and February 28 to the extent feasible. If construction activities cannot be completed within this timeframe, PWD shall retain a qualified biologist(s) with Swainson's hawk survey experience to conduct a Swainson's hawk nest survey within the Project component site and a 0.5-mile buffer during the nesting season immediately prior to the commencement of Project component construction. While the proposed Project does not propose to construct renewable energy facilities, nest survey methods and timing shall follow those outlined in the CEC and CDFW protocol for the Antelope Valley (CDFW 2010) with the exception that	

Impact Statement	Level of Significance	Mitigation Measure	Level of Significance
	before Mitigation		after Mitigation
		 documenting results of the survey shall be prepared and submitted to PWD for review and approval prior to commencement of Project component activities. If no Swainson's hawk nests are documented within 0.5 mile of the Project area, no additional action shall be required. If an active Swainson's hawk nest is detected within 0.5 mile of the Project component site, PWD shall implement the following measures: Retain a qualified biologist to prepare a Swainson's Hawk Nest Monitoring and Mitigation Plan that incorporates the following measures to avoid and minimize impacts to Swainson's hawk nests in and near the construction areas during the breeding season (March 1 to September 15): If nesting Swainson's hawks are detected within 0.5 mile of Project component activities during the breeding season, CDFW shall be consulted regarding the establishment of a no-disturbance buffer to avoid impacts to the active nest. Construction activities are necessary within the buffer zone, PWD shall consult with CDFW as to the potential for take. Monitoring of the nest site by a qualified biologist and CDFW. If a hawk is found injured during Project component activities on the Project component site, the injured hawk shall be immediately relocated to a raptor recovery center approved by CDFW. The qualified biologist shall notify CDFW personnel via telephone or email, followed by a written report that includes the date, time, location, and circumstances of the incident. PWD and its construction contractor(s) shall implement the provisions of the Swainson's Hawk Nest Swainson's hawk nests shall be prepared by the qualified biologist following the completion of Project component such as bub inter do to Provisions of the active nest to Swainson's hawk nests in an an ear the construction activities are necessary. 	
		Mitigation Measure BIO-9 : Mohave Ground Squirrel Avoidance and Minimization Measures. This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which suitable habitat for Mohave ground squirrel is identified within 50 feet of the Project component site during the habitat assessment conducted pursuant to Mitigation Measure BIO- 1. PWD shall retain a qualified biologist to conduct a focused habitat assessment (visual survey) of the Project component site following the CDFW's Mohave Ground Squirrel Survey Guidelines (CDFW 2023c) to assess the potential habitat suitability for the species. If suitable habitat is identified, protocol live-trapping surveys shall be conducted in areas of suitable habitat to assess the potential presence and relative abundance of Mohave ground Squirrel Survey Guidelines, trapping surveys shall take place over three terms in specific timing windows in the period of March 15 and July 15 immediately prior to commencement of Project component activities. If construction starts one year or more after the conclusion of surveys, PWD shall consult with CDFW as to whether additional surveys are required and shall retain a qualified biologist to conduct additional surveys if recommended by CDFW. Findings of the habitat assessment and live-trapping surveys shall be documented in a report that also details survey methodology, timing, and surveyor qualifications. If no Mohave ground squirrels are discovered	

Impact Statement	Level of	Mitigation Measure	Level of
	Significance before		Significance after
	Mitigation		Mitigation
		during the protocol surveys, no further action is required.	J.
		If Mohave ground squirrels are observed during the surveys, PWD shall retain a qualified biologist to	
		develop a Mohave ground squirrel biological monitoring plan, in coordination with CDFW, that	
		includes measures to avoid, minimize, and/or mitigate potential impacts as a result of Project	
		component activities, including, but not limited to:	
		 A qualified biologist shall conduct pre-construction clearance surveys for Mohave ground 	
		squirrel no more than 30 days prior to the start of any ground-disturbing activities in areas of the Project component site that contain suitable habitat for the species, as documented	
		in the Mohave ground squirrel habitat assessment and survey report. The survey shall	
		cover 100 percent of the anticipated impact area intersecting suitable Mohave ground	
		squirrel habitat and a 50-foot buffer (survey area). A qualified biologist shall document	
		locations of potential Mohave ground squirrel burrows. A 50-foot no-disturbance buffer	
		shall be established around suspected or known Mohave ground squirrel burrows. Project	
		component activities shall not be conducted within the no-disturbance buffer unless at the	
		discretion of the qualified biologist. A report documenting the results of the survey,	
		locations of suspected or known Mohave ground squirrel burrows, and recommended no- disturbance buffers shall be submitted to PWD for review and approval prior to	
		commencement of Project component activities in the survey area.	
		 If burrows are identified during the survey that are suspected or known to be occupied by 	
		Mohave ground squirrel and cannot be avoided, the qualified biologist shall prepare a	
		Mohave Ground Squirrel Relocation Plan outlining measures to relocate individual Mohave	
		ground squirrels prior to construction start. The plan shall be submitted to PWD and CDFW	
		for review and approval and shall be implemented prior to commencement of Project	
		component activities in work areas with suspected or known Mohave ground squirrel	
		burrows. The Plan shall outline measures for burrow excavation, handling of individuals,	
		identification of proposed relocation areas, and release of relocated individuals after the conclusion of all grading, clearing, and construction activities. A report documenting	
		relocation activities and outcomes shall be prepared by the qualified biologist and	
		submitted to PWD and CDFW for review and approval after completion of relocation	
		activities. The Plan shall also detail restoration of and/or compensatory mitigation, at a	
		minimum 1:1 ratio, of occupied Mohave ground squirrel habitat that is temporarily or	
		permanently impacted by the Project activities if required by CDFW as part of the	
1		Incidental Take Permit process pursuant to CFGC Section 2081 for the Project component.	
		 Within occupied Mohave ground squirrel habitat (as determined by the results of the forward habitat accurate and line transition aureau applies the pro- top of the second second	
		focused habitat assessment and live trapping survey results as well as the pre-construction clearance survey results), the area of disturbance of vegetation and soils shall be the	
		minimum required for the Project component. Clearing of vegetation and grading shall be	
		minimized. Wherever practicable, rather than clearing vegetation and grading access	
		routes, equipment and vehicles shall use existing surfaces or previously disturbed areas.	
		Where grading is necessary, surface soils shall be stockpiled and replaced following	
		construction. To the extent practicable, disturbance of shrubs and surface soils due to	
		stockpiling shall be minimized. A qualified biologist shall monitor Project component	
		activities during initial ground disturbance in suitable Mohave ground squirrel habitat. The	
		qualified biologist shall work with the construction foreman and crew to implement and	

Impact Statement	Level of	Mitigation Measure	Level of
	Significance		Significance
	before Mitigation		after Mitigation
		achieve compliance with the Mohave ground squirrel biological monitoring plan prepared	
		for the Project component.	
		Mitigation Measure BIO-10: Roosting Bats Avoidance And Minimization Measures	
		This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project	
		components for which suitable habitat for special-status bats is identified within the Project	
		component site during the habitat assessment conducted pursuant to Mitigation Measure BIO-1. PWD shall implement the following measures for special-status roosting bats:	
		To the extent feasible, demolition or disturbance of suitable bat roosting habitat (e.g., live	
		and dead trees, rock outcrops) shall be scheduled between October 1 and February 28,	
		outside of the maternity roosting season.	
		 If suitable roost trees must be encroached during the maternity season (March 1 to September 20) or structures must be remeved at any time of the year. BWD shall rotain a 	
		September 30) or structures must be removed at any time of the year, PWD shall retain a qualified bat specialist to conduct a pre-construction survey no more than seven days prior	
		to the start of Project component construction in a given work area to identify those trees	
		or structures proposed for disturbance that could provide hibernacula or nursery colony	
		roosting habitat for bats. The trees or structures shall be closely inspected by the bat	
		specialist to determine the presence or absence of roosting bats. If potentially suitable hibernacula or nursery colony roosting habitat for bats is not present in areas anticipated	
		to be directly impacted by Project component activities, no additional action is required.	
		Trees or structures determined to be maternity roosts shall be left in place until the end of	
		the maternity season (March 1 to September 30). Any structure containing a hibernating	
		colony shall be left in place until a qualified bat specialist determines the bats are no	
		 If bats are not detected, but the bat specialist determines roosting bats may be present at 	
		any time of year, trees or structures shall be brought down in a controlled manner using	
		heavy machinery. To ensure the optimum warning for any roosting bats that may still be	
		present, the trees or structures shall be nudged lightly two to three times, with a pause of	
		approximately 30 seconds between each nudge to allow bats to become active. Trees or	
		structures may then be pushed to the ground slowly under the supervision of a qualified bat specialist. Felled trees shall remain in place until they are inspected by a bat specialist.	
		Trees that are known to be bat roosts shall not be sawed up or mulched immediately. A	
		period of at least 48 hours shall elapse prior to such operations to allow bats to escape.	
		The bat specialist shall document all demolition monitoring activities and prepare a	
		summary report for review and approval by PWD upon completion of tree disturbance or	
		 structure demolition activities. In exceptional circumstances, such as when roosts cannot be avoided and bats cannot be 	
		evicted by non-invasive means, it may be necessary to capture and transfer the bats to	
		appropriate natural or artificial bat roosting habitat in the surrounding area. Bats raising	
		young or hibernating shall not be captured and relocated. Capture and relocation shall be	
		performed by a qualified bat specialist in coordination with CDFW requirements and shall	
		 be subject to approval by CDFW. If confirmed occupied or formerly occupied bat roosting habitat is destroyed during 	
		 Project component construction, the bat specialist shall determine the need for artificial bat 	
		roosts based on the availability and condition of suitable bat roosts in the immediate	
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Impact Statement	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
		 vicinity of the Project component site. If artificial bat roosts are deemed necessary due to a potential lack of suitable bat roosts in the area, the artificial roosts shall be of comparable size and quality and shall be constructed and maintained at a suitable undisturbed area. The design and location of the artificial bat roosts shall be determined by the bat specialist in consultation with CDFW and pursuant to the following standards: A monitoring plan shall be prepared for the replacement roosts, which shall include performance standards for the use of the replacement roosts by the displaced species, as well as provisions to prevent harassment, predation, and disease of relocated bats. The performance standards shall consider the location and condition of habitat where replacement roosts are placed and shall be sufficient to serve the number of bats estimated to be displaced by Project component impacts to suitable roosting habitat. Annual reports detailing the success of roost replacement and bat relocation. If artificial roosts are not in use by the third year of monitoring, PWD shall consult with CDFW as to larger trends in bat populations in the area that may be affecting roost use and/or determine if adjustments to roost location or design are needed. Mitigation Measure BIO-11: Woodrat Midden Avoidance And Minimization Measures This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project component site during the habitat assessment conducted pursuant to Mitigation Measure BIO shall retain a qualified biologist to conduct a pre-construction survey for active woodrat middens, shall be submitted to PWD for review and approval. If no active woodrat middens, shall be submitted to PWD for review and approval. If no active woodrat middens, shall be submitted to PWD for review and approval. If no active dovidance are observed during the pre-construction survey, no additional action shall be requ	
		 Mitigation Measure BIO-12: Preconstruction Surveys For Special-Status Wildlife Species PWD shall implement the following preconstruction surveys for special-status wildlife species: All Project Components except Palmdale Ditch Conversion Project: If suitable habitat for any special-status wildlife species with the potential to occur (e.g., western pond turtle, Northern California legless lizard, California legless lizard, California glossy snake, coast horned lizard, two-striped gartersnake, pallid bat, Townsend's big-eared bat, San Diego desert woodrat) is identified during the habitat assessment conducted pursuant to 	

Impact Statement	Level of Significance	Mitigation Measure	Level of Significance
	before		after
	Mitigation		Mitigation
		 Mitigation Measure BIO-1, pre-construction surveys shall be required prior to ground-disturbing activities. If any of these species are identified on or near construction areas during the preconstruction survey, Mitigation Measures BIO-13 through BIO-16 shall be implemented. Additional avoidance measures may include establishing a buffer around the species or host plants if a population of a special-status species is observed. Palmdale Ditch Conversion Project: PWD shall retain a qualified biologist to conduct a preactivity clearance survey for special-status reptile species no more than seven days prior to commencement of ground or vegetation disturbing activities at each work area within the Palmdale Ditch Conversion project site. The pre-activity survey shall utilize methods to detect special-status reptile species with potential to occur at the site. Prior to commencement of Palmdale Ditch Conversion project construction measures, shall be submitted in a report for review and approval by PWD, and implemented during construction activities. These measures may include, but would not be limited to, the qualified biologist conducting a sweep of the proposed impact areas before the daily start of construction in each work area in the locations where special-status reptile individuals were observed during the pre-construction survey, or have moderate or high potential to occur based on habitat suitability as determined by the qualified biologist, and avoidance of work in the sweep areas until the qualified biologist confirms special-status reptiles are on the soccur by the qualified biologist, or have been moved out of harm's way to adjacent suitable habitat by the qualified biologist. 	
		 Mitigation Measure BIO-13: General Best Management Practices. This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which special-status wildlife species are identified during the pre-construction survey conducted pursuant to Mitigation Measure BIO-12 and/or for which protected oak trees, oak woodlands, California juniper, or native desert vegetation may be impacted. PWD shall require construction contractor(s) and their personnel to adhere to the following general BMPs during construction: Construction-related vehicles shall observe a 10-mile-per-hour speed limit within the unpaved limits of construction. All open trenches or excavations shall be fenced and/or sloped to prevent entrapment of wildlife species. All food-related trash items such as wrappers, cans, bottles, and food scraps generated during construction site. No deliberate feeding of wildlife shall be allowed. No pets shall be allowed on the construction site. Vehicle or equipment maintenance shall be performed in designated staging areas. Access to the construction area outside of established work hours for the proposed Palmdale Ditch Conversion project shall be prohibited. If construction must occur at night (i.e., between dusk and dawn), all lighting shall be 	

Impact Statement	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
		 shielded and directed downward to minimize the potential for glare or spillover. During construction, heavy equipment shall be operated in accordance with standard BMPs. All equipment used on-site shall be properly maintained to avoid leaks of oil, fuel, or residues. Provisions shall be in place to remediate accidental spills. While encounters with special-status species are not anticipated, any worker who inadvertently injures or kills a special-status species or finds one dead, injured, or entrapped shall immediately report the incident to the construction foreman or biological monitor (required under Mitigation Measure BIO-16). The construction foreman or biological monitor shall immediately notify PWD. Mitigation Measure BIO-14: Work Limit Delineation This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which special-status wildlife species are identified during the pre-construction survey conducted pursuant to Mitigation Measure BIO-12 and/or for which protected oak trees, oak woodlands, California juniper, or native desert vegetation may be impacted. PWD shall clearly identify work area limits on design and construction plans and shall require its construction contractor(s) to delineate and clearly mark approved construction work area limits with flagging or temporary orange construction fencing in the field prior to initial ground disturbing activities (including, but not limited to, site preparation, staging and mobilization, vegetation clearance/mowing/trimming, grading, and excavation). The marked boundaries shall be maintained for the duration of construction activities in each work area almal be clearly visible to personnel on foot and by heavy equipment operators. Fencing or ther barriers shall be placed on the impact side of the work area limit (i.e., within the construction site boundaries) to reduce the potential for encroachment and additional vegetation, staging and mobilization, eaget sinti	
		Mitigation Measure BIO-15: Construction Worker Environmental Awareness Program This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which special-status wildlife species are identified during the pre-construction survey conducted pursuant to Mitigation Measure BIO-12 and/or for which protected oak trees, oak woodlands, California juniper, or native desert vegetation may be impacted. PWD shall retain a qualified biologist to conduct a preconstruction Worker Environmental Awareness Program (WEAP) training for all personnel working on the Project component. The WEAP shall aid workers in recognizing special-status species and regulated biological resources known to occur (e.g., western Joshua trees, sensitive natural communities, jurisdictional waters or wetlands) or potentially occurring on the Project component site (as determined by the preconstruction survey conducted pursuant to Mitigation Measure BIO-12 and the qualified biological monitor identified in Mitigation Measure BIO- 16 and as confirmed by the results of the focused surveys conducted pursuant to Mitigation Measures	

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	Significance		Significance
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		BIO-2 through BIO-11) and focus on conditions and protocols necessary to avoid and minimize	
		potential impacts to biological resources. All personnel associated with construction of the Project	
		component shall attend the WEAP training prior to initiation of construction activities (including, but	
		not limited to, site preparation, staging and mobilization, vegetation clearance/mowing/trimming,	
		grading, and excavation). The training shall include information about the special-status species	
		potentially occurring within the Project component site, identification of special-status species and	
		habitats, a description of the regulatory status and general ecological characteristics of special-status resources, and a review of the limits of construction and measures required to avoid and minimize	
		impacts to biological resources within the work area. A fact sheet conveying this information shall also	
		be prepared for distribution to all contractors, their employees, and other personnel involved with	
		construction. All employees working at the Project component construction site shall sign a form	
		provided by the trainer documenting they have attended the WEAP and understand the information	
		presented to them. The signed form shall be provided to PWD as documentation of training	
		completion. The crew foreman shall be responsible for ensuring crew members adhere to the	
		guidelines and restrictions designed to avoid impacts to special-status species and other regulated biological resources. If new personnel are brought onto the Project component after completion of the	
		initial WEAP training, the training shall be conducted for all new personnel before they can participate	
		in Project component construction activities. Construction personnel shall be instructed to not directly	
		harm any special-status species on site by halting activities until the species can move to off-site areas	
		or contact a qualified biologist to move the species out of harm's way, if appropriate.	
		Mitigation Measure BIO-16: Qualified Biological Monitor	
		This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project	
		components for which special-status wildlife species are identified during the pre-construction survey	
		conducted pursuant to Mitigation Measure BIO-12 and/or for which protected oak trees, oak	
		woodlands, California juniper, or native desert vegetation may be impacted. PWD shall retain a qualified biological monitor with relevant experience with the taxa and species in the Antelope Valley	
		desert and mountain foothills for which pre-construction surveys, monitoring, or other support is	
		required during Project component construction (potentially including, but not limited to, special-	
		status plants, Northern California legless lizard, coast horned lizard, raptors, nesting birds, roosting	
		bats, woodrats, and those special-status species with potential to occur based on the results of pre-	
		activity and focused surveys conducted prior to Project component initiation in accordance with	
		Mitigation Measures BIO-2 through BIO-12 and Mitigation Measure BIO-17). The qualified biologist	
		role may be satisfied by one or more individuals depending on qualifications and experience with one	
		or more species and taxa. The qualified biologist shall be present during initial ground disturbance or vegetation removal activities and shall have the authority to temporarily stop work if one or more	
		special-status species are observed that may be impacted by Project component activities. The	
		biologist shall relocate special-status amphibian, reptile, or mammals present within anticipated	
		Project component impact areas to suitable undisturbed habitat outside the areas directly and	
		indirectly affected by construction activities. The biologist shall hold the requisite incidental take	
		permits or authorizations for the capture and handling of the species, if applicable.	
		The biologist shall recommend measures to ensure compliance with avoidance and minimization	
		measures, applicable permit conditions, and conditions required for observed special-status species.	
		 When the biologist is present on site, they shall be responsible for: Verifying Project compliance with environmental mitigation measures and requirements; 	
	2.02	- verifying roject compliance with environmental mitigation measures and requirements,	

Impact Statement	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
		 Establishing lines of communication and reporting methods in coordination with the construction crew foreman and PWD; Conducting pre-construction clearance sweeps for special-status species and nesting birds, as needed; Documenting special-status species observations; Recommending preventative or protective actions to avoid and minimize potential Project impacts to regulated biological resources where feasible; Recommending actions to be taken in the event of non-compliance; and Daily and weekly reporting of compliance. Monitoring logs documenting the above shall be submitted to PWD for review and approval for the duration of Project component construction. Mitigation Measure BIO-17: Nesting Bird Surveys And Avoidance And Minimization Measures This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which suitable habitat for nesting birds is identified during the habits shall occur outside of the bird breeding season (February 1 to August 31) to the extent practicable. If construction must commence within the bird breeding season, PWD shall retain a qualified biologist to conduct a pre-construction nesting bird survey within the disturbance foorprint plus a <u>minimum buffer of 100 feet to a maximum buffer of 500 feet depending on species, work activity, and existing ambient conditions, 100 foot buffer (300 feet for raptors), where feasible, no more than sewn days prior to initiation of ground disturbance (including, but not limited to, site preparation, staging and mobilization, vegetation clearance/mowing/trimming, grading, and exavation) in each work area. If the Project component is phased or construction activities stop for more than one week, a subsequent pre-construction nesting bird survey shall be conducted during the time of day when birds are active and shall factor in sufficient time to perform this survey adequately and completely. A brief rep</u>	
		Mitigation Measure BIO-18: Invasive Plant Species Control Measures For the Palmdale Ditch Conversion project and other Project components for which protected oak trees, oak woodlands, California juniper, or native desert vegetation may be impacted, PWD shall require the construction contractor(s) and their construction personnel to ensure equipment is free of	

Impact Statement	Level of	Mitigation Measure	Level of
	Significance		Significance
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	Mitigation		Mitigation
		invasive plant seeds, propagules, and any material which may contain them (e.g., soil). For purposes of	
		this mitigation measure, invasive plant species shall include all species with a California Invasive Plant	
		Council rating of moderate or high. Prior to entering the construction site, equipment shall be	
		inspected to confirm it is free of mud, dirt, and debris. Tire track stations shall be installed at	
		construction site entrances and exits. Staging areas and access routes shall avoid weed infestations, and infestations within the work area(s) shall be flagged and avoided to the maximum extent feasible.	
		Only certified weed-free materials (e.g., fiber rolls, straw, and fill) shall be used during construction.	
		Mitigation Measure BIO-19: Sensitive Natural Communities And Jurisdictional Features Avoidance.	
		Minimization Measures	
		Sensitive natural communities and jurisdictional features identified for avoidance within the Project	
		component site shall be demarcated using brightly colored flagging, as necessary, and avoided to the	
		extent feasible during Project component construction. The marked boundaries shall be maintained for	
		the duration of Project component construction activities in each work area and shall be clearly visible	
		to personnel on foot and by heavy equipment operators. Construction personnel shall be instructed to	
		avoid these areas as much as feasible. All temporary flagging shall be removed only after the	
		conclusion of all grading, clearing, and construction activities at each construction site. Compliance	
		with this measure shall be documented in the biological monitoring reporting, if required under	
		Mitigation Measure BIO-16.	
		In addition, PWD shall require its construction contractor(s) and their personnel to implement the	
		<u>following measures:</u>	
		<u>Any material/spoils generated from construction shall be located away from sensitive</u>	
		natural communities and jurisdictional features and protected from stormwater run-off	
		using temporary perimeter sediment barriers such as berms, silt fences, fiber rolls, covers, sand/gravel bags, and straw bale barriers, as appropriate.	
		 <u>Materials, hand-held equipment and other non-heavy or non-vehicle equipment shall be</u> 	
		stored on impervious surfaces or plastic ground covers to prevent any spills or leakage	
		from contaminating the ground and generally at least 50 feet from sensitive natural	
		communities and jurisdictional areas.	
		 Any spillage of material shall be stopped if it can be done safely. The contaminated area 	
		shall be cleaned, and any contaminated materials shall be properly disposed of. For all	
		spills, the Project foreman and biological monitor (if required under Mitigation Measure	
		BIO-16) shall be notified.	
		If impacts to sensitive natural communities cannot be avoided, PWD shall identify compensatory	
		mitigation prior to disturbance of the features. Mitigation may take the form of permittee-responsible,	
		on-site or off-site mitigation or the purchase of credits from an approved mitigation bank or through	
		applicant-sponsored mitigation (e.g., purchase and/or dedication of land for mitigation). If required,	
		compensatory mitigation for unavoidable impacts to sensitive vegetation communities shall be	
		accomplished at a minimum ratio of 1:1; however, the final ratio shall be determined and approved by	
		CDFW if a Lake or Streambed Alteration Agreement pursuant to CFGC Section 1602 or Incidental Take	
		Permit pursuant to CFGC Section 2081 is required for the Project component. If on-site or off-site	
		restoration would occur, PWD shall retain a qualified biologist to develop a Habitat Revegetation. Restoration, and Monitoring Program and submitted for CDFW approval prior to the commencement	
		of Project component construction (including, but not limited to, site preparation, staging and	
		mobilization, vegetation clearance/mowing/trimming, grading, and excavation). At a minimum, the	
	I	moundation, vegetation clearance/mowing/ammining, grading, and excavation). At a millimum, the	

Impact Statement	Level of Significance	Mitigation Measure	Level of Significance
	before Mitigation		after Mitigation
		program shall include the following: • A description of the purpose and goals of the restoration • Identification of success criteria and performance standards • Methods of site preparation, including topsoil salvage and replacement procedures • Irrigation plan and schedule • Best Management Practices (BMPs) • Adaptive management strategies • Key stakeholders and responsible parties • Funding • Contingencies Mitigation Measure BIO-20: Aquatic Resources Delineation and Compensatory Mitigation An aquatic resources delineation shall be conducted to determine the limits of potential jurisdictional aquatic resources delineation shall be used during proposed Project component. The results of the aquatic resources can be avoided. If aquatic resources within Project component sites shall be implemented according to Mitigation Measure BIO-19. If impacts to jurisdictional waters and wetlands cannot be avoided, PWD shall identify compensatory mitigation for impacts to the jurisdictional waters and wetlands cannot be avoided, PWD shall identify compensatory mitigation for areas (concrete, synthetic liner, leavated flume) and its controlled flow that fluctuates in quantity and timing from year to year depending on annual climatic conditions and available water supply in Littlerock Reservoir. Compensatory mitigation for impacts to other jurisdictional waters and wetands shall be provided at a minimum 1:1 ratio, unless a higher r	

Impact Statement	Level of	Mitigation Measure	Level of
	Significance		Significance
	before		after
	Mitigation		Mitigation
		Mitigation Measure BIO-21: Groundwater-Dependent Ecosystems If the proposed Project (particularly rehabilitation of groundwater wells 6A, 15, 18, 19, 30, and/or 33 and/or replacement wells) is in proximity to mapped groundwater dependent ecosystems (GDEs), then representative groundwater monitoring stations shall be installed within GDEs to track groundwater levels and vegetation responses over time. Prior to implementation of the proposed Project, the GDEs that may potentially be affected by the proposed Project shall be mapped to identify the baseline conditions, including the extent of vegetation communities (e.g., via vegetation mapping on the ground and via remote sensing) and composition of vegetation (e.g., percent cover via transects on the ground) that comprises each vegetation community. Baseline data shall be collected, and long-term monitoring shall be conducted for areas of potential affect as well as representative control sites with similar conditions (to account for other variables, such as changes in climate, precipitation, etc.). Thresholds for changes in vegetation over time shall be established prior to proposed Project implementation (e.g., greater than 20 percent vegetation decline that correlates with increased pumping and decreased groundwater levels). Monitoring shall be conducted for a minimum 5-year period following any increase in groundwater pumping that is beyond the existing range of pumping currently conducted (i.e., prior to the Project) for the life of the proposed Project. If there is no impact to GDEs are impacted by the proposed Project, then adaptative management measures shall be implemented to reduce pumping to changes in vegetation to allow for re-establishment of vegetation communities to pre-existing conditions, which will be determined by monitoring well levels and GDE vegetative cover) are obtained. Alternatively, if adaptive management measures cannot be implemented to reduce pumping and re-establish pre-existing conditions, then mitigation for permanent impacts t	
		than 1:1 may include the purchase of mitigation credits at an off-site mitigation bank or in-lieu fee program.	
BIO-2: The proposed project could have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the CDFW or USFWS.	PS	Mitigation Measure BIO-19: <u>Above, shall apply</u> Sensitive Natural Communities And Jurisdictional Features Avoidance, Minimization Measures Sensitive natural communities and jurisdictional features identified for avoidance within the Project component site shall be demarcated using brightly colored flagging, as necessary, and avoided to the extent feasible during Project component construction. The marked boundaries shall be maintained for the duration of Project component construction activities in each work area and shall be clearly visible to personnel on foot and by heavy equipment operators. Construction personnel shall be instructed to avoid these areas as much as feasible. All temporary flagging shall be removed only after the conclusion of all grading, clearing, and construction activities at each construction site. Compliance with this measure shall be documented in the biological monitoring reporting, if required under Mitigation Measure BIO-16. In addition, PWD shall require its construction contractor(s) and their personnel to implement the following measures:	LSM

Impact Statement	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
		 sand/gravel bags, and straw bale barriers, as appropriate. Materials, hand-held equipment and other non-heavy or non-vehicle equipment shall be stored on impervious surfaces or plastic ground covers to prevent any spills or leakage from contaminating the ground and generally at least 50 feet from sensitive natural communities and jurisdictional areas. Any spillage of material shall be stopped if it can be done safely. The contaminated area shall be cleaned, and any contaminated materials shall be properly disposed of. For all spills, the Project foreman and biological monitor (if required under Mitigation Measure BIO-16) shall be notified. If impacts to sensitive natural communities cannot be avoided, PWD shall identify compensatory mitigation prior to disturbance of the features. Mitigation may take the form of permittee-responsible, on-site or off-site mitigation or the purchase of credits from an approved mitigation bank or through applicant-sponsored mitigation (e.g., purchase and/or dedication of land for mitigation). If required, compensatory mitigation for unavoidable impacts to sensitive vegetation communities shall be accomplished at a minimum ratio of 1:1; however, the final ratio shall be determined and approved by CDFW. If a Lake or Streambed Alteration Agreement pursuant to CFGC Section 1602 or Incidental Take Permit pursuant to CFGC Section 2081 is required for the Project component. If on-site or off-site restoration would occur, PWD shall retain a qualified biologist to develop a Habitat Revegetation, Restoration, and Monitoring Program and submitted for CDFW approval prior to the commencement of Project component construction (including, but not limited to, site preparation, staging and mobilization, vegetation of success criteria and performance standards Methods of site preparation, including topsoil salvage and replacement procedures Irrigation plan and schedule Best Management Practices (BMPs)	
3.4 Cultural Resources and Tribal Resources			
CUL-1: Cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines Section 15064.5.	PS	Mitigation Measure CUL-1: Cultural Resources Professional Qualifications Standards PWD shall retain an archaeologist and architectural historian meeting the minimum professional qualifications standards set forth by the Secretary of the Interior (SOI) (codified in 36 Code of Federal Regulations [CFR] Part 61; 48 FR 44738-44739) (Qualified Archaeologist and Qualified Architectural Historian) to oversee the implementation of all mitigation related to cultural resources. All cultural resources documentation resulting from the program shall be filed with the South-Central Coastal Information Center upon document completion.	SU
		Mitigation Measure CUL-2: Historic Resources Assessment	

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		Prior to Project-related construction activities involving demolition or alteration of buildings and/or structures or the construction of above ground infrastructure, the Qualified Architectural Historian shall conduct a historic resources assessment of affected properties over 45 years in age. The assessment shall include a records search at the South-Central Coastal Information Center or review of a prior record search conducted within the previous one year; a review of other pertinent archives and sources; a pedestrian field survey; recordation of all identified historic architectural resources on California Department of Parks and Recreation 523 forms; evaluation of resources which may be eligible for listing in the California Register under Criteria 1-4 (i.e., meets the definition for historical resource in CEQA Guidelines subdivision 15064.5[a]), and for local listing; and preparation of a technical report documenting the methods and results of the assessment. If a historic architectural resource is found eligible, the Qualified Architectural Historian shall coordinate with the PWD to ensure the Project component is constructed in a manner consistent with the Secretary of the Interior's Standards.	
		Mitigation Measure CUL-3: Archaeological Resources Assessment	
		Prior to development of previously unevaluated Project components that involve ground disturbance, PWD shall retain a Qualified Archaeologist, defined as meeting the Secretary of the Interior's Professional Qualification Standards for archaeology (codified in 36 CFR Part 61; 48 FR 44738-44739), to conduct an archaeological resources assessment including: a records search update at the South Central Coastal Information Center; a pedestrian field survey, where deemed appropriate by the Qualified Archaeologist; recordation of all identified archaeological resources on California Department of Parks and Recreation 523 forms; and preparation of a technical report documenting the methods and results of the study, and providing an assessment of the Project area's archaeological sensitivity and the potential to encounter subsurface archaeological resources and human remains. All identified archaeological resources shall be assessed for the Project's potential to result in direct and/or indirect effects to those resources and any archaeological resource that cannot be avoided shall be evaluated for its potential significance prior to PWD's approval of Project plans and publication of subsequent CEQA documents. The Qualified Archaeologis shall provide recommendations regarding archaeological monitoring to be conducted in accordance with Mitigation Measure CUL-4, protection of avoided resources and/or recommendations for additional work or treatment of significant resources that will be affected by the Project.	
		Mitigation Measure CUL-4: Construction Worker Cultural Resources Sensitivity Training	
		For Project components involving ground disturbance, the Qualified Archaeologist shall implement a cultural resources sensitivity training program. The Qualified Archaeologist, or their designee, shall instruct all construction personnel of the types of archaeological resources cultural materials that may be encountered, cultural sensitivity issues, applicable laws protecting cultural resources, the proper treatment procedures to be enacted in the event of an inadvertent discovery of archaeological cultural resources, and confidentiality of discoveries. Tribal representatives from each of the tribes consulting on the Palmdale Ditch Conversion Project shall be allowed to attend and/or participate in the training should they elect to and shall be given a minimum of ten days' notice prior to the training. In the event that construction crews are phased, additional trainings shall be conducted for new construction personnel. The PWD, or	
		their construction contractor(s), shall ensure construction personnel are made available for and attend	

Impact Statement	Level of	Mitigation Measure	Level of
	Significance before Mitigation		Significance after Mitigation
		the training. PWD shall retain documentation demonstrating attendance.	
		Mitigation Measure CUL-5: Archaeological Resources Monitoring	
		Archaeological monitoring shall be required for programmatic Project components and for the Palmdale Ditch Conversion Project as outlines below.	
		 Proposed Project Requirements. Archaeological monitoring shall be determined by the Qualified Archaeologist based on the results of the archaeological resources assessment conducted under CUL-3 and requires the preparation of a Cultural Resources Monitoring Plan (CRMP) prior to the start of Project-related ground disturbance. The CRMP should discuss the monitoring protocols to be carried out during Project construction and should outline the appropriate measures to be followed in the event that cultural resources are encountered and outline requirements for the final monitoring report. In general, for ground - disturbing activities in geologic units/sediments of Higher Sensitivity for encountering subsurface prehistoric archaeological resources or human remains, full time archaeological monitoring shall be conducted, unless the Qualified Archaeologist has established as part of the archaeological assessment that previous disturbances have reduced the sensitivity for prehistoric archaeological resources to the extent that no or limited archaeological monitoring as part of the Project. If the Qualified Archaeologist determines as a result of the archaeological assessment that areas proposed for ground disturbance may be sensitive for historic-period archaeological resources, those areas shall also be subject to anchaeological monitoring at a frequency determined by the Qualified Archaeologist. In all cases, the Qualified Archaeologist shall have the discretion to modify the frequency of monitoring based on soils and stratigraphy observed, the extent of past disturbances, and the type of construction methods such as tunneling and well drilling where soil profiles and spoils are not observable to monitor(s) shall be familiar with the types of resources that could be encountered and shall work under the direct supervision of the Qualified Archaeological monitoring will not be required of activities and spoils are not observable to monitors. The archaeological monitor(s) shall be familiar with the types	
		 Palmdale Ditch Conversion Project Requirements. Prior to the start of Project-related ground-disturbing activities, a qualified archaeologist shall be retained to prepare a CRMP and provide archaeological monitoring for the Project. The CRMP shall discuss the 	
Palmdale Water District	3-99	monitoring protocols to be carried out during Project construction and shall outline the Woodard & Curran.	Inc

Impact Statement	Level of	Mitigation Measure	Level of
	Significance before Mitigation		Significance after Mitigation
		appropriate measures to be followed in the event that cultural resources are encountered. The CRMP shall be submitted to Palmdale Water District (PWD) for dissemination to the tribes consulting on the Project. Once all parties review and agree to the plan, it shall be adopted by PWD – the plan must be adopted prior to permitting for the Project. Any and all findings shall be subject to the protocol detailed within the CRMP. A copy of the final CRMP shall be provided to PWD (and United States Bureau of Reclamation [USBR]/United States Forest Service [USFS], depending on land jurisdiction) and the tribes consulting on the Project upon completion. Archaeological monitoring shall be limited to initial ground disturbance, which is defined as construction-related earthmoving of sediments from their native place of deposition (which includes, but is not limited to, tree/shrub removal and planting, clearing/grubbing, grading, leveling, excavation, trenching, compaction, plowing, fence/gate removal and installation, drainage and irrigation removal and installation, hardscape installation [boulders, walls, etc.], and archaeological work) and does not include any secondary movement of sediment that might be required for the Project (e.g., backfilling). Archaeological monitoring shall be performed under the direction of an archaeologist meeting the Secretary of the Interior's Professional Qualification Standards for archaeological Monitoring shall hal, and the find shall be evaluated for listurbing activities, work within 60 feet of the find shall halt, and the find shall be evaluated for listurbing in the California Register of Historic Resources (CRHR)/National Register of Historic Places (NRHP). A sufficient number of archaeological monitors shall be present each workday to ensure simultaneously-occurring ground-disturbing activities receive thorough levels of monitoring coverage. Archaeological monitoring may be reduced or halted at the discretion of PWD (and USBR/USFS, depending on land jurisdiction), in consultation	
		Mitigation Measure CUL-6: Archaeological Resources Discoveries	
		In the event that archaeological cultural resources are unexpectedly encountered during ground- disturbing activities, work within 60 feet of the find shall halt, an Environmentally Sensitive Area physical demarcation/barrier installed, and a qualified archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service 1983) contacted immediately to evaluate the resource. If the resource is determined by the qualified archaeologist to be prehistoric Native American in origin, then a Native American representative from the tribes consulting on the Project shall also be contacted to participate in the evaluation of the resource. If the qualified archaeologist and/or Native American representative from the tribes consulting on the Project determines it to be appropriate, archaeological testing for CRHR/NRHP eligibility shall be	

Impact Statement	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
		completed. If the resource proves to be eligible for the CRHR/NRHP and significant impacts to the resource cannot be avoided via Project redesign, a qualified archaeologist shall prepare a data recovery plan tailored to the physical nature and characteristics of the resource, pursuant to the requirements of CEQA Guidelines Section 15126.4(b)(3)(C). Should the find be prehistoric deemed Native American in origin, all plans for analysis shall be reviewed and approved by PWD (and USBR/USFS, depending on land jurisdiction) and the tribes consulting on the Project prior to implementation, and all removed material shall be temporarily curated on site. The data recovery plan shall identify data recovery excavation methods, measurable objectives, and data thresholds to reduce any significant impacts to the resource. Pursuant to the data recovery plan, the qualified archaeologist and Native American representative(s) from the tribes consulting on the Project, as appropriate, shall recover and document the scientifically consequential information that justifies the resource's significance. PWD shall review and approve the treatment plan and archaeological testing as appropriate, and the resulting documentation shall be submitted to the regional repository of the California Historical Resources Information System, pursuant to CEQA Guidelines Section 15126.4(b)(3)(C). PWD shall work with the tribes consulting on the Project site in a location free from future disturbance and share the location with the tribes consulting on the Project. Items recovered from USFS lands must be curated in accordance with 36 CFR 79 and cannot be reburied. All draft records/reports containing the significance and there the significance and the significance and the significance and the attendending and data recovery results shall be prepared by the qualified archaeologist and submitted to PWD (and USBR/USFS, depending on land jurisdiction) and the tribes consulting on the Project, demoting and late recored resultshall be prepared by the qualifie	
		Mitigation Measure CUL-7: Curation and Disposition of Cultural Materials	
		PWD shall arrange curation for all Native American archaeological materials, with the exception of funerary objects or grave goods (i.e., artifacts associated with Native American human remains). For eligible Native American archaeological materials, the PWD shall first consider repositories that are accredited by the American Association of Museums and that meet the standards outlined in 36 CFR 79.9. If a suitable accredited repository is not identified, then the PWD shall consider non-accredited repositories as long as they meet the minimum standards set forth by 36 CFR 79.9. If a suitable non-accredited repository is not identified, then the PWD shall consider non-accredited repositories as long as they meet the minimum standards set forth by 36 CFR 79.9. If a suitable non-accredited repository is not identified, then the PWD shall donate the collection to a local California Native American Tribe(s). Ineligible archeological materials shall also be donated to a local California Native American Tribe(s). If neither an accredited or non-accredited repository or Tribe accepts the collection, then the PWD may offer the collection to a public, non-profit institution with a research interest in the materials, or to a local school or historical society in the area for educational purposes. Disposition of Native American human remains and associated funerary objects or grave goods shall be determined by the landowner in consultation with the PWD and the Most Likely Descendant (MLD).	
		The PWD shall curate all eligible historic-period archaeological material, or portions thereof at the discretion of the Qualified Archaeologist, at a repository accredited by the American Association of Museums that meets the standards outlined in 36 CFR 79.9. If no accredited repository accepts the collection, then the PWD may curate it at a non-accredited repository as long as it meets the minimum standards set forth by 36 CFR 79.9. If neither an accredited nor a non-accredited repository accepts the	

Impact Statement	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
		collection, then the PW may offer the collection to a public, non-profit institution with a research interest in the materials, or to a local school or historical society in the area for educational purposes.	
		Mitigation Measure CUL-8: Historic American Engineering Survey-Like Documentation Package	
		Prior to the demolition of the Palmdale Ditch (CA-LAN-1534H), PWD should document the structure in a Historic American Engineering Record -like documentation package. The report shall generally comply with the Secretary of the Interior's Standards and Guidelines for Architectural and Engineering Documentation (68 Federal Register 43159), Level III. At a minimum, the Historic American Engineering Record Historical Report should include digital photographs of views of Palmdale Ditch and a short-form narrative historical report. Digital copies of the Historic American Engineering Record-like documentation package should be made available to the Los Angeles County Library Acton Agua Dulce Branch and the Palmdale City Library.	

DRAFT EIR CHAPTER 2 PROJECT DESCRIPTION

Text in the Draft EIR in Chapter 2 Project Description on page 2-10 has been revised accordingly to provide clarification, and reads as follows:

These include carryover water, "Article 21" water, and turnback pool water <u>Water</u> <u>Management Amendment</u> which are defined as:

- **Carryover water** is Table A water that is allocated to a contractor but not used by the end of the SWP contract year. If space is available, contractors may store up to 5,000 acre-feet (AF) of Table A water in the part of the San Luis Reservoir owned by the SWP for delivery the following year. However, if the San Luis Reservoir must spill that season, the contractor's carryover water will be lost. PWD has stored an average of 2,442 AFY of this water from 2011 and 2021.
- Article 21 water is additional water that PWD may receive temporarily, in addition to its approved Table A water. This water is only offered occasionally, usually in wet hydrologic years, when there is more water in the Delta than the SWP contractors are entitled to. Historically, PWD has not received much of its water. Between 2011 and 2021, PWD has received a total of 335 AFY of Article 21 water.
- **Turnback pools** are a mechanism for contractors with extra Table A water to sell their water back to other contractors. Since 2011, PWD has only brought about 26 AF of water from turnback pools to supplement its water supplies.
- Water Management Amendment allows SWP contractors to buy or sell their <u>Table A, Carryover water, previously banked Table A water, and Article 21 water</u> <u>with each other.</u>

The text in the Draft EIR on page 2-12 under Section 2.5-2 Recycled Water has been revised to as follows:

The Palmdale Water Reclamation Plant currently provides tertiary treatment for approximately 12,000 <u>10,200</u> AFY of wastewater generated in and around the City and produces an average of 10,700 <u>9,000</u> AFY of Title 22 recycled water. A contract with LACSD entitles PWD to up to 5,325 AFY of recycled water. There is also an agreement with the LACSD for 2,000 AFY of recycled water to provide to customers throughout the City's service area, which has since been transferred to PRWA.

The City is a recycled water customer through PRWA for landscape irrigation and construction water. The remaining portion of Palmdale Water Reclamation Plant recycled water is <u>beneficially</u> used for agricultural irrigation.

The following sentence has been added to the second paragraph on page 2-15 of Chapter 2 Project Description:

...The 2020 Well Rehabilitation Prioritization Program noted that a well site assessment and preliminary design had been completed on two potential new replacement production wells, designated Well 36 and 37, which would be situated in the north wellfield (pressure zone 2800). <u>However, siting of wells will take into account a number</u> <u>of factors including groundwater production rates, district owned facilities, potential</u> <u>environmental effects, cost, and other engineering factors and may occur anywhere</u> <u>within the PWD boundaries.</u> No CEQA documentation was prepared for the 2020 Well Rehabilitation Prioritization Program.

On page 2-38 Table 2-7: Regulatory Requirements and Authorizations and Approvals was updated to reflect this required easement.

Agency	Type of Approval	Water Supply Element
California Department of Fish and Wildlife	Section 1602 Streambed Alteration Agreement	Local Supplies – Palmdale Ditch
California Department of Fish and Wildlife	Incidental Take Permit	Conversion Local Supplies – Palmdale Ditch Conversion
Antelope Valley Air Quality Management District (AVAQMD)	Permit to Construct and Operate	Local Supplies – Palmdale Ditch Conversion
LA Metro	License Agreement, Encroachment Permit	Local Supplies – Palmdale Ditch Conversion
Metrolink	Encroachment Permit	Local Supplies – Palmdale Ditch Conversion
Los Angeles County	Grading Permit, Road Permit, Encroachment Permit	Local Supplies – Palmdale Ditch Conversion
Los Angeles County Sanitation District	Industrial Wastewater (IW) Discharge permit; Trunk Sewer Connection permit to discharge brine or other wastewater into sewerage system	Recycled Water – Pure Water Antelope Valley
Los Angeles County Sanitation District	Submittal of detailed project plans and specifications	Groundwater - injection wells and conveyance pipelines Recycled Water – Pure

Agency	Type of Approval	Water Supply Element
		Water Antelope Valley
Los Angeles County Sanitation	Sewer easement	Recycled Water – Pure
District		Water Antelope Valley
Los Angeles County Airport	Submittal of plans for facilities	Recycled Water – Pure
Land Use Commission	occurring within the Palmdale	Water Antelope Valley
	Regional Airport airport	
	influence area prior to final	
	design	
Federal Aviation Administration	Notice of Proposed	Recycled Water – Pure
	Construction or Alteration	Water Antelope Valley
Los Angeles Department of	Encroachment Permit	Local Supplies –
Water and Power		Palmdale Ditch
	Francescherent Darmit, Gradian	Conversion
City of Palmdale	Encroachment Permit, Grading Permit	Local Supplies – Palmdale Ditch
	Fernit	Conversion
U.S. Army Corps of Engineers	Clean Water Act Section 404	Local Supplies –
C.S. Anny Corps of Engineers	Permit	Palmdale Ditch
		Conversion
United States Forest Service	Special Use Permit	Local Supplies –
		Palmdale Ditch
		Conversion
Lahontan Regional Water	Clean Water Act Section 401	Local Supplies –
Quality Control Board	Water Quality Certification	Palmdale Ditch
		Conversion
State Water Resources Control	Approval of the SWPPP under	Local Supplies –
Board	the statewide NPDES	Palmdale Ditch
	Construction General Permit	Conversion
State Water Resources Control	Water Supply Permit	Recycled Water – Pure
Board	Amendment	Water Antelope Valley
<u>California Department of</u>	Transportation Permit	All
Transportation	Encroachment Permit for	Local Supplies
California Department of Water Resources	facilities that cross the	Local Supplies – Palmdale Ditch
Nesources	California Aqueduct	Conversion
California Department of Water	Encroachment Permit, Turnout	Local Supplies –
Resources	Agreement	Palmdale Ditch
		Conversion
California Division of	Mining and Tunneling Unit	Local Supplies –
Occupational Safety and Health	Permit	Palmdale Ditch
		Conversion

DRAFT EIR SECTION 3.1 AESTHETICS

Text in the Draft EIR Section 3.1 Aesthetics on page 3.1-17 has been revised accordingly to provide clarification, and reads as follows:

IMPACT AES-3 FINDINGS

Significance before Mitigation: Potentially Significant Less than Significant

Mitigation Measures: Mitigation Measures AES-1, AES-2, AES-3.

Significance after Mitigation: Less than Significant after Mitigation Incorporated

DRAFT EIR SECTION 3.2 AIR QUALITY AND GREENHOUSE GAS EMISSIONS

Text in the Draft EIR in Section 3.2 Air Quality and Greenhouse Gas Emissions on page 3.2-24 has been revised accordingly to provide clarification, and reads as follows:

As such, **Mitigation Measures AIR-1** through **AIR-3** would apply to the construction phase. Implementation of **Mitigation Measures AIR-1**, **AIR-2**, and **AIR-3** would reduce constructionrelated emissions to below significance thresholds. Impacts would be less than significant <u>with</u> <u>mitigation incorporated</u>.

DRAFT EIR SECTION 3.3 BIOLOGICAL RESOURCES

On page 3.3-70, Impact Findings for Impact BIO-1 is revised as follows:

IMPACT BIO-1 FINDINGS

Significance before Mitigation: Potentially Significant

Mitigation Measures: Mitigation Measures BIO-1 through BIO-18, BIO-20 and BIO-21.

Significance Determination: Less than Significant with Mitigation.

Mitigation Measure BIO-2: Special-Status Plant Surveys, Avoidance Measures, Mitigation and Monitoring in the Draft EIR in Section 3.3 Biological Resources on page 3.3-89 has been revised accordingly in response to comment:

Mitigation Measure BIO-2: Special-Status Plant Surveys, Avoidance Measures, Mitigation and Monitoring Plan

[...]

 Criteria and performance standards by which to measure the success of the mitigation, including replacement of impacted plants at a minimum 1:1 ratio, to be determined in consultation with CDFW if a Lake or Streambed Alteration Agreement pursuant to CFGC Section 1602 or Incidental Take Permit pursuant to CFGC Section 2081 is otherwise required for the Project component;

Mitigation Measure BIO-3: Joshua Tree Census Survey, Avoidance, Minimization and Compensation Measures on page 3.3-90 has been revised accordingly in response to comment:

Mitigation Measure BIO-3: Joshua Tree Census Survey, Avoidance, Minimization, and Compensation Measures

[...]

- PWD shall submit payment of an in-lieu fee to CDFW pursuant to CDFW's standard mitigation fee structure for western Joshua tree in effect at the time of application for an Incidental Take Permit. The current (2024) standard mitigation fee structure is as follows:
 - ☐ Trees five meters or greater in height \$2,500 per tree
 - Trees one meter or greater but less than 5 meters in height \$500 per tree
 - Trees less than one meter in height \$340 per tree

Mitigation Measure BIO-4: Arroyo Toad, Desert Tortoise, Tricolored Blackbird, and Least Bell's Vireo Avoidance, Minimization and Compensation Measures on page 3.3-91 has been revised accordingly in response to comment:

Mitigation Measure BIO-4: Arroyo Toad, Desert Tortoise, Tricolored Blackbird, and Least Bell's Vireo Avoidance, Minimization and Compensation Measures

[...]

If the proposed Project results in permanent impacts to habitat occupied by specialstatus wildlife species, USFWS and CDFW shall be consulted to ensure compliance with the Endangered Species Act and/or requirements for avoidance, minimization, or mitigation measures (e.g., replacement of impacted occupied habitat at a minimum 1:1 ratio, to be determined in consultation with USFWS and/or CDFW, as applicable).

Mitigation Measure BIO-5: Crotch's Bumble Bee Avoidance, Minimization, and Compensation Measures on page 3.3-92 has been revised accordingly in response to comment:

Mitigation Measure BIO-5: Crotch's Bumble Bee Avoidance, Minimization, and Compensation Measures

[...]

 If Crotch's bumble bee is determined to be present on the Project component site, floral resources associated with the species that will be removed or damaged by Project component activities in the areas of the Project component site where Crotch's bumble bee is detected and documented shall be replaced at a <u>minimum</u> 1:1 ratio, to be determined in consultation with CDFW as part of the Incidental Take Permit process pursuant to CFGC Section 2081 for the Project component. Planning and implementation of suitable habitat replacement may be integrated into the Habitat Revegetation, Restoration, and Monitoring Program described under Mitigation Measure BIO-19.

Mitigation Measure BIO-9: Mohave Ground Squirrel Avoidance and Minimization Measures on page 3.3-97 has been revised accordingly in response to comment:

Mitigation Measure BIO-9: Mohave Ground Squirrel Avoidance and Minimization Measures

[...]

If burrows are identified during the survey that are suspected or known to be occupied by Mohave ground squirrel and cannot be avoided, the qualified biologist shall prepare a Mohave Ground Squirrel Relocation Plan outlining measures to relocate individual Mohave ground squirrels prior to construction start. The plan shall be submitted to PWD and CDFW for review and approval and shall be implemented prior to commencement of Project component activities in work areas with suspected or known Mohave ground squirrel burrows. The Plan shall outline measures for burrow excavation, handling of individuals, identification of proposed relocation areas, and release of relocated individuals after the conclusion of all grading, clearing, and construction activities. The Plan shall also detail restoration of and/or compensatory mitigation, at a minimum 1:1 ratio, of occupied Mohave ground squirrel habitat that is temporarily or permanently impacted by the Project activities if required by CDFW as part of the Incidental Take Permit process pursuant to CFGC Section 2081 for the Project component. A report documenting relocation activities and outcomes shall be prepared by the gualified biologist and submitted to PWD and CDFW for review and approval after completion of relocation activities.

Mitigation Measure BIO-17: Nesting Bird Surveys and Avoidance and Minimization Measures on page 3.3-104 has been revised in response to comment:

Mitigation Measure BIO-17: Nesting Bird Surveys and Avoidance and Minimization Measures

This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which suitable habitat for nesting birds is identified during the habitat assessment conducted pursuant to Mitigation Measure BIO-1. Project component construction activities shall occur outside of the bird breeding season (February 1 to August 31) to the extent practicable. If construction must commence within the bird breeding season, PWD shall retain a qualified biologist to conduct a preconstruction nesting bird survey within the disturbance footprint plus a <u>minimum buffer of 100 feet to a maximum buffer of 500 feet depending on species, work activity, and existing ambient conditions 100-foot buffer (300 feet for raptors), where feasible, no more than seven days prior to initiation of ground disturbance (including, but not limited</u>

to, site preparation, staging and mobilization, vegetation clearance/mowing/trimming, grading, and excavation) in each work area. If the Project component is phased or construction activities stop for more than one week, a subsequent pre-construction nesting bird survey shall be conducted prior to each phase of construction, if initiated during the bird breeding season.

Pre-construction nesting bird surveys shall be conducted during the time of day when birds are active and shall factor in sufficient time to perform this survey adequately and completely. A brief report of the nesting bird survey results, if applicable, shall be submitted to PWD for review and approval prior to ground disturbance and/or vegetation removal activities.

If no nesting birds are observed during pre-construction surveys, no further action is required. If nests are found, an appropriate avoidance buffer <u>of up to 300 feet</u> ranging in size from 25 to 50 feet for passerine (perching birds) nests and up to <u>500</u> 300 feet for active, non-listed raptor nests (depending on the species and the proposed work activity) shall be determined by the qualified biologist and demarcated with bright orange construction fencing or other suitable flagging. Active nests shall be monitored at a minimum of once per week until a qualified biologist has determined the birds have fledged and are no longer reliant upon the nest or parental care for survival. No construction activity shall occur within this buffer until the qualified biologist confirms the breeding/nesting is completed and all the young have fledged. If Project component activities must occur within the buffer, they shall only be conducted at the discretion of the qualified biologist.

Mitigation Measure BIO-19: Sensitive Natural Communities and Jurisdictional Features Avoidance, Minimization Measures on page 3.3-106 has been revised accordingly in response to comment:

Mitigation Measure BIO-19: Sensitive Natural Communities and Jurisdictional Features Avoidance, Minimization Measures

[...]

 If impacts to sensitive natural communities cannot be avoided, PWD shall identify compensatory mitigation prior to disturbance of the features. Mitigation may take the form of permittee-responsible, on-site or off-site mitigation or the purchase of credits from an approved mitigation bank or through applicantsponsored mitigation (e.g., purchase and/or dedication of land for mitigation). If required, compensatory mitigation for unavoidable impacts to sensitive vegetation communities shall be accomplished at a minimum ratio of 1:1; however, the final ratio shall be determined and approved by CDFW<u>if a Lake or Streambed Alteration Agreement pursuant to CFGC Section 1602 or Incidental Take Permit pursuant to CFGC Section 2081 is required for the Project component.
</u> Mitigation Measure BIO-20: Aquatic Resources Delineation and Compensatory Mitigation on page 3.3-107 has been revised accordingly in response to comment:

Mitigation Measure BIO-20: Aquatic Resources Delineation and Compensatory Mitigation

[...]

• If impacts to jurisdictional waters and wetlands cannot be avoided, PWD shall identify compensatory mitigation prior to disturbance of the features. Compensatory mitigation for impacts to the jurisdictional extents of the Palmdale Ditch shall be provided at a minimum 0.5:1 ratio, <u>unless a higher ratio</u> is required by Lahontan RWQCB, CDFW, and/or USACE, given the Ditch's altered hydrology as a manmade structure constructed entirely in uplands that is artificially lined in a number of areas (concrete, synthetic liner, elevated flume) and its controlled flow that fluctuates in quantity and timing from year to year depending on annual climatic conditions and available water supply in Littlerock Reservoir. Compensatory mitigation for impacts to other jurisdictional waters and wetlands shall be provided at a minimum 1:1 ratio, unless a higher ratio is required by Lahontan RWQCB, CDFW, and/or USACE.

DRAFT EIR SECTION 3.4 CULTURAL AND TRIBAL CULTURAL RESOURCES

Texts in Draft EIR Section 3.4 Cultural and Tribal Cultural Resources on page 3.4-3 has been edited to provide clarification on reference:

At a site Lovejoy Springs, which has a prominent Gypsum component, a group inhumation with at least nine individuals was uncovered, including a child buried with approximately 3,000 Olivella shell beads from the southern Californian coast (Price et al. 2008 2009).

[...]

Rose Springs sites along Amargosa Creek, west of Palmdale, contain workshops for the production of beads made out of steatite and chlorite schist, materials native to that area (Price et al. 2008 2009).

[...]

The frequent use of obsidian is a defining feature of the Rose Springs period. Obsidian from the Coso volcanic field, 70 miles north of Mojave, was imported in near-finished form for use in making lithic tools (Price et al. 2008 2009).

Text in the Draft EIR in Section 3.4 Cultural and Tribal Resources on page 3.4-7 has been revised accordingly in response to comment:

At the time of European contact, numerous groups occupied the area in and surrounding the Antelope Valley. The southeastern portion of the Valley, around the Mojave River, was inhabited by the Serrano and Vanyume. <u>The Vanyume are the desert division of the Serrano; they were first mentioned as the Beneme by Father Francisco Garces in 1776.</u> Later, the ethnic designation Vanyume was adopted by Kroeber who mistranslated the name. Sutton and Earle (2017) discuss the relationship between the Mountain and Desert divisions of the Serrano at depth, suggesting that they are two divisions of the Serrano proper, not independent political, linguistic, or cultural entities (Earle 1997).

Robinson (1977) is the first to suggest that the local groups, which inhabited the Antelope Vvlley occupied a central geographical location. There groups were "a central point of contact between four major centers of cultural development in central and southern California;" this included Shoshonean people of the desert proper to the east, the Yokuts to the north, the Chumash to the west, and the Gabrieliño to the south. The territory of the Tataviam centered on the southwestern extent of the Antelope Valley, the Santa Clara River drainage, and possibly the Sierra Pelonas and the Palmdale area (Sutton 1988). The Kitanemuk inhabited the southern Tehachapi Mountains and the northern and central portion of the Antelope Valley. Finally, during the historic period, there is some evidence for the occupation of the Western Mojave by the Chemehuevi. The groups that are known to have lived in the vicinity of the proposed project area (Kitanemuk, Tataviam, Serrano, and Chemehuevi) are described in more detail below.

Texts in Draft EIR Section 3.4 Cultural and Tribal Cultural Resources on page 3.4-8 has been edited to provide clarification on reference:

They lived in small villages where extended families lived in circular, domeshaped structures made of willow frames covered with tule thatching. Each clan had one or more principal villages in addition to numerous smaller villages associated with the principal village (Price et al. 2008 2009).

Texts in Mitigation Measure CUL-5: Archaeological Resources Monitoring on page 3.4-45 to 3.4-46 has been edited in response to comment:

Proposed Project Requirements. Archaeological monitoring shall be determined by the Qualified Archaeologist based on the results of the archaeological resources assessment conducted under CUL-3 and requires the preparation of a Cultural Resources Monitoring Plan (CRMP) prior to the start of Project-related ground disturbance. The CRMP should discuss the monitoring protocols to be carried out during Project construction and should outline the appropriate measures to be followed in the event that cultural resources are encountered <u>and outline requirements for the final monitoring report.</u>

Text in the Draft EIR in Section 3.4 Cultural and Tribal Cultural Resources on page 3.4-54 has been revised accordingly to provide clarification on reference:

Price, Barry, Alan G. Gold, Barbara S. Tejada, David D. Earle, Suzanne Griset, Jay B. Lloyd, Mary Baloian, Nancy Valente, Virginia S. Popper, and Liza Anderson. The Archaeology of CA-LAN-192: Lovejoy Springs and Western Mojave Desert Prehistory. Prepared by Applied Earthworks for the County of Los Angeles, September 2008 2009.

DRAFT EIR SECTION 3.7 HAZARDS, HAZARDOUS MATERIALS, AND WILDFIRE

Text in the Draft EIR in Section 3.7 Hazards, Hazardous Materials, and Wildfire on page 3.7-20 has been revised accordingly to provide clarification, and reads as follows:

Operation of existing <u>rehabilitated</u> wells that have been rehabilitated would not have any impact as existing wells are not located within <u>near</u> any active hazardous sites. **Mitigation Measure HAZ-3** <u>ensures</u> ensured replacement wells would <u>will</u> not be located within <u>near or within</u> any active hazard hazardous sites. Therefore, there would be no impact.

DRAFT EIR CHAPTER 4 ALTERNATIVES

Text in the Draft EIR in Chater 4 Alternatives on page 4-7 has been revised accordingly to provide clarification, and reads as follows:

SWRP Update Alternative 3 was selected as the Reduced Project Alternative. Under the Reduced Project Alternative, PWD would not implement the Palmdale Ditch Conversion project and would not purchase 2,000 <u>1,000</u> AFY of production rights from other groundwater users in the Antelope Valley Groundwater Basin

Text in the Draft EIR in Chater 4 Alternatives on page 3-8 has been revised accordingly to provide clarification, and reads as follows:

Without the purchase 2,000 <u>1,000</u> AFY of production rights from other groundwater users in the Antelope Valley Groundwater Basin...

CHAPTER 4. FINAL EIR REPORT PREPARERS

4.1 LEAD AGENCY – PALMDALE WATER DISTRICT

Dennis Lamoreaux. General Manager Scott Rogers, Assistant General Manager/Engineering Manager

4.2 CONSULTANTS

4.2.1 PRIMARY CONSULTANTS (WOODARD & CURRAN)

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4.2.2 OTHER CONSULTANTS (RINCON CONSULTANTS, INC.)

Jennifer Jacobs, PhD, Principal Annaliese Torres, Senior Environmental Planner Ethan Knox, Environmental Planner Kayleigh Limbach, Environmental Planner Josh Carman, Technical Services Director Bill Vosti, Senior Environmental Planner Michael Stewart, Senior Air Quality Specialist Kyle Pritchard, Noise Specialist Christopher Julian, Principal Regulatory Specialist May Lau, Principal Regulatory Specialist Brenna Vredeveld, Supervising Biologist Robin Murray, Supervising Biologist, Certified Consulting Botanist/ISA Certified Arborist Monica Strauss, Cultural Resources Principal Shannon Carmack, Architectural Historian Chris Duran, RPA, Principal Archaeologist Leanna Flaherty, RPA, Senior Cultural Resources Manager/Archaeologist Jennifer DiCenzo, Senior Paleontologist Program Manager Andrew McGrath, Paleontologist Brooke Boyd, Paleontologist Erick Holtz, GIS Analysist Abby Robles, GIS Analysist Dario Campos, Publishing Specialist Luis Apolinar, Publishing Specialist

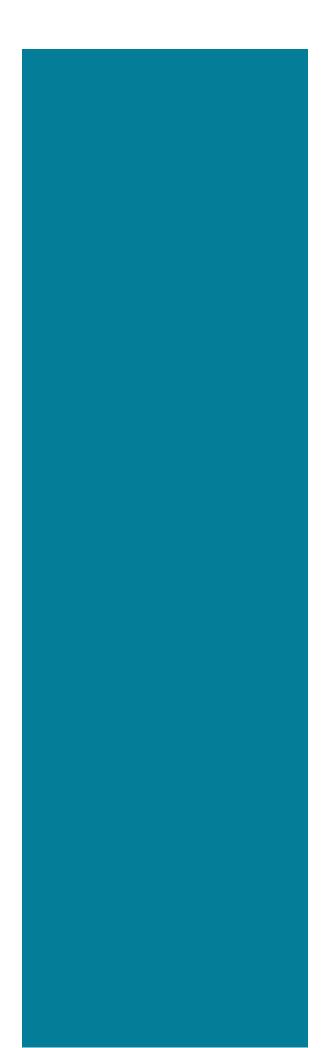
CHAPTER 5. REFERENCES

CEQA. California Public Resources Code Sections 21000 et. Seq.

CEQA Guidelines. Code of Regulations, Title 14, Division 6, Chapter 3.

Price, Barry, Alan G. Gold, Barbara S. Tejada, David D. Earle, Suzanne Griset, Jay B. Lloyd, Mary Baloian, Nancy Valente, Virginia S. Popper, and Liza Anderson. The Archaeology of CA-LAN-192: Lovejoy Springs and Western Mojave Desert Prehistory. Prepared by Applied Earthworks for the County of Los Angeles, September 2008 2009.

Robinson, R.W. 1977. The Prehistoric of the Antelope Valley, California: An Overview. Kern County Archaeological Society Journal 1: 43-48. This page intentionally left blank





APPENDIX A. MITIGATION MONITORING AND REPORTING PROGRAM





STRATEGIC WATER RESOURCES PLAN UPDATE **MITIGATION MONITORING AND REPORTING PROGRAM** December 2024

Prepared by:

Palmdale Water District 2029 East Avenue Q Palmdale, CA 93550

With Assistance From:



SCH#: 2023080290

1. MITIGATION MONITORING AND REPORTING PROGRAM

The California Environmental Quality Act (CEQA) requires that when a lead agency adopts an Environmental Impact Report (EIR), it shall prepare a monitoring or reporting program for all required mitigation measures (CEQA Guidelines Section 15097). This Mitigation Monitoring and Reporting Program (MMRP) describes the monitoring and reporting program for mitigation measures adopted by Palmdale Water District (District) to avoid or substantially reduce impacts related to the Strategic Water Resources Plan Update (Project) to less than significant levels and has been prepared in accordance with Public Resources Code Section 21081.6 and State CEQA Guidelines Section 15097. Palmdale Water District and its contractors are required to implement the adopted mitigation measures for the proposed Project in accordance with the EIR. This MMRP will be used by the District to ensure that the mitigation measures identified in the EIR are implemented.

1.1 Program Administration

The MMRP shall be administered by Palmdale Water District and mitigation measures shall be incorporated into design and construction contracts, as appropriate, to ensure full implementation. The MMRP shall be maintained by the designated Palmdale Water District Project Manager and be available for inspection upon request at the District's offices.

1.2 Project Description

The SWRP identified a Preferred Strategy that optimizes PWD's mix of water sources up to the year 2050. The Preferred Strategy, referred to as the 'proposed Project' in this EIR, would maximize local supplies and facilities to meet future growth and increase storage of water in the Antelope Valley Groundwater Basin. The proposed Project consists of the following implementation actions.

1.2.1 Imported Supplies

Under the proposed Project, PWD would maximize its existing Table A allocations by recharging unused and untreated imported water to meet potable water demands. Up to 1,200 AF of imported supplies would be recharged to the Antelope Valley Groundwater Basin each year via the Upper Amargosa Creek Water Recharge Project. The Upper Amargosa Creek Water Recharge Project. The Upper Amargosa Creek Water Recharge Project was completed in 2019 and consists of recharge basins constructed on a 75-acre site near 25th Street West and Lake Elizabeth Road in the City of Palmdale. Existing turnouts, conveyance, recharge, and treatment would be used to maximize current Table A water allocations. No new facilities would be constructed.

While included in the Preferred Strategy, the environmental impacts of the Upper Amargosa Creek Water Recharge Project and environmental impacts of SWP facilities are not further analyzed in the EIR because both facilities have been previously evaluated under CEQA.

1.2.2 Recycled Water

Under the proposed Project, PWD would maximize beneficial use of recycled water through construction and implementation of the Pure Water Antelope Valley project. PWD would construct a 5 million gallon per day advanced water purification facility near the Palmdale Water Reclamation Plant. The Pure Water Antelope Valley project is anticipated to be located between East Avenue Q and 25th Street East. PWD would also store purified recycled water in the Antelope Valley Groundwater Basin by injecting it into the groundwater basin. PWD would install injection wells to be used for the injection of purified water from the Pure Water Antelope Valley advanced water purification facility. New recycled water conveyance would be constructed. The location of these pipelines would be near Palmdale Water Reclamation Plant and would be constructed within existing roadways whenever possible. CEQA evaluation would be conducted in the future for the Pure Water Antelope Valley project, including its associated recycled water conveyance and injection facilities.

1.2.3 Groundwater

Under the proposed Project, PWD would rehabilitate and/or replace existing PWD wells as recommended in the 2020 Well Rehabilitation Prioritization Program. The Project includes replacement or rehabilitation of five existing wells in the near term. Rehabilitated wells would be located at existing well sites, while replacement wells may be located in areas with higher rates of groundwater production or near existing wells.

1.2.4 Local Supplies

Littlerock Reservoir is a man-made feature formed by the impoundment of water by the Littlerock Dam. The initial design capacity of Littlerock Reservoir was 4,300 AF; however, this capacity was substantially reduced to approximately 2,800 AF because of the deposition of sediment behind Littlerock Dam. The proposed Project includes sediment removal at Littlerock Reservoir in order to maintain storage capacity. While included in the Preferred Strategy, environmental impacts of the Littlerock Reservoir Sediment Removal project are not analyzed further in the EIR as they have been previously evaluated under CEQA.

The Palmdale Ditch is a 7.2 mile long part earthen and part concrete-lined open ditch that conveys water from Littlerock Dam Reservoir to Lake Palmdale. It is estimated that up to 25 percent of water supplies are lost due to evaporation and seepage from the Ditch. Under the proposed Project, PWD would enclose the Ditch by constructing a pipeline within and near the existing Ditch.

1.2.5 Conservation

Under the proposed Project, PWD would continue to monitor and report on effectiveness of conservation programs; regularly review and coordinate PWD and City Ordinances and Policies; coordinate its conservation efforts with other Antelope Valley water purveyors; and achieve conservation objectives set by the State as part of Assembly Bill (AB) 1668 and Senate Bill (SB) 606. No activities that meet the definition of a "Project" under CEQA are planned for conservation activities and therefore no CEQA documentation is required.

2. MITIGATION MONITORING REQUIREMENTS

2.1 Mitigation Measures

A mitigation monitoring and reporting checklist has been developed for the proposed project evaluated in the EIR and is intended for use by Palmdale Water District, as lead agency and designated monitoring entity. The checklist is presented in **Table MMRP-1**, which summarizes the mitigation requirements for the proposed project. The table identifies anticipated timing and responsible parties for ensuring implementation of each mitigation measure.

Table MMRP-1: Mitigation Monitoring and Reporting Checklist							
Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Aesthetics							
Mitigation Measure AES-1: Landscape Plan During project design, a landscape plan shall be prepared for proposed Project features that may affect scenic vistas and/or are visible from scenic roadways. The landscape plan shall include measures to restore disturbed areas by replanting trees and/or reseeding with a native seed mix typical of the surrounding area. Vegetation screening shall also be included in order to assist in shielding the proposed aboveground facilities from public vantage points.	 Impact 3.1a (AES-1) – Potential to have a substantial adverse effect on a scenic vista. Impact 3.1b (AES-2) – Potential to, in nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings. 	Construction: Pure Water Antelope Valley; Existing Wells Rehabilitation and/or Replacement	Palmdale Water District; Construction Contractor	Palmdale Water District	 Confirm that contract documents include mitigation measure. Confirm a landscape plan shall be prepared for proposed Project features that may affect scenic vistas and/or are visible from scenic roadways. 	1. Contracting 2. Design	1 2
					3. Retain a copy of the landscape plan in project file.	construction	3
Mitigation Measure AES-2: Pre-Construction Aesthetic Design Aboveground buildings/structures shall be designed to have similar aesthetic qualities to existing structures in the vicinity to minimize contrasting features in the visual landscape.	Impact 3.1a (AES-1) – Potential to have a substantial adverse effect on a scenic vista. Impact 3.1b (AES-2) – Potential to, in nonurbanized areas, substantially degrade the existing visual	Construction: Pure Water Antelope Valley; Existing Wells Rehabilitation and/or Replacement	Palmdale Water District; Construction Contractor	Palmdale Water District	 Confirm that contract documents include mitigation measure. Confirm design of all new aboveground buildings/structures incorporates similar aesthetic qualities to 	1. Contracting 2. Design	1 2
	character or quality of public views of the site and its surroundings.				a. Verify that facilities are constructed as specified.	3. Post- construction	3
Mitigation Measure AES-3: Aboveground Building/Structure Design Aboveground buildings/structures shall be designed to have color palettes and vegetation screening as necessary to blend with the surrounding character of the site and to minimize contrasting features in the visual landscape.	Impact 3.1a (AES-1) – Potential to have a substantial adverse effect on a scenic vista.	Construction: Pure Water Antelope Valley; Existing Wells	Palmdale Water District; Construction Contractor	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
	Impact 3.1b (AES-2) – Potential to, in nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings.	Rehabilitation and/or Replacement			2. Confirm design includes appropriate color palettes and vegetation screening as necessary to blend with the surrounding character of the site.	2. Design	2
					3. Verify that facilities are constructed as specified.	3. Post- construction	3
Mitigation Measure AES-4: Permanent Exterior Lighting All new permanent exterior lighting associated with proposed Project components shall be shielded and directed downward to avoid any light intrusion to surrounding uses.	Impact 3.1d (AES-4) – Potential to create a new source of substantial light or glare which would adversely affect day or nighttime views in the	Construction: Pure Water Antelope Valley; Existing Wells	Palmdale Water District; Construction Contractor	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
	area.	Rehabilitation				2. Design	2

Table MMRP-1: Mitigation Monitoring and Reporting Checklist



Mitigation Measure	Impact Statement	Applicable Projects and/or Replacement	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions 2. Confirm design includes shielded and downward facing positioning for all new permanent exterior lighting.	Implementation Schedule	Verification: Status/ Date Completed/ Initials
					3. Verify that facilities are constructed as specified.	3. Post- construction	3
Mitigation Measure AES-5: Nighttime Construction Lighting Lighting used during nighttime construction, including any associated 24-hour well drilling, shall be shielded and pointed away from surrounding light-sensitive land uses.	Impact 3.1d (AES-4) – Potential to create a new source of substantial light or glare which would adversely affect day or nighttime views in the area.	Construction: Pure Water Antelope Valley; Existing Wells Rehabilitation and/or Replacement; Palmdale Ditch Conversion Project	Palmdale Water District; Construction Contractor	Palmdale Water District	 Confirm that contract documents include mitigation measure. Perform site inspections, once at the start of construction and once half-way through construction, to verify contractor compliance with light shielding and positioning. 	1. Contracting 2. Construction	1 2
					3. Retain copies of inspection records in project file.	3. Post- construction	3
Mitigation Measure AES-6: Non-Glare Design The proposed advanced water purification facility shall be designed to include non-glare exterior materials and coatings to minimize glare or reflection.	Impact 3.1d (AES-4) – Potential to create a new source of substantial light or glare which would adversely affect day or nighttime views in the	Construction: Pure Water Antelope Valley	Palmdale Water District	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
	area.				2. Confirm advanced water purification facility design includes non-glare exterior materials and coatings.	2. Design	2
					3. Verify that facilities are constructed as specified.	3. Post- construction	3
 Air Quality Mitigation Measure AIR-1: Basic Construction Fugitive Dust Emissions Control Practices The following Basic Construction Emissions Control Practices for controlling fugitive dust from a construction site shall be implemented during construction. Water all exposed surfaces two times daily. Exposed surfaces include, but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads. Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose material on the site. Any haul trucks that would be traveling along freeways or major roadways should be covered. 	Impact 3.2b (AIR-2) – Potential to result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard.	Construction: Pure Water Antelope Valley	Palmdale Water District; Construction Contractor	Palmdale Water District	 Confirm that contract documents include mitigation measure. Perform site inspections, once at the start of construction and once half-way through construction, to verify contractor compliance with Basic Construction Emissions Control Practices. 	1. Contracting 2. Construction	1 2



Mitigation Measure • Use wet power vacuum street sweepers to remove any visible trackout mud or dirt onto adjacent public roads at least once a day. Use of dry power sweeping is prohibited. • Limit vehicle speeds on unpaved roads to 15 miles per hour (mph).	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions 3. Retain copies of inspection records in project file.	Implementation Schedule 3. Post- construction	Verification: Status/ Date Completed/ Initials 3
 All roadways, driveways, sidewalks, parking lots to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used. PWD shall ensure construction contractor(s) implement measure to comply with AVAQMD Rule 403, and enforced by AVAQMD staff, including a Dust Control Plan. 							
Mitigation Measure AIR-2: Construction Diesel Exhaust Emission Control The following practices, which describe exhaust emission control from diesel powered fleets, shall be implemented at the construction site. California regulations limit idling from both on-road and off-road diesel-powered	Impact 3.2b (AIR-2) – Potential to result in a cumulatively considerable net increase of any criteria pollutant for which the	Construction: Pure Water Antelope Valley	Palmdale Water District; Construction Contractor	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
 equipment. The California Air Resources Board (CARB) enforces idling limitations and compliance with diesel fleet regulations. Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes [California Code of Regulations, Title 13, sections 2449(d)(3) and 2485]. Provide clear signage that posts this requirement for workers at the entrances to the site. Provide current certificate(s) of compliance for CARB's In-Use Off-Road 	Project region is non-attainment under an applicable federal or state ambient air quality standard. Impact 3.2c (AIR-3) – Potential to expose sensitive receptors to substantial pollutant concentrations.				2. Perform site inspections, once at the start of construction and once half-way through construction, to verify contractor compliance with Construction Diesel Exhaust Emission Control practices.	2. Construction	2
 Diesel-Fueled Fleets Regulation [California Code of Regulations, Title 13, sections 2449 and 2449.1]. Construction activities shall minimize use of diesel-powered generators and rely on the electricity infrastructure where appropriate power requirements are available without the need to construct additional infrastructure. Construction trucks shall be routed along haul routes that minimize travel adjacent to sensitive receptor areas where feasible. 					3. Retain copies of inspection records in project file.	3. Post- construction	3
Mitigation Measure AIR-3: Tier 4 Engines To minimize emissions of NO_X from construction activities, PWD shall ensure the construction contractor(s) uses off-road equipment that meets the U.S EPA certified Tier 4 final engines or engines that are certified to meet or exceed the	Impact 3.2b (AIR-2) – Potential to result in a cumulatively considerable net increase of any criteria pollutant for which the	Construction: Pure Water Antelope Valley	Palmdale Water District; Construction Contractor	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
emission ratings for U.S EPA Tier 4 final or interim engines such that average daily NO _x emissions are lower than AVAQMD Mass Emissions Thresholds of 137 pounds per day.	Project region is non-attainment under an applicable federal or state ambient air quality standard. Impact 3.2c (AIR-3) – Potential to expose sensitive receptors to substantial pollutant				2. Perform site inspections, once at the start of construction and once half-way through construction, to verify contractor compliance with certified Tier 4 engines.	2. Construction	2
	concentrations.				3. Retain copies of inspection records in the project file.	3. Post- construction	3



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Biological Resources							
Mitigation Measure BIO-1: Habitat Assessment This mitigation measure is applicable to all Project components except the Palmdale Ditch Conversion project. A habitat assessment shall be conducted prior to ground-disturbing activities within 500 feet of each proposed Project component footprint. If no suitable habitat occurs to support special-status plant species, special-status wildlife species, nesting bird species, sensitive plant communities, and/or native desert vegetation, then no further mitigation is	Impact 3.3a (BIO-1) – Potential to have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or	Construction: Pure Water Antelope Valley; Existing Wells Rehabilitation and/or Replacement	Palmdale Water District; Qualified Biologist	Palmdale Water District	 Retain Qualified Biologist to conduct a habitat assessment to confirm if additional mitigation measures apply. Retain copies of habitat assessment results in project file. 	 Pre-construction Pre-construction 	2
necessary. If suitable habitat occurs, implementation of Mitigation Measures BIO-2 through BIO-19 shall be required based on the resources identified.	regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	Replacement			assessment results in project nie.		
	Impact 3.3d (BIO-4) – Potential to interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.						
Mitigation Measure BIO-2: Special-Status Plant Surveys, Avoidance Measures, Mitigation, and Monitoring Plan This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which suitable habitat for special-status plant	Impact 3.3a (BIO-1) – Potential to have a substantial adverse effect, either directly or through habitat modifications, on any species	Construction: Palmdale Ditch Conversion Project; potentially Pure	Palmdale Water District; Qualified Biologist; Construction	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
species is identified within the Project component site during the habitat assessment conducted pursuant to Mitigation Measure BIO-1 . PWD shall retain a qualified biologist to conduct surveys for special-status plants prior to any vegetation removal, grubbing, or other construction activity within each proposed Project component footprint. The surveys shall be floristic in nature and seasonally timed to coincide with the blooming periods of the following special-status species with potential to occur:	identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	Water Antelope Valley and Existing Wells Rehabilitation and/or Replacement based on results of	Contractor; Qualified Restoration Specialist		2. Retain Qualified Biologist to conduct surveys for special- status plant species listed in the measure and prepare report of survey results. Review and approve survey report.	2. Pre-construction	2
 All Project Components except Palmdale Ditch Conversion Project: Horn's milk-vetch, Palmer's mariposa-lily, alkali mariposa-lily, white pygmy-poppy, Mojave paintbrush, short-joint beavertail, Greata's aster, Peirson's morning-glory, sagebrush loeflingia, and Robbins' nemacladus. Palmdale Ditch Conversion Project: Horn's milk-vetch, Palmer's mariposa-lily, alkali mariposa-lily, white pygmy-poppy, Mojave 	Impact 3.3e (BIO-5) – Potential to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. Impact 3.3f (BIO-6) – Potential to	Mitigation Measure BIO-1			3. If special-status plant species are identified, perform site inspections, once at the start of construction and once half-way through construction, to verify contractor compliance with avoidance buffer.	3. Construction	3
paintbrush, short-joint beavertail, and Greata's aster. The surveys shall be conducted during the relevant target species' blooming periods no more than two years prior to construction. Special-status plant species identified on site shall be mapped onto a site-specific aerial photograph. Surveys shall be conducted in accordance with the most current California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Service (USFWS) protocols. A report of the survey results shall be submitted to PWD for review and approval.	conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or State habitat conservation plan.				4. If avoidance is not feasible, retain a Qualified Restoration Specialist to develop and implement a Special-Status Plant Mitigation and Monitoring Plan. Review and approve Special- Status Plant Mitigation and	4. Pre-construction, Construction, and Post-construction	4



			Party Responsible for				Verification: Status/ Date
Mitigation Massura	Impact Statement	Applicable	Implementation	Review and	Monitoring and Reporting	Implementation	Completed/ Initials
Mitigation Measure	Impact Statement	Projects	and Reporting	Approval by:	Actions Monitoring Plan, annual reports,	Schedule	mittais
If special-status plants other than western Joshua trees are detected during					and final report.	5. Post-	
special-status plant surveys, the observed special-status plants shall be avoided						construction	5
through Project component design where feasible, and vegetation clearing					5. Retain copies of survey report,		
within 50 feet (15 meters) of any identified special-status plant shall be					inspection records, Special-		
conducted by hand by the construction contractor(s), if practicable. An avoidance					Status Plant Mitigation and		
buffer of at least 50 feet (15 meters), or other distance as approved by a qualified					Monitoring Plan, annual reports,		
biologist, shall be established around any identified special-status plants that can					and final report in project file.		
be feasibly avoided, and the avoidance buffer shall be delineated with bright							
orange protective fencing. The avoidance buffers shall be maintained for the duration of construction activities at each construction site and shall be removed							
only after the conclusion of all grading, clearing, and construction activities at							
each construction site.							
each construction site.							
Manager and the state of the state							
If special-status plants other than western Joshua tree are detected during special-status plant surveys and would be impacted by Project component							
construction, PWD shall retain a qualified restoration specialist to develop a							
Special-Status Plant Mitigation and Monitoring Plan that provides for the on-site							
or off-site replacement of the species impacted by the Project component. The							
Special-Status Plant Mitigation and Monitoring Plan shall specify the following:							
 A summary of impacts; 							
The location of the mitigation site;							
 Methods for harvesting seeds or salvaging and transplanting 							
individuals to be impacted;							
Measures for propagating plants or transferring living plants from the							
salvage site to the mitigation site;							
Site preparation procedures for the mitigation site;							
• A schedule and action plan to maintain and monitor the mitigation site;							
Criteria and performance standards by which to measure the success of							
the mitigation, including replacement of impacted plants at a minimum							
1:1 ratio, to be determined in consultation with CDFW if a Lake or Streambed Alteration Agreement pursuant to CFGC Section 1602 or							
Incidental Take Permit pursuant to CFGC Section 2081 is otherwise							
required for the Project component;							
 Measures to exclude unauthorized entry into the mitigation areas; and 							
 Contingency measures such as replanting or weeding if mitigation 							
efforts are not successful.							
The performance standards for the Special-Status Plant Mitigation and							
Monitoring Plan shall be, at a minimum, the following:							
 Within five years after introducing the plants to the mitigation site, 							
the number of established, reproductive plants shall equal the							
number impacted during Project component construction; and							
• Restoration shall be considered successful after the success criteria							
have been met for a period of at least two years without any							
maintenance or remediation activities other than invasive species							
control.							



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
The Special-Status Plant Mitigation and Monitoring Plan shall be initiated prior to Project component construction (including, but not limited to, site preparation, staging and mobilization, vegetation clearance/mowing/trimming, grading, and excavation) and shall be implemented over a five-year period. The plan may also be combined with the Habitat Revegetation, Restoration, and Monitoring Program described under Mitigation Measure BIO-19 . Annual reports discussing the implementation and management of the Special- Status Plant Mitigation and Monitoring Plan shall be submitted to PWD for review and approval. Five years after the start of the mitigation for the Project component, a final report shall be submitted to PWD for review and approval and shall, at a minimum, discuss the implementation and management of the Special-Status Plant Mitigation and Monitoring Plan over the five-year period and indicate whether the Special-Status Plant Mitigation and Monitoring Plan has been successful based on the established performance standards. Should the success criteria be met before Year Five, the mitigation effort can be deemed							



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Mitigation Measure BIO-3: Joshua Tree Census Survey, Avoidance,Minimization, and Compensation MeasuresThis mitigation measure is applicable to the Palmdale Ditch Conversion projectand other Project components for which suitable habitat for western Joshua treeis identified within 50 feet of the Project component site during the habitat	Impact 3.3a (BIO-1) – Potential to have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive,	Construction: Palmdale Ditch Conversion Project; potentially Pure Water Antelope	Palmdale Water District; Qualified Arborist; Construction Contractor; Desert	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
assessment conducted pursuant to Mitigation Measure BIO-1 . A western Joshua tree census survey shall be conducted for that component by a qualified arborist in accordance with CDFW's Western Joshua Tree Census Instructions, which requires a census of all western Joshua trees within the Project component area and a 50-foot buffer.	or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	Valley and Existing Wells Rehabilitation and/or Replacement	Native Plant Specialist		2. Retain Qualified Arborist to conduct western Joshua tree census survey.	2. Pre-construction	2
Impacts to western Joshua trees and within a minimum 50-foot buffer shall be avoided to the extent feasible. An avoidance buffer of at least 50 feet shall be established around western Joshua tree individuals that can be feasibly avoided. If a 50-foot buffer is not feasible, a reduced buffer can be established if a qualified desert native plant specialist and CDFW determine the reduced buffer would avoid direct impacts to individual western Joshua tree(s). No activities shall occur within the buffer. The avoidance buffers shall be maintained for the	Impact 3.3e (BIO-5) – Potential to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.	based on results of Mitigation Measure BIO-1			3. If western Joshua trees are identified, perform site inspections, once at the start of construction and once half-way through construction, to verify contractor compliance with avoidance buffer.	3. Construction	3
duration of construction activities in each work area and shall be removed only after the conclusion of all grading, clearing, and construction activities at each Project component construction site. For each dead or live western Joshua tree individual that cannot be avoided					4. If avoidance is infeasible, retain a desert native plant specialist to oversee relocation of the tree or submit payment of in-lieu fee to CDFW.	4. Pre-construction and Construction	4
through Project component design, PWD shall implement one of the following measures:					5. Retain inspection records and	5. Post-	5.
 The western Joshua tree individual shall be trimmed or relocated under the guidance of a desert native plant specialist. Tree relocation shall be implemented in accordance with the following measures and CDFW-provided guidelines and relocation protocols, if made available prior to Project component construction, to assist the survival of the relocated tree: The relocated western Joshua tree shall be placed in a suitable location and with proper orientation to improve its survival. The western Joshua tree shall be relocated at a time that maximizes its survival, when feasible. A desert native plant specialist shall be on site to oversee relocation of the tree. 					records of relocation or fee payment in project file.	construction	
 PWD shall submit payment of an in-lieu fee to CDFW pursuant to CDFW's standard mitigation fee structure for western Joshua tree in effect at the time of application for an Incidental Take Permit. 							



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Mitigation Measure BIO-4: Arroyo Toad, Desert Tortoise, Tricolored Blackbird, and Least Bell's Vireo Avoidance, Minimization, and Compensation Measures This mitigation measure is applicable to the Project components for which	Impact 3.3a (BIO-1) – Potential to have a substantial adverse effect, either directly or through habitat modifications, on any species	Construction: Palmdale Ditch Conversion Project; potentially Pure	Palmdale Water District; Qualified Biologist; Construction	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
suitable habitat for arroyo toad, desert tortoise, tricolored blackbird, and/or least Bell's vireo is identified within 500 feet of the Project component site during the habitat assessment conducted pursuant to Mitigation Measure BIO-1 and does not apply to the Palmdale Ditch Conversion project. Focused protocol surveys	identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California	Water Antelope Valley and Existing Wells Rehabilitation	Contractor		2. Retain a Qualified Biologist to conduct focused protocol surveys for applicable species.	2. Pre-construction	2
shall be conducted by a qualified biologist following the protocol surveys shall be conducted by a qualified biologist following the protocol outlined in the most recent USFWS and/or CDFW protocol guidelines. These currently include: 1999 Survey Protocol for the Arroyo Toad; 2018 Preparing for Any Action That May Occur Within the Range of the Mojave Desert Tortoise (<i>Gopherus agassizii</i>); 2015 Staff Guidance Regarding Avoidance of Impacts to Tricolored Blackbird Breeding Colonies on Agricultural Fields in 2015; and 2001 Least Bell's Vireo Survey Guidelines). If any special-status wildlife species are observed during the	Impact 3.3f (BIO-6) – Potential to conflict with the provisions of an adopted habitat conservation plan, natural community conservation	and/or Replacement based on results of Mitigation Measure BIO-1			3. If arroyo toad, desert tortoise, tricolored blackbird, and/or least Bell's vireo are identified, verify project design avoids these species and their habitat, if feasible.	3. Pre-construction	3
focused surveys, these species and their habitat shall be avoided by the proposed Project. If avoidance of the special-status wildlife species is not feasible, and special-status wildlife may be potentially impacted by the proposed Project, additional avoidance and mitigation measures will be required, such as constructing proposed Project facilities outside the breeding season, establishing a suitable buffer around known territories, and restricting activities around certain times of year. If the proposed Project results in permanent	plan, or other approved local, regional, or State habitat conservation plan.				4. If permanent impacts are expected to occur to habitat occupied by special-status wildlife species, consult with USFWS and CDFW.	4. Pre-construction	4
impacts to habitat occupied by special-status wildlife species, USFWS and CDFW shall be consulted to ensure compliance with the Endangered Species Act and/or requirements for avoidance, minimization, or mitigation measures (e.g., replacement of impacted occupied habitat at a minimum 1:1 ratio, to be determined in consultation with USFWS and/or CDFW, as applicable). If species are identified and cannot be avoided, species-specific mitigation measures included in this section shall apply as applicable.					5. Perform site inspections, once at the start of construction and once half-way through construction, to verify contractor compliance with avoidance and minimization measures.	5. Construction	5
					6. Retain copies of focused survey results, inspection records, and consultation efforts in project file.	6. Post- construction	6



Mitigation Measure BIO-5: Crotch's Bumble Bee Avoidance, Minimization,	Impact 3.3a (BIO-1) – Potential to	Construction:	Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	1
and Compensation Measures	have a substantial adverse effect,	Palmdale Ditch	District; Qualified	District	documents include mitigation		
This mitigation measure is applicable to the Palmdale Ditch Conversion project	either directly or through habitat	Conversion Project;	Biologist;		measure.		
and other Project components for which suitable habitat for Crotch's bumblebee	modifications, on any species	potentially Pure	Construction				
is identified within 50 feet of the Project component site during the habitat	identified as a candidate, sensitive,	Water Antelope	Contractor		2. Retain Qualified Biologist to	2. Pre-construction	2
assessment conducted pursuant to Mitigation Measure BIO-1. If Crotch's	or special status species in local or	Valley and Existing			conduct protocol-level surveys		
bumble bee is still considered a CESA candidate species or has been listed as	regional plans, policies, or	Wells			for Crotch's bumble bee.		
threatened or endangered under CESA at the time construction of Project	regulations, or by the California	Rehabilitation					
components commences, PWD shall implement the following avoidance,	Department of Fish and Game or	and/or			3. If avoidance of any identified	3. Pre-construction	3.
minimization, and compensation measures for this species:	U.S. Fish and Wildlife Service.	Replacement			Crotch's bumble bee nests is		
		based on results of			infeasible, consult CDFW.		
A qualified biologist shall conduct a protocol-level presence/absence	Impact 3.3f (BIO-6) – Potential to	Mitigation					
survey for Crotch's bumble bee in areas of the Project component site	conflict with the provisions of an	Measure BIO-1					
with suitable habitat during the peak active period for Crotch's bumble	adopted habitat conservation plan,				4. Perform site inspections, once	4. Construction	4
bee (highest detection probability) that occurs prior to the start of the	natural community conservation				at the start of construction and		
Project component's initial ground disturbing activities (including, but	plan, or other approved local,				once half-way through		
not limited to, site preparation, staging and mobilization, vegetation	regional, or State habitat				construction, to verify contractor		
clearance/mowing/trimming, grading, and excavation). The peak active	conservation plan.				compliance with avoidance		
period for Crotch's bumble bee in the Project area is anticipated to be	conservation plan.				buffer.		
April through June given the expected desiccation of Crotch's bumble					Surrer.		
bee floral resources within the Project area by mid-summer, though this							
timing could depend on annual climatic factors. Survey methodology					5. If Crotch's bumble bee are	5. Post-	5
shall be based on Section 4.1.1 of CDFW's Survey Considerations for					present, replace impacted floral	construction	J
CESA Candidate Bumble Bee Species (CDFW 2023b), or the most					resources at a 1:1 ratio.	construction	
current CDFW guidance in effect at the time. Inaccessible areas outside							
of the Project component site can be surveyed using binoculars from							
the Project component edge or from public roads. The timing of the					6. Retain copies of survey results,	6. Post-	6
presence/absence survey can be phased with Project component build-					consultation efforts, inspection	construction	0
out, if feasible.					records, and/or compensatory	construction	
 If construction starts one year or more after the conclusion of the 					mitigation for floral resources in		
surveys described above, PWD shall consult with CDFW as to whether					project file.		
additional surveys are required and shall retain a qualified biologist to					project me.		
conduct additional surveys if recommended by CDFW.							
 If Crotch's bumble bee is present, the qualified biologist shall identify the location of nests in or adjacent to the Project component site to the 							
extent feasible. Inaccessible land adjacent to the Project component							
site shall be observed using binoculars. If nests are identified within the							
Project component site or immediately adjacent to the site, a qualified							
biologist shall determine the need to establish a no-disturbance buffer							
around the nest, where feasible, to reduce the risk of disturbance or							
accidental take. The buffer shall provide at least 50 feet (15 meters) of							
clearance around active nest entrances. If Project component activities							
may result in disturbance or potential take, the qualified biologist, in							
, , , , , , , , , , , , , , , , , , , ,							
coordination with CDFW, shall expand the buffer zone as necessary to prevent disturbance or take. If establishment of a no-disturbance buffer							
is feasible, construction activities shall not occur within the buffer until							
a qualified biologist determines the colony is no longer active (i.e., no							
Crotch's bumble bees are seen flying in or out of the nest for three							
consecutive days, indicating the colony has completed its nesting							
season and the next season's queens have dispersed from the colony).							
Once the nest has been determined to be inactive, construction							
activities within the no-disturbance buffer(s) shall be allowed to							



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
resume. Otherwise, the no-disturbance buffer shall be maintained for the duration of Project component construction activities in each work							
area and shall be removed only after the conclusion of all grading, clearing, and construction activities at each construction site.							
If establishment of a no-disturbance buffer and/or avoidance of the							
nest is not feasible, the qualified biologist shall consult with CDFW regarding potential encroachment into the no-disturbance buffer and							
for Project component activities that may result in take of Crotch's bumble bee.							
 If Crotch's bumble bee is determined to be present on the Project component site, floral resources associated with the species that will be removed or damaged by Project component activities in the areas of 							
the Project component site where Crotch's bumble bee is detected and documented shall be replaced at a minimum 1:1 ratio, to be							
determined in consultation with CDFW as part of the Incidental Take Permit process pursuant to CFGC Section 2081 for the Project							
component. Planning and implementation of suitable habitat							
replacement may be integrated into the Habitat Revegetation, Restoration, and Monitoring Program described under Mitigation							
Measure BIO-19.							



Mitigation Measure BIO-6: Burrowing Owl Breeding Season Survey and	Impact 3.3a (BIO-1) – Potential to	Construction:	Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	1
Foraging Habitat Mitigation	have a substantial adverse effect,	Palmdale Ditch	District; Qualified	District	documents include mitigation		
This mitigation measure is applicable to the Palmdale Ditch Conversion project	either directly or through habitat	Conversion Project;	Biologist		measure.		
and other Project components for which suitable habitat for burrowing owl is	modifications, on any species	potentially Pure					
identified within 500 feet of the Project component site during the habitat	identified as a candidate, sensitive,	Water Antelope			2. Retain a Qualified Biologist to	2. Pre-construction	2
assessment conducted pursuant to Mitigation Measure BIO-1. PWD shall retain	or special status species in local or	Valley and Existing			conduct focused breeding		
a qualified biologist to conduct focused breeding season surveys for burrowing	regional plans, policies, or	Wells			season surveys for burrowing		
owl in accordance with the CDFW Staff Report on Burrowing Owl Mitigation	regulations, or by the California	Rehabilitation			owl foraging habitat.		
(CDFW 2012), or the most current CDFW guidance in effect at the time. Surveys	Department of Fish and Game or	and/or			5 5		
shall be conducted during the burrowing owl breeding season immediately prior	U.S. Fish and Wildlife Service.	Replacement			3. If actively breeding owls are	3. Pre-construction	3.
to the start of Project component construction.		based on results of			observed within 500 feet of		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Impact 3.3f (BIO-6) – Potential to	Mitigation			Project component activities,		
The focused surveys shall be conducted by a qualified biologist in the portions	conflict with the provisions of an	Measure BIO-1			determine extent of impacts and		
of the Project component site with suitable burrowing owl habitat plus a 500-	adopted habitat conservation plan,				implement on- or off-site		
foot buffer (burrowing owl survey area). The surveys shall be conducted in the	natural community conservation				compensatory mitigation for		
morning or evening to evaluate the presence/absence of burrowing owl during	plan, or other approved local,				impacts to foraging habitat.		
the nesting season. All potential burrowing owls and burrows with burrowing	regional, or State habitat				impacts to loraging habitat.		
owl sign shall be recorded using a GPS unit capable of submeter accuracy.	conservation plan.				4. Retain copies of survey report	4. Post-	1
Observations shall be conducted to determine if individual owls and/or nesting	conservation plan.				and documentation of	construction	4
						construction	
pairs are present and their status/disposition (e.g., late winter migrant, actively					compensatory mitigation efforts		
nesting, single individual not nesting). Representative photos of the habitat,					in project file.		
potential and occupied burrows, and vegetation within the burrowing owl survey							
area shall be taken and included as an appendix to the survey report. All							
vertebrate fauna detected in the burrowing owl survey area shall be recorded in							
field notes. Inaccessible areas of the burrowing owl survey area outside the							
Project component site shall be surveyed using binoculars and/or spotting							
scopes to determine if owls are present.							
A survey report shall be prepared that includes survey methodology, survey							
results, an analysis of potential Project component impacts to actively nesting							
pairs, and a calculation of the compensatory mitigation for foraging habitat, if							
impacted. Late winter migrants and non-nesting individuals located outside of							
the Project component impact area shall not require habitat mitigation unless							
passive relocation is necessary. Maps showing burrow locations, a delineation of							
suitable habitat areas, and burrowing owls observed shall be included in the							
survey report.							
If actively breeding owls are observed within 500 feet of Project component							
activities, PWD shall implement compensatory mitigation for impacts to foraging							
habitat based on the following methodology:							
• A 500-foot buffer shall be established around each active nest burrow							
to indicate the primary foraging habitat area for each nesting pair.							
Permanent Project component disturbance areas shall be overlain onto							
the foraging buffer zone(s) to calculate the area(s) of habitat loss.							
 Permanent foraging habitat loss shall be mitigated at a 1:1 ratio. 							
Compensatory mitigation for loss of foraging habitat shall be implemented on-							
or off-site and may include purchase of Conservation Bank credits, payment of							
an in-lieu fee to benefit burrowing owl, or permanent conservation and							
management of burrowing owl habitat through the recordation of a							
conservation easement, funding of a non-wasting endowment, and/or		I	I				1



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
implementation of a Mitigation Land Management Plan based on the CDFW <i>Staff Report on Burrowing Owl Mitigation</i> (CDFW 2012). Mitigation lands shall be identified through coordination with CDFW on, adjacent, or proximate to the impact site where practicable and where habitat is suitable to support burrowing owl.							



Mitigation Measure BIO-7: Burrowing Owl Pre-Construction Clearance	Impact 3.3a (BIO-1) – Potential to	Construction:	Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	1
Survey and Occupied Burrow Avoidance and Minimization Measures	have a substantial adverse effect,	Palmdale Ditch	District; Qualified	District	documents include mitigation	5	
This mitigation measure is applicable to the Palmdale Ditch Conversion project	either directly or through habitat	Conversion Project;	Biologist;		measure.		
and other Project components for which suitable habitat for burrowing owl is	modifications, on any species	potentially Pure	Construction				
identified within 500 feet of the Project component site during the habitat	identified as a candidate, sensitive,	Water Antelope	Contractor				
assessment conducted pursuant to Mitigation Measure BIO-1. PWD shall	or special status species in local or	Valley and Existing			2. Retain a Qualified Biologist to	2. Pre-construction	2
retain a qualified biologist to conduct a pre-construction burrowing owl	regional plans, policies, or	Wells			conduct pre-construction		<u> </u>
clearance survey of areas within the Project component site and a 500-foot	regulations, or by the California	Rehabilitation			burrowing owl clearance surveys.		
buffer that contain suitable burrowing owl habitat to confirm presence/absence	Department of Fish and Game or	and/or			Surreining of clearance surveys.		
of burrowing owl individuals no more than 14 days prior to start of construction	U.S. Fish and Wildlife Service.	Replacement					
in each work area. The survey methodology shall be consistent with the methods	0.5. Hish and whathe service.	based on results of			3. If actively breeding owls are	3. Construction	3
outlined in the CDFW Staff Report on Burrowing Owl Mitigation (CDFW 2012). If	Impact 3.3f (BIO-6) – Potential to	Mitigation			observed within 500 feet of	5. Construction	5
no active breeding or wintering owls or evidence of occupied habitat is	conflict with the provisions of an	Measure BIO-1			Project component activities,		
identified, then Project component construction in the work area may begin, and	adopted habitat conservation plan,	Wedsure DIO 1			retain a Qualified Biologist to be		
no further action is required.	natural community conservation				present on site during initial		
no further action is required.	plan, or other approved local,				ground disturbing activities.		
If active breading as wintering and, as avidence of accuried hebitatic datastad	regional, or State habitat				Perform site inspections, once at		
If active breeding or wintering owls or evidence of occupied habitat is detected	5				the start of construction and		
in the Project component work area or within a 500-foot buffer, PWD shall	conservation plan.						
implement the following measures for mitigation of potential burrowing owl					once half-way through		
presence in the Project area in accordance with the CDFW Staff Report on					construction, to verify contractor		
Burrowing Owl Mitigation (CDFW 2012):					compliance with avoidance		
A qualified biologist shall be present on site during initial ground					buffer.		
disturbing activities in potential burrowing owl habitat identified in the							
habitat assessment.					4. If active winter burrows are	4. Construction	4
Occupied burrows shall not be disturbed during the nesting season					found that would be directly		
(February 1 to August 31).					affected by ground disturbing		
No ground disturbing activities shall be permitted within a buffer no					activities, retain a Qualified		
less than 656 feet (200 meters) from an active burrowing owl burrow					Biologist to prepare and		
during the breeding season, depending on the level of disturbance,					implement a passive relocation		
unless the qualified biologist determines a reduced buffer would not					program. Review and approve		
adversely affect the burrowing owl(s).					passive relocation program and		
• During the nonbreeding (winter) season (September 1 to January 31),					submit to CDFW for review and		
ground disturbing work can proceed near active burrowing owl					approval. If necessary, develop a		
burrows at the discretion of the qualified biologist as long as the work					compensatory mitigation		
occurs no closer than 165 feet (50 meters) from the burrow, depending					agreement with CDFW. Review		
on whether the level of disturbance is low and if the active burrow is					and approve final passive		
not directly affected by the Project component activity. A smaller/larger					relocation report.		
buffer may be established by the qualified biologist following							
monitoring and assessment of the Project component's effects on the					5. Retain copies of survey results,	5. Pre-construction	5
burrowing owl(s).					inspection records, the passive		
If active winter burrows are found that would be directly affected by					relocation program and final		
ground disturbing activities, owls can be excluded from winter burrows					report, and compensatory		
according to recommendations in the Staff Report on Burrowing Owl					mitigation agreement in project		
Mitigation (CDFW 2012). The qualified biologist shall prepare a passive					file.		
relocation program in accordance with Appendix E (Example							
Components for Burrowing Owl Artificial Burrow and Exclusion Plans) of							
the CDFW Staff Report on Burrowing Owl Mitigation (CDFW 2012) and							
submit the passive relocation program to PWD and CDFW for review							
and approval prior to the commencement of ground disturbance							
activities. If required, a compensatory mitigation agreement shall be							
developed in coordination with CDFW prior to passive relocation of							
owls.							
OWIS.							



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
 Smaller non-disturbance buffers may be permitted in the winter (and sometimes breeding season) for the burrowing owl individuals if a noise and visual barrier, such as hay bale walls, is installed between the occupied burrowing owl burrow and construction activities, as long as the qualified biologist determines the reduced buffer will provide adequate protection. When a qualified biologist determines burrowing owls are no longer occupying the Project component site and passive relocation is complete, ground disturbing activities may begin. A final letter shall be prepared by a qualified biologist documenting the results of the passive relocation. The letter shall be submitted to CDFW. 							



Mitigation Measure BIO-8: Swainson's Hawk Avoidance and Minimization	Impact 3.3a (BIO-1) – Potential to	Construction:	Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	1.
Measures	have a substantial adverse effect,	Palmdale Ditch	District; Qualified	District	documents include mitigation	5	
This mitigation measure is applicable to the Palmdale Ditch Conversion project	either directly or through habitat	Conversion Project;	Biologist;		measure.		
and other Project components for which suitable habitat for Swainson's hawk is	modifications, on any species	potentially Pure	Construction				
identified within 0.5-mile of the Project component site during the habitat	identified as a candidate, sensitive,	Water Antelope	Contractor		2. If construction activities	2. Pre-construction	2
assessment conducted pursuant to Mitigation Measure BIO-1 . Construction	or special status species in local or	Valley and Existing			cannot be completed within the		
activities shall be limited to the period between September 16 and February 28	regional plans, policies, or	Wells			designated timeframe, retain a		
to the extent feasible. If construction activities cannot be completed within this	regulations, or by the California	Rehabilitation			Qualified Biologist to conduct a		
timeframe, PWD shall retain a qualified biologist(s) with Swainson's hawk survey	Department of Fish and Game or	and/or			Swainson's hawk nest survey.		
experience to conduct a Swainson's hawk nest survey within the Project	U.S. Fish and Wildlife Service.	Replacement			Review and approve survey		
component site and a 0.5-mile buffer during the nesting season immediately		based on results of			report.		
prior to the commencement of Project component construction. While the	Impact 3.3f (BIO-6) – Potential to	Mitigation					
proposed Project does not propose to construct renewable energy facilities, nest	conflict with the provisions of an	Measure BIO-1			3. If an active Swainson's hawk	3. Pre-construction	з
survey methods and timing shall follow those outlined in the CEC and CDFW	adopted habitat conservation plan,				nest is detected during surveys,	S. The construction	<u> </u>
protocol for the Antelope Valley (CDFW 2010) with the exception that the nest	natural community conservation				retain a Qualified Biologist to		
survey shall occur within a 0.5-mile buffer of the Project component site. A	plan, or other approved local,				prepare a Swainson's Hawk Nest		
report documenting results of the survey shall be prepared and submitted to	regional, or State habitat				Monitoring and Mitigation Plan.		
PWD for review and approval prior to commencement of Project component	conservation plan.				Review and approve plan.		
activities. If no Swainson's hawk nests are documented within 0.5 mile of the							
Project area, no additional action shall be required.					4. Implement Swainson's Hawk	4. Construction	1
riojeet died, no daditional detion shall be required.					Nest Monitoring and		¬
If an active Swainson's hawk nest is detected within 0.5 mile of the Project					Mitigation Plan.		
component site, PWD shall implement the following measures:					Witigation Flan.		
component site, r wb shall implement the following measures.					5. Review and approve final	5. Post-	5
Retain a qualified biologist to prepare a Swainson's Hawk Nest					report of mitigation efforts.	construction	5
Monitoring and Mitigation Plan that incorporates the following					report of mitigation enorts.	construction	
measures to avoid and minimize impacts to Swainson's hawk nests in					6. Retain copies of survey report,	6. Post-	6
and near the construction areas during the breeding season (March 1					Swainson's Hawk Nest	construction	0
to September 15):					Monitoring and Mitigation Plan,	construction	
 If nesting Swainson's hawks are detected within 0.5 mile of Project 					any consultations with CDFW,		
component activities during the breeding season, CDFW shall be					and mitigation report in project		
consulted regarding the establishment of a no-disturbance buffer					file.		
to avoid impacts to the active nest. Construction activities shall					ilie.		
maintain a 0.25-mile no-disturbance buffer around an active nest							
unless a reduced buffer is approved in consultation with the							
qualified biologist and CDFW.							
 If construction activities are necessary within the buffer zone, PWD 							
shall consult with CDFW as to the potential for take. Monitoring of							
the nest site by a qualified biologist and funding of Swainson's							
hawk recovery efforts may be necessary.							
 If a hawk is found injured during Project component activities on 							
the Project component site, the injured hawk shall be immediately							
relocated to a raptor recovery center approved by CDFW. The							
qualified biologist shall notify CDFW personnel via telephone or							
email, followed by a written report that includes the date, time,							
location, and circumstances of the incident.							
PWD and its construction contractor(s) shall implement the provisions of the							
Swainson's Hawk Nest Monitoring and Mitigation Plan. A report documenting							
measures taken to avoid and minimize impacts to Swainson's hawk nests shall							
be prepared by the qualified biologist following the completion of Project							
component construction and submitted to PWD for review and approval.							
component construction and submitted to t wb for review and approval.		1	1			1	



Mitigation Measure BIO-9: Mohave Ground Squirrel Avoidance and	Impact 3.3a (BIO-1) – Potential to	Construction:	Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	1
Minimization Measures	have a substantial adverse effect,	Palmdale Ditch	District; Qualified	District	documents include mitigation	1. contracting	·· <u> </u>
This mitigation measure is applicable to the Palmdale Ditch Conversion project	either directly or through habitat	Conversion Project;	Biologist;	District	measure.		
and other Project components for which suitable habitat for Mohave ground	modifications, on any species	potentially Pure	Construction		measure.		
squirrel is identified within 50 feet of the Project component site during the	identified as a candidate, sensitive,	Water Antelope	Contractor		2 Potein a qualified biologist to	2. Pre-construction	2
			Contractor		2. Retain a qualified biologist to	2. Pre-construction	Z
habitat assessment conducted pursuant to Mitigation Measure BIO-1 . PWD	or special status species in local or	Valley and Existing			conduct a focused habitat		
shall retain a qualified biologist to conduct a focused habitat assessment (visual	regional plans, policies, or	Wells			assessment for Mohave ground		
survey) of the Project component site following the CDFW's Mohave Ground	regulations, or by the California	Rehabilitation			squirrel and protocol live-		
Squirrel Survey Guidelines (CDFW 2023c) to assess the potential habitat	Department of Fish and Game or	and/or			trapping surveys if suitable		
suitability for the species. If suitable habitat is identified, protocol live-trapping	U.S. Fish and Wildlife Service.	Replacement			habitat is identified. Review and		
surveys shall be conducted in areas of suitable habitat to assess the potential		based on results of			approve survey report.		
presence and relative abundance of Mohave ground squirrel within the Project	Impact 3.3f (BIO-6) – Potential to	Mitigation					
component site. Pursuant to the protocol outlined in the Mohave Ground	conflict with the provisions of an	Measure BIO-1			3. If Mohave ground squirrels are	3. Pre-construction	3
Squirrel Survey Guidelines, trapping surveys shall take place over three terms in	adopted habitat conservation plan,				observed, retain a Qualified		
specific timing windows in the period of March 15 and July 15 immediately prior	natural community conservation				Biologist to develop a Mohave		
to commencement of Project component activities. If construction starts one	plan, or other approved local,				ground squirrel biological		
year or more after the conclusion of surveys, PWD shall consult with CDFW as to	regional, or State habitat				monitoring plan. Review and		
whether additional surveys are required and shall retain a qualified biologist to	conservation plan.				approve plan.		
conduct additional surveys if recommended by CDFW. Findings of the habitat							
assessment and live-trapping surveys shall be documented in a report that also					4. Implement provisions of	4. Pre-construction	4.
details survey methodology, timing, and surveyor qualifications. If no Mohave					Mohave ground squirrel	and Construction	
ground squirrels are discovered during the protocol surveys, no further action is					biological monitoring plan.		
required.					Review and approve pre-		
					construction clearance survey		
If Mohave ground squirrels are observed during the surveys, PWD shall retain a					report and relocation report.		
qualified biologist to develop a Mohave ground squirrel biological monitoring					Perform site inspections, once at		
plan, in coordination with CDFW, that includes measures to avoid, minimize,					the start of construction and		
and/or mitigate potential impacts as a result of Project component activities,					once half-way through		
including, but not limited to:					construction, to verify contractor		
including, but not innited to.					compliance with stockpiling		
• A qualified biologist shall conduct pre-construction clearance surveys					restrictions.		
for Mohave ground squirrel no more than 30 days prior to the start of					Testrictions.		
any ground-disturbing activities in areas of the Project component site					E Datain conies of survey	C. Doct	-
					5. Retain copies of survey	5. Post-	Э
that contain suitable habitat for the species, as documented in the					reports, Mohave ground squirrel	construction	
Mohave ground squirrel habitat assessment and survey report. The					biological monitoring plan,		
survey shall cover 100 percent of the anticipated impact area					relocation report, and site		
intersecting suitable Mohave ground squirrel habitat and a 50-foot					inspection records in project file.		
buffer (survey area). A qualified biologist shall document locations of							
potential Mohave ground squirrel burrows. A 50-foot no-disturbance							
buffer shall be established around suspected or known Mohave ground							
squirrel burrows. Project component activities shall not be conducted							
within the no-disturbance buffer unless at the discretion of the							
qualified biologist. A report documenting the results of the survey,							
locations of suspected or known Mohave ground squirrel burrows, and							
recommended no-disturbance buffers shall be submitted to PWD for							
review and approval prior to commencement of Project component							
activities in the survey area.							
• If burrows are identified during the survey that are suspected or known							
to be occupied by Mohave ground squirrel and cannot be avoided, the							
qualified biologist shall prepare a Mohave Ground Squirrel Relocation							
Plan outlining measures to relocate individual Mohave ground squirrels							
prior to construction start. The plan shall be submitted to PWD and							



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
CDFW for review and approval and shall be implemented prior to	•						
commencement of Project component activities in work areas with							
suspected or known Mohave ground squirrel burrows. The Plan shall							
outline measures for burrow excavation, handling of individuals,							
identification of proposed relocation areas, and release of relocated							
individuals after the conclusion of all grading, clearing, and							
construction activities. A report documenting relocation activities and							
outcomes shall be prepared by the qualified biologist and submitted to							
PWD and CDFW for review and approval after completion of relocation							
activities. The Plan shall also detail restoration of and/or compensatory							
mitigation, at a minimum 1:1 ratio, of occupied Mohave ground squirrel							
habitat that is temporarily or permanently impacted by the Project							
activities if required by CDFW as part of the Incidental Take Permit							
process pursuant to CFGC Section 2081 for the Project component.							
Within occupied Mohave ground squirrel habitat (as determined by the							
results of the focused habitat assessment and live trapping survey							
results as well as the pre-construction clearance survey results), the							
area of disturbance of vegetation and soils shall be the minimum							
required for the Project component. Clearing of vegetation and grading							
shall be minimized. Wherever practicable, rather than clearing							
vegetation and grading access routes, equipment and vehicles shall use							
existing surfaces or previously disturbed areas. Where grading is							
necessary, surface soils shall be stockpiled and replaced following							
construction. To the extent practicable, disturbance of shrubs and							
surface soils due to stockpiling shall be minimized. A qualified biologist							
shall monitor Project component activities during initial ground							
disturbance in suitable Mohave ground squirrel habitat. The qualified							
biologist shall work with the construction foreman and crew to							
implement and achieve compliance with the Mohave ground squirrel							
biological monitoring plan prepared for the Project component.							



Mitigation Measure BIO-10: Roosting Bats Avoidance and Minimization	Impact 3.3a (BIO-1) – Potential to	Construction:	Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	1
Measures	have a substantial adverse effect,	Palmdale Ditch	District; Qualified	District	documents include mitigation		
This mitigation measure is applicable to the Palmdale Ditch Conversion project	either directly or through habitat	Conversion Project;	Bat Specialist		measure.		
and other Project components for which suitable habitat for special-status bats	modifications, on any species	potentially Pure					
is identified within the Project component site during the habitat assessment	identified as a candidate, sensitive,	Water Antelope			2. If suitable roost trees must be	2. Pre-construction	2
conducted pursuant to Mitigation Measure BIO-1. PWD shall implement the	or special status species in local or	Valley and Existing			encroached during the maternity		
following measures for special-status roosting bats:	regional plans, policies, or	Wells			season (March 1 to September		
	regulations, or by the California	Rehabilitation			30) or structures must be		
To the extent feasible, demolition or disturbance of suitable bat	Department of Fish and Game or	and/or			removed at any time of the year ,		
roosting habitat (e.g., live and dead trees, rock outcrops) shall be	U.S. Fish and Wildlife Service.	Replacement			retain a Qualified Bat Specialist		
scheduled between October 1 and February 28, outside of the		based on results of			to conduct a pre-construction		
maternity roosting season.	Impact 3.3f (BIO-6) – Potential to	Mitigation			survey for roosting bats.		
If suitable roost trees must be encroached during the maternity season	conflict with the provisions of an	Measure BIO-1					
(March 1 to September 30) or structures must be removed at any time	adopted habitat conservation plan,				3. If roosts cannot be avoided	3. Pre-construction	3
of the year, PWD shall retain a qualified bat specialist to conduct a pre-	natural community conservation				and bats cannot be evicted by		
construction survey no more than seven days prior to the start of	plan, or other approved local,				non-invasive means, retain a		
Project component construction in a given work area to identify those	regional, or State habitat				Qualified Bat Specialist to		
trees or structures proposed for disturbance that could provide	conservation plan.				relocate in coordination with and		
hibernacula or nursery colony roosting habitat for bats. The trees or					subject to approval of CDFW.		
structures shall be closely inspected by the bat specialist to determine							
the presence or absence of roosting bats. If potentially suitable					4. If confirmed occupied or	4. Pre-construction	4
hibernacula or nursery colony roosting habitat for bats is not present in					formerly occupied bat roosting		
areas anticipated to be directly impacted by Project component					habitat will be destroyed during		
activities, no additional action is required.					Project component construction,		
• Trees or structures determined to be maternity roosts shall be left in					retain a Qualified Bat Specialist		
place until the end of the maternity season (March 1 to September 30).					to determine the need for and		
Any structure containing a hibernating colony shall be left in place until					design/location of artificial bat		
a qualified bat specialist determines the bats are no longer hibernating.					roots and to prepare and		
• If bats are not detected, but the bat specialist determines roosting bats					implement a monitoring plan for		
may be present at any time of year, trees or structures shall be brought					bat roosts.		
down in a controlled manner using heavy machinery. To ensure the							
optimum warning for any roosting bats that may still be present, the					5. Review and approve summary	5. Post-	5
trees or structures shall be nudged lightly two to three times, with a					report of demolition monitoring	construction	
pause of approximately 30 seconds between each nudge to allow bats					activities.		
to become active. Trees or structures may then be pushed to the							
ground slowly under the supervision of a qualified bat specialist. Felled					6. Review and approve annual	6. Post-	6
trees shall remain in place until they are inspected by a bat specialist.					reports and final report.	construction	
Trees that are known to be bat roosts shall not be sawed up or							
mulched immediately. A period of at least 48 hours shall elapse prior to					7. Retain copies of survey	7. Post-	7
such operations to allow bats to escape.					summary report, relocation	construction	
• The bat specialist shall document all demolition monitoring activities					report, monitoring plan, and		
and prepare a summary report for review and approval by PWD upon					annual/final monitoring reports		
completion of tree disturbance or structure demolition activities.					in project file.		
• In exceptional circumstances, such as when roosts cannot be avoided							
and bats cannot be evicted by non-invasive means, it may be necessary							
to capture and transfer the bats to appropriate natural or artificial bat							
roosting habitat in the surrounding area. Bats raising young or							
hibernating shall not be captured and relocated. Capture and relocation							
shall be performed by a qualified bat specialist in coordination with							
CDFW requirements and shall be subject to approval by CDFW.							
 If confirmed occupied or formerly occupied bat roosting habitat is 							
destroyed during Project component construction, the bat specialist							
assistation and any respect component construction, the but specialist		1	I	1		1	l



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
shall determine the need for artificial bat roosts based on the							
availability and condition of suitable bat roosts in the immediate							
vicinity of the Project component site. If artificial bat roosts are deemed							
necessary due to a potential lack of suitable bat roosts in the area, the							
artificial roosts shall be of comparable size and quality and shall be							
constructed and maintained at a suitable undisturbed area. The design							
and location of the artificial bat roosts shall be determined by the bat							
specialist in consultation with CDFW and pursuant to the following							
standards:							
 A monitoring plan shall be prepared for the replacement roosts, 							
which shall include performance standards for the use of the							
replacement roosts by the displaced species, as well as provisions							
to prevent harassment, predation, and disease of relocated bats.							
The performance standards shall consider the location and							
condition of habitat where replacement roosts are placed and shall							
be sufficient to serve the number of bats estimated to be displaced							
by Project component impacts to suitable roosting habitat. Annual							
reports detailing the success of roost replacement and bat							
relocation shall be prepared and submitted to PWD and CDFW for							
five years following relocation. If artificial roosts are not in use by							
the third year of monitoring, PWD shall consult with CDFW as to							
larger trends in bat populations in the area that may be affecting							
roost use and/or determine if adjustments to roost location or							
design are needed.							



		Applicable	Party Responsible for Implementation	Review and	Monitoring and Reporting	Implementation	Verification: Status/ Date Completed/
Mitigation Measure	Impact Statement	Projects	and Reporting	Approval by:	Actions	Schedule	Initials
Mitigation Measure BIO-11: Woodrat Midden Avoidance and Minimization Measures This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which suitable habitat for special-status	Impact 3.3a (BIO-1) – Potential to have a substantial adverse effect, either directly or through habitat modifications, on any species	Construction: Palmdale Ditch Conversion Project; potentially Pure	Palmdale Water District; Qualified Biologist; Construction	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
woodrat species is identified within 10 feet of the Project component site during the habitat assessment conducted pursuant to Mitigation Measure BIO-1 . PWD shall retain a qualified biologist to conduct a pre-construction survey for active woodrat middens in and adjacent to areas anticipated for ground disturbance or vegetation removal in the Project component site within 30 days prior to initial site disturbance at each construction site. A report documenting pre-	identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	Water Antelope Valley and Existing Wells Rehabilitation and/or Replacement	Contractor		2. Retain a Qualified Biologist to conduct a pre-construction survey for active woodrat middens. Review and approve survey report.	2. Pre-construction	2
construction survey results, including the location of any active woodrat middens, shall be submitted to PWD for review and approval. If no active woodrat middens are observed during the pre-construction survey, no additional action shall be required. All occupied woodrat middens shall be mapped and flagged for avoidance to the extent feasible, with a minimum 10-foot buffer surrounding the active	Impact 3.3f (BIO-6) – Potential to conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or State habitat	based on results of Mitigation Measure BIO-1			3. If avoidance of occupied woodrat middens is not feasible, retain a Qualified Biologist to "daylight" middens. Review and approve passive relocation report.	3. Pre-construction	3
midden. If avoidance is not feasible, middens shall be "daylighted" by a qualified biologist one night before anticipated vegetation removal or ground disturbance within each construction site to allow for the rats to escape and passively relocate prior to disturbance of the area. A brief report documenting the passive relocation actions taken shall be submitted to PWD for review and approval prior to commencement of Project component construction activities within 10 feet of the active woodrat middens.	conservation plan.				4. If occupied woodrat middens are observed, perform site inspections, once at the start of construction and once half-way through construction, to verify contractor compliance with avoidance buffer.	4. Construction	4
					5. Retain copies of survey report, inspection record, and passive relocation report in project file.	5. Post- construction	5



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
 Mitigation Measure Mitigation Measure BIO-12: Pre-construction Surveys for Special-Status Wildlife Species PWD shall implement the following preconstruction surveys for special-status wildlife species: All Project Components except Palmdale Ditch Conversion Project: If suitable habitat for any special-status wildlife species with the potential to occur (e.g., western pond turtle, Northern California legless lizard, California legless lizard, California glossy snake, coast horned lizard, two-striped gartersnake, pallid bat, Townsend's big-eared bat, San Diego desert woodrat) is identified during the habitat assessment conducted pursuant to Mitigation Measure BIO-1, pre-construction surveys shall be required prior to ground-disturbing activities. If any of these species are identified on or near construction areas during the preconstruction survey, Mitigation Measures BIO-13 through BIO-16 shall be implemented. Additional avoidance measures may include establishing a buffer around the species or host plants if a population of a special-status species is observed. 	Impact Statement Impact 3.3a (BIO-1) – Potential to have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service. Impact 3.3f (BIO-6) – Potential to conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or State habitat conservation plan.			Approval by: Palmdale Water District			-
biologist to conduct a pre-activity clearance survey for special-status reptile species no more than seven days prior to commencement of ground or vegetation disturbing activities at each work area within the Palmdale Ditch Conversion project site. The pre-activity survey shall utilize methods to detect special-status reptile species with potential to occur at the site. Prior to commencement of Palmdale Ditch Conversion project construction activities at each work area, the methods and results of the surveys and, if a special-status reptile species is found, recommended species-specific avoidance and/or relocation measures, shall be submitted in a report for review and approval by PWD, and implemented during construction activities. These measures may include, but would not be limited to, the qualified biologist conducting a sweep of the proposed impact areas before the daily start of construction in each work area in the locations where special-status reptile individuals were observed during the pre-construction survey, or have moderate or high potential to occur based on habitat suitability as determined by the qualified biologist confirms special-status reptiles are not present, or if present, until they have moved out of harm's on their own, as determined by the qualified biologist, or have been moved out of harm's way to adjacent suitable habitat by the qualified biologist.					recommended by the Qualified Biologist. 5. Retain copies of survey report and mitigation efforts in project file.	5. Post- construction	5



		Applicable	Party Responsible for Implementation	Review and	Monitoring and Reporting	Implementation	Verification: Status/ Date Completed/
Mitigation Measure	Impact Statement	Projects	and Reporting	Approval by:	Actions	Schedule	Initials
Mitigation Measure BIO-13: General Best Management Practices This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which special-status wildlife species are identified during the pre-construction survey conducted pursuant to Mitigation Measure BIO-12 and/or for which protected oak trees, oak woodlands,	Impact 3.3a (BIO-1) – Potential to have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive,	Construction: Palmdale Ditch Conversion Project; potentially Pure Water Antelope	Palmdale Water District; Construction Contractor	Palmdale Water District	 Confirm that contract documents include mitigation measure. Perform site inspections, once 	1. Contracting 2. Construction	1
 California juniper, or native desert vegetation may be impacted. PWD shall require construction contractor(s) and their personnel to adhere to the following general BMPs during construction: Construction-related vehicles shall observe a 10-mile-per-hour speed 	or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	Valley and Existing Wells Rehabilitation and/or Replacement			at the start of construction and once half-way through construction, to verify contractor compliance with best management practices.	2. Construction	
 limit within the unpaved limits of construction. All open trenches or excavations shall be fenced and/or sloped to prevent entrapment of wildlife species. All food-related trash items such as wrappers, cans, bottles, and food scraps generated during construction shall be disposed of in closed containers only and removed daily from the construction site. No deliberate feeding of wildlife shall be allowed. No pets shall be allowed on the construction site. 	Impact 3.3e (BIO-5) – Potential to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. Impact 3.3f (BIO-6) – Potential to	based on results of Mitigation Measure BIO-12			3. Retain copies of inspection records in project file.	3. Post- construction	3
 No firearms shall be allowed on the construction site. Vehicle or equipment maintenance shall be performed in designated staging areas. Access to the construction area outside of established work hours for the proposed Palmdale Ditch Conversion project shall be prohibited. If construction must occur at night (i.e., between dusk and dawn), all lighting shall be shielded and directed downward to minimize the 	conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or State habitat conservation plan.						
 potential for glare or spillover. During construction, heavy equipment shall be operated in accordance with standard BMPs. All equipment used on-site shall be properly maintained to avoid leaks of oil, fuel, or residues. Provisions shall be in place to remediate accidental spills. While encounters with special-status species are not anticipated, any 							
 While encounters with special-status species are not anticipated, any worker who inadvertently injures or kills a special-status species or finds one dead, injured, or entrapped shall immediately report the incident to the construction foreman or biological monitor (required under Mitigation Measure BIO-16). The construction foreman or biological monitor shall immediately notify PWD. 							



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Mitigation Measure	Impact Statement	Applicable Projects	Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Completed/ Initials
Mitigation Measure BIO-14: Work Limit Delineation This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which special-status wildlife species are identified during the pre-construction survey conducted pursuant to Mitigation	Impact 3.3a (BIO-1) – Potential to have a substantial adverse effect, either directly or through habitat modifications, on any species	Construction: Palmdale Ditch Conversion Project; potentially Pure	Palmdale Water District; Construction Contractor	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
Measure BIO-12 and/or for which protected oak trees, oak woodlands, California juniper, or native desert vegetation may be impacted. PWD shall clearly identify work area limits on design and construction plans and shall require its construction contractor(s) to delineate and clearly mark approved construction work area limits with flagging or temporary orange construction fencing in the field prior to initial ground disturbing activities (including, but not limited to, site preparation, staging and mobilization, vegetation	identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	Water Antelope Valley and Existing Wells Rehabilitation and/or Replacement based on results of			2. Perform site inspections, once at the start of construction and once half-way through construction, to verify contractor compliance with work limit delineations.	2. Construction	2
clearance/mowing/trimming, grading, and excavation). The marked boundaries shall be maintained for the duration of construction activities in each work area and shall be clearly visible to personnel on foot and by heavy equipment operators. Fencing or other barriers shall be placed on the impact side of the work area limit (i.e., within the construction site boundaries) to reduce the potential for encroachment and additional vegetation loss within adjacent open	Impact 3.3e (BIO-5) – Potential to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.	Mitigation Measure BIO-12			3. Retain copies of inspection records in project file.	3. Post- construction	3
space. Fencing shall be installed pursuant to the approved construction and grading plans. Prior to initial ground disturbing activities (including, but not limited to, site preparation, staging and mobilization, vegetation clearance/mowing/trimming, grading, and excavation), the biological monitor (if required under Mitigation Measure BIO-16) shall verify the limits of construction have been properly staked and are readily identifiable. Employees shall strictly limit their activities and vehicles to the designated construction area,	Impact 3.3f (BIO-6) – Potential to conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or State habitat conservation plan.						
staging areas, and routes of travel. Intrusion by unauthorized vehicles outside of construction limits shall be prohibited, with control exercised by an on-site foreman. All temporary fencing shall be removed only after the conclusion of all grading, clearing, and construction activities at each construction site.							



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Mitigation Measure BIO-15: Construction Worker Environmental Awareness Program This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which special-status wildlife species are	Impact 3.3a (BIO-1) – Potential to have a substantial adverse effect, either directly or through habitat modifications, on any species	Construction: Palmdale Ditch Conversion Project; potentially Pure	Palmdale Water District; Qualified Biologist; Construction	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
identified during the pre-construction survey conducted pursuant to Mitigation Measure BIO-12 and/or for which protected oak trees, oak woodlands, California juniper, or native desert vegetation may be impacted. PWD shall retain a qualified biologist to conduct a preconstruction WEAP training for all personnel working on the Project component. The WEAP shall aid workers in	identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or	Water Antelope Valley and Existing Wells Rehabilitation and/or	Contractor		2. Retain a Qualified Biologist to conduct WEAP training. Review and approve WEAP training materials.	2. Pre-construction	2
personnel working on the Project component. The WEAP shall ald workers in recognizing special-status species and regulated biological resources known to occur (e.g., western Joshua trees, sensitive natural communities, jurisdictional waters or wetlands) or potentially occurring on the Project component site (as determined by the preconstruction survey conducted pursuant to Mitigation Measure BIO-12 and the qualified biological monitor identified in Mitigation Measure BIO-16 and as confirmed by the results of the focused surveys conducted pursuant to Mitigation Measures BIO-2 through BIO-11) and focus on conditions and protocols necessary to avoid and minimize potential impacts to biological resources. All personnel associated with construction of the Project component shall attend the WEAP training prior to initiation of construction activities (including, but not limited to, site preparation, staging and mobilization, vegetation clearance/mowing/trimming, grading, and excavation). The training shall include information about the special-status species potentially occurring within the Project component site, identification of special- status species and habitats, a description of the regulatory status and general ecological characteristics of special-status resources, and a review of the limits of construction and measures required to avoid and minimize impacts to biological resources within the work area. A fact sheet conveying this information shall also be prepared for distribution to all contractors, their employees, and other personnel involved with construction. All employees working at the Project component construction site shall sign a form provided by the trainer documenting they have attended the WEAP and understand the information presented to them. The signed form shall be responsible for ensuring crew members adhere to the guidelines and restrictions designed to avoid impacts to special-status species and other regulated biological resources. If new personnel are brought onto the Project	Department of Fish and Game or U.S. Fish and Wildlife Service. Impact 3.3e (BIO-5) – Potential to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. Impact 3.3f (BIO-6) – Potential to conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or State habitat conservation plan.	and/or Replacement based on results of Mitigation Measure BIO-12			3. Retain copies of WEAP training materials and attendance records in project file.	3. Post- construction	3



							Verification
			Party Responsible				Status/
			for				Date
Mitigation Measure	Impact Statement	Applicable Projects	Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Completed, Initials
Mitigation Measure BIO-16: Qualified Biological Monitor	Impact 3.3a (BIO-1) – Potential to	Construction:	Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	1.
This mitigation measure is applicable to the Palmdale Ditch Conversion project	have a substantial adverse effect,	Palmdale Ditch	District; Qualified	District	documents include mitigation	J	
and other Project components for which special-status wildlife species are	either directly or through habitat	Conversion Project;	Biological Monitor;		measure.		
identified during the pre-construction survey conducted pursuant to Mitigation	modifications, on any species	potentially Pure	Construction				
Measure BIO-12 and/or for which protected oak trees, oak woodlands,	identified as a candidate, sensitive,	Water Antelope	Contractor		2. Retain a Qualified Biological	2. Construction	2.
California juniper, or native desert vegetation may be impacted. PWD shall retain	or special status species in local or	Valley and Existing			Monitor for monitoring during		
a qualified biological monitor with relevant experience with the taxa and species	regional plans, policies, or	Wells			initial ground disturbance or		
in the Antelope Valley desert and mountain foothills for which pre-construction	regulations, or by the California	Rehabilitation			vegetation removal activities.		
surveys, monitoring, or other support is required during Project component	Department of Fish and Game or	and/or			Review and approve monitoring		
construction (potentially including, but not limited to, special-status plants,	U.S. Fish and Wildlife Service.	Replacement			logs on a weekly basis.		
Northern California legless lizard, coast horned lizard, raptors, nesting birds,		based on results of					
roosting bats, woodrats, and those special-status species with potential to occur	Impact 3.3e (BIO-5) – Potential to	Mitigation			3. Retain monitoring logs in	3. Post-	3
based on the results of pre-activity and focused surveys conducted prior to	conflict with any local policies or	Measure BIO-12			project file.	construction	
Project component initiation in accordance with Mitigation Measures BIO-2	ordinances protecting biological						
through BIO-12 and Mitigation Measure BIO-17). The qualified biologist role	resources, such as a tree						
may be satisfied by one or more individuals depending on qualifications and	preservation policy or ordinance.						
experience with one or more species and taxa. The qualified biologist shall be							
present during initial ground disturbance or vegetation removal activities and	Impact 3.3f (BIO-6) – Potential to						
shall have the authority to temporarily stop work if one or more special-status	conflict with the provisions of an						
species are observed that may be impacted by Project component activities. The	adopted habitat conservation plan,						
biologist shall relocate special-status amphibian, reptile, or mammals present	natural community conservation						
within anticipated Project component impact areas to suitable undisturbed	plan, or other approved local,						
habitat outside the areas directly and indirectly affected by construction	regional, or State habitat						
activities. The biologist shall hold the requisite incidental take permits or	conservation plan.						
authorizations for the capture and handling of the species, if applicable.							
The biologist shall recommend measures to ensure compliance with avoidance							
and minimization measures, applicable permit conditions, and conditions							
required for observed special-status species. When the biologist is present on							
site, they shall be responsible for:							
 Verifying Project compliance with environmental mitigation measures 							
and requirements;							
 Establishing lines of communication and reporting methods in 							
coordination with the construction crew foreman and PWD;							
Conducting pre-construction clearance sweeps for special-status							
species and nesting birds, as needed;							
Documenting special-status species observations;							
Recommending preventative or protective actions to avoid and							
minimize potential Project impacts to regulated biological resources where feasible;							
 Recommending actions to be taken in the event of non-compliance; 							
and							
Daily and weekly reporting of compliance.							
Monitoring logs documenting the above shall be submitted to PWD for review							
and approval for the duration of Project component construction.							



			Party Responsible for				Verification: Status/ Date
Mitigation Measure	Impact Statement	Applicable Projects	Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Completed/ Initials
Mitigation Measure BIO-17: Nesting Bird Surveys and Avoidance and Mitigation Measures This mitigation measure is applicable to the Palmdale Ditch Conversion project and other Project components for which suitable habitat for nesting birds is identified during the habitat assessment conducted pursuant to Mitigation Measure BIO-1. Project component construction activities shall occur outside of the bird breeding season (February 1 to August 31) to the extent practicable. If construction must commence within the bird breeding season, PWD shall retain a qualified biologist to conduct a pre-construction nesting bird survey within the disturbance footprint plus a minimum buffer of 100 feet to a maximum buffer of 500 feet depending on species, work activity, and existing ambient conditions, no more than seven days prior to initiation of ground disturbance (including, but not limited to, site preparation, staging and mobilization, vegetation clearance/mowing/trimming, grading, and excavation) in each work area. If the Project component is phased or construction activities stop for more than one week, a subsequent pre-construction nesting bird survey shall be conducted prior to each phase of construction in sufficient time to perform this survey adequately and completely. A brief report of the nesting bird survey results, if applicable, shall be submitted to PWD for review and approval prior to ground disturbance and/or vegetation removal activities.	Impact Statement Impact 3.3a (BIO-1) – Potential to have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service. Impact 3.3d (BIO-4) – Potential to interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites. Impact 3.3f (BIO-6) – Potential to conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or State habitat conservation plan.	Projects Construction: Palmdale Ditch Conversion Project; potentially Pure Water Antelope Valley and Existing Wells Rehabilitation and/or Replacement based on results of Mitigation Measure BIO-1	and Reporting Palmdale Water District; Qualified Biologist; Construction Contractor	Approval by: Palmdale Water District	Actions 1. Confirm that contract documents include mitigation measure. 2. If construction must commence within the bird breeding season, retain a Qualified Biologist to conduct pre-construction nesting bird surveys. 3. If nests are identified, perform site inspections, once at the start of construction and once halfway through construction, to verify contractor compliance with avoidance buffer. 4. Retain a Qualified Biologist to monitor active nests once per week Review and approve weekly monitoring results. 5. Retain copies of survey results, monitoring results, and inspection records in project file.	Schedule 1. Contracting 2. Pre-construction 3. Construction 4. Construction 5. Post-construction	Initials 1 2 3 4 5



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Mitigation Measures BIO-18: Invasive Plant Species Control Measures For the Palmdale Ditch Conversion project and other Project components for which protected oak trees, oak woodlands, California juniper, or native desert	Impact 3.3a (BIO-1) – Potential to have a substantial adverse effect, either directly or through habitat	Construction: Palmdale Ditch Conversion Project;	Palmdale Water District; Construction	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
vegetation may be impacted, PWD shall require the construction contractor(s) and their construction personnel to ensure equipment is free of invasive plant seeds, propagules, and any material which may contain them (e.g., soil). For purposes of this mitigation measure, invasive plant species shall include all species with a California Invasive Plant Council rating of moderate or high. Prior to entering the construction site, equipment shall be inspected to confirm it is free of mud, dirt, and debris. Tire track stations shall be installed at construction site entrances and exits. Staging areas and access routes shall avoid weed	modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	potentially Pure Water Antelope Valley and Existing Wells Rehabilitation and/or Replacement if protected oak	Contractor		2. Perform site inspections, once at the start of construction and once half-way through construction, to verify contractor compliance with invasive plant species control measures.	2. Construction	2
infestations, and infestations within the work area(s) shall be flagged and avoided to the maximum extent feasible. Only certified weed-free materials (e.g., fiber rolls, straw, and fill) shall be used during construction.	Impact 3.3e (BIO-5) – Potential to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. Impact 3.3f (BIO-6) – Potential to	trees, oak woodlands, California juniper, or native desert vegetation may be impacted			3. Retain copies of inspection records in project file.	3. Post- construction	3
	conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or State habitat conservation plan.						



Mitigation Measures BIO-19: Sensitive Natural Communities and	Impact 3.3b (BIO-2) – Potential to	Construction:	Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	1
Jurisdictional Features Avoidance, Minimization Measures	have a substantial adverse effect on	Palmdale Ditch	District; Qualified	District	documents include mitigation	_	
Sensitive natural communities and jurisdictional features identified for avoidance	any riparian habitat or other	Conversion Project;	Biologist;		measure.		
within the Project component site shall be demarcated using brightly colored	sensitive natural community	potentially Pure	Construction				
flagging, as necessary, and avoided to the extent feasible during Project	identified in local or regional plans,	Water Antelope	Contractor		2. If impacts to sensitive natural	2. Pre-construction	2.
component construction. The marked boundaries shall be maintained for the	policies, regulations, or by the	Valley and Existing			communities cannot be avoided,		
duration of Project component construction activities in each work area and	CDFW or USFWS.	Wells			identify compensatory		
shall be clearly visible to personnel on foot and by heavy equipment operators.		Rehabilitation			mitigation.		
Construction personnel shall be instructed to avoid these areas as much as	Impact 3.3c (BIO-3) – Potential to	and/or					
feasible. All temporary flagging shall be removed only after the conclusion of all	have a substantial adverse effect on	Replacement			3. If on-site or off-site	3. Pre-construction	3.
grading, clearing, and construction activities at each construction site.	State or federally protected	based on results of			restoration would occur, retain a		
Compliance with this measure shall be documented in the biological monitoring	wetlands (including, but not limited	Mitigation			Qualified Biologist to develop a		
reporting, if required under Mitigation Measure BIO-16 .	to, marsh, vernal pool, coastal, etc.)	Measure BIO-1			Habitat Revegetation,		
······································	through direct removal, filling,				Restoration, and Monitoring		
In addition, PWD shall require its construction contractor(s) and their personnel	hydrological interruption, or other				Program and submit to CDFW		
to implement the following measures:	means.				for approval.		
to implement the following measures.	incurs.						
Any material/spoils generated from construction shall be located away	Impact 3.3e (BIO-5) – Potential to				4. Perform site inspections, once	4. Construction	4
from sensitive natural communities and jurisdictional features and	conflict with any local policies or				at the start of construction and	4. construction	<u>-</u>
protected from stormwater run-off using temporary perimeter	ordinances protecting biological				once half-way through		
sediment barriers such as berms, silt fences, fiber rolls, covers,	resources, such as a tree				construction, to verify contractor		
sand/gravel bags, and straw bale barriers, as appropriate.	preservation policy or ordinance.				compliance with avoidance and		
 Materials, hand-held equipment and other non-heavy or non-vehicle 	preservation policy of orainance.				minimization measures.		
equipment shall be stored on impervious surfaces or plastic ground	Impact 3.3f (BIO-6) – Potential to				minimization measures.		
covers to prevent any spills or leakage from contaminating the ground	conflict with the provisions of an				5. Retain copies of inspection	5. Post-	5
and generally at least 50 feet from sensitive natural communities and	adopted habitat conservation plan,				records and compensatory	construction	J
jurisdictional areas.	natural community conservation				mitigation (including Habitat	construction	
 Any spillage of material shall be stopped if it can be done safely. The 	plan, or other approved local,				Revegetation, Restoration, and		
contaminated area shall be cleaned, and any contaminated materials	regional, or State habitat				Monitoring Program, if		
shall be properly disposed of. For all spills, the Project foreman and	conservation plan.				applicable) in project file.		
biological monitor (if required under Mitigation Measure BIO-16)					applicable) in project file.		
shall be notified.							
shan be notified.							
If impacts to sensitive natural communities cannot be avoided, PWD shall							
identify compensatory mitigation prior to disturbance of the features. Mitigation							
may take the form of permittee-responsible, on-site or off-site mitigation or the							
purchase of credits from an approved mitigation bank or through applicant-							
sponsored mitigation (e.g., purchase and/or dedication of land for mitigation). If							
required, compensatory mitigation for unavoidable impacts to sensitive							
vegetation communities shall be accomplished at a minimum ratio of 1:1;							
however, the final ratio shall be determined and approved by CDFW. If on-site or							
off-site restoration would occur, PWD shall retain a qualified biologist to							
develop a Habitat Revegetation, Restoration, and Monitoring Program and							
submitted for CDFW approval prior to the commencement of Project							
component construction (including, but not limited to, site preparation, staging							
and mobilization, vegetation clearance/mowing/trimming, grading, and							
excavation). At a minimum, the program shall include the following:							
A description of the purpose and goals of the restoration							
 Identification of success criteria and performance standards 							
 Methods of site preparation, including topsoil salvage and replacement 							
procedures							
Irrigation plan and schedule							
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Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
 Best Management Practices (BMPs) Maintenance and monitoring program Adaptive management strategies Key stakeholders and responsible parties Funding Contingencies 							



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Mitigation Measure	Impact Statement	Applicable Projects	Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Completed/ Initials
Mitigation Measures BIO-20: Aquatic Resources Delineation and	Impact 3.3b (BIO-2) – Potential to	Construction: Pure	Palmdale Water	Palmdale Water	1. Retain a Qualified Biologist to	1. Pre-construction	1
Compensatory Mitigation	have a substantial adverse effect on	Water Antelope	District; Qualified	District	conduct aquatic resources		
An aquatic resources delineation shall be conducted to determine the limits of	any riparian habitat or other	Valley; Existing	Biologist		delineation. Review and		
potential jurisdictional aquatic resources within the vicinity of proposed Project	sensitive natural community	Well Rehabilitation	_		approved report.		
components. The results of the aquatic resources delineation shall be used	identified in local or regional plans,	and/or					
during proposed Project component design to determine if aquatic resources	policies, regulations, or by the	Replacement;			2. If impacts to jurisdictional	2. Pre-construction	2
can be avoided. If aquatic resources can be avoided, then no compensatory	CDFW or USFWS.	Palmdale Ditch			waters and wetlands cannot be		
measures are necessary. Avoidance of aquatic resources within Project		Conversion Project			avoided, identify compensatory		
component sites shall be implemented according to Mitigation Measure BIO-	Impact 3.3c (BIO-3) – Potential to				mitigation.		
19.	have a substantial adverse effect on						
	State or federally protected				3. If on-site mitigation is	3. Pre-construction,	3
If impacts to jurisdictional waters and wetlands cannot be avoided, PWD shall	wetlands (including, but not limited				proposed, retain a Qualified	Construction, and	
identify compensatory mitigation prior to disturbance of the features.	to, marsh, vernal pool, coastal, etc.)				Biologist to develop and	Post-construction	
Compensatory mitigation for impacts to the jurisdictional extents of the	through direct removal, filling,				implement a Compensatory		
Palmdale Ditch shall be provided at a minimum 0.5:1 ratio given the Ditch's	hydrological interruption, or other				Mitigation Plan in coordination		
altered hydrology as a manmade structure constructed entirely in uplands that is	means.				with the Lahontan Regional		
artificially lined in a number of areas (concrete, synthetic liner, elevated flume)					Water Quality Control Board,		
and its controlled flow that fluctuates in quantity and timing from year to year	Impact 3.3f (BIO-6) – Potential to				CDFW, and/or United States		
depending on annual climatic conditions and available water supply in Littlerock	conflict with the provisions of an				Army Corps of Engineers.		
Reservoir. Compensatory mitigation for impacts to other jurisdictional waters	adopted habitat conservation plan,						
and wetlands shall be provided at a minimum 1:1 ratio, unless a higher ratio is	natural community conservation				4. Retain copies of delineation	4. Post-	4
required by Lahontan RWQCB, CDFW, and/or USACE. Mitigation may take the	plan, or other approved local,				report and Compensatory	construction	
form of permittee-responsible, on-site or off-site mitigation or the purchase of	regional, or State habitat				Mitigation Plan (including deed		
credits from an approved mitigation bank. If on-site or off-site mitigation is	conservation plan.				restriction/conservation		
proposed, a Compensatory Mitigation Plan shall be prepared that outlines the compensatory mitigation in coordination with the Lahontan RWQCB, CDFW,					easement documentation, if		
and/or USACE. If on-site mitigation is proposed, the Compensatory Mitigation					applicable) in project file.		
Plan can be integrated with the Habitat Revegetation, Restoration, and							
Monitoring Program described in Mitigation Measure BIO-19 and shall identify							
those portions of the site, such as relocated drainage routes, that contain							
suitable characteristics (e.g., hydrology) for restoration. Determination of							
mitigation adequacy shall be based on comparison of the restored habitat with							
similar, undisturbed habitat in the site vicinity. The Compensatory Mitigation							
Plan shall include remedial measures if performance criteria are not met. If the							
Compensatory Mitigation Plan is not integrated with the Habitat Revegetation,							
Restoration, and Monitoring Program described in Mitigation Measure BIO-19,							
the same reporting requirements shall apply for monitoring and evaluation of							
Compensatory Mitigation Plan implementation as detailed in Mitigation							
Measure BIO-19.							
If off site mitigation is proposed off site land shall be preserved that the devide							
If off-site mitigation is proposed, off-site land shall be preserved through a deed							
restriction or conservation easement and the Compensatory Mitigation Plan							
shall identify an approach for funding assurance for the long-term management of the conserved land.							
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			Party Responsible for				Verification: Status/ Date
Mitigation Measure	Impact Statement	Applicable Projects	Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Completed/ Initials
Mitigation Measures BIO-21: Groundwater-Dependent Ecosystems	Impact 3.3b (BIO-2) – Potential to	Operation:	Palmdale Water	Palmdale Water	1. Install groundwater	1. Pre-construction	1.
If the proposed Project (particularly rehabilitation of groundwater wells 6A, 15,	have a substantial adverse effect on	Existing Well	District	District	monitoring stations and collect		
18, 19, 30, and/or 33 and/or replacement wells) is in proximity to mapped	any riparian habitat or other	Rehabilitation			baseline data.		
groundwater-dependent ecosystems (GDEs), then representative groundwater	sensitive natural community	and/or					
monitoring stations shall be installed within GDEs to track groundwater levels	identified in local or regional plans,	Replacement			2. Conduct monitoring for a	2. Post-	2.
and vegetation responses over time. Prior to implementation of the proposed	policies, regulations, or by the				minimum 5-year period	construction	
Project, the GDEs that may potentially be affected by the proposed Project shall	CDFW or USFWS.				following any increase in		
be mapped to identify the baseline conditions, including the extent of					groundwater pumping that is		
vegetation communities (e.g., via vegetation mapping on the ground and via					beyond the existing range of		
remote sensing) and composition of vegetation (e.g., percent cover via transects					pumping currently conducted.		
on the ground) that comprises each vegetation community. Baseline data shall							
be collected, and long-term monitoring shall be conducted for areas of potential					3. If GDEs are impacted by the	3. Post-	3
affect as well as representative control sites with similar conditions (to account					Project, implement adaptive	construction	
for other variables, such as changes in climate, precipitation, etc.). Thresholds for					management measures or on-		
changes in vegetation over time shall be established prior to proposed Project					site/off-site mitigation along		
implementation (e.g., greater than 20 percent vegetation decline that correlates					with monitoring for a minimum		
with increased pumping and decreased groundwater levels). Monitoring shall be					of an additional three years.		
conducted for a minimum 5-year period following any increase in groundwater							
pumping that is beyond the existing range of pumping currently conducted (i.e.,					4. Retain copies of baseline and	4. Post-	4
prior to the Project) for the life of the proposed Project. If there is no impact to					post-project monitoring data	construction	
GDEs, then no further mitigation is necessary.					and documentation of adaptive		
					management measures in		
If GDEs are impacted by the proposed Project, then adaptative management					project file.		
measures shall be implemented to reduce pumping to changes in vegetation to							
allow for re-establishment of vegetation communities to pre-existing conditions,							
which will be determined by monitoring for a minimum of an additional three							
years or until pre-existing conditions (i.e., both groundwater monitoring well							
levels and GDE vegetative cover) are obtained. Alternatively, if adaptive							
management measures cannot be implemented to reduce pumping and re-							
establish pre-existing conditions, then mitigation for permanent impacts to							
GDEs would include:							
On and/an off site energian material is a sublement of the line is the line of the line is							
On- and/or off-site creation, restoration, and/or enhancement of in-kind GDE							
habitat at a ratio no less than 1:1 for permanent impacts. Off-site creation, restoration, and/or enhancement at a ratio no less than 1:1 may include the							
purchase of mitigation credits at an off-site mitigation bank or in-lieu fee							
program.							
Cultural Resources							
Mitigation Measure CUL-1: Cultural Resources Personnel Professional	Impact 3.4a (CUL-1) – Potential to	Construction: Pure	Palmdale Water	Palmdale Water	1. Retain an archaeologist and	1. Design	1.
Qualifications Standards	cause a substantial adverse change	Water Antelope	District;	District	architectural historian to oversee	1. 2 001911	··
PWD shall retain an archaeologist and architectural historian meeting the	in the significance of a historical	Valley; Existing	Archaeologist;		mitigation related to cultural		
minimum professional qualifications standards (PQS) set forth by the Secretary	resource as defined in CEQA	Well Rehabilitation	Architectural		resources.		
of the Interior (SOI) (codified in 36 Code of Federal Regulations [CFR] Part 61; 48	Guidelines Section 15064.5.	and/or	Historian				
FR 44738-44739) (Qualified Archaeologist and Qualified Architectural Historian)		Replacement;	-		2. File cultural resources	2. Post-	2.
to oversee the implementation of all mitigation related to cultural resources. All	Impact 3.4b (CUL-2) – Potential to	Palmdale Ditch			documentation with the South-	construction	
cultural resources documentation resulting from the program shall be filed with	cause a substantial adverse change	Conversion Project			Central Coastal Information		



			Party Responsible for				Verification: Status/ Date
Mitigation Measure	Impact Statement	Applicable Projects	Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Completed/ Initials
<u>y</u>	archaeological resource as defined in CEQA Guidelines Section 15064.5.				Center upon document completion.		
Mitigation Measure CUL-2: Historic Resources Assessment Prior to Project-related construction activities involving demolition or alteration of buildings and/or structures or the construction of above ground infrastructure, the Qualified Architectural Historian shall conduct a historic resources assessment of affected properties over 45 years in age. The assessment shall include a records search at the South-Central Coastal	Impact 3.4a (CUL-1) – Potential to cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines Section 15064.5.	Construction: Pure Water Antelope Valley; Existing Well Rehabilitation and/or Replacement	Palmdale Water District; Qualified Architectural Historian	Palmdale Water District	1. Retain a Qualified Architectural Historian to conduct a historic resources assessment of affected properties over 45 years in age.	1. Design	1
Information Center or review of a prior record search conducted within the previous one year; a review of other pertinent archives and sources; a pedestrian field survey; recordation of all identified historic architectural resources on California Department of Parks and Recreation (DPR) 523 forms; evaluation of resources which may be eligible for listing in the California Register under Criteria 1-4 (i.e., meets the definition for historical resource in <i>CEQA Guidelines</i>					2. If a historic architectural resource is found eligible, confirm design is consistent with the Secretary of the Interior's Standards.	2. Design	2
subdivision 15064.5[a]), and for local listing; and preparation of a technical report documenting the methods and results of the assessment. If a historic architectural resource is found eligible, the Qualified Architectural Historian shall coordinate with the PWD to ensure the Project component is constructed in a manner consistent with the Secretary of the Interior's Standards.					3. Retain a copy of the historic resources assessment and design consistency evaluation in project file.	3. Post- construction	3
Mitigation Measure CUL-3: Archaeological Resources Assessment Prior to development of previously unevaluated Project components that involve ground disturbance, PWD shall retain a Qualified Archaeologist, defined as meeting the Secretary of the Interior's Professional Qualification Standards for archaeology (codified in 36 CFR Part 61; 48 FR 44738-44739), to conduct an	Impact 3.4a (CUL-1) – Potential to cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines Section 15064.5.	Construction: Pure Water Antelope Valley; Existing Well Rehabilitation and/or	Palmdale Water District; Qualified Archaeologist	Palmdale Water District	1. Retain a Qualified Archaeologist to conduct an archaeological resources assessment.	1. Design	1
archaeological resources assessment including: a records search update at the South Central Coastal Information Center; a pedestrian field survey, where deemed appropriate by the Qualified Archaeologist; recordation of all identified archaeological resources on California Department of Parks and Recreation 523 forms; and preparation of a technical report documenting the methods and results of the study, and providing an assessment of the Project area's	Impact 3.4b (CUL-2) – Potential to cause a substantial adverse change in the significance of an archaeological resource as defined in CEQA Guidelines Section 15064.5.	Replacement			2. Implement Mitigation Measure BIO-4 in accordance with recommendations of archaeological resources assessment.	2. Construction	2
archaeological sensitivity and the potential to encounter subsurface archaeological resources and human remains. All identified archaeological resources shall be assessed for the Project's potential to result in direct and/or indirect effects to those resources and any archaeological resource that cannot be avoided shall be evaluated for its potential significance prior to PWD's approval of Project plans and publication of subsequent CEQA documents. The Qualified Archaeologist shall provide recommendations regarding archaeological monitoring to be conducted in accordance with Mitigation Measure CUL-4 , protection of avoided resources and/or recommendations for additional work or treatment of significant resources that will be affected by the Project.					3. Retain a copy of the archaeologist resources assessment in project file.	3. Post- construction	3



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Mitigation Measure CUL-4: Construction Worker Cultural Resources	Impact 3.4a (CUL-1) – Potential to	Construction: Pure	Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	1
Sensitivity Training	cause a substantial adverse change	Water Antelope	District; Qualified	District	documents include mitigation	5	
For Project components involving ground disturbance, the Qualified	in the significance of a historical	Valley; Existing	Archaeologist (or		measure.		
Archaeologist shall implement a cultural resources sensitivity training program.	resource as defined in CEQA	Well Rehabilitation	designee);				
The Qualified Archaeologist, or their designee, shall instruct all construction	Guidelines Section 15064.5.	and/or	Construction		2. Retain a Qualified	2. Pre-construction	2
personnel of the types of cultural materials that may be encountered, cultural		Replacement;	Contractor		Archaeologist to conduct Worker		
sensitivity issues, applicable laws protecting cultural resources, the proper	Impact 3.4b (CUL-2) – Potential to	Palmdale Ditch			Cultural Resources Sensitivity		
treatment procedures to be enacted in the event of an inadvertent discovery of	cause a substantial adverse change	Conversion Project			Training. Review and approve		
cultural materials or human remains, and confidentiality of discoveries. Tribal	in the significance of an				training materials.		
representatives from each of the tribes consulting on the Palmdale Ditch	archaeological resource as defined						
Conversion Project shall be allowed to attend and/or participate in the training	in CEQA Guidelines Section 15064.5.				3. Retain copies of training	3. Post-	3
should they elect to and shall be given a minimum of ten days' notice prior to					attendance and training	construction	
the training. In the event that construction crews are phased, additional trainings	Impact 3.4d (TCR-1) – Potential to				materials in the project file.		
shall be conducted for new construction personnel. The PWD, or their	result in a substantial adverse						
construction contractor(s), shall ensure construction personnel are made	change in the significance of a tribal						
available for and attend the training. PWD shall retain documentation	cultural resource, defined in Public						
demonstrating attendance.	Resources Code Section 21074.						



Mitigation Measure CUL-5: Archaeological Resources Monitoring	Impact 3.4a (CUL-1) – Potential to	Construction: Pure	Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	1
Archaeological monitoring shall be required for the proposed Project	cause a substantial adverse change	Water Antelope	District; Qualified	District	documents include mitigation		
components and specifically for the Palmdale Ditch Conversion Project as	in the significance of a historical	Valley; Existing	Archaeologist;		measure.		
outlined below.	resource as defined in CEQA	Well Rehabilitation	Archaeological				
Proposed Project Requirements. Archaeological monitoring shall be	Guidelines Section 15064.5.	and/or	Monitor		2. Retain a Qualified	2. Pre-construction	2
determined by the Qualified Archaeologist based on the results of the		Replacement;			Archaeologist to prepare CRMP.		
archaeological resources assessment conducted under CUL-3 and	Impact 3.4b (CUL-2) – Potential to	Palmdale Ditch			Review and approve/adopt plan.		
requires the preparation of a Cultural Resources Monitoring Plan	cause a substantial adverse change	Conversion Project					
(CRMP) prior to the start of Project-related ground disturbance. The	in the significance of an	5			3. For the Palmdale Ditch	3. Pre-construction	3.
CRMP should discuss the monitoring protocols to be carried out during	archaeological resource as defined				Conversion project, distribute		
Project construction and should outline the appropriate measures to be	in CEQA Guidelines Section 15064.5.				CRMP to tribes consulting on the		
followed in the event that cultural resources are encountered and					project for review. Provide final		
outline requirements for the final monitoring report. In general, for	Impact 3.4d (TCR-1) – Potential to				CRMP to tribes consulting on the		
ground- disturbing activities in geologic units/sediments of Higher	result in a substantial adverse				project, USBR, and USFS.		
Sensitivity for encountering subsurface prehistoric archaeological	change in the significance of a tribal				······································		
resources or human remains, full time archaeological monitoring shall	cultural resource, defined in Public				4. Retain an Archaeological	4. Construction	4.
be conducted, unless the Qualified Archaeologist has established as	Resources Code Section 21074.				Monitor to conduct		
part of the archaeological assessment that previous disturbances have					archaeological monitoring.		
reduced the sensitivity for prehistoric archaeological resources to the					Review and approve monitoring		
extent that no or limited archaeological monitoring is warranted. No					logs on a weekly basis.		
archaeological monitoring shall be required in geologic							
units/sediments of Lower Sensitivity for encountering subsurface					5. Retain copies of CRMP,	5. Post-	5
prehistoric archaeological resources or human remains, or in those					monitoring report, and	construction	J
areas that have been previously subject to monitoring as part of the					monitoring logs in project file.	construction	
Project. If the Qualified Archaeologist determines as a result of the					inomiconing logo in project me.		
archaeological assessment that areas proposed for ground disturbance							
may be sensitive for historic-period archaeological resources, those							
areas shall also be subject to archaeological monitoring at a frequency							
determined by the Qualified Archaeologist. In all cases, the Qualified							
Archaeologist shall have the discretion to modify the frequency of							
monitoring based on soils and stratigraphy observed, the extent of past							
disturbances, and the type of construction methods employed.							
Generally, monitoring will not be required of activities employing							
construction methods such as tunneling and well drilling where soil							
profiles and spoils are not observable to monitors. The archaeological							
monitor(s) shall be familiar with the types of resources that could be							
encountered and shall work under the direct supervision of the							
Qualified Archaeologist. The number of archaeological monitors							
required to adequately observe ground-disturbing activities is							
dependent on the archaeological sensitivity of the area and							
construction scenario and shall be established by the Qualified							
Archaeologist. The archaeological monitor(s) shall keep daily logs							
detailing the types of activities and soils observed, and any discoveries.							
Archaeological monitor(s) shall have the authority to halt and re-direct							
ground-disturbing activities in the event of a discovery until it has been							
assessed for significance and treatment implemented, if necessary,							
based on the recommendations of the Qualified Archaeologist in							
coordination with the PWD and the Native American monitor(s)							
pursuant to TCR-1.							
Palmdale Ditch Conversion Project Requirements. Prior to the start							
of Project-related ground-disturbing activities, a qualified archaeologist							
shall be retained to prepare a CRMP and provide archaeological							
	1	1	1		J	1	



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							Verification:
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		Applicable	Implementation	Review and	Monitoring and Reporting	Implementation	Completed/
Mitigation Measure	Impact Statement	Projects	and Reporting	Approval by:	Actions	Schedule	Initials
monitoring for the Project. The CRMP shall discuss the monitoring							
protocols to be carried out during Project construction and shall outline							
the appropriate measures to be followed in the event that cultural							
resources are encountered. The CRMP shall be submitted to Palmdale							
Water District (PWD) for dissemination to the tribes consulting on the							
Project. Once all parties review and agree to the plan, it shall be							
adopted by PWD – the plan must be adopted prior to permitting for							
the Project. Any and all findings shall be subject to the protocol							
detailed within the CRMP. A copy of the final CRMP shall be provided							
to PWD (and United States Bureau of Reclamation [USBR]/United States							
Forest Service [USFS], depending on land jurisdiction) and the tribes							
consulting on the Project upon completion. Archaeological monitoring							
shall be limited to initial ground disturbance, which is defined as							
construction-related earthmoving of sediments from their native place							
of deposition (which includes, but is not limited to, tree/shrub removal							
and planting, clearing/grubbing, grading, leveling, excavation,							
trenching, compaction, plowing, fence/gate removal and installation,							
drainage and irrigation removal and installation, hardscape installation							
[boulders, walls, etc.], and archaeological work) and does not include							
any secondary movement of sediment that might be required for the							
Project (e.g., backfilling). Archaeological monitoring shall be performed							
under the direction of an archaeologist meeting the Secretary of the							
Interior's Professional Qualification Standards for archaeology (National							
Park Service 1983). The archaeological monitor shall have the authority							
to halt and redirect work should any archaeological resources be							
identified during monitoring. If archaeological resources are							
encountered during ground-disturbing activities, work within 60 feet of							
the find shall halt, and the find shall be evaluated for listing in the							
California Register of Historical Resources (CRHR)/National Register of Historic Places (NRHP). A sufficient number of archaeological monitors							
shall be present each workday to ensure simultaneously occurring							
ground-disturbing activities receive thorough levels of monitoring coverage. Archaeological monitoring may be reduced or halted at the							
discretion of PWD (and USBR/USFS, depending on land jurisdiction), in							
consultation with the qualified archaeologist and the tribes consulting							
on the Project, as warranted by conditions such as encountering							
bedrock, sediments being excavated are fill, or negative findings during							
the first 50 percent of ground disturbance. If monitoring is reduced to							
spot-checking, spot-checking shall occur when ground disturbance							
moves to a new location within the Project site and/or when ground							
disturbance extends to depths not previously reached (unless those							
disturbance extends to depths not previously reached (unless those depths are within bedrock). Furthermore, monitoring may be							
terminated if it is determined the soils within the Area of Potential							
Effects do not have the potential to contain cultural resources.							
Effects do not have the potential to contain cultural resources.							



Mitigation Measure	lunnat Statement	Applicable Projects	Party Responsible for Implementation	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Mitigation Measure CUL-6: Archaeological Resources Discoveries	Impact Statement Impact 3.4a (CUL-1) – Potential to	Construction: Pure	and Reporting Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	
In the event that cultural resources are unexpectedly encountered during	cause a substantial adverse change	Water Antelope	District; Qualified	District	documents include mitigation	1. contracting	
ground-disturbing activities, work within 60 feet of the find shall halt, an	in the significance of a historical	Valley; Existing	Archaeologist;		measure.		
Environmentally Sensitive Area physical demarcation/barrier installed, and a	resource as defined in CEQA	Well Rehabilitation	Construction				
qualified archaeologist meeting the Secretary of the Interior's Professional	Guidelines Section 15064.5.	and/or	Contractor; Tribes		2. If a cultural resource is	2. Construction	2
Qualifications Standards for archaeology (National Park Service 1983) contacted		Replacement;	Consulting on		encountered, conduct site		
immediately to evaluate the resource. If the qualified archaeologist determines	Impact 3.4b (CUL-2) – Potential to	Palmdale Ditch	Project		inspection to verify contractor		
the resource to be Native American in origin, then a representative from the	cause a substantial adverse change	Conversion Project			compliance with stop-work		
tribes consulting on the Project shall also be contacted to participate in the	in the significance of an				procedures.		
evaluation of the resource. If the qualified archaeologist and/or representative	archaeological resource as defined						
from the tribes consulting on the Project determines it to be appropriate,	in CEQA Guidelines Section 15064.5.				3. If the resource is Native	3. Construction	3
archaeological testing for CRHR/NRHP eligibility shall be completed. If the					American in origin, contact a		
resource proves to be eligible for the CRHR/NRHP and significant impacts to the	Impact 3.4d (TCR-1) – Potential to				representative from the tribes		
resource cannot be avoided via Project redesign, a qualified archaeologist shall	result in a substantial adverse				consulting on the Project to		
prepare a data recovery plan tailored to the physical nature and characteristics	change in the significance of a tribal				participate in the resource		
of the resource, pursuant to the requirements of CEQA Guidelines Section	cultural resource, defined in Public				evaluation.		
15126.4(b)(3)(C). Should the find be deemed Native American in origin, all plans	Resources Code Section 21074.						
for analysis shall be reviewed and approved by PWD (and USBR/USFS,					4. Review/approve CRHR/NRHP	4. Construction	4
depending on land jurisdiction) and the tribes consulting on the Project prior to implementation, and all removed material shall be temporarily curated on site.					eligibility evaluation results and data recovery plan, if determined		
The data recovery plan shall identify data recovery excavation methods,					necessary. If the resource is		
measurable objectives, and data thresholds to reduce any significant impacts to					Native American in origin,		
the resource. Pursuant to the data recovery plan, the qualified archaeologist and					provide plans for analysis to		
Native American representative(s) from the tribes consulting on the Project, as					tribes consulting on the Project		
appropriate, shall recover and document the scientifically consequential					and USBR/USFS, depending on		
information that justifies the resource's significance. PWD shall review and					land jurisdiction.		
approve the treatment plan and archaeological testing as appropriate, and the							
resulting documentation shall be submitted to the regional repository of the					5. Retain copies of CRHR/NRHP	5. Post-	5.
California Historical Resources Information System, pursuant to CEQA Guidelines					eligibility evaluation results, data	construction	
Section 15126.4(b)(3)(C).					recovery plan, and final data		
					recovery report in project file.		
					Submit documentation of testing		
					to the regional repository of the		
					California Historical Resources		
					Information System.		



							Verification:
			Party Responsible for				Status/ Date
Mitigation Measure	Impact Statement	Applicable Projects	Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Completed/ Initials
Mitigation Measure CUL-7: Curation and Disposition of Cultural Materials	Impact 3.4a (CUL-1) – Potential to	Construction: Pure	Palmdale Water	Palmdale Water	1. Consult with tribes on final	1. Construction	1
PWD shall work with the tribes consulting on the Project to determine the final	cause a substantial adverse change	Water Antelope	District; Tribes	District	disposition of any cultural		
disposition of any cultural materials removed. However, if the tribes consulting	in the significance of a historical	Valley; Existing	Consulting on		materials removed.		
on the Project are not in agreement on the final disposition, PWD shall rebury	resource as defined in CEQA	Well Rehabilitation	Project				2
the artifacts within the Project site in a location free from future disturbance and share the location with the tribes consulting on the Project. Items recovered	Guidelines Section 15064.5.	and/or Replacement;			2. Retain a qualified archaeologist to prepare	2. Post- construction	2
from USFS lands must be curated in accordance with 36 CFR 79 and cannot be	Impact 3.4b (CUL-2) – Potential to	Palmdale Ditch			records/reports containing the	construction	
reburied. Should a collection require curation, the tribes consulting on the	cause a substantial adverse change	Conversion Project			significant and treatment		
Project shall be given the opportunity to approve the curation facility but must	in the significance of an	conversion roject			findings and data recovery		
still meet the standards of 36 CFR 79. All draft records/reports containing the	archaeological resource as defined				results. Review/approve		
significance and treatment findings and data recovery results shall be prepared	in CEQA Guidelines Section 15064.5.				records/results and submit to		
by the qualified archaeologist and submitted to PWD (and USBR/USFS,					USBR/USFS (depending on land		
depending on land jurisdiction) and the tribes consulting on the Project for their					jurisdiction), tribes consulting on		
review and comment. A copy of the final report and all site/isolate records shall					the Project, and the South		
be submitted to PWD (and USBR/USFS, depending on land jurisdiction), the					Central Coastal Information		
tribes consulting on the Project, and the South Central Coastal Information					Center.		
Center. Disposition of Native American human remains and associated funerary objects, or grave goods shall be determined by the landowner in consultation					3. Curate eligible historic-period	3. Construction	2
with the PWD and the Most Likely Descendant (MLD).					archaeological material.	and Post- construction	3
The PWD shall curate all eligible historic-period archaeological material, or							
portions thereof at the discretion of the Qualified Archaeologist, at a repository					4. Retain copies of final	4. Post-	4
accredited by the American Association of Museums that meets the standards					disposition and curation	construction	
outlined in 36 CFR 79.9. If no accredited repository accepts the collection, then					records/reports in project file.		
the PWD may curate it at a non-accredited repository as long as it meets the							
minimum standards set forth by 36 CFR 79.9. If neither an accredited nor a non-							
accredited repository accepts the collection, then the PWD may offer the collection to a public, non-profit institution with a research interest in the							
materials, or to a local school or historical society in the area for educational							
purposes.							
Mitigation Measure CUL-8: Historic American Engineering Survey-Like	Impact 3.4a (CUL-1) – Potential to	Construction:	Palmdale Water	Palmdale Water	1. Retain a Qualified	1. Pre-construction	1
Documentation Package	cause a substantial adverse change	Palmdale Ditch	District; Qualified	District	Architectural Historian to		
Prior to the demolition of the Palmdale Ditch (CA-LAN-1534H), PWD shall	in the significance of a historical	Conversion Project	Architectural		prepare the Historic American		
document the structure in a Historic American Engineering Record-like	resource as defined in CEQA		Historian		Engineering Record-like		
documentation package. The report shall generally comply with the Secretary of	Guidelines Section 15064.5.				documentation package. Review		
the Interior's Standards and Guidelines for Architectural and Engineering Documentation (68 Federal Register 43159), Level III. At a minimum, the Historic					and approve package.		
American Engineering Record Historical Report should include digital					2. Retain copies of	2. Post-	2
photographs of views of Palmdale Ditch and a short-form narrative historical					documentation package in	construction	<u> </u>
report. Digital copies of the Historic American Engineering Record-like					project file. Submit		
documentation package should be made available to the Los Angeles County					documentation package to the		
Library Acton Agua Dulce Branch and the Palmdale City Library.					Los Angeles County Library		
					Acton Agua Dulce Branch and		
					the Palmdale City Library.		



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Mitigation Measure CUL-9: Inadvertent Discovery of Human Remains	Impact 3.4c (CUL-3) – Potential to	Construction: Pure	Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	1
If human remains are encountered, then PWD shall halt work in the vicinity	disturb any human remains,	Water Antelope	District;	District	documents include mitigation		
(within 100 feet) of the discovery and contact the County Coroner in accordance	including those interred outside of	Valley; Existing	Construction		measure.		
with Public Resources Code section 5097.98 and Health and Safety Code section	formal cemeteries.	Well Rehabilitation	Contractor				
7050.5. If the County Coroner determines the remains are Native American, then		and/or			2. If human remains are	2. Construction	2
the Coroner shall notify the California Native American Heritage Commission in		Replacement;			discovered, conduct site		
accordance with Health and Safety Code subdivision 7050.5(c), and Public		Palmdale Ditch			inspection to verify contractor		
Resources Code section 5097.98. The California Native American Heritage		Conversion Project			compliance with stop-work		
Commission shall designate a Most Likely Descendant for the remains per Public					procedures. Contact County		
Resources Code section 5097.98. Until the landowner has conferred with the					Coroner and implement		
Most Likely Descendant, the construction contractor(s) shall ensure the					treatment/protection		
immediate vicinity where the discovery occurred is not disturbed by further					procedures.		
activity, is adequately protected according to generally accepted cultural or							
archaeological standards or practices, and that further activities take into							
account the possibility of multiple burials.							



Mitigation Measure TCR-1: Native American Resources Monitoring	Impact 3.4d (TCR-1) – Potential to	Construction: Pure	Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	1
Native American monitoring shall be implemented for the proposed Project and	result in a substantial adverse	Water Antelope	District; Native	District	documents include mitigation		
applied specifically for the Palmdale Ditch Conversion project as identified	change in the significance of a tribal	Valley; Existing	American monitor		measure.		
below.	cultural resource, defined in Public	Well Rehabilitation					
	Resources Code Section 21074.	and/or			2. Retain a Native American	2. Construction	2.
Proposed Project Requirements. For ground-disturbing activities in geologic		Replacement;			monitor to conduct monitoring.		
units/sediments of Higher Sensitivity for encountering subsurface prehistoric		Palmdale Ditch			Review and approve monitoring		
archaeological resources or human remains as determined by the archaeological		Conversion Project			logs on a weekly basis.		
resources assessment conducted under CUL-3, full time Native American		conversion roject			logs off a weekly basis.		
monitoring shall be conducted unless the Qualified Archaeologist has					3. In the event of a discovery,	3. Construction	2
					conduct site inspection to verify	5. Construction	J
established as part of the archaeological assessment that previous disturbances							
have reduced the sensitivity to the extent that Native American monitoring is not					contractor compliance with stop-		
warranted. No Native American monitoring shall be required in geologic					work procedures.		
units/sediments of Lower Sensitivity for encountering subsurface prehistoric							
archaeological resources or in areas that have been previously subject to					4. Retain copies of monitoring	4. Construction	4
monitoring as part of the program.					logs and documentation of		
					discoveries in project file.		
The PWD shall retain a Native American monitor(s) to conduct the monitoring							
from a California Native American Tribe that is culturally and geographically							
affiliated (according to the NAHC) in the area within which the particular							
Program component is located. If more than one Tribe is interested in							
monitoring a Program component, the PWD shall prepare a monitoring rotation							
schedule. The PWD shall rotate monitors on an equal and regular basis to ensure							
that each Tribal group has the same opportunity to participate in the monitoring							
program. If a Tribe cannot participate in a given rotation assignment, they shall							
forfeit that rotation unless the PWD can make other arrangements to							
accommodate their schedule. The number of Native American monitors required							
to adequately observe ground-disturbing activities is dependent on the							
archaeological sensitivity of the area and construction scenario and shall be							
established by the Qualified Archaeologist. Native American monitors shall have							
the authority to halt and re-direct ground-disturbing activities in the event of a							
discovery until it has been assessed for significance and treatment implemented,							
if necessary, based on the recommendations of the Qualified Archaeologist in							
coordination with the PWD and the Native American monitor(s).							
Polyudala Ditab Communica Duciont Dominanto Ducionte Duciont initiation o							
Palmdale Ditch Conversion Project Requirements. Prior to Project initiation, a							
Native American monitor from one of the tribes consulting on the Project shall							
be retained. In general, Native American monitoring shall be limited to initial							
ground disturbance, which is defined as construction-related earthmoving of							
sediments from their native place of deposition (which includes, but is not							
limited to, tree/shrub removal and planting, clearing/grubbing, grading, leveling,							
excavation, trenching, compaction, plowing, fence/gate removal and installation,							
drainage and irrigation removal and installation, hardscape installation							
[boulders, walls, etc.], and archaeological work) and does not include any							
secondary movement of sediment that might be required for the Project (e.g.,							
backfilling). If more than one Consulting Tribe wishes to be present for							
monitoring, they shall be present on a rotating basis. The Native American							
monitor(s) shall have the authority to halt and redirect work should any potential							
cultural resources be identified during monitoring. If potential cultural resources							
are encountered during ground-disturbing activities, work within 60 feet of the							
find shall halt, and the find shall be evaluated for listing in the CRHR/NRHP.							
PWD shall retain at least one Tribal monitor to be present at each distinct work							



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification Status/ Date Completed/ Initials
area during each workday when initial ground disturbance is conducted. The tribes consulting on the Project may voluntarily provide additional Tribal monitors beyond those retained by PWD for increased monitoring coverage. Native American monitoring may be reduced or halted at the discretion of PWD (and USBR/USFS, depending on land jurisdiction), in consultation with the tribes consulting on the Project, as warranted by conditions such as encountering bedrock, sediments being excavated are fill, or negative findings during the first 50 percent of ground disturbance. If monitoring is reduced to spot-checking, spot-checking shall occur when ground disturbance moves to a new location within the Project site and/or when ground disturbance extends to depths not previously reached (unless those depths are within bedrock). Furthermore, monitoring may be terminated if it is determined the soils within the Area of Potential Effects do not have the potential to contain cultural resources.							
Energy							
Mitigation Measure ENE-1: Energy Efficient Equipment PWD shall require the use of energy efficient equipment, including pumps and lighting in new water facilities. The PWD system should be designed and operated to shift energy demands to off-peak periods whenever possible.	Impact 3.5a (ENE-1) – Potential to result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources,	Operation: Pure Water Antelope Valley	Palmdale Water District, Construction Contractor	Palmdale Water District	 Confirm that contract documents include mitigation measure. Confirm design includes 	 Contracting Design 	1
	during project construction or operation. Impact 3.5b (ENE-2) – Potential to				energy efficient equipment and shifts energy demands to off- peak periods whenever possible.		
	conflict with or obstruct a State or local plan for renewable energy or energy efficiency.				3. Verify that facilities are constructed as specified.	3. Post- construction	3
Mitigation Measure ENE-2: Promotion of Recycled Water PWD shall promote and encourage the use of recycled water to offset imported water requirements.	Impact 3.5a (ENE-1) – Potential to result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary	Operation: Pure Water Antelope Valley	Palmdale Water District, Construction Contractor	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
	consumption of energy resources, during project construction or operation.				2. Promote the use of recycled water to offset imported water requirements.	2. Pre-construction	2
	Impact 3.5b (ENE-2) – Potential to conflict with or obstruct a State or local plan for renewable energy or energy efficiency.						
Geology and Soils							
Mitigation Measure GEO-1: Geotechnical Investigation Report	Impact 3.6a (GEO-1a) – Directly or	Construction: Pure	Palmdale Water	Palmdale Water	1. Retain a licensed geologist or	1. Design	1
Implementation of Mitigation Measure GEO-1 would require a licensed	indirectly cause potential	Water Antelope	District	District	engineer to perform the		
geologist or engineer to perform a design-level geotechnical investigation prior	substantial adverse effects,	Valley; Existing			geotechnical investigation.		
to construction, which shall include evaluation of fault ruptures and soil and	including the risk of loss, injury, or	Wells					
slope stability hazards such as strong seismic groundshaking, liquefaction,	death involving a rupture of a	Rehabilitation					



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
landslides, and soil expansion. Based on the results of the geotechnical investigations, appropriate support and protection measures shall be designed and implemented to maintain the stability of soils and slopes adjacent to work areas during and after construction. Therefore, impacts would be less than significant with mitigation incorporated.	 known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area or based on other substantial evidence of a known fault. Refer to Division of Mines and Geology Special Publication 42. Impact 3.6b (GEO-1b) – Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground-shaking. Impact 3.6c (GEO-1c) – Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction. Impact 3.6d (GEO-1d) – Directly or indirectly cause potential substantial effects, including the risk of loss, injury, or death involving landslides. Impact 3.6f (GEO-3) – Be located on a geological unit or soil that is unstable or that would become unstable as a result of the project, and potentially result in on- or-off- site landslide, lateral spreading, subsidence, liquefaction, or collapse. Impact 3.6g (GEO-4) – Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property. 	and/or Replacement Operation: Pure Water Antelope Valley			2. Implement recommendations of geotechnical investigation into project design.	2. Design	2



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Mitigation Measure GEO-2: Topsoil Materials Implementation would require excavated topsoil materials to be reused and maintained on site to the extent possible, and that all topsoil stockpiles are wetted, thereby minimizing topsoil loss.	Impact 3.6e (GEO-2) – Result in substantial soil erosion or the loss of topsoil.	Construction: Pure Water Antelope Valley; Existing Wells Rehabilitation and/or Replacement	Palmdale Water District; Construction Contractor	Palmdale Water District	 Confirm that contract documents include mitigation measure. Perform site inspections, once at the start of excavation and once half-way through excavation, to verify contractor compliance with topsoil measures. 	 Contracting Construction 	2
Mitigation Measure PALEO-1: Paleontological Study For all proposed Project components that involve ground disturbance below the modern alluvium, PWD shall retain a Federally qualified paleontologist to determine the necessity of conducting a study of the Project area(s) based on the potential sensitivity of the Project site for paleontological resources. The qualified paleontologist should conduct a paleontological resources inventory designed to identify potentially significant resources consisting of: a thorough review of publicly available geological maps and literature pertaining to the sedimentology and paleontology of the Project area(s); a paleontological resources records search from the Natural History Museum of Los Angeles County; and a field survey of those geological units demonstrated to have either a high or unknown potential for containing significant paleontological resources as defined by the Society for Vertebrate Paleontology (2010). The paleontologist shall provide recommendations regarding monitoring of ground disturbance for the proposed Project.	Impact 3.6h (GEO-5) – Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.	Construction: Pure Water Antelope Valley; Existing Wells Rehabilitation and/or Replacement	Palmdale Water District; Federally qualified paleontologist	Palmdale Water District	 Retain copies of inspection records in project file. Determine necessity to conduct a paleontological study If necessary, conduct study and provide recommendations Retain copies of the study and recommendations to include in the construction contract. 	 3. Post- construction 1. Pre-construction 2. Pre-construction 3. Contracting 	3 1 2 3
 Mitigation Measure PALEO-2: Paleontological Resources Avoidance and Monitoring PWD should avoid impacts, if feasible, on areas identified as having a high potential to contain significant paleontological resources. Methods of avoidance may include, but not be limited to, Project re-route or re-design, or identification of protection measures such as capping or fencing. For those high sensitivity paleontological areas identified by the qualified paleontologist that are planned for excavation, PWD should retain paleontological monitors during construction and follow the guidelines established in the City of Palmdale General Plan. PWD shall implement the following measures during ground-disturbing construction activities in previously undisturbed sediments within the Palmdale Ditch Conversion project: Qualified Professional Paleontologist. Prior to the start of proposed Project construction activities, PWD shall retain a Qualified Professional Paleontologist, as defined by the Society of Vertebrate Paleontology (SVP; 2010). The Qualified Professional Paleontologist shall draft a 	Impact 3.6h (GEO-5) – Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.	Construction: Pure Water Antelope Valley; Existing Wells Rehabilitation and/or Replacement; Palmdale Ditch Conversion Project	Palmdale Water District; paleontological monitors and Qualified Professional Paleontologist	Palmdale Water District	 Confirm avoidance methods are included in contract documents For the Palmdale Ditch Conversion project, prepare a Paleontological Resources Mitigation and Monitoring Plan and conduct WEAP training For the Palmdale Ditch Conversion project, initiate full- time monitoring during open-cut trenching and excavations within previously undisturbed geologic units assigned high paleontological sensitivity and 	 Contracting Pre-construction Construction 	1 2 3



							Verification
			Party Responsible				Status/
		Applicable	for Implementation	Review and	Monitoring and Reporting	Implementation	Date Completed
Mitigation Measure	Impact Statement	Projects	and Reporting	Approval by:	Actions	Schedule	Initials
Paleontological Resources Mitigation and Monitoring Plan, which shall					open-cut trenching and		
direct all mitigation measures related to paleontological resources.					excavations within previously		
Paleontological Worker Environmental Awareness Program. Prior					undisturbed geologic units with		
to the start of ground-disturbing construction activities, the Qualified					unknown sensitivities.		
Professional Paleontologist or their designee shall conduct a							
paleontological Worker Environmental Awareness Program (WEAP)					4. Retain copies of monitoring	4. Post-	4
training for all construction personnel regarding the appearance of					records, including any recovery	construction	
fossils and the procedures for notifying paleontological staff should					efforts, in project file.		
fossils be discovered by construction personnel.							
Paleontological Monitoring. Full-time paleontological monitoring							
shall be conducted during open-cut trenching and excavations within							
previously undisturbed geologic units assigned high paleontological							
sensitivity. This includes all excavations within Quaternary old alluvial							
fan deposits, Quaternary old alluvium, Harold Formation, Anaverde							
Formation, and Punchbowl Formation, and excavations reaching							
greater than four feet below the surface in areas mapped as active							
wash deposits, active alluvial valley deposits, active alluvial fan deposits,							
and Quaternary young alluvial valley deposits.							
• Initial part-time monitoring (i.e., spot-checking) shall be conducted							
for all ground-disturbing activities that impact geologic units							
assigned undetermined sensitivity. For excavations exceeding four							
feet in depth within areas mapped as artificial fill, the purpose of							
these spot checks shall be to determine whether previously							
undisturbed (i.e., non-fill) sediments with high paleontological							
sensitivity are (or will be) impacted by proposed Project							
excavations, in which case, full-time paleontological monitoring							
shall occur. For excavations within the boulder gravel of Littlerock							
Creek or the Ritter Formation, the goal of the spot checks shall be							
to determine whether these geologic units are conducive to fossil							
preservation, in which case full-time monitoring shall occur, or if							
they are not conducive to fossil preservation, in which case							
monitoring within these geologic units shall cease or continue as							
periodic spot checks.							
• Bulk matrix sampling may be necessary to recover microfossils (i.e.,							
fossils too small to be easily recognized within the sediment matrix)							
from the Project area. If indicators of potential microfossils are							
encountered (e.g., fossil debris, carbonaterich paleosols, or very							
fine-grained sedimentary deposits), then 'test samples' or 'standard							
samples' shall be collected and processed in accordance with SVP							
(2010) standards, as directed by the Qualified Professional							
Paleontologist.							
 Paleontological monitoring shall be conducted by a 							
paleontological monitor with experience with collection and							
salvage of paleontological resources and who meets the minimum							
standards of the SVP (2010) for a Paleontological Resources							
Monitor. The Qualified Professional Paleontologist may							
recommend monitoring be reduced in frequency or ceased entirely							



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
 based on geologic observations. Such decisions shall be subject to review and approval by PWD. In the event of a fossil discovery by the paleontological monitor or construction personnel, all construction activity within 50 feet of the find shall cease, and the Qualified Professional Paleontologist shall evaluate the find. If the fossil(s) is (are) not scientifically significant, then construction activity may resume. If it is determined the fossil(s) is (are) scientifically significant, the following shall be completed: Fossil Salvage. The paleontological monitor shall salvage (i.e., excavate and recover) the fossil to protect it from damage/destruction. Bulk matrix sampling may be necessary to recover small invertebrates or microvertebrates from within paleontologically sensitive deposits. After the fossil(s) is (are) salvaged, construction activity may resume. Fossil Preparation and Curation. Fossils shall be identified to the lowest (i.e., most-specific) possible taxonomic level, prepared to a curation-ready condition, and curated in a scientific institution with a permanent paleontological collection may also warrant curation at the discretion of the Qualified Professional Paleontologist. Final Paleontological Mitigation Report. Upon completion of ground-disturbing activities (or laboratory preparation and curation of fossils, if necessary), the Qualified Professional Paleontologist shall prepare a final report describing the results of the paleontological monitoring efforts. The report shall include a summary of the field and laboratory methods employed; an overview of Project geology; and, if fossils were discovered, an analysis of the fossils, including physical description, taxonomic identification, and scientific institution. 							
Mitigation Measure MIN-1: Mineral Resources Implementation of Mitigation Measure MIN-1 would require construction of any facilities or structures to comply with City of Palmdale policies associated with the continued access to known mineral resources. Mitigation Measure MIN-1	Impact 3.6i (MIN-1) – Result in the loss of availability of a known mineral resource that would be a value to the region and the	Construction: Existing Wells Rehabilitation and/or	Palmdale Water District; Construction Contractor	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
would require development occurring in the vicinity of mining operations to adequately buffered to ensure the potential impacts to existing or future mining operations. Therefore, impacts would be less than significant with mitigation incorporated.	residents of the State. Impact 3.6j (MIN-2) – Result in the loss of availability of a locally important mineral resource	Replacement			2. Perform site inspections when construction occurs proximate to mining operations to ensure buffers are in place.	2. Construction	2
	recovery site delineated on a local general plan, specific plan, or other land use plan.				3. Retain copies of inspection records in project file.	3. Post- construction	3



Mitigation Measure Mitigation Measure HYD-1: Material Harm Review	Impact Statement Impact 3.6f (GEO-3) – Be located	Applicable Projects Operation:	Party Responsible for Implementation and Reporting Palmdale Water	Review and Approval by: Palmdale Water	Monitoring and Reporting Actions 1. Coordinate with the Antelope	Implementation Schedule 1. Pre-construction	Verification: Status/ Date Completed/ Initials
Conduct a material harm review of the proposed groundwater wells and groundwater rights. The Antelope Valley Watermaster Engineer would ensure operational criteria for the wells do not result in a net deficit in aquifer volume or a lowering of the local groundwater table such that the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted.	on a geological unit or soil that is unstable or that would become unstable as a result of the project, and potentially result in on- or-off- site landslide, lateral spreading, subsidence, liquefaction, or collapse.	Existing Wells Rehabilitation and/or Replacement	District	District	 Coordinate with the Antelope Valley Water Master Engineer to conduct the material harm review. Retain copies of material harm review. 	2. Post- construction	2
Hazards and Hazardous Materials							
 Mitigation Measure HAZ-1: Hazardous Materials Management Spill Prevention and Control Plan Before commencement of construction, PWD shall require its construction contractor(s) to prepare a Hazardous Materials Management Spill Prevention and Control Plan that includes a Project-specific contingency plan for hazardous materials and waste operations. The Plan shall be applicable to all construction activities and shall establish policies and procedures according to federal and California OSHA regulations for hazardous materials. Elements of the Plan 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. 	 Impact 3.7b (HAZ-2) – Potential to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. Impact 3.7c (HAZ-3) – Potential to emit hazardous emissions or handle hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. 	Construction: Pure Water Antelope Valley; Existing Wells Rehabilitation and/or Replacement	Palmdale Water District, Construction Contractor	Palmdale Water District	 Confirm that contract documents include preparation of a Hazardous Materials Management Spill Prevention and Control Plan (HMMSPCP). Confirm contractor has prepared HMMSPCP and it is available on-site. Retain a copy of the HMMSPCP in the project file. 	 Contracting Construction Post- construction 	1 2 3
Mitigation Measure HAZ-2: Construction and Chemical Deliveries at Schools PWD will coordinate with school officials for proposed Project areas located near schools to schedule construction when school is not in session.	Impact 3.7c (HAZ-3) – Potential to emit hazardous emissions or handle hazardous emissions or handle hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.	Construction: Pure Water Antelope Valley; Existing Wells Rehabilitation and/or Replacement	Palmdale Water District, Construction Contractor	Palmdale Water District	 Confirm that contract documents include mitigation measure. Confirm coordination with school officials to schedule construction when school is not in session. Retain a copy of the coordination efforts in the project file. 	 Contracting Construction Post- construction 	1 2 3
Mitigation Measure HAZ-3: Environmental Site Assessment and Remediation or Well Relocation After exploratory drilling and before construction begins, a Phase 1 Environmental Site Assessment will be conducted for each proposed municipal well site to identify contaminated sites at or near each proposed well site that poses a hazard for construction or to PWD's potable water supply. In the event that a recognized environmental concern exists, additional investigation would be conducted, typically under a Phase II Environmental Site Assessment, to	Impact 3.7d (HAZ-4) – Potential to be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code 65962.5 and, as a result, create a significant hazard to the public or the environment.	Operation: Existing Wells Rehabilitation and/or Replacement	Palmdale Water District, Construction Contractor	Palmdale Water District	 Confirm that contract documents include mitigation measure. Confirm that a Phase 1 Environmental Site Assessment is conducted for each proposed municipal well site. 	 Contracting Pre-construction 	1 2



							Verification:
			Party Responsible for				Status/ Date
		Applicable	Implementation	Review and	Monitoring and Reporting	Implementation	Completed/
Mitigation Measure	Impact Statement	Projects	and Reporting	Approval by:	Actions	Schedule	Initials
identify the presence and extent of any contamination that would need						2 Dec. construction	2
remediation, or a Well Relocation Plan would be developed to determine if the well location could be moved to a location that is not affected by contaminant					3. If a recognized environmental concern exists, ensure additional	3. Pre-construction	3
releases. Remediation, if needed, would be conducted in accordance with federal					investigation is conducted to		
and State requirements for remediation of soil and/or groundwater					identify the presence and extent		
contamination with oversight by the appropriate local and/or State agency, such					of contamination requiring		
as the County of Los Angeles, Regional Water Quality Control Board, and/or					remediation.		
DTSC.							
					4. If performing remediation,	4. Construction	4
					ensure it is conducted in		
					accordance with federal and		
					State requirements for remediation of soil and/or		
					groundwater contamination with		
					oversight by the appropriate		
					local and/or State agency.		
					5. Retain copies of all studies,	5. Post-	5
					reports, and remediation actions	construction	
					in the project file.		
Mitigation Measure TRA-1: Traffic Control Plan	Impact 3.7e (HAZ-5) – Potential to	Construction: Pure	Palmdale Water	Palmdale Water	1. Confirm that contract	1. Contracting	1.
Prior to construction, PWD shall require its construction contractor(s) to prepare	impair implementation of or	Water Antelope	District,	District	documents include mitigation	5	
and implement a Traffic Control Plan, to be approved by the City and/or the	physically interfere with an adopted	Valley; Existing	Construction		measure.		
County of Los Angeles, based on jurisdiction. The plan shall include traffic counts	emergency response plan or	Wells	Contractor				
at intersections near the proposed Project facilities to determine existing traffic	emergency evacuation plan.	Rehabilitation			2. Confirm that a Traffic Control	2. Pre-construction	2
conditions. Based on these traffic counts, the plan shall recommend mitigation		and/or			Plan was developed in		
to minimize impacts to existing traffic conditions. These mitigation measures shall include but shall not be limited to:	Impact 3.7f (WILD-1) – Potential to substantially impair an adopted	Replacement; Palmdale Ditch			accordance with the mitigation measure, and approved by City		
 Identification of hours of construction and hours for deliveries, 	emergency response plan or	Conversion Project			and/or the County of Los		
potentially avoiding the A.M. and P.M. peak hours to minimize	emergency evacuation plan.	Conversion rioject			Angeles, based on jurisdiction.		
disturbance to traffic flow							
Specification of both construction-related vehicle and oversize haul					3. Confirm coordination of	3. Pre-construction	3
routes; alternative routes shall be proposed to avoid traffic disruption					construction schedules has		
 Identification of limits on the length of open trench, work area 					occurred with emergency		
delineation, traffic control, flagging, and signage requirements					services, at least three days prior		
 Identification of all access and parking restrictions Identification of staging locations to be used during construction 					to the beginning of construction		
 Identification of staging locations to be used during construction Identification of potential road or lane closures 					activities.		
 Establishment of haul routes for construction-related vehicle traffic 					4. Confirm traffic control	4. Construction	4
 Identification of alternative safe routes to maintain pedestrian bicyclist 					measures identified in the Traffic		
safety during construction					Control Plan are implemented		
At least three days prior to initiation of construction activities, PWD shall					during construction		
coordinate with emergency services (police, fire, and others) to notify these							
entities regarding construction schedule, proposed Project alignment and siting,					5. Retain copy of Traffic Control	5. Post-	5
and potential delays due to construction. PWD shall identify roadways and					Plan in project file.	construction	



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification Status/ Date Completed/ Initials
access points for emergency services and minimize disruptions to or closures of these locations. The plan shall include provisions for traffic control measures including barricades, warning signs, cones, lights, and flag persons, to allow safe circulation of vehicle, bicycle, pedestrian, and emergency response traffic.							
Mitigation Measure WILD-1: Fire Hazard Reduction Measures During construction of Project facilities located in areas designated as moderate, high, or very high fire hazard severity zones by CAL FIRE, PWD shall require that all staging areas and welding areas intended for use of spark-producing equipment shall be cleared of dried vegetation or other material that could ignite. Any construction equipment that includes a spark arrestor shall be equipped with a spark arrestor in good working order. During construction of Project facilities, construction contractor(s) shall require all vehicles and crews to have access to functional fire extinguishers at all times. In addition, construction crews shall have a spotter during welding activities to look out for potentially dangerous situations, including accidental sparks.	Impact 3.7g (WILD-2) – Potential to, due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire if located in or near State responsibility areas or lands classified as very high fire hazard severity zones.	Construction: Existing Wells Rehabilitation and/or Replacement; Palmdale Ditch Conversion Project	Palmdale Water District, Construction Contractor	Palmdale Water District	 Confirm that contract documents include mitigation measure. Perform site inspections, once at the start of construction and once half-way through construction, to verify contractor compliance with fire hazard reduction measures. Retain copies of inspection records in project file. 	 Contracting Construction Post- construction 	1 2 3
Hydrology, Groundwater, and Water Quality							
Mitigation Measure HYD-1: Material Harm Review Coordinate with the Antelope Valley Watermaster Engineer and conduct a material harm review of the proposed groundwater wells and groundwater rights. The Antelope Valley Watermaster Engineer would ensure operational criteria for the wells do not result in a net deficit in aquifer volume or a lowering of the local groundwater table such that the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted. This analysis will be	Impact 3.8b (HYD-2) – Substantially decrease groundwater supplies or interfere with groundwater recharge such that the project may impede sustainable groundwater management of the basin.	Construction: Existing Wells Rehabilitation and/or Replacement	Palmdale Water District	Palmdale Water District	 Coordinate with the Antelope Valley Water Master Engineer to conduct the material harm review. Retain copies of material harm review. 	 Pre-construction Post- construction 	2
completed as part of a groundwater storage agreement application process through the Antelope Valley Watermaster.	Impact 3.8h (HYD-5) – Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.						
Mitigation Measure HYD-2: Drainage Plan PWD shall complete drainage assessment and design in accordance with all applicable laws, regulations, and best management practices. The assessment and design shall be submitted as a drainage plan to appropriate jurisdiction to verify that drainage would not contribute to runoff that would result in flooding.	Impact 3.8d (HYD-3b) – Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or	Construction: Pure Water Antelope Valley	Palmdale Water District	Palmdale Water District	1. Conduct the drainage assessment and provide the drainage plan to the appropriate jurisdiction.	1. Pre-construction	1
Noise	through the addition of impervious surfaces, in a manner which would substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite.				2. Retain copies of drainage plan.	2. Post- construction	2



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
 Mitigation Measure NOI-1: Noise Measures PWD shall require the construction contractor(s) to implement the following measures, as applicable, during construction of the proposed Project: Construction activities shall meet municipal, or County code 	Impact 3.10a (NOI-1) – Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess	Construction: Pure Water Antelope Valley; Existing Wells	Palmdale Water District; Construction Contractor	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
 requirements related to noise. Construction activities shall be limited to between 7:00 am and 7:00 pm Monday through Saturday to avoid noise-sensitive hours of the day, when applicable. Construction activities shall be prohibited on Sunday and holidays. Sensitive receptors of the proposed Project construction activities shall be identified and mapped. Construction equipment noise shall be minimized by muffling and 	of standards of the City of Palmdale and Los Angeles County, or applicable standards of other agencies.	Rehabilitation and/or Replacement			2. Perform site inspections, once at the start of the construction and once halfway through construction, to verify contractor compliance with applicable noise measures.	2. Construction	2
 shielding intakes and exhaust on construction equipment (per the manufacturer's specifications) and by shrouding or shielding impact tools. Construction contractor(s) shall locate fixed construction equipment and construction staging areas as far as possible from nearby sensitive receptors. Where feasible, construct barriers between noise sources and noise-sensitive land uses to block sound transmission. Enclose construction equipment where practicable. If construction were to occur near a school, the construction contractor(s) shall coordinate the most noise producing construction activities with school administration in order to limit disturbance to the campus. 					3. Retain copies of inspection records in project file.	3. Post- construction	3
Mitigation Measure NOI-2: Noise Coordinator PWD shall require the construction contractor(s) to notify in writing all landowners and occupants of properties within 500 feet of the construction area of the construction schedule at least two weeks prior to groundbreaking. The	Impact 3.10a (NOI-1) – Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess	Construction: Pure Water Antelope Valley; Existing Wells	Palmdale Water District; Construction Contractor	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
construction contractor(s) shall designate a Noise Compliant Coordinator who will be responsible for responding to complaints regarding construction noise. The Noise Coordinator shall ensure that reasonable measures are implemented to correct any problems. A contact telephone number for the Noise Coordinator shall be conspicuously posted at the construction site and included in the written notification of the construction schedule sent to surrounding properties.	of standards of the City of Palmdale and Los Angeles County, or applicable standards of other agencies.	Rehabilitation and/or Replacement			 Confirm notices of construction were sent. Perform site inspection after receipt of a noise complaint to verify implementation of noise reduction measures. 	 Pre-Construction Construction 	2 3
					4. Retain copies of inspection records in the project file.	4. Post- construction	4
 Mitigation Measure NOI-3: Vibration Measures PWD shall require the construction contractor(s) to implement the following measures, as applicable, during construction of proposed facilities: Sensitive receptors shall be identified and mapped. 	Impact 3.10b (NOI-2) – Generate excessive groundborne vibration in the project vicinity above levels existing without the Project.	Construction: Pure Water Antelope Valley	Palmdale Water District; Construction Contractor	Palmdale Water District	1. Confirm that contract documents include mitigation measure.	1. Contracting	1
 Limit construction activities that cause excessive groundborne vibrations to at least 43 feet from sensitive receptors and 15 feet from any structures. 					2. Perform site inspections, once at the start of the construction and once halfway through construction, to verify contractor	2. Construction	2



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions compliance with vibration	Implementation Schedule	Verification: Status/ Date Completed/ Initials
					reduction measures. 3. Retain copies of inspection records in project file.	3. Post- construction	3
Mitigation Measure NOI-4: Alternative Construction Equipment PWD shall require its construction contractor(s) to avoid utilizing vibratory rollers within 190 feet of residences. If paving work is necessary within 190 feet of residences, alternative offroad construction equipment, such as equipment limited to 100 horsepower or less or a static/pneumatic roller, shall be utilized instead.	Impact 3.10b (NOI-2) – Generate excessive groundborne vibration in the project vicinity above levels existing without the Project.	Construction: Palmdale Ditch Conversion Project	Palmdale Water District; Construction Contractor	Palmdale Water District	 Confirm that contract documents include mitigation measure. Perform site inspections, once at the start of the construction and once halfway through construction, to verify contractor compliance with vibration reduction measures. 	1. Contracting 2. Construction	1 2
					3. Retain copies of inspection records in project file.	3. Post- construction	3
Recreation Mitigation Measure REC-1: Coordination for Bikeways For Project facilities that would include pipelines or other new facilities within designated bikeways, PWD shall coordinate with the applicable jurisdiction to determine whether circulation and detour plans are required to minimize impacts to access local bikeways. Circulation and detour plans may include the use of signage and flagging of cyclists through and/or around the construction zone.	Impact 3.11a (REC-1) – Potential to increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated.	Construction: Pure Water Antelope Valley; Existing Wells Rehabilitation and/or Replacement	Palmdale Water District	Palmdale Water District	 Confirm that contract documents include mitigation measure. Confirm coordination with applicable jurisdiction to determine whether circulation and detour plans are required. 	1. Contracting 2. Pre-construction	1 2
					3. If necessary, ensure implementation of circulation and detour plans.4. Retain copies of circulation and detour plans in project file.	 Pre-construction Post- construction 	3
Turning the time							
Transportation Mitigation Measure TRA-1: Traffic Control Plan Prior to construction, PWD shall require its construction contractor(s) to prepare and implement a Traffic Control Plan, to be approved by the City and/or the County of Los Angeles, based on jurisdiction. The plan shall include traffic counts at intersections near the proposed Project facilities to determine existing traffic	Impact 3.7e (HAZ-5) – Potential to impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.	Construction: Pure Water Antelope Valley; Existing Wells Rehabilitation	Palmdale Water District; Construction Contractor	Palmdale Water District	 Confirm that contract documents include mitigation measure. Confirm that a Traffic Control 	1. Contracting 2. Pre-construction	1 2
conditions. Based on these traffic counts, the plan shall recommend mitigation to minimize impacts to existing traffic conditions. These mitigation measures shall include but shall not be limited to:	Impact 3.7f (WILD-1) – Potential to substantially impair an adopted	and/or Replacement			Plan was developed in accordance with the mitigation measure, and approved by City		



Mitigation Measure	Impact Statement	Applicable Projects	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
 Identification of hours of construction and hours for deliveries, potentially avoiding the A.M. and P.M. peak hours to minimize disturbance to traffic flow Specification of both construction-related vehicle and oversize haul routes; alternative routes shall be proposed to avoid traffic disruption Identification of limits on the length of open trench, work area delineation, traffic control, flagging, and signage requirements Identification of all access and parking restrictions Identification of staging locations to be used during construction Identification of potential road or lane closures Establishment of haul routes for construction-related vehicle traffic Identification of alternative safe routes to maintain pedestrian bicyclist safety during construction At least three days prior to initiation of construction activities, PWD shall coordinate with emergency services (police, fire, and others) to notify these entities regarding construction schedule, proposed Project alignment and siting, and potential delays due to construction. PWD shall identify roadways and access points for emergency services and minimize disruptions to or closures of these locations. The plan shall include provisions for traffic control measures including barricades, warning signs, cones, lights, and flag persons, to allow safe circulation of vehicle, bicycle, pedestrian, and emergency response traffic. 	emergency response plan or emergency evacuation plan. Impact 3.12a (TRA-1) – Potential to conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities. Impact 3.12c (TRA-3) – Potential to substantially increase hazards due to a geometric design feature. Impact 3.12d (TRA-4) – Potential to result in inadequate emergency access.	Operation: Existing Wells Rehabilitation and/or Replacement			 and/or the County of Los Angeles, based on jurisdiction. 3. Confirm coordination of construction schedules has occurred with emergency services, at least three days prior to the beginning of construction activities. 4. Confirm traffic control measures identified in the Traffic Control Plan are implemented during construction 5. Retain copy of Traffic Control Plan in project file. 	 3. Pre-construction 4. Construction 5. Post- construction 	3 4 5
Utilities Mitigation Measure UTL-1: Site Selection Process In the event the Antelope Valley Public Landfill does not have remaining capacity or has ceased operations, PWD would conduct a thorough site selection process to identify an appropriate location to dispose of solid waste generated by the Project.	Impact 3.13d (UTL-4) – Potential to generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals.	Operation: Pure Water Antelope Valley	Palmdale Water District	Palmdale Water District	 Confirm that contract documents include mitigation measure. Conduct a thorough site selection process to identify an appropriate location to dispose of solid waste. Retain copy of site selection process in project folder. 	 Contracting Pre-construction Post- construction 	1 2 3

