



# PALMDALE WATER DISTRICT

2029 East Avenue Q • Palmdale, California 93550 • Telephone (661) 947-4111



Since 1918

## Board of Directors

ROBERT E. ALVARADO  
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Division 4

VINCENT DINO  
Division 5

ALESHIRE & WYNDER LLP  
Attorneys



March 16, 2017

*Agenda for Regular Meeting  
of the Board of Directors of the Palmdale Water District  
to be held at the District's office at 2029 East Avenue Q, Palmdale*

*Wednesday, March 22, 2017*

*7:00 p.m.*

NOTES: To comply with the Americans with Disabilities Act, to participate in any Board meeting please contact Dawn Deans at 661-947-4111 x1003 at least 48 hours prior to a Board meeting to inform us of your needs and to determine if accommodation is feasible.

Additionally, a Spanish interpreter will be made available to assist the public in making **comments** under Agenda Item No. 4 and any action items where public input is offered during the meeting if requested at least 48 hours before the meeting. Please call Dawn Deans at 661-947-4111 x1003 with your request. (PWD Rules and Regulations Section 4.03.1 (c) )

Adicionalmente, un intérprete en español estará disponible para ayudar al público a hacer **comentarios** bajo la sección No. 4 en la agenda y cualquier elemento de acción donde se ofrece comentarios al público durante la reunión, siempre y cuando se solicite con 48 horas de anticipación de la junta directiva. Por favor de llamar Dawn Deans al 661-947-4111 x1003 con su solicitud. (PWD reglas y reglamentos sección 4.03.1 (c) )

Agenda item materials, as well as materials related to agenda items submitted after distribution of the agenda packets, are available for public review at the District's office located at 2029 East Avenue Q, Palmdale (Government Code Section 54957.5). Please call Dawn Deans at 661-947-4111 x1003 for public review of materials.

**PUBLIC COMMENT GUIDELINES:** The prescribed time limit per speaker is three-minutes. Please refrain from public displays or outbursts such as unsolicited applause, comments, or cheering. Any disruptive activities that substantially interfere with the ability of the District to carry out its meeting will not be permitted and offenders will be requested to leave the meeting. (PWD Rules and Regulations, Appendix DD, Sec. IV.A.)

Each item on the agenda shall be deemed to include any appropriate motion, resolution, or ordinance to take action on any item.

- 1) Pledge of Allegiance/Moment of Silence.
- 2) Roll Call.
- 3) Adoption of Agenda.
- 4) Public comments for non-agenda items.

- 5) Presentations:
  - 5.1) None at this time.
- 6) Action Items - Consent Calendar (The public shall have an opportunity to comment on any action item on the Consent Calendar as the Consent Calendar is considered collectively by the Board of Directors prior to action being taken.)
  - 6.1) Approval of minutes of regular meeting held March 8, 2017.
  - 6.2) Payment of bills for March 22, 2017.
  - 6.3) Approve absence of Director Henriquez from March 8, 2017 Regular Board Meeting due to work commitment. (General Manager LaMoreaux)
- 7) Action Items – Action Calendar (The public shall have an opportunity to comment on any action item as each item is considered by the Board of Directors prior to action being taken.)
  - 7.1) Public hearing on the certification of the Final EIR for the Littlerock Reservoir Sediment Removal Project. (Assistant General Manager Knudson)
  - 7.2) Consideration and possible action on: a) Resolution No. 17-12 being a Resolution (Certification) of the Board of Directors of the Palmdale Water District Certifying the Final Environmental Impact Report (State Clearinghouse # 2005061171), Adopting Findings of Fact as Required by Public Resources Code Section 21081(A) and CEQA Guidelines Section 15091, and Adopting a Mitigation Monitoring and Reporting Program as Required by Public Resources Code Section 21081.6, and CEQA Guidelines Section 15097, as Related to the Littlerock Reservoir Sediment Removal Project; b) approving the Littlerock Reservoir Sediment Removal Project; and c) authorizing staff to file a Notice of Determination. (No budget impact – Assistant General Manager Knudson)
  - 7.3) Status report on Cash Flow Statement and Current Cash Balances as of January, 2017. (Financial Advisor Egan/Finance Committee)
  - 7.4) Status report on Financial Statements, Revenue, and Expense and Departmental Budget Reports for January, 2017. (Finance Manager Williams/Finance Committee)
  - 7.5) Status report on committed contracts issued and water revenue bond projects. (Assistant General Manager Knudson/Finance Committee)
  - 7.6) Consideration and possible action on 2017 goals for the Antelope Valley State Water Contractors Association. (President Alvarado/Assistant General Manager Knudson)
  - 7.7) Consideration and possible action on amendment to Section 4.03.1 of the District’s Rules and Regulations to offer interpreting services in any language at Regular Board Meetings for comments. (No Budget Impact – General Manager LaMoreaux)
  - 7.8) Consideration and possible action on Palmdale Water District Helpful Principles for Board Meetings. (President Alvarado/General Manager LaMoreaux)

- 7.9) Consideration and possible action on authorization of the following conferences, seminars, and training sessions for Board and staff attendance within budget amounts previously approved in the 2017 Budget:
  - a) None at this time.
- 8) Information Items:
  - 8.1) Reports of Directors:
    - a) President's Report.
    - b) Meetings/General Report.
    - c) Standing Committee/Assignment Reports (Chair):
      - 1) AVSWCA
      - 2) PRWA
      - 3) Finance Committee
  - 8.2) Report of General Manager.
    - a) March, 2017 written report of activities through February, 2017.
  - 8.3) Report of General Counsel.
- 9) Board members' requests for future agenda items.
- 10) Adjournment.



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DENNIS D. LaMOREAUX,  
General Manager

DDL/dd

**PALMDALE WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** March 15, 2017 **March 22, 2017**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Mr. Dennis D. LaMoreaux, General Manager  
**RE:** ***AGENDA ITEM NO. 6.3 – APPROVE ABSENCE OF DIRECTOR HENRIQUEZ FROM MARCH 8, 2017 BOARD MEETING DUE TO WORK COMMITMENT.***

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Director Henriquez was absent from the March 8, 2017 Regular Board Meeting. Agenda Item No. 6.3 has been placed on the Consent Calendar to excuse this absence pursuant to Section 4.07.2 of the District’s Rules and Regulations which states, “The Board shall excuse absences by approving such absences pursuant to the Consent Calendar at the next regular Board meeting.”

**PALMDALE WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** March 15, 2017 **March 22, 2017**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Mr. Matt Knudson, Assistant General Manager  
**VIA:** Mr. Dennis D. LaMoreaux, General Manager  
**RE:** ***AGENDA ITEM NO. 7.1 - PUBLIC HEARING REGARDING  
CERTIFICATION OF FINAL EIR FOR THE LITTLEROCK  
RESERVOIR SEDIMENT REMOVAL PROJECT.***

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After the public hearing is opened, staff and the District's consultant for the Littlerock Reservoir Sediment Removal Project will provide an overview of the Final EIR process for this Project.

**PALMDALE WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** March 15, 2017 **March 22, 2017**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Mr. Matthew R. Knudson, Assistant General Manager  
**VIA:** Mr. Dennis D. LaMoreaux, General Manager  
**RE:** *AGENDA ITEM NO. 7.2 – CONSIDERATION AND POSSIBLE ACTION ON A) RESOLUTION NO. 17-12 BEING A RESOLUTION (CERTIFICATION) OF THE BOARD OF DIRECTORS OF THE PALMDALE WATER DISTRICT CERTIFYING THE FINAL ENVIROMENTAL IMPACT REPORT (STATE CLEARINGHOUSE # 2005061171), ADOPTING FINDINGS OF FACT AS REQUIRED BY PUBLIC RESOURCES CODE SECTION 21081(A) AND CEQA GUIDELINES SECTION 15091, AND ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM AS REQUIRED BY PUBLIC RESOURCES CODE SECTION 21081.6, AND CEQA GUIDELINES SECTION 15097, AS RELATED TO THE LITTLEROCK RESERVOIR SEDIMENT REMOVAL PROJECT; B) APPROVING THE LITTLEROCK RESERVOIR SEDIMENT REMOVAL PROJECT; AND C) AUTHORIZING STAFF TO FILE A NOTICE OF DETERMINATION. (NO BUDGET IMPACT – ASSISTANT GENERAL MANAGER KNUDSON)*

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**Recommendation:**

That the Board:

1. Receive and consider the Final Environmental Impact Report (EIR) prepared by Aspen Environmental Group for the Littlerock Reservoir Sediment Removal Project.
  2. Adopt Resolution No. 17-12 certifying the Final EIR (State Clearinghouse No. 2005061171), for the Littlerock Reservoir Sediment Removal Project.
  3. Adopt the Findings of Fact for the Littlerock Reservoir Sediment Removal Project (see Exhibit A, Findings of Fact).
  4. Adopt the proposed project design and the corresponding Mitigation Monitoring and Reporting Program for the Littlerock Reservoir Sediment Removal Project (see Exhibit B, Mitigation Monitoring and Reporting Program).
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March 15, 2017

5. Approve the Littlerock Reservoir Sediment Removal Project (see Exhibit C, Project Description).
6. Authorize staff to have Notice of Determination filed with the Los Angeles County Clerk and State Clearinghouse.

**Impact of Taking No Action**

The Board cannot approve the Littlerock Reservoir Sediment Removal Project until the Final EIR is adopted and certified by the Board of Directors.

**Background Information:**

The Palmdale Water District's Strategic Water Resources Plan includes removing sediment from the Littlerock Reservoir to restore the reservoir space used for storage for a portion of the District's municipal water supply.

The proposed action of the sediment removal project and the District's objectives for implementing the proposed action include the following:

- Restore the Reservoir to 1992 water storage and flood control capacity, and maintain that capacity through annual sediment removal; and
- Preserve habitat for the arroyo toad (*Anaxyrus californicus*) through construction of a grade control structure that prevents sediment loss and headcutting of the stream channel upstream of Rocky Point on Littlerock Creek.

In early 2014, the District issued a CEQA Notice of Preparation (NOP) to complete an EIR for the Littlerock Reservoir Sediment Removal Project. Scoping comments from the District's NOP along with the USDA Forest Service Notice of Intent (NOI) to prepare an Environmental Impact Statement (EIS) were incorporated into a joint Draft EIS/EIR for the project. Because the USDA Forest Service is the federal lead agency under the National Environmental Policy Act (NEPA) for the EIS component of the joint environmental document, the District prepared an administrative draft of the joint document for Forest Service review and approval in early 2015.

Following the Forest Service's review and approval of the joint draft document, the Draft EIS/EIR for the project was published in May, 2016 for a 45-day public review period. A joint District and Forest Service public workshop was held on May 19, 2016 in the District's Board Room. The public comment period for the Draft EIS/EIR ended on June 30, 2016.

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After the completion of the public review and comment period, the District and the Forest Service prepared the joint Final EIS/EIR for the project to address public and agency comments on the Draft document.

The Forest Service issued the Littlerock Reservoir Sediment Removal Project joint Final EIS/EIR and its Draft Record of Decision (ROD) on February 17, 2017 in compliance with its 45-day objection process. The Forest Service anticipates issuing its Final ROD by late Spring/early Summer 2017. The ROD would support the Forest Service Special Use Authorization to implement the project, including start of construction.

The contents of the Final EIR recommended by staff for certification and the joint Final EIS/EIR published by the Forest Service are exactly the same. However, given the bifurcated decision processes and timelines for the NEPA and CEQA processes, the District has opted to move forward with certification of the environmental analysis document under CEQA procedural requirements in advance of the Forest Service ROD in an effort to facilitate the State and local agency permitting processes. The Final EIR only differs from the joint Final EIS/EIR in that it has a cover indicating “Final EIR” to avoid confusion for the CEQA process. A full description of the proposed Littlerock Reservoir Sediment Removal Project is included in Exhibit C.

**Strategic Plan Element:**

This work is part of Strategic Initiative No. 1 – Water Resource Reliability by developing the Littlerock Reservoir Sediment Removal Project.

**Budget:**

Adopting the Final EIR would have no immediate effect on the District’s budget.

**Supporting Documents:**

Resolution No. 17-12 - Certifying the Final EIR for the Littlerock Reservoir Sediment Removal Project.

Exhibit A – Findings of Fact – Final EIR for the Littlerock Reservoir Sediment Removal Project.

Exhibit B – Mitigation, Monitoring and Reporting Program – Final EIR for the Littlerock Reservoir Sediment Removal Project.

Exhibit C – Littlerock Reservoir Sediment Removal Project Description

**RESOLUTION NO. 17-12**

**A RESOLUTION (CERTIFICATION) OF THE BOARD OF DIRECTORS OF THE PALMDALE WATER DISTRICT CERTIFYING THE FINAL ENVIRONMENTAL IMPACT REPORT (STATE CLEARINGHOUSE # 2005061171), ADOPTING FINDINGS OF FACT AS REQUIRED BY PUBLIC RESOURCES CODE SECTION 21081(A) AND CEQA GUIDELINES SECTION 15091, AND ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM AS REQUIRED BY PUBLIC RESOURCES CODE SECTION 21081.6, AND CEQA GUIDELINES SECTION 15097, AS RELATED TO THE LITTLEROCK RESERVOIR SEDIMENT REMOVAL PROJECT.**

**WHEREAS**, the Palmdale Water District proposes to increase its water supply reliability for its long-term water supply through implementing the Littlerock Reservoir Sediment Removal Project;

**WHEREAS**, the Palmdale Water District's Strategic Water Resources Plan includes removing sediment from the Littlerock Reservoir to restore the reservoir space used for storage for a portion of the District's municipal water supply;

**WHEREAS**, the District, in early 2014, issued a CEQA Notice of Preparation (NOP) to complete an Environmental Impact Report (EIR) for the Littlerock Reservoir Sediment Removal Project (Project).

**WHEREAS**, scoping comments from the District's NOP along with the USDA Forest Service Notice of Intent (NOI) to prepare an Environmental Impact Statement (EIS) were incorporated into a joint Draft EIS/EIR for the Project.

**WHEREAS**, the District prepared an administrative draft of the joint document for Forest Service review and approval in early 2015.

**WHEREAS**, following the Forest Service's review and approval of the joint draft document, the Draft EIS/EIR for the Project was published in May, 2016 for a 45-day public review period. A joint District and Forest Service public workshop was held on May 19, 2016 in the District's Board Room. The public comment period for the Draft EIS/EIR ended on June 30, 2016.

**WHEREAS**, the Forest Service issued the Littlerock Reservoir Sediment Removal Project joint Final EIS/EIR and its Draft Record of Decision (ROD) on February 17, 2017 in compliance with its 45-day objection process and prior to the issuance of its Final ROD expected by late Spring/early Summer 2017.

**WHEREAS**, on March 22, 2017, the District's Board of Directors conducted a duly noticed public hearing on the Project and at the meeting certified the Final EIR after considering public testimony and materials in the staff report;

**WHEREAS**, all requirements of CEQA and the State CEQA Guidelines have been satisfied in the EIR, which is sufficiently detailed so that all of the potentially significant environmental effects of the Project have been adequately evaluated;

**WHEREAS**, the EIR prepared in connection with the Project sufficiently analyzes both the feasible mitigation measures necessary to avoid or substantially lessen the Project's environmental impacts and a range of feasible alternatives capable of eliminating or reducing these effects in accordance with CEQA and the State CEQA Guidelines.

**NOW, THEREFORE, THE DISTRICT DOES HEREBY RESOLVE, ORDER AND DETERMINE AS FOLLOWS:**

**SECTION 1.** All recitals in the Resolution are true and correct and the District so finds, determines and represents.

**SECTION 2.** The District's Board of Directors reviewed the Final EIR and finds the Final EIR for the Littlerock Sediment Removal Project is adequate and complete in that it addresses all potential environmental effects of the proposed Project, fully complies with CEQA, and reflects the Board of Director's independent judgment and analysis.

**SECTION 3.** The District's Board of Directors hereby certifies the Final EIR for the Littlerock Sediment Removal Project (State Clearing House No. 2005061171) incorporated herein by reference as if set forth in full. The District's Board of Directors finds that all potential significant environmental effects have been reduced to an acceptable level in that such potential significant environmental effects identified in the Final EIR have been reduced to a level of insignificance by mitigation measures made part of the Project, or eliminated by revisions made in the Project. The Notice of Determination will be filed with the Los Angeles County Clerk, no later than March 27, 2017.

**SECTION 4.** The District's Board of Directors hereby adopts the Findings of Fact for the Littlerock Sediment Removal Project, included as Exhibit A and incorporated herein by reference as if set forth in full.

**SECTION 5.** The District's Board of Directors hereby adopts the Mitigation, Monitoring and Reporting Program for the Little Rock Sediment Removal Project, included as Exhibit B and incorporated herein by reference as if set forth in full.

**SECTION 6.** The District's Board of Directors declares that should any provision, section, paragraph, sentence or work of this Resolution be rendered or declared invalid by any court of competent jurisdiction, or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences and words of this Resolution shall remain in full force and effect.

**PASSED, APPROVED AND ADOPTED** this 22<sup>nd</sup> day of March 2017.

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Robert Alvarado, President  
Board of Directors  
Palmdale Water District

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Joe Estes, Secretary  
Board of Directors  
Palmdale Water District

Approved as to form:

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Aleshire & Wynder, LLP  
District Legal Counsel

**EXHIBIT A:**  
**CALIFORNIA ENVIRONMENTAL QUALITY ACT FINDINGS**  
**IN CONNECTION WITH THE APPROVAL OF THE**  
**LITTLEROCK RESERVOIR SEDIMENT REMOVAL PROJECT**

The Palmdale Water District (District), as Lead Agency under the California Environmental Quality Act (CEQA), and the USDA Forest Service, as Responsible Agency under the National Environmental Policy Act (NEPA), have prepared a joint Environmental Impact Statement and Environmental Impact Report (EIS/EIR) for the Littlerock Reservoir Sediment Removal Project. Due to different federal and State procedural requirements, the District is proceeding with its findings as they relate to CEQA.

The following presents the District's CEQA findings based on the joint environmental document's analysis of potential impacts of the proposed project. For purposes of the District's findings, the joint document is referred to as the Final EIR, because the Forest Service Record of Decision on the EIS will not be issued concurrently with the District's decision on the project.

**CERTIFICATION OF THE FINAL ENVIRONMENTAL IMPACT REPORT**

The Final EIR, which incorporates the Draft EIR circulated for public review, assesses the potential environmental effects from implementation of the project, identifies the means to eliminate or reduce potential environmental impacts, and evaluates a range of alternatives to the proposed project. The Final EIR includes text changes to the Draft EIR; provides Responses to Comments received on the Draft EIR; and the Mitigation Monitoring and Reporting Program for the project.

The District Board of Directors (Board) certifies that the Final EIR for the project has been completed in compliance with CEQA. The Board further certifies that the information contained in the Final EIR has been reviewed and considered by the Board prior to making the approvals set forth below in Section VII, and that the Final EIR reflects the Board's independent judgement and analysis. The conclusions presented in these Findings are based upon the Final EIR and other evidence in the administrative record.

**II. FINDINGS**

The Board hereby adopts the following Findings pursuant to Title 14, California Code of Regulations, Section 15091, in conjunction with the approvals of the project, which are set forth in Section VII, below.

**A. Environmental Review Process**

**1. Preparation of the EIR**

On March 7, 2014, the District circulated a Notice of Preparation (NOP) announcing the preparation of an EIR which described the Littlerock Reservoir Sediment Removal Project and the scope of the analysis to be included in the Draft EIR. A public scoping meeting for the proposed project was held on March 25, 2014, to provide information on the project, answer related questions, and solicit written and verbal comments. No verbal comments were received during the scoping meeting. The 13 written comments received prior to and during the scoping period were incorporated into the Draft EIR, as appropriate. All issues raised during the NOP public scoping period were reviewed by the District to determine the appropriate consideration and level of analysis.

The State Clearinghouse published the Notice of Completion for the Draft EIR on May 6, 2016, and circulated it for public review and comment for a 55-day period ending on June 30, 2016. Nine comment letters on the Draft EIR were received from agencies, organizations, and individuals. Final EIR Appendix G contains all comments received during the public comment period and written responses to those comments, prepared in accordance with State CEQA Guidelines. The Board, having reviewed the comments received and responses thereto, finds that the Final EIR for the project provides adequate, good faith, and reasoned responses to the comments.

## **2. Absence of Significant New Information**

Section 15088.5 of the State CEQA Guidelines requires a Lead Agency to recirculate an EIR for further review and comment when significant new information is added to the EIR after public notice is given of the availability of the Draft EIR but before certification. New information includes: (i) changes to the project; (ii) changes in the environmental setting; or (iii) additional data or other information. Section 15088.5 further provides that:

...new information added to an EIR is not “significant” unless the EIR is changed in a way that deprives the public of a meaningful opportunity to comment upon a substantial adverse environmental effect of the project or a feasible way to mitigate or avoid such an effect (including a feasible project alternative) that the project’s proponents have declined to implement.

Having reviewed the information contained in the Draft and Final EIR and in the administrative record, as well as the requirements of State CEQA Guidelines Section 15088.5 and interpretive judicial authority regarding recirculation of Draft EIRs in connection with certification of the Final EIR, the Board finds that no new significant information was added to the EIR following public review and thus, recirculation of the EIR was not required by CEQA.

## **B. Alternatives**

The proposed project would remove approximately 1,165,000 cubic yards of sediment that has accumulated within Littlerock Reservoir to restore design water storage capacity. Prior to sediment removal, to prevent disturbance upstream of Rocky Point and preserve critical habitat of arroyo toad (a federally-listed endangered species), a subterranean grade control structure would be constructed at Rocky Point. Sediment would then be removed annually by truck after Labor Day until seasonal water refill of the Reservoir suspends removal efforts (estimated between mid-November and January 31). Under the proposed project, approximately 7 to 12 years of annual sediment removal is required to restore Reservoir design storage capacity. Sediment removal activities would occur six days per week, up to 12 hours per day. Removed sediment would be reused as feasible and/or disposed at nearby exhausted mining quarries in the City of Palmdale. Following initial sediment removal to restore the Reservoir, an estimated 38,000 cubic yards of sediment would be removed every year to maintain design storage capacity.

Per State CEQA Guidelines Section 15126, Section B.4 (Development and Screening of Alternatives) of the Final EIR evaluates a reasonable range of project alternatives to determine if these alternatives could meet the project objectives, while avoiding or lessening significant impacts of the proposed project. This analysis identifies six alternatives that were considered and rejected during the project’s scoping process, which included a slurry excavation alternative, sediment catch basin alternative, sediment excavation alternatives, disposal site alternatives, and a raised spillway alternative. Brief summaries of these alternatives and the associated reasons for rejection are provided in Section B.4.6 of the Final EIR.

Final EIR Section B.4.5 describes the project alternatives that were selected for detailed analysis in the EIR, which included a Reduced Sediment Removal Intensity Alternative (Alternative 1), and a No Action/No Project Alternative (Alternative 2) as required in State CEQA Guidelines Section 15126.6. In addition to evaluating the proposed project, the EIR examined the associated environmental impacts of Alternatives 1 and 2, as well as the ability of each alternative to meet the project's purpose and objectives (identified in Section A.1 of the Final EIR).

### **1. Environmentally Superior Alternative**

Pursuant to requirements in State CEQA Guidelines Section 15126.6, the Final EIR analysis identifies and discusses the environmentally superior alternative (see Final EIR Section C.15). It should be noted that the No Project Alternative is not environmentally superior, because it may lead to potential dam failure and/or the need for dam removal, and as such would have greater impacts on the environment than all action alternatives considered and fully analyzed in the EIR. Based upon the analysis presented in the Final EIR, Alternative 1 is considered the environmentally superior alternative. Alternative 1 (Reduced Sediment Removal Intensity Alternative) was expressly developed as a modification to the proposed project for reducing the intensity of annual sediment removal daily construction activities, thus reducing daily air quality emissions and truck trips.

### **2. Board Determination**

The Board has weighed the environmental advantages and disadvantages of the proposed project and alternatives, as presented in the Final EIR. While Alternative 1 was identified as the environmentally superior alternative within the EIR, by extending the annual sediment removal period, Alternative 1 would result in significant unavoidable recreational impacts. Under the proposed project, the Reservoir would be closed to the public starting after Labor Day until seasonal water refill of the Reservoir suspends removal efforts (estimated between mid-November and January 31). Under Alternative 1, this annual closure period would start July 1, thereby closing the Reservoir during the peak recreational period between July 1 and Labor Day. The extended annual sediment removal period under Alternative 1 would also increase the timeframe of potential impacts to biological resources. Further, the Board recognizes that the USDA Forest Service, as land manager of the Littlerock Reservoir, has selected the proposed project as its preferred alternative under NEPA. Given these considerations, the proposed project as presented in the Final EIR is recommended for approval by the Board as the "Littlerock Reservoir Sediment Removal Project" and constitutes the CEQA findings presented below.

## **C. Significant and Unavoidable Impacts Associated with the Proposed Project**

Based on the analysis contained in Section C (Affected Environment and Environmental Consequences) of the Final EIR, implementation of the proposed project would result in significant environmental effects that cannot be avoided through application of feasible mitigation measures or standard project commitments (refer to Final EIR, Appendix A). Significant and unavoidable impacts would occur for the following resources: cultural resources and land use.

### ***Cultural Resources***

The Project could uncover, expose, and/or damage human remains or cultural artifacts not currently known during construction and maintenance activities. While the proposed project includes conditions to temporarily cease construction and properly handle any such discoveries, the effect would be considered adverse under the regulations in the National Historic Preservation Act, and therefore treatment of the remains (other than leaving them in place) would result in a significant and unavoidable impact. Standard

Project Commitments (SPCs) CUL-2 (Unidentified Cultural Resource Discovery Procedures) and CUL-3 (Unidentified Human Remains Discovery Procedures) would ensure that construction is temporarily halted in the event that previous unknown archaeological resources or human remains are discovered, and that established protocols in addressing these unanticipated findings are implemented. The full text for SPCs CUL-2 and CUL-3 is presented below.

**SPC CUL-2 Unidentified Cultural Resource Discovery Procedures.** If previously unidentified cultural resources are unearthed during construction activities, construction work in the immediate area of the find shall be halted and directed away from the discovery until a qualified archaeologist assesses the significance of the resource. Once the find has been inspected and a preliminary assessment made, the District would consult with the Forest Service to make the necessary plans for evaluation and treatment of the find(s).

**SPC CUL-3 Unidentified Human Remains Discovery Procedures.** The District shall follow all State and federal laws, statutes, and regulations that govern the treatment of human remains. Avoidance and protection of inadvertent discoveries which contain human remains shall be the preferred protection strategy with complete avoidance of impacts to such resources protected from direct project impacts by project redesign.

If human remains are discovered during construction, all work shall be diverted from the area of the discovery and the Forest Service authorized officer shall be informed immediately. If the remains are determined to be of Native American origin and are on federal land, then the remains shall be treated in accordance with the Native American Graves Protection and Repatriation Act (NAGPRA). If non-Native American human remains are discovered on federal land, then the County coroner would be contacted to determine the appropriate course of action. If the human remains are not on federal land, the remains shall be treated in accordance with Health and Safety Code Section 7050.5, CEQA Section 15064.5(e), and Public Resources Code Section 5097.98. The District shall assist and support the Forest Service, as appropriate, in all required NAGPRA and Section 106 actions, government to-government and consultations with Native Americans, agencies and commissions, and consulting parties as requested by the Forest Service. The District shall comply with and implement all required actions and studies that result from such consultations.

**FINDING.** For the reasons stated in the Final EIR (see Final EIR Section C.4), the Board finds that implementation of the proposed project could result in significant direct effects to cultural resources at Littlerock Reservoir. Pursuant to CEQA Guidelines Section 15091(a)(1), no public agency shall approve or carry out a project for which an EIR has been certified which identifies one or more significant environmental effects of the project, unless the agency makes one or more written findings for each significant effect, and provides the rationale for that finding. Possible findings can include a determination that changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect as identified in the final EIR.

In accordance with CEQA Guidelines Section 15091(a)(1), the District has required and incorporated SPC CUL-2 and SPC CUL-3, which would substantially lessen the significant environmental effects to cultural resources to the extent feasible.

### ***Land Use***

The proposed project would temporarily disturb residences along the truck routes during sediment transport and disposal. Best management practice commitments have been required and incorporated

into the proposed project which substantially lessen the significant environmental effect, as identified in the Final EIR. However, temporary construction-related noise and traffic would create a significant and unavoidable nuisance impact. The following SPCs would require the use of construction standards and practices in order to reduce the construction vehicle emissions, noise, and construction traffic that would disturb nearby residences: AQ-1 (Limit Engine Idling), AQ-2 (Fugitive Dust Controls), AQ-3 (Off-Road Engine Specifications), AQ-4 (On-Road Engine Specifications), AQ-5 (Reduce Off-Road Vehicle Speeds), NOI-1 (Prepare a Construction Noise Complaint and Vibration Plan), and NOI-2 (PWD Site Buffer Requirements). The full text for these SPCs is presented below.

**SPC AQ-1: Limit Engine Idling.** Vehicle engine idling shall be limited to the extent feasible, and shall be limited to a maximum duration of 3 minutes per event.

**SPC AQ-2: Fugitive Dust Controls.** Fugitive dust controls shall conform with applicable AVAQM Rule 403 (c) requirements for all phases of the project; a Dust Control Plan (DCP) will be submitted to the APCO for approval if more than 5 acres would be disturbed or if more than 2,500 cubic yards of material will be excavated per day for at least three days (for each phase of the project as applicable); and in addition to the Rule 403 (c) requirements or to specify requirements where that rule provides options, the following specific additional fugitive dust control measures will be used during the main excavation phase of the project:

- Install wheel washers or wash the wheels of trucks and other heavy equipment where vehicles exit unpaved roadways on the site and the sediment disposal area.
- Street sweeping shall be conducted to cleanup any carryout from unpaved areas and reduce paved road silt content.
- Water the disturbed areas of the active construction sites and active unpaved roadways used during construction at least four times per day and more often if uncontrolled fugitive dust is noted.
- Cover all trucks hauling sediment and other loose material, or require at least two feet of freeboard.
- Travel routes shall be developed to minimize both unpaved road travel.
- Sediment excavation will be conducted in areas of the reservoir bed that are near the maintained reservoir water level so that the sediment excavated is naturally wet or excavation will occur in areas that are watered prior to excavation.
- Sediment storage areas will have non-toxic dust suppressants sprayed over their active surface area at the end of each year's excavation period.
- Establish a vegetative ground cover (in compliance with biological resources impact Mitigation Measures) or otherwise create stabilized surfaces on all unpaved areas disturbed by the project, not including areas located within the maximum pool elevation of the Littlerock Reservoir, within 21 days after active construction operations have ceased each year.

The reservoir level will be allowed to rise as fast as nature allows to levels above each year's annual excavation areas.

**SPC AQ-3: Off-Road Engine Specifications.** All off-road construction diesel engines not registered under CARB's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower or more, shall meet, at a minimum, the Tier 3 California Emission Standards for Off-Road Compression-Ignition Engines as specified in California Code of Regulations, Title 13, section 2423(b)(1) unless that such engine is not available for a particular item of equipment. In the event a Tier 3, or higher tier, engine is not available for any off-road engine larger than 50 horsepower, that engine shall be equipped with a Tier 2 engine equipped with a catalyzed diesel particulate filter (soot filter), unless certified by engine manufacturers that the use of such devices is not practical for specific engine types. Equipment properly registered under and in compliance with CARB's Statewide Portable Equipment Registration Program are in compliance with this project commitment.

**SPC AQ-4: On-Road Engine Specifications.** All on-road construction vehicles shall meet all applicable California on-road emission standards. This does not apply to construction worker personal vehicles.

**SPC AQ-5: Reduce Off-Road Vehicle Speeds.** Vehicle speeds shall remain below 15 mph off-pavement to minimize dust and reduce wildlife impacts.

**SPC NOI-1: Prepare a Construction Noise Complaint and Vibration Plan.** Prior to construction, a Construction Noise Complaint and Vibration Plan shall be prepared by the District. The Plan shall establish a telephone number for use by the public to report any nuisance noise conditions associated with Project activities occurring outside the Angeles National Forest. The District shall ensure that:

- A noise and vibration liaison is assigned to respond to all public construction noise complaints, and
- Either (a) the telephone number is staffed by the noise and vibration liaison during construction hours; or (b) the phone number is connected to an automatic answering feature, with date and time stamp recording, to answer calls when the phone is unattended.

This telephone number shall be posted at entrances to the Reservoir and the District's sediment storage site on 47th Street in a manner visible to passersby. The Plan shall detail how the District would respond to noise and vibration complaints and document the resolution of those complaints.

**SPC NOI-2: PWD Site Buffer Requirements.** Project activities within the District property located on 47th Street East shall not occur within 500 feet of any residential structure.

**FINDING.** For the reasons stated in the Final EIR (see Final EIR Section C.9), the Board finds that implementation of the proposed project would result in significant direct effects to residences along the haul routes of sediment disposal. Pursuant to CEQA Guidelines Section 15091(a)(1), no public agency shall approve or carry out a project for which an EIR has been certified which identifies one or more significant environmental effects of the project, unless the agency makes one or more written findings for each significant effect, and provides the rationale for that finding. Possible findings can include a determination that changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect as identified in the final EIR.

In accordance with CEQA Guidelines Section 15091(a)(1), the District has required and incorporated SPC AQ-1, SPC AQ-2, SPC AQ-3, SPC AQ-4, SPC AQ-5, SPC NOI-1, and SPC NOI-2, which would substantially lessen the significant environmental effects to land use to the extent feasible.

### ***Cumulative Impacts***

The analysis in Section D (Cumulative Effects) of the Final EIR addresses potential cumulative impacts from past, present, and probable future projects. As described therein, a project that has a less than significant direct effect on the environment may nonetheless make a considerable contribution to a cumulative effect. The analyses concluded that impacts would be cumulatively considerable for Cultural Resources, Recreation and Land Use, and Transportation and Traffic.

To minimize the project's cumulative effects to cultural resources, the proposed project would incorporate SPCs CUL-2 and SPC CUL-3 to ensure that construction is temporarily halted in the event that previous unknown archaeological resources or human remains are discovered, and that established protocols in addressing these unanticipated findings are implemented (see Section C, Cultural Resources, for the full text of these cultural measures). To minimize the project's cumulative effects to land use, the proposed project would incorporate SPCs AQ-1, AQ-2, AQ-3, AQ-4, AQ-5, NOI-1, and NOI-2, which would require the use of construction standards and practices in order to reduce the construction vehicle emissions, noise, and construction traffic (see Section C, Land Use, for the full text of these land use measures).

The proposed project would also minimize cumulative effects to transportation and traffic through incorporation of Mitigation Measure T-1 (Restrict Haul Truck Movements during PM Peak Period), as well as SPC TRA-1 (Prepare Traffic Control Plan) and SPC TRA-2 (Pavement Rehabilitation – Public or National Forest Roadways). Mitigation Measure T-1 would avoid traffic conflicts during identified peak commuter periods, while SPCs TRA-1 and TRA-2 would establish a construction route plan to avoid conflicts with emergency access and protocols for addressing roadway damage, respectively. The full text for Mitigation Measure T-1, SPC TRA-1, and SPC TRA-2 is presented below.

**MM T-1: Restrict Haul Truck Movements during PM Peak Period.** Implement a haul truck schedule that requires trucks to avoid traveling along the Cheseboro Road–Pearblossom Highway–Avenue T haul route during the afternoon peak period, i.e., from 4:00 to 6:00 p.m., to the extent feasible. The alternative route to be utilized is Cheseboro Road, Barrel Springs Road, 47th Street E, Pearblossom Highway, and Avenue T.

**SPC TRA-1: Prepare Traffic Control Plan.** A Traffic Control Plan shall be prepared by the District available for review, inspection, and input by Caltrans, Forest Service, Los Angeles County, and the City of Palmdale. The Plan shall include, but is not limited to:

- The location and need for flagmen and other temporary traffic control devices, including within the Angeles National Forest, at the District's sediment staging site, at the intersection of Cheseboro Road and Pearblossom Highway to ensure safe left turn movements onto Pearblossom Highway;
- Travel time restrictions for trucks to avoid traveling along the Cheseboro Road - Pearblossom Highway – Avenue T haul route during the afternoon peak period; i.e., from 4:00 to 6:00 p.m., to the extent feasible, utilizing Cheseboro Road, Barrel Springs Road, 47th Street E, Pearblossom Highway, and Avenue T;

- The need for a fair-share contribution to the funding of future improvements at the intersections of Cheseboro Road/Pearblossom Highway and Pearblossom Highway/Avenue T in the event afternoon peak period restrictions cannot be utilized.
- The need for any oversize vehicle, weight restriction, or encroachment permits;
- Assurance of emergency access to and through the Reservoir and District site work areas;
- Procedures for haul trucks to immediately pull into the shoulder when emergency vehicles with sirens on are travelling in their vicinity;
- Designated work area access locations;
- Driveway turning restrictions; and
- Designated parking/staging locations for workers and equipment.

This Plan shall be reviewed and adjusted, as needed, a minimum of every 3-5 years until the Reservoir has been restored to 1992 design storage capacity to ensure effectiveness and address changes in traffic volumes and conditions.

**SPC TRA-2: Pavement Rehabilitation – Public or National Forest Roadways.** The District and/or its contractor shall conduct annual before-and-after evaluation of pavement conditions along the sediment haul routes, equipment staging areas, and equipment access points to document any damage caused by the haul trucks or other construction activities. The documentation shall include written descriptions and photographs of pre-project and post-project pavement conditions. Any pavement or other infrastructure damage caused by the haul trucks or construction equipment shall be repaired/rehabilitated to pre-project conditions or better. This measure shall be subject to review, approval, and inspection by the Los Angeles County Department of Public Works, the City of Palmdale Department of Public Works, California Department of Water Resources, USFS, and Caltrans, depending on who has jurisdiction over the route.

**FINDING.** For the reasons stated in the Final EIR (see Final EIR Sections C.4, C.9, and C.10), the Board finds that implementation of the proposed project would result in significant cumulative effects to cultural resources, recreation and land use, and traffic. Pursuant to CEQA Guidelines Section 15091(a)(1), no public agency shall approve or carry out a project for which an EIR has been certified which identifies one or more significant environmental effects of the project, unless the agency makes one or more written findings for each significant effect, and provides the rationale for that finding. Possible findings can include a determination that changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect as identified in the final EIR.

Mitigation and standard project commitments have been required and incorporated into the proposed project, in accordance with CEQA Guidelines Section 15091(a)(1), which would substantially lessen the significant cumulative effects to these resources to the extent feasible. As fully described above, required mitigation would include SPCs CUL-2 and SPC CUL-3 to address cumulative impacts to cultural resources; SPCs AQ-1, AQ-2, AQ-3, AQ-4, AQ-5, NOI-1, and NOI-2, to address cumulative impacts to land use; and Mitigation Measure T-1, SPC TRA-1, and SPC TRA-2 to address cumulative impacts to transportation and traffic.

## **D. Less than Significant Impacts Associated with the Proposed Project**

This section summarizes the direct and indirect environmental impacts of the proposed project identified in the Final EIR, and provides Findings as to those impacts, as required by CEQA and the CEQA Guidelines. Accordingly, the following discussion identifies impacts that are less than significant without mitigation, as well as impacts that are significant but would be mitigated to below a level of significance with identified mitigation measures. All mitigation measures identified below, as well as the standard project commitments identified in Final EIR Appendix A, shall be applied to the proposed project as a condition of approval.

### **1. Impacts that are Less Than Significant without Mitigation**

Section 15091 of the State CEQA Guidelines does not require specific findings to address environmental effects that an EIR identifies as having "no impact" or a "less than significant" impact. The Final EIR found that the proposed project would create impacts to the following resources, and that these impacts would be less than significant without mitigation due to the incorporation of standard project commitments (refer to Final EIR, Appendix A): Air Quality and Climate Change (see Final EIR Section C.2), Biological Resources (see Final EIR Section C.3), Geology and Soils (see Final EIR Section C.5), Hazards and Public Safety (see Final EIR Section C.6), Hydrology (see Final EIR Section C.7), Noise (see Final EIR Section C.8), Visual Resources (see Final EIR Section C.11), Water Quality and Resources (see Final EIR Section C.12), and Wildfire Prevention and Suppression (see Final EIR Section C.13).

**FINDING.** For the reasons stated in the Final EIR, the Board finds that implementation of the proposed project would result in less than significant effects to air quality and climate change (see Final EIR Section C.2), biological resources (see Final EIR Section C.3), geology and soils (see Final EIR Section C.5), hazards and public safety (see Final EIR Section C.6), hydrology (see Final EIR Section C.7), noise (see Final EIR Section C.8), visual resources (see Final EIR Section C.11), water quality and resources (see Final EIR Section C.12), and wildfire prevention and suppression (see Final EIR Section C.13). Environmental commitments have been required and incorporated into the proposed project which avoid or substantially lessen the significant environmental effects, as identified in the Final EIR.

### **2. Impacts that would be Mitigated to Less Than Significant Levels**

The following section discusses potentially significant impacts of the proposed project identified in the Final EIR. Implementation of specific mitigation measures identified below (as presented in the Final EIR) would reduce these potentially significant impacts to a less than significant level.

#### ***Recreation***

##### **A. Project construction and excavation would preclude or disturb existing recreational resources**

The proposed project would require the Reservoir be closed to public access starting after Labor Day to December/January for up to 13 years to restore the Reservoir to 1992 design storage capacity. Once the Reservoir has been restored, the proposed project would also require the Reservoir to be closed to the public after Labor Day until December/January, as needed, for ongoing sediment removal to maintain design storage capacity.

The implementation of Mitigation Measure L-1a (Coordinate project scheduling and maintenance activities with Forest Service Authorized Officer) would require that the annual schedule for ongoing annual excavation and sediment removal is reviewed by the Forest Service to seek any feasible reduction in recreation impacts. The implementation of Mitigation Measure L-1b (Provide compensation to Forest

Service for lost recreational opportunity) ensures the Forest Service is compensated for any lost recreational opportunity directly attributable to District activities during construction and maintenance. The full text for Mitigation Measures L-1a and L-1b is presented below.

**MM L-1a Coordinate project scheduling and maintenance activities with Forest Service Authorized Officer.** The District shall develop the project construction schedule and coordinate construction with the Forest Service's Authorized Officer. Coordination efforts shall ensure the following occurs unless otherwise approved by the Forest Service's Authorized Officer:

- Construction and maintenance activities are scheduled to avoid heavy recreational use periods (including major holidays) as determined by the Forest Service's Authorized Officer;
- Staging areas for project activities are located to minimize the need to temporarily close developed recreation facilities;
- Timetables for the required period of use will attempt to limit the need for and duration of temporary closures to the greatest extent feasible; and
- The Forest Service and the District will meet annually prior to Labor Day to discuss these measures and reach consensus. The Forest Service retains final discretion over any temporary closures.

**MM L-1b Provide compensation to Forest Service for lost recreational opportunity.** The recreational impacts of the project during construction could vary widely in any given year. The District and the Forest Service agree as part of an annual meeting to assess the likely duration of closures and jointly determine the number of days of lost recreation opportunities directly attributable to the project during the construction time period. Any areas that remain closed to recreation for other factors not associated with the construction of the project will not be considered. The District shall compensate the Forest Service based on long term historical records of revenue generated per day kept prior to start of construction of the project, and also an agreed upon value of public recreation, as determined by literature or studies. Compensation may be any form allowable under current agreement authorities, including cash, equipment, supplies, or in-kind labor. Contributions may be made to a third party, or applied off-site if agreed to by the parties. The goal is for the District and the Forest Service to build a partnership that provides and enhances recreation fairly and commensurate with project impacts.

**FINDING.** For the reasons stated in the Final EIR (see Final EIR Section C.9), the Board finds that implementation of the proposed project would result in significant direct effects to recreation. Pursuant to CEQA Guidelines, section 15091(a)(1), changes or alterations have been required or incorporated into the proposed project which avoid or substantially lessen the significant environmental effect as identified in the Final EIR. Specifically, implementation of Mitigation Measures L-1a and L-1b would ensure that project activities do not preclude recreation during the peak recreational period and would compensate the Forest Service for any loss recreational opportunity directly attributable to the project. Recreation impacts would be reduced below a level of significance.

### ***Transportation and Traffic***

- A. Exceed, either individually or cumulatively, an established level of service standard for roadways, highways, and intersections utilized by the project

The Transportation and Traffic analysis in Section C.10 concluded that construction activities during sediment removal would create delays at the intersection of Cheseboro Road and Pearblossom Highway during the afternoon peak hours. The resulting traffic conditions would result in a significant impact and would require mitigation to alleviate adverse traffic delays. The implementation of Mitigation Measure T-1 (Restrict Haul Truck Movements during PM Peak Period) would prohibit or limit truck hauling activities during the afternoon peak periods, thereby reducing potentially significant traffic impacts to a less than significant level.

**MM T-1 Restrict Haul Truck Movements during PM Peak Period.** Implement a haul truck schedule that requires trucks to avoid traveling along the Cheseboro Road–Pearblossom Highway–Avenue T haul route during the afternoon peak period, i.e., from 4:00 to 6:00 p.m., to the extent feasible. The alternative route to be utilized is Cheseboro Road, Barrel Springs Road, 47th Street E, Pearblossom Highway, and Avenue T.

**FINDING.** For the reasons stated in the Final EIR (see Final EIR Section C.10), the Board finds that implementation of the proposed project would result in significant direct effects to transportation and traffic in the project site vicinity. Pursuant to CEQA Guidelines, section 15091(a)(1), changes or alterations have been required or incorporated into the proposed project which avoid or substantially lessen the significant environmental effect as identified in the Final EIR. Specifically, implementation of Mitigation Measure T-1 would reduce potentially significant direct impacts to the intersection of Cheseboro Road and Pearblossom Highway during the afternoon peak hours below a level of significance.

B. Result in inadequate emergency response

The proposed project could result in adverse impacts to emergency response if trucking activities would restrict access to adjacent land uses or along travel routes with no suitable alternative access. The implementation of Mitigation Measure T-1 (Restrict Haul Truck Movements during PM Peak Period) would alleviate adverse traffic delays at the study area intersection of Cheseboro Road and Pearblossom Highway, thereby reducing potentially significant traffic impacts that could slow down emergency access flow.

**MM T-1 Restrict Haul Truck Movements during PM Peak Period.** Implement a haul truck schedule that requires trucks to avoid traveling along the Cheseboro Road–Pearblossom Highway–Avenue T haul route during the afternoon peak period, i.e., from 4:00 to 6:00 p.m., to the extent feasible. The alternative route to be utilized is Cheseboro Road, Barrel Springs Road, 47th Street E, Pearblossom Highway, and Avenue T.

**FINDING.** For the reasons stated in the Final EIR (see Final EIR Section C.10), the Board finds that implementation of the proposed project would result in significant direct effects to the intersection of Cheseboro Road and Pearblossom Highway during the afternoon peak hours. Pursuant to CEQA Guidelines, section 15091(a)(1), changes or alterations have been required or incorporated into the proposed project which avoid or substantially lessen the significant environmental effect as identified in the Final EIR. Specifically, implementation of Mitigation Measure T-1 would reduce potentially significant direct impacts to emergency response to a less than significant level.

## E. Cumulative Impacts and Mitigation Measures

Section 15130(a) of the State CEQA Guidelines requires that an EIR discuss the cumulative impacts of a project when the project's incremental effect is determined to be cumulatively considerable. The discussion of cumulative impacts must evaluate whether the impacts of the project will be significant when considered in combination with past, present, and future reasonably foreseeable projects, and

whether the project would make a cumulatively considerable contribution to those impacts. As described above in Section II(C), the proposed project would contribute to potentially significant cumulative impacts for Cultural Resources, Recreation and Land Use, and Transportation and Traffic (see Final EIR Chapter D.4). However, the proposed project would not contribute to potentially significant cumulative impacts for air quality and climate change, biological resources, geology and soils, hazards and public safety, hydrology, noise, visual resources, water quality and resources, and wildfire prevention and suppression.

**FINDING.** For the reasons stated in the Final EIR, the Board finds that implementation of the proposed project would result in less than significant cumulative effects to air quality and climate change (see Final EIR Section C.2), biological resources (see Final EIR Section C.3), geology and soils (see Final EIR Section C.5), hazards and public safety (see Final EIR Section C.6), hydrology (see Final EIR Section C.7), noise (see Final EIR Section C.8), visual resources (see Final EIR Section C.11), water quality and resources (see Final EIR Section C.12), and wildfire prevention and suppression (see Final EIR Section C.13). Environmental commitments have been required and incorporated into the proposed project which avoid or substantially lessen the contribution to significant cumulative environmental effects, as identified in the Final EIR.

### **III. Additional Findings**

These Findings incorporate by reference the text of the Final EIR prepared for the Littlerock Reservoir Sediment Removal Project in its entirety. Without limitation, this incorporation is intended to elaborate on the scope and nature of project and cumulative development impacts, related mitigation measures and standard project commitments, and the basis for determining the significance of such impacts.

CEQA requires the Lead Agency approving a project to adopt a monitoring program for changes to the project that it adopts or makes a condition of project approval in order to mitigate or avoid significant effects on the environment and ensure compliance during project implementation. The Mitigation Monitoring and Reporting Program for the project has been prepared to serve this purpose, and is hereby adopted by the Board. The adopted Mitigation Monitoring and Reporting Program is included as Exhibit B, a supporting document to Board Resolution No. 17-12 and to these Findings.

### **IV. Statement of Overriding Considerations**

Pursuant to State CEQA Guidelines Section 15093, Palmdale Water District has balanced the benefits of the project against its potentially significant and unavoidable environmental impacts in determining whether to approve the project. Pursuant to the State CEQA Guidelines, if the benefits of the project outweigh the unavoidable adverse environmental impacts, those impacts may be considered “acceptable.”

As described in Section II above, and in Sections C.2 through C.13 of the Final EIR, the proposed project would have significant and unavoidable adverse impacts on the environment. The proposed project could significantly affect unknown and buried human remains if they exist in Littlerock Reservoir. The proposed project would also create a significant and unavoidable nuisance impact on nearby residences during the transportation of sediment.

By requiring all recommended mitigation and environmental commitments be incorporated into the proposed project to avoid or substantially lessen the significant environmental effect as identified in the Final EIR, the Board hereby declares that it has made a reasonable and good faith effort to eliminate or substantially mitigate the potential impacts resulting from the Littlerock Reservoir Sediment Removal Project.

The Board declares that, having reduced the adverse significant environmental effects of the project to the fullest extent feasible by adopting the mitigation measures and standard project commitments contained in the EIR, having considered the entire administrative record on the project, and having weighed the benefits of the project against its unavoidable adverse impacts after mitigation, the Board has determined that the water resource benefits of the Littlerock Reservoir Sediment Removal Project outweigh the potential unavoidable adverse environmental impacts and render those potential adverse environmental impacts acceptable upon the following overriding considerations:

- A. **Water Resource Protection.** Littlerock Reservoir is a critical part of the larger water resource, treatment, and distribution system operated by the District to provide service to customers in the City of Palmdale and the surrounding unincorporated communities. Given that siltation and sedimentation has resulted in a substantial reduction in the Reservoir's water storage capacity, the project would restore the Reservoir to its 1992 water storage capacity and maintain that capacity through annual sediment removal. By restoring the Reservoir, the District can incrementally reduce dependency on obtaining water through the State Water Project and other sources.
- B. **Endangered Species Protection.** Little Rock Creek upstream of the Reservoir provides habitat for the federally-endangered arroyo toad (*Anaxyrus californicus*). By constructing a grade control structure at, or just downstream of, River Station 4,235 (the Rocky Point area), the project would protect the stream channel upstream of Rocky Point. Consequently, the project would reduce ongoing degradation of critical arroyo toad habitat from sediment transport and headcutting during annual water flow into the Reservoir.
- C. **Flood Control.** Littlerock Reservoir provides debris control and flood protection for downstream areas; however, siltation and sedimentation has resulted in a substantial reduction in the Reservoir's water storage and flood control capacity. The project would restore the Reservoir to its 1992 flood control capacity and maintain that capacity through annual sediment removal.

The Board hereby declares that the foregoing benefits provided to the public, through the approval and implementation of the proposed project for the Littlerock Reservoir Sediment Removal Project, outweigh the identified significant adverse environmental impacts of the project that cannot be mitigated. The Board finds that each of the project benefits separately and individually outweigh all unavoidable adverse environmental effects identified in the EIR and therefore finds those impacts to be acceptable.

## **V. Record of Proceedings**

The record of proceedings upon which the Board has based these Findings consists of all the documents and evidence relied upon by the District in preparing the Littlerock Reservoir Sediment Removal Project. The custodian of the record of proceedings is the Palmdale Water District, 2029 East Avenue Q, Palmdale, CA 93550.

## **VI. Summary**

Based on the foregoing Findings and the information contained in the record, the Board has made the following Finding with respect to the significant environmental effects of the Littlerock Reservoir Sediment Removal Project as described in the Final EIR:

1. Mitigation and standard project commitments have been incorporated into the proposed project for the Littlerock Reservoir Sediment Removal Project which avoid or substantially lessen the significant environmental effects on the environment.

Based on the foregoing Findings and the information contained in the record, it is hereby determined that all significant effects on the environment due to approval of the project have been eliminated or substantially lessened to the extent feasible.

# EXHIBIT B:

## LITTLEROCK RESERVOIR SEDIMENT REMOVAL PROJECT

### MITIGATION MONITORING AND REPORTING PROGRAM

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## 1. Introduction

This document is the Mitigation Monitoring and Reporting Program (MMRP) for the Littlerock Reservoir Sediment Removal Project (proposed Project or Project). An MMRP is required for the proposed Project because the Environmental Impact Report (EIR) has identified significant adverse impacts, and measures have been identified to mitigate those impacts. As stated in CEQA Guidelines Section 15097(a), to ensure that the mitigation measures and project revisions identified in an EIR are implemented, a public agency shall adopt a program for monitoring or reporting on the revisions, and the measures it has imposed to mitigate or avoid significant environmental effects. An MMRP must be approved by the lead agency when it approves a project for which an EIR was certified. The lead agency must also indicate in its Notice of Determination that an MMRP was adopted.

This MMRP for the proposed Project has been prepared pursuant to Section 21081.6 of the California Public Resources Code in order to mitigate or avoid significant effects on the environment. According to CEQA Guidelines Section 15097(c), a public agency may choose whether its MMRP will monitor mitigation, report on mitigation, or both. "Reporting" generally consists of a written compliance review that is presented to the decision-making body or authorized staff person. A report may be required at various stages during project implementation or upon completion of the mitigation measure. "Monitoring" is generally an ongoing or periodic process of project oversight. There is often no clear distinction between monitoring and reporting and the program best suited to ensuring compliance in any given instance will usually involve elements of both.

## 2. Mitigation Monitoring and Reporting Program

The proposed Project incorporates mitigation measures and standard project commitments (SPCs) to proactively protect sensitive resources at the Reservoir and reduce environmental impacts associated with Project activities. SPCs are considered part of the proposed project, while mitigation measures are additional actions that have been recommended during the environmental review process to address adverse impacts where feasible. Similar to mitigation, SPCs include mechanisms that would need to be tracked for compliance. As the CEQA lead agency, Palmdale Water District (PWD) will be responsible for monitoring compliance with all mitigation measures and standard project commitments (SPCs) presented within the Final EIS/EIR. The following defines the difference between a proposed mitigation measure and SPCs:

- **Mitigation Measure:** Mitigation measures have been proposed within the EIS/EIR to reduce or avoid a project-related environmental impact identified during the environmental analysis of the project presented in the EIS/EIR. Mitigation measures become adopted as conditions of approval of the Project when the lead agency issues its decision subsequent to certification of the EIR. Once adopted, mitigation measures become part of the project and are legally binding.
- **Standard Project Commitment (SPC):** SPCs were developed by PWD during Project design, were incorporated into the project description, and are were considered part of the proposed project during the environmental analysis. SPCs were developed as practical considerations to proactively protect sensitive resources and reduce environmental impacts associated with Project activities. SPCs can also evolve to become better as improvements are discovered. While considered part of the Project, SPCs include requirements and activities assumed within the EIS/EIR to reduce or avoid environmental

impacts. Therefore, SPCs have are included within this MMRP to ensure their implementation, and the assigned responsibility for compliance monitoring.

The components of the MMRP, presented on the following pages, are defined below:

- **Mitigation Measure or SPC:** Each mitigation measures and SPC is taken from EIS/EIR Appendix A, in the same order they appear in the document. They are categorized by environmental resource area (air quality, biology, etc.) based on the primary types of impacts mitigated by the measure. However, mitigation measures and SPCs may reduce or avoid potential impacts to multiple resource areas.
- **Duration:** Identifies at which stage of Project implementation the mitigation or SPC must be completed. For purposes of the Project, the following definitions pertain to activities described within the duration of mitigation and SPCs:
  - **Construction** includes constructing the grade control structure and annual sediment removal activities to restore the Reservoir to 1992 design storage capacity. Construction also includes annual restoration activities after each “season” of activity (work would typically occur annually between Labor Day and mid-December). These activities are described in EIS/EIR Sections B.2.2, B.2.3, and B.2.5.
  - **Operation and Maintenance (O&M)** includes ongoing annual sediment removal activities to maintain 1992 design storage capacity of the Reservoir. This also includes annual restoration activities after each “season” of activity. These activities are described in EIS/EIR Sections B.2.4 and B.2.5.
- **Frequency:** Identifies how often mitigation or SPC requirements must be completed. This could include implementing the requirements daily throughout construction and/or O&M), to once per “season” of activity.
- **Location:** Identifies the work area location where mitigation or SPC requirements must be completed. The following defines the four work locations associated with the Project:
  - **Reservoir** includes the Littlerock Reservoir within the boundaries of the Santa Clara Mojave Rivers Ranger District of the Angeles National Forest (ANF). This area is shown in EIS/EIR Figure B-2.
  - **Haul Routes** include roads within the ANF and public roads between the Reservoir and locations where removed sediment would be disposed (exhausted mining pits at existing quarries within Littlerock and PWD-owned property on 47th Street East). Expected haul routes are shown in EIS/EIR Figure B-1.
  - **Quarries** includes existing sand and gravel mines located in the community of Littlerock, approximately 6 miles north of the Dam. Currently, six individual quarries operate within this area, which is shown in EIS/EIR Figure B-1. Removed sediment transported to these locations would be permanently stored at these locations for backfilling of exhausted mining pits.
  - **PWD Property** includes a 21-acre site owned by PWD located at 35720 East 47th Street in Palmdale, CA. This site is shown in EIS/EIR Figure B-1. Up to 10,000 cubic yards of removed sediment may be temporarily stored at this location for recycled uses.
- **Coordination:** Identifies agencies that must be coordinated with, either directly or through applicable regulations, when developing or implementing the mitigation measure or SPC.
- **Monitoring Responsibility:** Identifies the agency or department with responsibility for implementing and monitoring the requirements of the mitigation measure or SPC.
- **Verification (Date and Initials):** Provides information about who reviewed the mitigation measure or SPC implementation, and the date the measure or SPC was determined complete. This column would start to be filled in upon start of project implementation. Due to Project activities occurring annually, new verification would occur annually for each new “season” of activity.

## MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<b>C.2 Air Quality and Climate Change</b>						
<b>SPC AQ-1: Limit Engine Idling.</b> Vehicle engine idling shall be limited to the extent feasible, and shall be limited to a maximum duration of 3 minutes per event.	Ongoing during construction and O&M activities	Daily	Reservoir, Quarries, PWD Property	Quarry Operators	Palmdale Water District	
<p><b>SPC AQ-2: Fugitive Dust Controls.</b> Fugitive dust controls shall conform with applicable AVAQMD Rule 403 (c) requirements for all phases of the project; a Dust Control Plan (DCP) will be submitted to the APCO for approval if more than 5 acres would be disturbed or if more than 2,500 cubic yards of material will be excavated per day for at least three days (for each phase of the project as applicable); and in addition to the Rule 403 (c) requirements or to specify requirements where that rule provides options, the following specific additional fugitive dust control measures will be used during the main excavation phase of the project:</p> <ul style="list-style-type: none"> <li>● Install wheel washers or wash the wheels of trucks and other heavy equipment where vehicles exit unpaved roadways on the site and the sediment disposal area.</li> <li>● Street sweeping shall be conducted to cleanup any carryout from unpaved areas and reduce paved road silt content.</li> <li>● Water the disturbed areas of the active construction sites and active unpaved roadways used during construction at least four times per day and more often if uncontrolled fugitive dust is noted.</li> <li>● Cover all trucks hauling sediment and other loose material, or require at least two feet of freeboard.</li> <li>● Travel routes shall be developed to minimize both unpaved road travel.</li> <li>● Sediment excavation will be conducted in areas of the reservoir bed that are near the maintained reservoir water level so that the sediment excavated is naturally wet or excavation will occur in areas that are watered prior to excavation.</li> </ul>	Ongoing during construction and O&M activities	Daily	Reservoir, Quarries, PWD Property	AVAQMD, Quarry Operators	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<ul style="list-style-type: none"> <li>Sediment storage areas will have non-toxic dust suppressants sprayed over their active surface area at the end of each year's excavation period.</li> <li>Establish a vegetative ground cover (in compliance with biological resources impact Mitigation Measures) or otherwise create stabilized surfaces on all unpaved areas disturbed by the project, not including areas located within the maximum pool elevation of the Littlerock Reservoir, within 21 days after active construction operations have ceased each year.</li> </ul> <p>The Reservoir level will be allowed to rise as fast as nature allows to levels above each year's annual excavation areas.</p>						
<p><b>SPC AQ-3: Off-Road Engine Specifications.</b> All off-road construction diesel engines not registered under CARB's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower or more, shall meet, at a minimum, the Tier 3 California Emission Standards for Off-Road Compression-Ignition Engines as specified in California Code of Regulations, Title 13, section 2423(b)(1) unless that such engine is not available for a particular item of equipment. In the event a Tier 3, or higher tier, engine is not available for any off-road engine larger than 50 horsepower, that engine shall be equipped with a Tier 2 engine equipped with a catalyzed diesel particulate filter (soot filter), unless certified by engine manufacturers that the use of such devices is not practical for specific engine types. Equipment properly registered under and in compliance with CARB's Statewide Portable Equipment Registration Program are in compliance with this project commitment.</p>	Ongoing during construction and O&M activities	Daily	Reservoir, Quarries, PWD Property	CARB, Quarry Operators	Palmdale Water District	
<p><b>SPC AQ-4: On-Road Engine Specifications.</b> All on-road construction vehicles shall meet all applicable California on-road emission standards. This does not apply to construction worker personal vehicles.</p>	Ongoing during construction and O&M activities	Daily	Reservoir, Haul Routes	CARB	Palmdale Water District	
<p><b>SPC AQ-5: Reduce Off-Road Vehicle Speeds.</b> Vehicle speeds shall remain below 15 mph off-pavement to minimize dust and reduce wildlife impacts.</p>	Ongoing during construction and O&M activities	Daily	Reservoir, Quarries, PWD Property	Quarry Operators	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<b>SPC GHG-1: Recycle Construction Wastes.</b> Construction wastes (asphalt, concrete, and other wastes as appropriate) and the removed sediment will used, re-used, or recycled to the extent feasible.	Ongoing during construction and O&M activities	Daily	Reservoir, Quarries, PWD Property	Quarry Operators	Palmdale Water District	
<b>C.3 Biological Resources</b>						
<p><b>SPC BIO-1a: Provide Restoration/Compensation for Impacts to Native Vegetation Communities.</b> The PWD shall restore all areas outside the permanent sediment removal area. Prior to disturbance, PWD shall have a qualified biologist document the community type and acreage of vegetation that would be subject to project disturbance. Impacts to all native trees and oaks with would be documented by identifying the species, number, location, and DBH.</p> <p>The PWD shall prepare a Habitat Restoration and Revegetation Plan for the Project, which includes plans for restoration, enhancement/re-vegetation and/or the acquisition of off-site habitat. The plan shall include at minimum: (a) maps depicting the location of the mitigation site(s) (off site mitigation may be required); (b) locations and details for top soil storage (c) the plant species to be used; (d) seed and cutting collecting guidelines; (e) time of year that the planting would occur and the methodology of the planting; (f) a description of the irrigation methodology for container plants; (g) measures to control exotic vegetation on site; (h) performance standards; (i) a detailed monitoring program; (j) locations and impacts to all native trees, and (k) locations of temporary or permanent gates, barricades, or other means to control unauthorized vehicle access on access to restoration areas.</p> <p>The PWD would use locally collected seed mix, locally collected cuttings, etc. to revegetate areas disturbed by construction activities. All habitats dominated by non-native species prior to Project disturbance shall be revegetated using appropriate native species. Forest Service approval is required for seeding on NFS land. No commercially purchased seeds, stock, etc. would be accepted without the approval of the Forest Service on NFS lands and must be certified to be free of noxious weeds. The Habitat</p>	Prior to and following construction	Plan: Once Revegetation: Once per season of construction Monitor revegetation: Annually	Reservoir, PWD Property	USFS; USFWS and CDFW (regarding compensation lands as applicable)	Palmdale Water District, Forest Service	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p>Restoration and Revegetation Plan shall include a monitoring element. Post seeding and planting, monitoring would be yearly from years one to five and every other year from years six to ten, or until the success criteria are met. If the survival and cover requirements have not been met, PWD is responsible for replacement planting to achieve these requirements. Replacement plants shall be monitored with the same survival and growth requirements as previously mentioned.</p> <p>The replacement ratios for permanent impacts to riparian vegetation are 3:1 and 1.5:1 for juniper woodland. Individual native trees which are to be removed shall be replaced as follows: trees from 1 to 5 inches DBH shall be replaced at 3:1; trees from 5 to 12 inches shall be replaced at 5:1; trees from 12 to 24 inches shall be replaced at 10:1; and trees from 24 to 36 inches shall be replaced at 15:1. All planting locations, procedures, and results shall be evaluated by a qualified biologist and Forest Service botanist (as applicable).</p> <p>The creation or restoration of habitat shall be monitored annually for years one to five on both Forest Service lands and private lands and bi-annually for years six to ten on Forest Service lands, or until the performance standards are met, after mitigation site construction to assess progress and identify potential problems with the restoration site. Remediation activities (e.g. additional planting, removal of non-native invasive species, or erosion control) shall be taken during the 10-year period if necessary to ensure the success of the restoration effort. If the mitigation fails to meet the established performance standards after the 10-year maintenance and monitoring period, monitoring and remedial activities shall extend beyond the 10-year period until the standards are met or unless otherwise specified by the Forest Service on NFS lands. If a fire occurs in a revegetation area within the 10-year monitoring period, PWD shall be responsible for a one-time replacement.</p> <p><b>Compensation Land Selection Criteria.</b> Criteria for the acquisition, initial protection and habitat improvement, and long-term maintenance and management of compensation lands would include all of the following:</p>						

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p>A. Compensation lands will provide habitat value that is equal to or better than the quality and function of the habitat impacted by the Project, taking into consideration soils, vegetation type, topography, human-related disturbance, wildlife movement opportunity, proximity to other protected lands, management feasibility, and other habitat values, subject to review and approval by PWD and Forest Service;</p> <p>B. To the extent that proposed compensation habitat may have been degraded by previous uses or activities, the site quality and nature of degradation must support the expectation that it will regenerate naturally when disturbances are removed;</p> <p>C. Be near larger blocks of lands that are either already protected or planned for protection, or which could feasibly be protected long-term by a public resource agency or a non-governmental organization dedicated to habitat preservation;</p> <p>D. Not have a history of intensive recreational use or other disturbance that might cause future erosion or other habitat damage, and make habitat recovery and restoration infeasible;</p> <p>E. Not be characterized by high densities of invasive species, either on or immediately adjacent to the parcels under consideration, that might jeopardize habitat recovery and restoration;</p> <p>F. Not contain hazardous wastes that cannot be removed to the extent that the site could not provide suitable habitat;</p> <p>G. Must provide wildlife movement value equal to that on the project site, based on topography, presence and nature of movement barriers or crossing points, location in relationship to other habitat areas, management feasibility, and other habitat values; and</p> <p>H. Have water and mineral rights included as part of the acquisition, unless PWD and Forest Service, in consultation with CDFW and USFWS, agree in writing to the acceptability of land without these rights.</p>						

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p><b>SPC BIO-1b: Worker Environmental Awareness Program.</b> The PWD shall prepare a Worker Environmental Awareness Program (WEAP) that will be implemented for construction crews by a qualified biologist(s). Training materials and briefings shall include but not be limited to: discussion of the Federal and State Endangered Species Acts, Bald and Golden Eagle Protection Act, and the Migratory Bird Treaty Act; the consequences of non-compliance with these acts; identification and values of plant and wildlife species and significant natural plant community habitats; fire protection measures; sensitivities of working on NFS lands and identification of T&amp;E and Forest Service sensitive species; hazardous substance spill prevention and containment measures; a contact person in the event of the discovery of dead or injured wildlife; and review of mitigation requirements. The WEAP shall include the protocol to be followed when road kill is encountered in the work area or along access roads to minimize potential for additional mortality of scavengers, including listed species such as the California condor. On NFS lands, road kill shall be reported to the Forest Service or other applicable agency within 24 hours. On non-NFS lands, road kill shall be reported to the appropriate local animal control agency within 24 hours. Training materials and a course outline shall be provided to Forest Service for review and approval at least 30 days prior to the start of construction. Maps showing the location of special-status wildlife, fish, or populations of rare plants, exclusion areas, or other construction limitations (i.e., limited operating periods and arroyo toad exclusion areas) will be provided to the environmental monitors and construction crews prior to ground disturbance. PWD shall provide the Forest Service a list of construction personnel who have completed training prior to the start of construction, and this list shall be updated by PWD as required when new personnel start work. No construction worker may work in the field for more than 5 days without participating in the WEAP.</p>	<p>Prior to and during construction and O&amp;M activities</p>	<p>Once prior to start of construction and as required when new personnel start work</p>	<p>Reservoir, PWD Property</p>	<p>USFS</p>	<p>Palmdale Water District</p>	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p><b>SPC BIO-2: Prepare and Implement a Weed Control Plan.</b> The PWD shall prepare and implement a Weed Control Plan, which shall be part of the Habitat Restoration and Revegetation Plan. The Weed Control Plan, including the control methods to be used, shall be prepared consistent with the FS's Plan for Invasive Plants, Angeles National Forest and San Gabriel Mountains National Monument Environmental Assessment. The Weed Control Plan will be implemented during construction of the grade control structure, sediment removal, and operation and maintenance. The Weed Control Plan shall be submitted to the Forest Service for approval of the weed control methods, practices, and timing. The Weed Control Plan shall include the following:</p> <p>a. A pre-construction weed inventory shall be conducted for all areas subject to ground-disturbing activity. Weed populations that: (1) are rated High or Moderate for negative ecological impact in the California Invasive Plant Inventory Database (Cal-IPC, 2006); and (2) aid and promote the spread of wildfires (such as cheatgrass, Saharan mustard, and medusa head); and (3) are considered by the FS as species of priority (for NFS lands only) shall be mapped and described according to density and area covered. In areas subject to ground disturbance, weed infestations shall be treated prior to sediment removal activities according to control methods and practices for invasive weed populations designed in consultation with the Forest Service. The Weed Control Plan shall be updated and utilized for eradication and monitoring for annual sediment removal activities.</p> <p>b. Weed control treatments shall include all legally permitted herbicide, manual, and mechanical methods applied with the authorization of the Forest Service, and Fish and Wildlife Service where appropriate. The application of herbicides shall be in compliance with all state and federal laws and regulations under the prescription of a Pest Control Advisor (PCA), where concurrence has been provided by the Forest Service, and implemented by a Licensed Qualified Applicator. Herbicides shall not be applied during or within 24 hours of a more than 30% anticipated rain event. In riparian areas</p>	<p>Prior to and during construction and O&amp;M activities</p>	<p>Plan: Once Weed control: Minimum of once annually Survey and monitoring: Annually years 1-5, every 2 years thereafter Certificate of Cleaning Equipment log: submit to FS monthly</p>	<p>Reservoir, PWD Property</p>	<p>USFS</p>	<p>Palmdale Water District</p>	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p>only water-safe herbicides shall be used. Herbicides shall not be applied according to the prescriptions in the manufacturer label. Where manual and/or mechanical methods are used, disposal of the plant debris will follow the regulations set by the Forest Service. The timing of the weed control treatment shall be determined for each plant species in consultation with the Forest Service (on NFS lands).</p> <p>c. Surveying and monitoring for weed infestations shall occur annually for years one to five post construction of the grade structure and bi-annually thereafter. For the life of the Project (on NFS lands) the PWD will survey for new invasive weed populations every two years. Treatment of identified weed populations shall occur at a minimum of once annually should they occur in the disturbance area. When no new seedlings or resprouts are observed at treated sites for three consecutive, normal rainfall years, the weed population can be considered eradicated and weed control efforts may cease for that impact site.</p> <p>d. All seeds and straw materials shall be weed-free rice straw, and all gravel and fill material, if used, shall be certified weed free. Gravel and fill must be from a quarry approved by a Forest Service botanist. All plant materials used during restoration shall be native, certified weed-free, and approved by the Forest Service. All erosion control material must be biodegradable. Wattles wrapped in "photodegradable" plastic will not be acceptable.</p> <p>Prior to work on NFS lands, all vehicles traveling off road and all ground disturbing equipment shall be washed (including wheels, undercarriages, fuel pans, skid plates and bumpers) before entering Forest Service lands. On non-federal lands vehicles and equipment shall be washed prior to commencing work in off road areas. Vehicles shall be cleaned at existing construction yards or legally operating car washes. In addition, tools such as chainsaws, hand clippers, pruners, etc. shall be washed before entering all Project work areas. PWD shall notify NFS at least 2 working days prior to moving each piece of equipment on to NFS land, unless otherwise agreed. Notification will include a Certificate of Cleaning Equipment. Upon request of NFS, arrangements will be made for NFS to inspect each piece of equipment</p>						

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p>prior to it being placed in service. This requirement for notification does not apply to handheld equipment and tools. All washing on NFS lands shall take place where rinse water is collected and disposed of in either a sanitary sewer or landfill, unless otherwise approved by the Forest Service. A Certificate of Cleaning Equipment log shall be kept for all vehicle/equipment/tool washing that states the date, time, location, type of equipment washed, methods used, and staff present. The log shall include the signature of a responsible staff member. Logs shall be available to the Forest Service for inspection at any time and shall be submitted to the Forest Service on a monthly basis.</p>						
<p><b>SPC BIO-4: Conduct Pre-Construction Surveys and Monitoring for Breeding Birds.</b> The PWD shall conduct pre-construction surveys for nesting birds prior to any vegetation removal, staging of equipment, sediment removal activities, or other ground disturbance that will occur during the breeding period (from January 15 through August 31 for raptors and humming birds and March 15 through September 1 for other birds). This action will be required for all activities including annual sediment removal. The biologists conducting the surveys shall be Forest Service approved experienced bird surveyors familiar with standard nest-locating techniques. Surveys shall be conducted in all areas within a 500-foot buffer of any area proposed for Project disturbance and no more than 3 days prior to the initiation of any vegetation removal, staging of equipment, sediment removal activities, or other ground-disturbance activities. If breeding birds with active nests are identified, a 300-foot buffer shall be established around the nest site and no construction activities shall be allowed within the buffer until the young have fledged from the nest or the nest fails. The 300-foot buffer may be adjusted after review by a qualified ornithologist based on existing conditions, including ambient noise, topography, and disturbance with concurrence from the Forest Service, as appropriate. A Forest Service approved biological monitor shall be responsible for recording the results of pre-construction surveys and copies of all monitoring reports shall be submitted to the Forest Service at the end of each breeding season.</p>	<p>Ongoing during construction and O&amp;M activities</p>	<p>Surveys: Once per season prior to ground disturbance in each new area Monitoring: Daily</p>	<p>Reservoir, PWD Property</p>	<p>USFS</p>	<p>Palmdale Water District</p>	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p><b>SPC BIO-5: Conduct Preconstruction Surveys for State and Federally Threatened, Endangered, Proposed, Petitioned, Candidate, and Forest Service Sensitive Plants and Avoid Any Located Occurrences of Listed Plants.</b> The PWD shall conduct focused surveys for federal- and state-listed and other special-status plants. All special-status plant species (including listed threatened or endangered species, Forest Service Sensitive, and all CRPR 1A, 1B, 2, 3, and 4 ranked species) subject to project disturbance shall be documented by the pre-construction survey report. Surveys shall be conducted during the appropriate season in all suitable habitat located within the Project disturbance areas and access roads and within 100 feet of disturbance areas and access roads. Surveys shall be conducted by a qualified botanist approved by the Forest Service. The field surveys and reporting must conform to current CDFW botanical field survey protocol (CDFG, 2009) or more recent updates, if available. The reports will describe any conditions that may have prevented target species from being located or identified, even if they are present as dormant seed or below-ground rootstock (e.g., poor rainfall, recent grazing, or wildfire). Prior to any vegetation removal, the PWD shall submit pre-construction field survey reports along with maps showing locations of survey areas and special-status plants to the Forest Service for review and approval.</p> <p>If federally or State-listed plants are detected in disturbance areas or within 100-feet of the disturbance areas, the PWD would avoid these populations and notify the Forest Service, USFWS, and CDFW as appropriate.</p> <p>The PWD shall avoid impacts to any State or federally listed plants. If Project activities result in the loss of more than 10 percent of the known individuals within the Forest Service Sensitive, and/or special-status plant species (List 1.B and List 2 only) occurrence to be impacted, the PWD shall preserve existing off-site occupied habitat that is not already part of the public lands in perpetuity at a 2:1 mitigation ratio (habitat preserved: habitat impacted). The compensation lands must be occupied by the impacted Forest Service Sensitive or CRPR 1 or 2 ranked plants</p>	Ongoing during construction and O&M activities	<p>Surveys: Once per season prior to ground disturbance in each new area</p> <p>Monitoring: Daily</p>	Reservoir, PWD Property	USFS, CDFW, USFWS	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
or be considered appropriate by the Forest Service to off-set the loss of these plants. Occupied habitat will be calculated on the project site and on the compensation lands as including each special status plant occurrence and a surrounding 100-foot buffer area. Off-site compensation shall be incorporated into SPC BIO-1a (Restoration/Compensation for Impacts to Native Vegetation Communities) for review and approval by the Forest Service, as applicable.						
<b>SPC BIO-6a: Conduct Surveys and Implement Avoidance Measures.</b> Prior to any project activities at Rocky Point (the proposed grade control location) PWD shall have a FS approved biologist conduct clearance surveys for arroyo toads and implement protective measures to reduce the potential for arroyo toads to be present in the work area. After ensuring egg masses or any other life stage of arroyo toads is not present PWD will place exclusion fencing around the grade control structure work area as the water levels recede. This will require placing fencing and a screened culvert in the channel to prevent animals from moving into the work area.	Prior to grade control construction	Once	Reservoir	USFS	Palmdale Water District	
<b>SPC BIO-6b: Conduct Clearance Surveys and Construction Monitoring.</b> After the placement of exclusion fencing PWD will have a FS approved biologist conduct five nights of clearance surveys during suitable weather conditions to relocate toads from the work area. Prior to the onset of construction activities, PWD shall provide all personnel who will be present on work areas within or adjacent to arroyo toad habitat with the following information: (a) a detailed description of the arroyo toad including color photographs; (b) the protection the arroyo toad receives under the Endangered Species Act and possible legal action that may be incurred for violation of the Act; (c) the protective measures being implemented to conserve the arroyo toad and other species during construction activities associated with the Project; and (d) a point of contact if arroyo toads are observed. For all areas in which this species has been documented PWD shall develop and implement a monitoring plan that includes the	Prior to and during construction	Surveys: Once Monitoring: Daily	Reservoir	USFS, USFWS	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p>following measures in consultation with the USFWS and Forest Service.</p> <p>A. PWD shall retain a qualified biologist with demonstrated expertise with arroyo toads to monitor all construction activities in occupied arroyo toad habitat and within 300-feet of Rocky Point. The resumes of the proposed biologists will be provided to the Forest Service for concurrence. This biologist will be referred to as the authorized biologist hereafter. The authorized biologist will be present during all activities immediately adjacent to or within habitat that supports populations of arroyo toad.</p> <p>B. All trash that may attract predators of the arroyo toad will be removed from work sites or completely secured at the end of each work day. Prior to the onset of any construction activities, PWD shall meet on-site with staff from the Forest Service and the authorized biologist. PWD shall provide information on the general location of construction activities within arroyo toad habitat and the actions taken to reduce impacts to this species.</p> <p>C. Any arroyo toads found during clearance surveys or otherwise removed from work areas will be placed in nearby suitable, undisturbed habitat (i.e., above Rocky Point at a pre-selected location in consultation with the USFWS and Forest Service. The authorized biologist will determine the best location for their release, based on the condition of the vegetation, soil, and other habitat features and the proximity to human activities. Clearance surveys shall occur on a daily basis in the work area.</p> <p>D. The authorized biologist will have the authority to stop all activities until appropriate corrective measures have been completed.</p> <p>E. To ensure that diseases are not conveyed between work sites by the authorized biologist or his or her assistants, the fieldwork code of practice developed by the Declining Amphibian Populations Task Force will be followed at all times.</p> <p>F. PWD shall restrict work to daylight hours, except during the placement of soil cement, or unless otherwise authorized by the Forest Service in order to avoid nighttime activities when arroyo toads may be present on the access roads. Traffic speed shall be maintained at 15 mph or less in the work area.</p>						

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p>G. A qualified biologist must permanently remove, from within the Project area, any individuals of exotic species, such as bullfrogs, crayfish, and centrarchid fishes, to the maximum extent possible and ensure that activities are in compliance with the California Fish and Game Code.</p> <p>H. No stockpiles of materials will occur in areas occupied by arroyo toads.</p> <p>I. Any spills of any fluids that may be hazardous to aquatic fauna (gasoline, hydraulic fluid, motor oil, etc.) in areas that may contain arroyo toads will be reported to the Forest Service and USFWS within four hours.</p>						
<p><b>SPC BIO-6c: Seasonal Surveys During Water Deliveries.</b> PWD shall conduct annual surveys along the upper limit of the Reservoir during the months of March to June if water deliveries would result in a two-inch or greater reduction in water surface elevations in these areas. The authorized biologist would inspect the margin of the reservoir for egg masses or any other life stage of arroyo toads. At the completion of the survey the authorized biologist will prepare a letter report to document the conditions along the upstream margin of the Reservoir. If more than one egg string is present and the authorized biologist determines the reduction of water surface elevations may result in the loss of the egg string PWD will contact the USFWS and Forest Service prior to continued water deliveries.</p>	During construction and O&M activities	Annually	Reservoir	USFS, USFWS	Palmdale Water District	
<p><b>SPC BIO-7: Monitor Construction and Remove Trash and Microtrash.</b> PWD shall retain a qualified biologist with demonstrated knowledge of California condor to monitor all construction and sediment removal activities within the ANF. The resumes of the proposed biologist(s) will be provided to the Forest service for concurrence. This biologist(s) will be referred to as the authorized biologist hereafter. If a condor is observed in the Project area the authorized biologist will have the authority to stop all activities within 500 feet of the condor until it leaves the area. All condor sightings in the Project area will be reported to the CDFW, USFWS and Forest. Should condors be found roosting within</p>	Ongoing during construction and O&M activities	Daily	Reservoir	USFS, CDFW, USFWS	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p>0.5 miles of the sediment removal or construction area, no construction activity shall occur between 1 hour before sunset to 1 hour after sunrise, or until the condors leave the area. Should condors be found nesting within 1.5 miles of the construction area, no construction activity will occur until further authorization occurs from the CDFW, USFWS and Forest Service on NFS lands.</p> <p><b>Microtrash.</b> Workers will be trained on the issue of microtrash – what it is, its potential effects to California condors, and how to avoid the deposition of microtrash. In addition, daily sweeps of the work area will occur to collect and remove trash in locations with the potential for California condors to occur.</p> <p><b>Worker Education.</b> PWD will train all workers on the project concerning the California condor. Information will include: species description with photos and/or drawings indicating how to identify the California condor and how to distinguish condors from turkey vultures and golden eagles; protective status and penalties for violation of the ESA; avoidance measures being implemented on the Project; and contact information for communicating condor sightings.</p> <p><b>Reporting.</b> All California condor sightings in the Project area will be reported directly to the CDFW, USFWS, and Forest Service.</p>						
<p><b>SPC BIO-8: Conduct Protocol Surveys for Least Bell’s Vireo and Avoid Occupied Habitat.</b> If construction or sediment removal activities are scheduled to occur during the breeding season (March 15 through September 15) PWD shall have a qualified ornithologist conduct protocol surveys in suitable habitat within 500 feet of disturbance areas including Cheseboro Road below the dam. In known occupied habitat for listed riparian birds, PWD shall conduct focused surveys of the Project and adjacent areas within 500 feet. The surveys shall be of adequate duration to verify potential nest sites if work is scheduled to occur during the breeding season.</p> <p>If a territory or nest is confirmed in a previously unoccupied area, the CDFW, USFWS and Forest Service shall be notified within 48 hours. In coordination with the CDFW, USFWS, and Forest Service a 300-foot disturbance-free buffer shall be established and demarcated by fencing or flagging. This buffer may</p>	Ongoing during construction and O&M activities	Surveys: Annually Monitoring: Daily	Reservoir	USFS, CDFW, USFWS	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p>be adjusted as determined by a qualified biologist in coordination with the CDFW, USFWS and Forest Service. The biologist shall have the authority to halt the construction or sediment removal activities and shall devise methods to reduce the noise and/or disturbance in the vicinity. This may include methods such as, but not limited to, turning off vehicle engines and other equipment whenever possible to reduce noise, installing a protective noise barrier between the nest site and the construction activities, and working in other areas until the young have fledged. All active nests shall be monitored on a weekly basis until the nestlings fledge.</p>						
<p><b>SPC BIO-9: Conduct Pre-Construction Surveys for Swainson's Hawks.</b> If ground disturbance occurs at the 47th Street East sediment disposal site during the breeding season PWD shall retain a qualified ornithologist and conduct pre-construction surveys within one-half mile of the sediment disposal site in regions with suitable nesting habitat for Swainson's hawks. The survey periods will follow a specified schedule: Period I occurs from 1 January to 20 March, Period II occurs from 20 March to 5 April, Period III occurs from 5 April to 20 April, Period IV occurs from 21 April to 10 June, and Period V occurs from June 10 to July 30. Surveys are not recommended during Period IV because identification is difficult, as the adults tend to remain within the nest for longer periods of time. No fewer than three surveys per period in at least two survey periods shall be completed immediately prior to the start of Project construction. If a nest site is found, consultation with CDFW shall be required to ensure Project construction will not result in nest disturbance. If present PWD shall implement a 0.25 mile non-disturbance buffer between 1 March and 15 September, or until the nest has been abandoned or the chicks have fledged. These buffer zones may be adjusted as appropriate in consultation with a qualified ornithologist and CDFW.</p>	<p>Ongoing during construction and O&amp;M activities</p>	<p>Annually</p>	<p>PWD Property</p>	<p>CDFW</p>	<p>Palmdale Water District</p>	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p><b>SPC BIO-11: Conduct Focused Surveys for Ringtail and Avoid Denning Areas.</b> If vegetation clearing will occur during the breeding season for ringtail cat (March 1 through June 30), a qualified biologist will conduct focused surveys for potential dens within all areas proposed for clearing and grading including a 200 foot buffer. Any active dens will be avoided, and a 200-foot disturbance-free buffer will be established. This buffer may be adjusted in coordination with the CDFW and the Forest Service, depending on the specific location and current activity occurring in the area. Once the young have left the den or the breeding attempt has failed, normal vegetation clearing and earth moving activities can resume. All activities that involve the ringtail shall be documented and reported to the CDFW and the Forest Service within 30 days of the activity.</p>	Ongoing during construction and O&M activities	Once per season prior to ground disturbance in each new area	Reservoir, PWD Property	USFS, CDFW	Palmdale Water District	
<p><b>SPC BIO-14: Conduct Surveys for Southwestern Pond Turtle and Implement Monitoring, Avoidance, and Minimization Measures.</b> Prior to ground disturbance or vegetation clearing in the Reservoir or below the dam on PWD access road PWD shall retain a qualified biologist to conduct focused surveys for southwestern pond turtle in the Reservoir and Little Rock Creek. The resume of the proposed biologists will be provided to the Forest Service for concurrence prior to conducting the surveys. This biologist will be referred to as the authorized biologist hereafter. Focused surveys shall consist of a minimum of four daytime surveys, to be completed between 1 April and 1 September. The survey schedule may be adjusted in consultation with the Forest Service, as appropriate, to reflect the existing weather or stream conditions.</p> <p>The qualified biologist shall conduct focused, systematic surveys for southwestern pond turtle nesting sites. The survey area shall include all suitable nesting habitat located within 200 feet of occupied habitat in which Project-related ground disturbance will occur. This area may be adjusted based on the existing topographical features on a case-by-case basis with the approval of the Forest Service. Surveys will entail searching for evidence of pond turtle nesting, including remnant eggshell fragments, which may be found on the ground following nest depredation.</p>	Ongoing during construction and O&M activities	Surveys: Once per season prior to ground disturbance in each new area Monitoring: Daily	Reservoir	USFS, CDFW	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p>If a southwestern pond turtle nesting area would be adversely impacted by construction activities, PWD shall avoid the nesting area. If avoidance of the nesting area is determined to be infeasible, the authorized biologist shall coordinate with CDFW and Forest Service to identify if it is possible to relocate the pond turtles. Eggs or hatchlings shall not be moved without the written authorization from the CDFW and Forest Service.</p> <p>A qualified biologist with demonstrated expertise with southwestern pond turtles shall monitor construction activities where pond turtles are present. The authorized biologist will be present during all activities immediately adjacent to, or within, habitat that supports populations of southwestern pond turtles. If the installation of fencing is deemed necessary by the authorized biologist, one clearance survey for southwestern pond turtles shall be conducted at the time of the fence installation. Clearance surveys for southwestern pond turtles shall be conducted by the authorized biologist prior to the initiation of vegetation clearing or construction each day until the top three feet of sediment has been removed from the reservoir.</p>						
<p><b>SPC BIO-15: Conduct Surveys for Two-Striped Garter Snakes and Implement Monitoring, Avoidance, and Minimization Measures.</b> Prior to ground disturbance or vegetation clearing in the Reservoir or below the dam on PWD access road PWD shall retain a qualified biologist to conduct focused surveys for two-striped garter snakes where suitable habitat is present and directly impacted by construction vehicle access, or maintenance. The resume of the proposed biologists will be provided to the Forest Service for concurrence prior to conducting the surveys. This biologist will be referred to as the authorized biologist hereafter. Focused surveys shall consist of a minimum of four daytime surveys within one week of vegetation clearing. The survey schedule may be adjusted in consultation with the Forest Service to reflect the existing weather or stream conditions. The authorized biologist will be present during all activities immediately adjacent to or within habitat that supports populations of the two-striped</p>	Ongoing during construction and O&M activities	Surveys: Once per season prior to ground disturbance in each new area Monitoring: Daily	Reservoir	USFS	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
garter snake. Clearance surveys for garter snakes shall be conducted by the authorized biologist prior to the initiation of construction each day. Any snakes found within the area of disturbance or potentially affected by the Project will be relocated to the nearest suitable habitat that will not be affected by the Project.						
<b>SPC BIO-16: Conduct Surveys for Coast Range Newts and Implement Monitoring, Avoidance, and Minimization Measures.</b> Prior to ground disturbance or vegetation clearing in the Reservoir (at Rocky Point only) or below the dam on PWD access road PWD shall retain a qualified biologist to conduct surveys for coast range newts where suitable habitat is present and directly impacted by construction vehicle access, or maintenance. The resume of the proposed biologists will be provided to the Forest Service for concurrence prior to conducting the surveys. This biologist will be referred to as the authorized biologist hereafter. Focused surveys shall consist of a minimum of four daytime surveys within one week of vegetation clearing. The survey schedule may be adjusted in consultation with the Forest Service to reflect the existing weather or stream conditions. The authorized biologist will be present during all activities immediately adjacent to or within habitat that supports populations of the coast range newts. Clearance surveys for coast range newts shall be conducted by the authorized biologist prior to the initiation of construction each day in suitable habitat. Any coast range newts found within the area of disturbance or potentially affected by the Project will be relocated to the nearest suitable habitat that will not be affected by the Project.	Ongoing during construction and O&M activities	Surveys: Once per season prior to ground disturbance in each new area Monitoring: Daily	Reservoir	USFS	Palmdale Water District	
<b>SPC BIO-17: Conduct Surveys for Terrestrial Herpetofauna and Implement Monitoring, Avoidance, and Minimization Measures.</b> Prior to ground disturbance or vegetation clearing at all Project locations PWD shall retain a qualified biologist to conduct surveys for terrestrial herpetofauna where suitable habitat is present and directly impacted by construction vehicle access, or maintenance. The resume of the proposed biologists will be provided to the Forest Service for concurrence prior to conducting the surveys. This biologist will be referred to as the authorized biologist hereafter. Focused surveys shall consist of a minimum of three daytime surveys and one nighttime survey	Ongoing during construction and O&M activities	Surveys: Once per season prior to ground disturbance in each new area Monitoring: Daily	Reservoir, PWD Property	USFS	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p>within one week of vegetation clearing. The survey schedule may be adjusted in consultation with the Forest Service to reflect the existing weather or stream conditions. The authorized biologist will be present during all activities immediately adjacent to or within habitat that supports terrestrial herpetofauna. Clearance surveys for terrestrial herpetofauna shall be conducted by the authorized biologist prior to the initiation of construction each day in suitable habitat. Terrestrial herpetofauna found within the area of disturbance or potentially affected by the Project will be relocated to the nearest suitable habitat that will not be affected by the Project.</p>						
<p><b>SPC BIO-18: Conduct Protocol Surveys for Burrowing Owls.</b> Concurrent with desert tortoise clearance surveys at the 47th Street East sediment disposal site PWD shall retain a qualified biologist to conduct pre-construction surveys for burrowing owls in accordance with CDFW guidelines (CDFG 2012). Pre-construction surveys for burrowing owls shall occur no more than 15 days prior to initiation of ground disturbance or site mobilization activities. The survey area shall include the 47th Street East sediment disposal site and surrounding 500 foot survey buffer where access is legally available. If an active burrowing owl burrow is detected within 500 feet from the Project Disturbance Area the following avoidance and minimization measures shall be implemented.</p> <p><b>Establish Non-Disturbance Buffer.</b> Occupied burrows shall not be disturbed during the nesting season (1 February through 31 August). Owls present on site after 1 February will be assumed to be nesting unless evidence indicates otherwise. The protected buffer will remain in effect until 31 August, or based upon monitoring evidence, until the young owls are foraging independently or the nest is no longer active. The non-disturbance buffer and fence line may be reduced by a qualified biologist if project-related activities that might disturb burrowing owls would be conducted during the non-breeding season (September 1st through January 31st). Signs shall be posted in</p>	<p>Ongoing during construction and O&amp;M activities</p>	<p>Surveys: Once per season prior to ground disturbance Monitoring: Daily</p>	<p>PWD Property</p>	<p>CDFW</p>	<p>Palmdale Water District</p>	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p>English and Spanish at the fence line indicating no entry or disturbance is permitted within the fenced buffer.</p> <p><b>Passive Relocation.</b> During the non-breeding season, the birds may be passively relocated. Relocation of owls during the non-breeding season will be performed by a qualified biologist using one-way doors, which should be installed in all burrows within the impact area and left in place for at least four nights. These one-way doors will be removed and the burrows hand excavated prior to the initiation of grading. To avoid the potential for owls evicted from a burrow to occupy other burrows within the impact area, one-way doors will be placed in all potentially suitable burrows within the impact area when eviction occurs. Any damaged or collapsed burrows will be replaced with artificial burrows in adjacent habitat at a 2:1 ratio.</p> <p><b>Monitoring:</b> If construction activities would occur within 500 feet of the occupied burrow during the nesting season (February 1 – August 31) the Designated Biologist or Biological Monitor shall monitor to determine if these activities have potential to adversely affect nesting efforts, and shall implement measures to minimize or avoid such disturbance.</p> <p><b>Compensation for the Loss of foraging habitat.</b> If present PWD would offset the loss of up to six acres of foraging habitat by the acquisition and preservation of undisturbed areas of the project site mitigation lands outside of the Project site or a combination of both.</p> <p><b>Compensation Land Selection Criteria.</b> Criteria for the acquisition, initial protection and habitat improvement, and long-term maintenance and management of compensation lands will include all of the following:</p> <p>A. Compensation lands will provide habitat value that is equal to or better than the quality and function of the habitat impacted by the Project, taking into consideration soils, vegetation, topography, human-related disturbance, wildlife movement opportunity, proximity to other protected lands, management feasibility, and other habitat values, subject to review and approval by PWD and Forest Service (as applicable);</p>						

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p>B. To the extent that proposed compensation habitat may have been degraded by previous uses or activities, the site quality and nature of degradation must support the expectation that it will regenerate naturally when disturbances are removed;</p> <p>C. Be near larger blocks of lands that are either already protected or planned for protection, or which could feasibly be protected long-term by a public resource agency or a non-governmental organization dedicated to habitat preservation;</p> <p>D. Not have a history of intensive recreational use or other disturbance that might cause future erosion or other habitat damage, and make habitat recovery and restoration infeasible;</p> <p>E. Not be characterized by high densities of invasive species, either on or immediately adjacent to the parcels under consideration, that might jeopardize habitat recovery and restoration;</p> <p>F. Not contain hazardous wastes that cannot be removed to the extent that the site could not provide suitable habitat;</p> <p>G. Must provide wildlife movement value equal to that on the project site, based on topography, presence and nature of movement barriers or crossing points, location in relationship to other habitat areas, management feasibility, and other habitat values; and</p> <p>H. Have water and mineral rights included as part of the acquisition, unless PWD and Forest Service, in consultation with CDFW and USFWS, agree in writing to the acceptability of land without these rights.</p>						
<p><b>SPC BIO-20: Survey for Maternity Colonies or Hibernaculum for Roosting Bats.</b> Prior to ground disturbance or vegetation clearing at all Project locations PWD shall retain a qualified biologist to conduct surveys for sensitive bats. Surveys shall be conducted no more than 15 days prior to grading near or the removal of trees or other structures. The resume of the proposed biologists will be provided to the Forest Service for concurrence prior to conducting the surveys. Surveys shall also be conducted during the maternity season (1 March to 31 July) within 300 feet of project activities. If active maternity roosts or hibernacula are</p>	Ongoing during construction and O&M activities	Once per season prior to ground disturbance in each new area	Reservoir, PWD Property	USFS, CDFW	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p>found, the structure, tree or feature occupied by the roost shall be avoided (i.e., not removed), if feasible. If avoidance of the maternity roost is not feasible the biologist will implement the following actions.</p> <p><b>Maternity Roosts.</b> If a maternity roost will be impacted/removed by the Project, and no alternative maternity roost exists in proximity, substitute roosting habitat for the maternity colony shall be provided in an adjacent area free from project impacts. Alternative roost sites will be designed to meet the needs of the specific species and will be constructed/installed in coordination with CDFW and Forest Service. By making the roosting habitat available prior to eviction, the colony will have a better chance of finding and using the roost. Alternative roost sites must be of comparable size and proximal in location to the impacted colony. The CDFW and Forest Service shall be notified of any hibernacula or active nurseries within the construction zone.</p> <p><b>Exclusion of bats prior to eviction from roosts.</b> If non-breeding bat hibernacula are found in trees scheduled to be removed, the individuals shall be safely evicted, under the direction of a qualified biologist, by opening the roosting area to allow airflow through the cavity or other means determined appropriate by the bat biologist (e.g., installation of one-way doors). In situations requiring one-way doors, a minimum of one week shall pass after doors are installed and temperatures should be sufficiently warm for bats to exit the roost because bats do not typically leave their roost daily during winter months in southern coastal California. This action should allow all bats to leave during the course of one week. Roosts that need to be removed in situations where the use of one-way doors is not necessary in the judgment of the qualified biologist shall first be disturbed by various means at the direction of the bat biologist at dusk to allow bats to escape during the darker hours, and the roost tree shall be removed or the grading shall occur the next day (i.e., there shall be no less or more than one night between initial disturbance and the grading or tree removal). A concise letter report will be submitted to the Forest Service documenting the results of bat surveys and any evictions that were required.</p>						

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p><b>SPC BIO-22: Conduct Surveys for American Badger and Desert Kit Fox and Avoid During the Breeding Season.</b> Prior to ground disturbance or vegetation clearing at the 47th Street sediment disposal site and within 200 feet of the Reservoir PWD shall retain a qualified biologist to conduct surveys for American badger and desert kit fox. Surveys shall be conducted no more than 15 days prior to site mobilization, grading near or sediment. The resume of the proposed biologists will be provided to the Forest Service for concurrence prior to conducting the surveys. If present, occupied American badger and desert kit fox dens shall be flagged and ground-disturbing activities avoided within 100 feet of the occupied den. Maternity dens shall be avoided during pup-rearing season (15 February through 1 July) and a minimum 200-foot buffer established. Buffers may be modified with the concurrence of the CDFW and Forest Service. Maternity dens shall be flagged for avoidance, identified on construction maps, and a biological monitor shall be present during construction activities.</p> <p>Inactive Dens. Inactive dens that would be directly impacted by the placement of fill shall be excavated either by hand or mechanized equipment under the direct supervision of the biologist and backfilled to prevent reuse by badgers or kit fox. Potentially and known active dens shall not be disturbed during the whelping/pupping season (February 1 – September 30). A den may be declared "inactive" after three days of monitoring via camera(s) or a tracking medium have shown no kit fox or American badger activity.</p> <p>Passive Relocation. If avoidance of a non-maternity den is not feasible, badgers shall be relocated by slowly excavating the burrow (either by hand or mechanized equipment under the direct supervision of the biologist, removing no more than 4 inches at a time) before or after the rearing season (15 February through 1 July). Relocation of badgers shall occur only after consultation with the CDFW and the Forest Service. Kit fox shall be passively hazed only outside the pupping season. A written report documenting any exclusion events shall be provided to the Forest Service and CDFW within 30 days of relocation.</p>	Ongoing during construction and O&M activities	<p>Surveys: Once per season prior to ground disturbance in each new area</p> <p>Monitoring: Daily</p>	Reservoir, PWD Property	USFS, CDFW	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<b>C.4 Cultural Resources</b>						
<p><b>SPC CUL-1: Archaeological Monitoring Outside the Little Rock Creek and Reservoir Bed.</b> Archaeological monitoring shall be conducted by a qualified archaeologist familiar with the types of prehistoric and historical resources that could be encountered within the Project area. A monitor(s) shall be present for all ground disturbing activities that involve excavation of previously undisturbed soil (pre-dam ground surface level) outside of the Little Rock Creek and Reservoir bed. A monitoring program shall be developed and implemented by PWD, in consultation with the Forest Service, to ensure the effectiveness of monitoring. Intermittent monitoring may occur in areas of moderate archaeological sensitivity at the discretion of the principal archaeologist.</p> <p>A Native American monitor may be required at culturally sensitive locations specified by the Forest Service following government-to-government consultation with Native American tribes. PWD shall retain and schedule any required Native American monitors.</p>	Ongoing during construction and O&M activities	Daily	Reservoir	USFS	Palmdale Water District	
<p><b>SPC CUL-2: Unidentified Cultural Resource Discovery Procedures.</b> If previously unidentified cultural resources are unearthed during construction activities, construction work in the immediate area of the find shall be halted and directed away from the discovery until a qualified archaeologist assesses the significance of the resource. Once the find has been inspected and a preliminary assessment made, PWD would consult with the Forest Service to make the necessary plans for evaluation and treatment of the find(s).</p> <p>SPC CUL-1 shall also be implemented for CUL-2.</p>	Ongoing during construction and O&M activities	Daily	Reservoir	USFS	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p><b>SPC CUL-3: Unidentified Human Remains Discovery Procedures.</b> PWD shall follow all State and federal laws, statutes, and regulations that govern the treatment of human remains. Avoidance and protection of inadvertent discoveries which contain human remains shall be the preferred protection strategy with complete avoidance of impacts to such resources protected from direct Project impacts by Project redesign.</p> <p>If human remains are discovered during construction, all work shall be diverted from the area of the discovery and the Forest Service authorized officer shall be informed immediately. If the remains are determined to be of Native American origin and are on federal land, then the remains shall be treated in accordance with the Native American Graves Protection and Repatriation Act (NAGPRA). If non-Native American human remains are discovered on federal land, then the County coroner would be contacted to determine the appropriate course of action. If the human remains are not on federal land, the remains shall be treated in accordance with Health and Safety Code Section 7050.5, CEQA Section 15064.5(e), and Public Resources Code Section 5097.98. PWD shall assist and support the Forest Service, as appropriate, in all required NAGPRA and Section 106 actions, government-to-government and consultations with Native Americans, agencies and commissions, and consulting parties as requested by the Forest Service. PWD shall comply with and implement all required actions and studies that result from such consultations.</p>	Ongoing during construction and O&M activities	Daily	Reservoir	USFS	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<b>C.5 Geology and Soils</b>						
<b>SPC GEO-1: Geotechnical Investigation.</b> Prior to construction, PWD (using a licensed geologist or engineer) shall perform a design-level geotechnical investigation, which shall include evaluation of soil and slope stability hazards as a result of seismic failure in areas of planned grading and excavation, and provide recommendations for development of grading and excavation plans. 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.	Prior to construction	Once	Reservoir		Palmdale Water District	
<b>C.7 Hydrology</b>						
<b>SPC HYDRO-1: Fill From Reservoir Excavation Will Not Be Placed in Stream Channels.</b> With the exception of temporary stockpiles at the reservoir during excavation, material excavated from the reservoir bed would not be placed within a watercourse, or in a manner that would divert or obstruct the flow path or floodplain of any watercourse.	Ongoing during construction and O&M activities	Daily	Reservoir, Quarries, PWD Property		Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<b>C.8 Noise</b>						
<p><b>SPC NOI-1: Prepare a Construction Noise Complaint and Vibration Plan.</b> Prior to construction, a Construction Noise Complaint and Vibration Plan shall be prepared by PWD. The Plan shall establish a telephone number for use by the public to report any nuisance noise conditions associated with Project activities occurring outside the ANF. PWD shall ensure that:</p> <ul style="list-style-type: none"> <li>• A noise and vibration liaison is assigned to respond to all public construction noise complaints, and</li> <li>• Either (a) the telephone number is staffed by the noise and vibration liaison during construction hours; or (b) the phone number is connected to an automatic answering feature, with date and time stamp recording, to answer calls when the phone is unattended.</li> </ul> <p>This telephone number shall be posted at entrances to the Reservoir and PWD sediment storage site on 47th Street in a manner visible to passersby. The Plan shall detail how PWD would respond to noise and vibration complaints and document the resolution of those complaints.</p>	Prior to and ongoing during construction and O&M activities	Plan: Once Noise Complaint Response: Daily	Reservoir, Haul Route, PWD Property		Palmdale Water District	
<p><b>SPC NOI-2: PWD Site Buffer Requirements.</b> Project activities within the PWD property located on 47th Street East shall not occur within 500 feet of any residential structure.</p>	Ongoing during construction and O&M activities	Daily	PWD Property		Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<b>C.9 Recreation and Land Use</b>						
<p><b>MM L-1a: Coordinate Project scheduling and maintenance activities with Forest Service Authorized Officer.</b> PWD shall develop the Project construction schedule and coordinate construction with the Forest Service's Authorized Officer. Coordination efforts shall ensure the following occurs unless otherwise approved by the Forest Service's Authorized Officer:</p> <ul style="list-style-type: none"> <li>• Construction and maintenance activities are scheduled to avoid heavy recreational use periods (including major holidays) as determined by the Forest Service's Authorized Officer;</li> <li>• Staging areas for Project activities are located so as to minimize the need to temporarily close developed recreation facilities;</li> <li>• Timetables for the required period of use will attempt to limit the need for and duration of temporary closures to the greatest extent feasible; and</li> </ul> <p>The Forest Service and PWD will meet annually prior to Labor Day to discuss these measures and reach consensus. The Forest Service retains final discretion over any temporary closures.</p>	Prior to and ongoing during construction and O&M activities	Once annually	Reservoir	USFS	Palmdale Water District	
<p><b>MM L-1b: Provide Compensation to Forest Service for Lost Recreational Opportunity.</b> The recreational impacts of the Project during construction could vary widely in any given year. PWD and the Forest Service agree as part of an annual meeting to assess the likely duration of closures and jointly determine the number of days of lost recreation opportunities directly attributable to the Project during the construction time period. Any areas that remain closed to recreation for other factors not associated with the construction of the Project will not be considered. PWD shall compensate the Forest Service based on long term historical records of revenue generated per day kept prior to start of construction of the Project, and also an agreed upon value of public recreation, as determined by literature or studies. Compensation may be any form allowable under current agreement authorities, including cash, equipment, supplies, or in-kind labor. Contributions may be made to a third party, or applied off-site if agreed to by the parties. The goal is for PWD and the Forest Service to build a partnership that provides and enhances recreation fairly and commensurate with Project impacts.</p>	Prior to and ongoing during construction and O&M activities	Once annually	Reservoir	USFS	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<b>SPC LAND-1: Obtain Necessary Conditional Use Permits.</b> PWD shall temporarily store or permanently dispose of the excavated sediment from Littlerock Reservoir only at a location that has a Conditional Use Permit (CUP) from the local jurisdiction (i.e., County of Los Angeles or City of Palmdale) for sediment storage or disposal. PWD shall consult with the local jurisdiction to ensure compliance with the requirements of the CUP.	Prior to construction and O&M activities	Once annually	Quarries, PWD Property	City of Palmdale	Palmdale Water District	
<b>SPC LAND-2: Design Grading to Accommodate OHV Access.</b> The sediment removal Excavation Plan shall ensure OHV ingress/ egress is available to the Reservoir bottom from the existing boat ramp.	Prior to and ongoing during construction and O&M activities	Once annually	Reservoir	USFS, DWR	Palmdale Water District	
<b>SPC LAND-3: Long-Term Recreation Management Plan.</b> PWD and the Forest Service shall prepare a joint Recreation Management Plan for the existing recreation facilities at Little-rock Reservoir, and the continued provision of recreational opportunities. The Plan shall identify: (1) measures for future management of recreation facilities; and (2) long-term strategies for encouraging recreational use of the Reservoir.	Prior to and ongoing during construction and O&M activities	Once annually	Reservoir	USFS, DWR	Palmdale Water District	
<b>C.10 Transportation and Traffic</b>						
<b>MM T-1: Restrict Haul Truck Movements during PM Peak Period.</b> Implement a haul truck schedule that requires trucks to avoid traveling along the Cheseboro Road – Pearblossom Highway – Avenue T haul route during the afternoon peak period, i.e., from 4:00 to 6:00 p.m., to the extent feasible. The alternative route to be utilized is Cheseboro Road, Barrel Springs Road, 47th Street E, Pearblossom Highway, and Avenue T.	Ongoing during construction and O&M activities	Daily	Haul Routes	Caltrans, Los Angeles County, City of Palmdale	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p><b>SPC TRA-1: Prepare Traffic Control Plan.</b> A Traffic Control Plan shall be prepared by PWD available for review, inspection, and input by Caltrans, Forest Service, Los Angeles County, and the City of Palmdale. The Plan shall include, but is not limited to:</p> <ul style="list-style-type: none"> <li>● The location and need for flagmen and other temporary traffic control devices, including within the ANF, at the PWD sediment staging site, at the intersection of Cheseboro Road and Pearblossom Highway to ensure safe left turn movements onto Pearblossom Highway;</li> <li>● Travel time restrictions for trucks to avoid traveling along the Cheseboro Road – Pearblossom Highway – Avenue T haul route during the afternoon peak period; i.e., from 4:00 to 6:00 p.m., to the extent feasible, utilizing Cheseboro Road, Barrel Springs Road, 47th Street E, Pearblossom Highway, and Avenue T;</li> <li>● The need for a fair-share contribution to the funding of future improvements at the intersections of Cheseboro Road/Pearblossom Highway and Pearblossom Highway/Avenue T in the event afternoon peak period restrictions cannot be utilized.</li> <li>● The need for any oversize vehicle, weight restriction, or encroachment permits;</li> <li>● Assurance of emergency access to and through the Reservoir and PWD site work areas;</li> <li>● Procedures for haul trucks to immediately pull into the shoulder when emergency vehicles with sirens on are traveling in their vicinity;</li> <li>● Designated work area access locations;</li> <li>● Driveway turning restrictions; and</li> <li>● Designated parking/staging locations for workers and equipment.</li> </ul> <p>This Plan shall be reviewed and adjusted, as needed, a minimum of every 3-5 years until the Reservoir has been restored to 1992 design storage capacity to ensure effectiveness and address changes in traffic volumes and conditions.</p>	Prior to construction and O&M activities	Once	Reservoir, Haul Routes	Caltrans, USFS, Los Angeles County, City of Palmdale	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p><b>SPC TRA-2: Pavement Rehabilitation – Public or National Forest Roadways.</b> PWD and/or its contractor shall conduct annual before-and-after evaluation of pavement conditions along the sediment haul routes, equipment staging areas, and equipment access points to document any damage caused by the haul trucks or other construction activities. The documentation shall include written descriptions and photographs of pre-Project and post-Project pavement conditions. Any pavement or other infrastructure damage caused by the haul trucks or construction equipment shall be repaired/rehabilitated to pre-Project conditions or better. This measure shall be subject to review, approval, and inspection by the Los Angeles County Department of Public Works, the City of Palmdale Department of Public Works, California Department of Water Resources, USFS, and Caltrans, depending on who has jurisdiction over the route.</p>	Prior to and ongoing during construction and O&M activities	Once annually	Reservoir, Haul Routes	Caltrans, USFS, DWR, Los Angeles County, City of Palmdale	Palmdale Water District	
<b>C.12 Water Quality and Resources</b>						
<p><b>SPC WQ-1: Prepare Spill Response Plan.</b> A Spill Response Plan would be prepared prior to the start of construction activities. This plan would describe the required materials and methodology to quickly and effectively contain and remove any spill or accidental release of hazardous materials. Required materials may include protective clothing, absorbent materials, hand tools for minor excavation and soil removal, and appropriate containers for hazardous materials and contaminated soil. The Spill Response Plan would include worker training on proper containment and disposal of hazardous materials. The requirements of the Spill Response Plan would be repeated and described in the SWPPP.</p>	Prior to construction and O&M activities	Once	Reservoir, Quarries, PWD Property	USFS, City of Palmdale	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<p><b>SPC WQ-2: Prepare a Storm Water Pollution Prevention Plan (SWPPP).</b> A SWPPP shall be developed for the Project in compliance with the federal Clean Water Act, and Notices of Intent shall be filed with the State Water Resources Control Board and the applicable Regional Water Quality Control Board (Lahontan). The SWPPP shall be stored at Project work sites for reference by Project personnel and for inspection review by the Environmental Monitor. The SWPPP shall include Best Management Practices (BMPs) that would be adhered to during Project activities in order to stabilize disturbed areas and reduce the potential for erosion and sedimentation, among other effects. BMPs may include but are not limited to those described below.</p> <ul style="list-style-type: none"> <li>● Erosion minimizing efforts such as straw wattles, water bars, covers, silt fences, and sensitive area access restrictions (for example, flagging) shall be installed before and during clearing and grading activities.</li> <li>● Mulching, seeding, or other suitable stabilization measures shall be used to protect exposed areas during ground-disturbing activities.</li> <li>● Measures such as use of regular inspections and oil pans or other comparable devices shall be used to ensure that contaminants are not discharged from the construction sites.</li> <li>● Silting/sedimentation basin(s) shall be established in appropriate locations to capture eroded soils and other materials, and would be regularly cleared to maintain capacity.</li> <li>● Straw wattles or other comparably effective devices (as determined by the Civil Engineer, in consultation with the Environmental Monitor) shall be placed on the downslope sides of work areas to direct runoff from the work areas into temporary sedimentation basins.</li> <li>● All erosion control materials shall be biodegradable and natural fiber.</li> </ul> <p>All BMPs required by the SWPPP shall be checked and maintained regularly and after all large storm events. Proper implementation will be verified regularly by the onsite Environmental Monitor.</p>	Prior to construction and O&M activities	Once	Reservoir, Quarries, PWD Property	USFS, RWQCB (Lohantan), City of Palmdale	Palmdale Water District	

Mitigation Measure	Duration	Frequency	Location	Coordination	Monitoring Responsibility	Verification (Date and Initials)
<b>C.13 Wildfire Prevention and Suppression</b>						
<b>SPC FIRE-1: Curtailment of Activities.</b> All construction activities shall be curtailed in the event of a fire or when fuel and weather conditions get into the "very high" and "extreme" ranges, as determined by the USDA Forest Service through daily Project Activity Level (PAL) designations. The specific Project-related activities to be halted during very high or extreme weather conditions would be at the discretion of the USDA Forest Service.	Ongoing during construction and O&M activities	Daily	Reservoir	USFS	Palmdale Water District	
<b>SPC FIRE-2: Preparation of a Fire Plan.</b> PWD, in coordination with their contractor, shall prepare a Fire Plan to be filed with the USDA Forest Service no less than one week prior to the start of construction that includes the following: (1) responsibilities of PWD and the Forest Service in regards to fire prevention and inspection of work areas; (2) personnel in charge of overseeing Fire Plan implementation; (3) staff and equipment that can be used for fighting fire; and (4) emergency measures for construction curtailment.	Prior to construction and O&M activities	Once	Reservoir	USFS	Palmdale Water District	
<b>SPC FIRE-3: Spark Arrester Requirements.</b> The exhausts of all equipment powered by gasoline, diesel, or other hydrocarbon fuel shall be equipped with spark arresters that have been approved by the USDA Forest Service, as indicated in the most recent publication of the agency's "Spark Arrester Guide."	Ongoing during construction and O&M activities	Daily	Reservoir	USFS	Palmdale Water District	

## **EXHIBIT C:**

### **LITTLEROCK RESERVOIR SEDIMENT REMOVAL PROJECT DESCRIPTION**

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#### **Overview of the Project**

The proposed action for the Littlerock Reservoir Sediment Removal Project consists of the following three components:

- Construction of a subterranean grade control structure within Littlerock Reservoir at Rocky Point.
- Total initial removal of approximately 1,165,000 cubic yards of accumulated sediment from within the Reservoir to restore 1992 design water storage and flood control capacity. This initial removal period would occur over a 7 to 12 year timeframe and would include annual restoration activities.
- Ongoing annual sediment removal (estimated at 38,000 cubic yards per year) to maintain Reservoir design capacity, including annual restoration activities.

These three Project actions are necessary to restore and preserve the Reservoir capacity, which has been substantially reduced over time by the deposition of sediment behind Littlerock Dam during seasonal inflows. The 1992 design capacity of the Reservoir is 3,500 acre-feet (af) of water storage. Currently, the Reservoir storage capacity has been reduced to approximately 3,037 af because of sediment buildup. The proposed action is to amend an existing Palmdale Water District (PWD) permit to allow for construction of the grade control structure and update an existing operations and maintenance (O&M) plan for the Reservoir.

#### **Public Access Restriction**

The Reservoir would be closed to the public during proposed action activities. This is necessary for public safety. Closures of the Reservoir to the public are anticipated to be from:

- July through November the first year of Project activities for grade control structure construction;
- Labor Day to when seasonal water refill of the Reservoir suspends construction activities (estimated between mid-November and January) for initial sediment removal activities (7 to 12 years) to restore the Reservoir to 1992 design capacity; and
- After Reservoir restoration, as-needed between Labor Day to when seasonal water refill of the Reservoir suspends construction activities (estimated between mid-November and January) for ongoing sediment removal activities to maintain Reservoir design capacity.

#### **Grade Control Structure**

Before sediment removal can occur, a grade control structure would be constructed within the Reservoir at an area known as Rocky Point. Construction of the grade control structure is necessary to ensure that sediment removal will not result in degradation to designated critical habitat for the arroyo toad located immediately upstream of Rocky Point by inducing head-cutting (lowering) of the channel bed upstream of the structure.

The grade control structure would be constructed of soil cement (or roller-compacted concrete) derived from natural sand materials from the reservoir bed, simulating a natural, but hardened, ground surface. The primary structure will be a subterranean dam-like structure, with the top being flush with, or slightly

above, the existing Reservoir bottom. Soil cement bank protection would extend laterally from the primary structure, as well as along the west upstream bank, to protect adjacent side slopes. This soil cement structure plus adjacent bank protection would span approximately 250 to 476 feet of channel (bank to bank) with a maximum depth of approximately 56 feet underground. The subterranean portion of the structure would extend downstream approximately 112 feet at approximately 2-to-1 slope.

Because the grade control structure and most of the adjacent bank protection would be constructed below grade, only the upper lip of the structure (at the greatest point upstream) would be visible when the reservoir water level is lowered (approximately 8 feet by 200 feet). Soil cement bank protection adjacent to the structure and on the west bank upstream of the structure would extend approximately 9 feet above the reservoir bed.

### **Grade Control Construction**

Construction of the grade control structure would begin in July of 2017, with the Reservoir lowered to a level allowing full access to the site. Construction is currently estimated to take approximately 20 weeks to complete. Construction would typically occur between 7:00 a.m. and 7:00 p.m., 6 days per week (no work on Sundays or federal holidays). Temporary night construction may be necessary during large volume soil cement activities and due to an earlier sundown during the fall months. Any necessary night work would be conducted consistent with the Standard Project Commitments (SPCs) identified in the Final Environmental Impact Report, Appendix A, and is not expected to extend very far into the evening hours. It is anticipated that night construction may be needed for up to 14 nights.

### **Initial Annual Sediment Removal – Restore to 1992 Design Capacity**

Upon completion of the grade control structure, PWD would remove approximately 1,165,000 cubic yards of sediment from the Reservoir bottom, restoring the Reservoir to 1992 design capacity. Sediment would be removed annually during a temporary closure of the Reservoir starting in 2017 after Labor Day until seasonal water refill of the Reservoir suspends removal efforts (estimated between mid-November and January). The Reservoir would be closed to the public during this period.

It is estimated that under a maximum removal schedule, approximately 7 to 12 years of annual sediment removal would be required to achieve 1992 design capacity of the Reservoir. This excavation rate assumes that 16, 12-cubic-yard-capacity dump trucks, with associated necessary off-road equipment, are working a total of 60 days annually between Labor Day and mid- to late November each year to remove a total of 166,430 cubic yards of sediment each year. It is estimated that there is an annual inflow rate of 38,000 cubic yards of new sediment into the Reservoir (loss of 23 af of water storage annually), Therefore, the net annual increase in Reservoir capacity during each of the 7 to 12 years of initial annual sediment removal is approximately 80 af.

The above maximum sediment removal scenario is utilized to represent worst-case potential for environmental impacts. However, unknown variables (such as annual dump truck availability, seasonal rainfall during the removal period, sediment recycling/reuse at civil projects more distant than the proposed disposal sites) may occur. Therefore, it is likely the initial disposal period could extend up to 10 to 12 years to achieve 1992 design capacity.

Sediment removal will not alter the Reservoir footprint, but will simply deepen the Reservoir within the excavation area. The excavation area starts just upstream of the Dam and extends 4,500 feet upstream of the Dam. The maximum excavation depth would be approximately 14 feet approximately 800 feet upstream of the Dam. The new channel bottom would taper upstream to the existing grade at the

upstream limits of excavation. This disturbance area is contained entirely within the Reservoir inundation area.

### **Disposal of Removed Sediment**

Excavated sediment would be loaded into trucks and hauled to off-site locations. Sediment may first be stockpiled within the excavation area if drying is needed. PWD will first seek to recycle excavated material as feasible, likely for use on PWD and other municipal projects within Palmdale and the surrounding area. All excavated sediment would be trucked off site to one of two locations:

- **Exhausted mining pits at existing quarries within Littlerock.** The majority of removed sediment would be used for backfilling exhausted mining pits at existing sand and gravel mines located in the community of Littlerock, approximately 6 miles north of the Dam. Currently, 6 individual quarries operate within this area. PWD will coordinate with these quarries on an annual basis to determine the exhausted pit(s) that will receive sediment for spreading and backfill. Disposal of material within the exhausted pits will require that the selected mining operation, or operations, submit for a major modification to their new Conditional Use Permit (CUP) or that a new CUP application be submitted. Additionally, the City of Palmdale Office of Mine and Reclamation would require notification of the major modification to the approved Reclamation Plan(s).
- **PWD-owned property on 47th Street East, just north of the California Aqueduct.** A small portion in the northeast corner of this 21-acre site would be used for temporary sediment storage, allowing for future use (recycling) of material. This site has an at-grade truck access and disturbed staging area on 47th Street. Sediment storage would occur only in depressions located in the northeast portion of the site, ensuring the greatest distance from adjacent residences, ephemeral streams, and the California Aqueduct. Furthermore, stockpiled sediment material would not be mounded above the existing grade of 47th Street. The amount of material temporarily stored at this location would not exceed 10,000 cubic yards. The storage area would require clearing of vegetation that would not be restored so the site is available for temporary sediment storage and recycling.

### **Ongoing Annual Sediment Removal – Operation and Maintenance**

Current estimates indicate Reservoir capacity is reduced by siltation at an average annual rate of approximately 38,000 cubic yards of sediment per year, amounting to a loss of approximately 23 acre-feet of water capacity annually. Therefore, upon restoring the Reservoir to 1992 capacity, an average of 38,000 cubic yards of sediment would be removed from the Reservoir annually. The actual amount of sediment removed from the Reservoir would be based on the expected amount of sediment deposition that occurred during each year's winter storms. Similar to the initial sediment removal, O&M sediment removal would include the following components:

- Activities would occur sometime after Labor Day and be finished prior to mid-November of each year;
- Activities would occur during daylight hours up to 12 hours per day Monday through Saturday (no work on Sundays or federal holidays);
- Maximum annual disturbance of approximately 15 acres within the Reservoir bed; and
- Maximum of 180 (90 round trip) dump truck trips per day. Requires the use of 6 dump trucks.

**PALMDALE  
WATER DISTRICT  
BOARD MEMORANDUM**

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**DATE:** March 14, 2017 March 22, 2017  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Mr. Bob Egan, Financial Advisor  
**RE:** *AGENDA ITEM NO. 7.3 – STATUS REPORT ON CASH FLOW STATEMENT  
AND CURRENT CASH BALANCES AS OF JANUARY, 2017.*

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Attached is the Investment Funds Report and current cash balance as of January 31, 2017. The reports will be reviewed in detail at the Board meeting.

**PALMDALE WATER DISTRICT  
INVESTMENT FUNDS REPORT  
January 31, 2017**

		<u>January 2017</u>	<u>December 2016</u>
<b>CASH</b>			
1-00-0103-100	Citizens - Checking	464,926.37	432,357.82
1-00-0103-200	Citizens - Refund	-	-
1-00-0103-300	Citizens - Merchant	122,383.34	10,752.68
	<b>Bank Total</b>	<b>587,309.71</b>	<b>443,110.50</b>
1-00-0110-000	PETTY CASH	300.00	300.00
1-00-0115-000	CASH ON HAND	5,400.00	5,400.00
	<b>TOTAL CASH</b>	<b>593,009.71</b>	<b>448,810.50</b>
<b>INVESTMENTS</b>			
1-00-0135-000	Local Agency Investment Fund	<b>Acct. Total 11,844.48</b>	<b>11,824.34</b>
1-00-0120-000	<b>UBS Money Market Account General (SS 11469)</b>		
	UBS RMA Government Portfolio	3,396,410.23	3,224,654.11
	UBS Bank USA Dep acct	250,000.00	250,000.00
	Accrued interest	9,252.97	8,102.05
		<b>3,655,663.20</b>	<b>3,482,756.16</b>
	<b>US Government Securities</b>		
	<b>CUSIP #</b>	<b>Issuer</b>	<b>Maturity Date</b>
		<b>Rate</b>	<b>PAR</b>
		<b>Market Value</b>	<b>Market Value</b>
	912828SJ0	US Treasury Note	02/28/2017
		0.870	1,000,000
			1,000,320.00
			1,000,670.00
			<b>1,000,000</b>
			<b>1,000,320.00</b>
			<b>1,000,670.00</b>
	<b>Certificates of Deposit</b>		
		<b>Issuer</b>	<b>Maturity Date</b>
		<b>Rate</b>	<b>Face Value</b>
	1	Compass Bank	02/07/2017
		0.950	240,000
			240,016.80
			240,096.00
	2	GE Cap Retail Bank	04/27/2017
		1.840	200,000
			200,418.00
			200,550.00
	3	Discover Bank	05/02/2017
		1.730	240,000
			240,588.00
			240,772.80
	4	Merrick Bank	06/12/2017
		1.000	100,000
			100,145.00
			100,154.00
	5	Level One Bank	06/19/2017
		0.650	101,000
			101,115.14
			101,112.11
	6	GE Cap Retail Bank	06/22/2017
		1.780	200,000
			200,880.00
			201,004.00
	7	Capitol One Bank	08/14/2017
		1.200	240,000
			240,624.00
			240,549.60
	8	Triumph Bank	09/26/2017
		0.800	200,000
			200,418.00
			200,294.00
	9	MB Finl Bank	10/26/2017
		0.850	200,000
			200,050.00
			199,866.00
	10	Bank United Miami	11/21/2017
		1.200	240,000
			240,650.40
			240,501.60
	11	Goldman Sachs Bank NY	01/29/2018
		1.350	240,000
			240,792.00
			240,748.80
			<b>2,201,000</b>
			<b>2,205,697.34</b>
			<b>2,205,648.91</b>
	<b>Acct. Total</b>		<b>6,861,680.54</b>
			<b>6,689,075.07</b>
1-00-1110-000	<b>UBS Money Market Account Capital (SS 11475)</b>		
	UBS Bank USA Dep acct	238,368.29	234,329.20
	UBS RMA Government Portfolio	-	-
	<b>Acct. Total</b>	<b>238,368.29</b>	<b>234,329.20</b>
1-00-0125-000	<b>UBS Access Account General (SS 11432)</b>		
	UBS Bank USA Dep acct	250,000.00	250,000.00
	UBS RMA Government Portfolio	9,144.85	8,876.85
	Accrued interest	28,162.82	21,361.68
		<b>287,307.67</b>	<b>280,238.53</b>
	<b>US Government Securities</b>		
	<b>CUSIP #</b>	<b>Issuer</b>	<b>Maturity Date</b>
		<b>Rate</b>	<b>PAR</b>
		<b>Market Value</b>	<b>Market Value</b>
	912828XF2	US Treasury Note	06/15/2018
		1.125	1,000,000
			1,001,600.00
			1,000,980.00
	912828KD1	US Treasury Note	02/15/2019
		2.610	1,500,000
			1,545,645.00
			1,547,115.00
	912828P53	US Treasury Note	02/15/2019
		0.750	1,000,000
			990,230.00
			990,040.00
			<b>3,500,000</b>
			<b>3,537,475.00</b>
			<b>3,538,135.00</b>
	<b>Certificates of Deposit</b>		
		<b>Issuer</b>	<b>Maturity Date</b>
		<b>Rate</b>	<b>Face Value</b>
		BMW Bank	11/15/2018
		1.960	240,000
			243,004.80
			243,012.00
		American Express	04/29/2019
		1.440	240,000
			241,480.80
			241,396.80
		Synchrony Bank	04/14/2020
		1.850	240,000
			243,055.20
			242,740.80
		JP Morgan Chase Bank	11/18/2020
		1.600	240,000
			235,660.80
			235,380.00
		Bank of Baroda NY	11/23/2020
		1.600	77,000
			75,647.88
			75,560.10
		Comenity Cap Bank	01/19/2021
		1.900	163,000
			166,266.52
			166,240.44
			<b>1,200,000</b>
			<b>1,205,116.00</b>
			<b>1,204,330.14</b>
	<b>Acct. Total</b>		<b>5,029,898.67</b>
			<b>5,022,703.67</b>
	<b>Total Managed Accounts</b>		<b>12,141,791.98</b>
			<b>11,957,932.28</b>
1-00-1121-000	<b>UBS Rate Stabilization Fund (SS 24016) - District Restricted</b>		
	UBS Bank USA Dep acct	570.33	282.69
	UBS RMA Government Portfolio	-	-
	Accrued interest	504.98	180.16
		<b>1,075.31</b>	<b>462.85</b>
	<b>Certificates of Deposit</b>		
		<b>Issuer</b>	<b>Maturity Date</b>
		<b>Rate</b>	<b>Face Value</b>
		Webbank UT US	12/19/2018
		1.400	240,000
			240,357.60
			240,247.20
		Ally Bank UT US	12/24/2018
		1.500	240,000
			240,784.80
			240,691.20
			<b>480,000</b>
			<b>481,142.40</b>
			<b>480,938.40</b>
	<b>Acct. Total</b>		<b>482,217.71</b>
			<b>481,401.25</b>
	<b>GRAND TOTAL CASH AND INVESTMENTS</b>		<b>13,217,019.40</b>
			<b>12,888,144.03</b>
	<b>Increase (Decrease) in Funds</b>		<b>328,875.37</b>
1-00-1130-000	<b>2013A Bonds - Project Funds (BNY Mellon)</b>		
	<b>Construction Funds</b>	<b>381,575.92</b>	<b>403,919.85</b>

PALMDALE WATER DISTRICT

2017 Cash Flow Report (Based on Nov. 22, 2016 Approved Budget)

Budget 2018  
Carryover  
Information

3/8/2017

	January	February	March	April	May	June	July	August	September	October	November	December	YTD
<b>Budgeted Water Sales</b>	1,607,158	1,463,315	1,532,426	1,684,307	1,746,031	1,895,010	2,343,532	2,248,451	2,409,722	2,187,005	1,948,605	1,734,438	22,800,000
<b>Actual/Projected Water Sales</b>	1,631,760	1,463,315	1,532,426	1,684,307	1,746,031	1,895,010	2,343,532	2,248,451	2,409,722	2,187,005	1,948,605	1,734,438	22,824,602
<b>Total Cash Beginning Balance (BUDGET)</b>	12,888,144	12,591,298	12,125,487	9,811,099	10,852,433	11,101,609	10,602,468	10,269,501	10,564,441	8,273,846	8,294,757	8,535,850	
<b>Total Cash Beginning Balance</b>	12,883,393	13,217,019	12,693,489	10,316,601	11,357,936	11,607,111	11,045,471	10,712,504	11,007,444	8,654,349	8,675,259	8,916,352	
<b>Budgeted Water Receipts</b>	1,607,158	1,463,315	1,532,426	1,684,307	1,746,031	1,895,010	2,343,532	2,248,451	2,409,722	2,187,005	1,948,605	1,734,438	22,800,000
<b>Water Receipts</b>	2,124,125	1,463,315	1,532,426	1,684,307	1,746,031	1,895,010	2,343,532	2,248,451	2,409,722	2,187,005	1,948,605	1,734,438	23,316,967
<b>DWR Refund (Operational Related)</b>													-
<b>Other</b>													-
<b>Total Operating Revenue (BUDGET)</b>													-
<b>Total Operating Revenue (ACTUAL)</b>	2,124,125	1,463,315	1,532,426	1,684,307	1,746,031	1,895,010	2,343,532	2,248,451	2,409,722	2,187,005	1,948,605	1,734,438	23,316,967
<b>Total Operating Expenses excl GAC (BUDGET)</b>	(1,433,015)	(1,410,412)	(1,843,115)	(1,795,526)	(1,815,868)	(1,666,439)	(2,049,698)	(1,869,774)	(2,078,927)	(1,678,858)	(1,660,776)	(1,794,941)	(21,097,350)
<b>GAC (BUDGET)</b>	-	(121,780)	-	(220,000)	-	-	(65,000)	-	(190,000)	-	-	(190,000)	(786,780)
<b>Operating Expenses excl GAC (ACTUAL)</b>	(1,522,144)	(1,410,412)	(1,843,115)	(1,795,526)	(1,815,868)	(1,666,439)	(2,049,698)	(1,869,774)	(2,078,927)	(1,678,858)	(1,660,776)	(1,794,941)	(21,186,479)
<b>GAC (ACTUAL)</b>	(169,477)	(121,780)	-	(220,000)	-	-	(65,000)	-	(190,000)	-	-	(190,000)	(956,257)
<b>Prepaid Insurance (paid)/refunded</b>	-	(66,500)	-	-	-	-	-	(35,000)	(200,000)	-	-	-	(301,500)
<b>Total Operating Expense (ACTUAL)</b>	(1,691,621)	(1,598,692)	(1,843,115)	(2,015,526)	(1,815,868)	(1,666,439)	(2,114,698)	(1,904,774)	(2,468,927)	(1,678,858)	(1,660,776)	(1,984,941)	(22,444,236)
<b>Non-Operating Revenue Expenses:</b>													
<b>Assessments, net (BUDGET)</b>	671,050	260,305	14,650	2,077,790	758,290	11,325	77,225	130,500	-	-	132,500	2,518,797	6,652,432
<b>Actual/Projected Assessments, net</b>	669,618	373,532	14,650	2,077,790	758,290	11,325	77,225	130,500	-	-	132,500	2,518,797	6,764,227
<b>RDA Pass-through (Successor Agency)</b>								225,000.00				200,000.00	425,000
<b>Interest</b>	11,110	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	66,110
<b>Market Adjustment</b>	28												28
<b>Grant Re-imbursement</b>								178,000					178,000
<b>Capital Improvement Fees</b>	4,035	187,947										62,500	254,482
<b>DWR Refund (Capital Related)</b>			50,000					50,000		50,000		50,000	200,000
<b>Other</b>	4,446												4,446
<b>Total Non-Operating Revenues (BUDGET)</b>													-
<b>Total Non-Operating Revenues (ACTUAL)</b>	689,237	566,480	69,650	2,082,790	763,290	291,325	260,225	135,500	55,000	5,000	137,500	2,836,297	7,892,293
<b>Non-Operating Expenses:</b>													
<b>Budgeted Capital Expenditures</b>	(438,494)	(414,207)	(316,000)	(546,000)	(280,041)	(165,000)	(45,000)	(20,000)	(45,000)	(328,000)	(20,000)	-	(2,617,742)
<b>Actual/Projected Capital Expenditures</b>	(79,601)	(773,100)	(316,000)	(246,000)	(280,041)	(165,000)	(45,000)	(20,000)	(45,000)	(28,000)	(20,000)	-	(2,017,742)
<b>WRB Capital Expenditures</b>	-	-	-	(300,000)	-	-	-	-	-	(300,000)	-	-	(600,000)
<b>Uncommitted Capital Expenditures</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>SWP Capitalized</b>	(681,198)	(157,881)	(181,818)	(157,881)	(157,881)	(157,881)	(681,194)	(157,881)	(188,154)	(157,881)	(157,880)	(157,879)	(2,995,409)
<b>Butte County Water Transfer</b>							(752,299)					(752,299)	(1,504,599)
<b>Bond Payments - Interest</b>			(1,060,942)						(1,052,364)				(2,113,307)
<b>Principal</b>			(553,437)						(1,057,016)				(1,610,453)
<b>Capital leases - Go West (2012 Lease)</b>	(17,296)	(17,296)	(17,296)										(51,888)
<b>Capital leases - Holman Capital (2017 Lease)</b>							(89,477)						(89,477)
<b>Capital leases - Enterprise FM Trust (Vehicles)</b>	(2,392)	(2,660)	(2,660)	(2,660)	(2,660)	(2,660)	(2,660)	(2,660)	(2,660)	(2,660)	(2,660)	(2,660)	(31,656)
<b>Capital leases - Wells Fargo (Printers)</b>	(7,628)	(3,695)	(3,695)	(3,695)	(3,695)	(3,695)	(3,695)	(3,695)	(3,695)	(3,695)	(3,695)	(3,695)	(48,274)
<b>Total Non-Operating Expenses (ACTUAL)</b>	(788,115)	(954,633)	(2,135,849)	(710,237)	(444,278)	(1,081,536)	(822,026)	(184,237)	(2,348,890)	(492,237)	(184,236)	(916,534)	(11,062,805)
<b>Total Cash Ending Balance (BUDGET)</b>	12,591,298	12,125,487	9,811,099	10,852,433	11,101,609	10,602,468	10,269,501	10,564,441	8,273,846	8,294,757	8,535,850	10,205,110	
<b>Total Cash Ending Balance (ACTUAL)</b>	13,217,019	12,693,489	10,316,601	11,357,936	11,607,111	11,045,471	10,712,504	11,007,444	8,654,349	8,675,259	8,916,352	10,585,612	

Indicates actual expenditures/revenues:   
 Indicates anticipated expenditures/revenues:

Budget 10,205,110  
 Difference 380,502

# **PALMDALE WATER DISTRICT BOARD MEMORANDUM**

**DATE:** March 16, 2017 **March 22, 2017**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Michael Williams, Finance Manager/CFO  
**VIA:** Mr. Dennis LaMoreaux, General Manager  
**RE:** *AGENDA ITEM 7.4 – STATUS REPORT ON FINANCIAL STATEMENTS, REVENUE, AND EXPENSE AND DEPARTMENTAL BUDGET REPORTS FOR JANUARY, 2017*

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**Discussion:**

Presented here are the Balance Sheet and Profit/Loss Statement for the period ending January 31, 2017. Also included are Year-To-Year Comparisons and Month-To-Month Comparisons for both revenue and expense. I have not provided the individual departmental budget reports for the month.

This is the first month of the District's Budget Year 2017. The target percentage is 8%. Revenues ideally are at or above, and expenditures ideally are below.

**Balance Sheet:**

- Page 1 is our balance sheet on January 31, 2017.
- There is no significant change from prior month.

**Profit/Loss Statement:**

- Page 3 is our profit/loss statement on January 31, 2017.
- Operating revenue is at 7% of budget.
- Cash operating expense is at 7% of budget.
- Net operating profit for the month of January was \$138K.
- Page 6 is showing the distribution of operating expense between labor and operations. Labor costs are at 53% of total expenses with salaries making up 40% of that.

**Year-To-Year Comparison P&L:**

- Page 7 is our comparison of January, 2016 to January, 2017.
- Total operating revenue was up \$41K, or 2.5%.
- Operating expenditures were down \$659K, or 30%. This is due mainly to the purchase of GAC last year.
- Page 7-1 is our comparison of January, 2015 to January, 2017.
- Total operating revenue was up \$57K, or 3.6%.
- Total operating expenses were down \$862K, or 36%. This is due to the meter project in 2015.
- Page 8 and 8-1 is a graphic presentation of the water consumption comparison for 2016 and 2015, respectively.

PALMDALE WATER DISTRICT  
BOARD OF DIRECTORS

VIA: Mr. Dennis LaMoreaux, General Manager -2-

March 16, 2017

- Units billed in acre feet for 2016 comparison were down by 73, or 8%.
- Total revenue per unit sold was up \$0.48, or 11%.
- Total revenue per connection is up \$0.77, or 1%.
- Units billed per connection is down 1.22, or 8%.
  
- Units billed in acre feet for 2015 comparison were down by 48, or 5.5%.
- Total revenue per unit sold is up \$0.40, or 9.7%.
- Total revenue per connection was up \$1.81, or 3%.
- Units billed per connection is down .86, or 6%.

**Revenue Analysis Year-To-Date:**

- Page 9 is our comparison of revenue, year-to-date.
- Operating revenue through January, 2017 is up \$41K, or 2.5%.
- Retail water revenue from all areas are up by \$17K from last year. That's shown by the combined green highlighted area.
- Retail water sales, including the drought surcharge but excluding meter fees, is down \$24K.
- Total revenue is down \$51K.
- Operating revenue is at 7% of budget; last year was at 7% of budget.

**Expense Analysis Year-To-Date:**

- Page 11 is our comparison of expense, year-to-date.
- Cash Operating Expenses through January, 2017 are down \$659K, or 44%, compared to 2016. This is due to GAC purchase.
- Total Expenses are down \$862K, or 27%. This due primarily to same reason.

**Departments:**

- Not provided.

**Non-Cash Definitions:**

**Depreciation:** This is the spreading of the total expense of a capital asset over the expected life of that asset.

**OPEB Accrual Expense:** Other Post Employment Benefits (OPEB) is the recognized annual required contribution to the benefit. The amount is actuarially determined in accordance with the parameters of GASB 45. The amount represents a level of funding that, if paid on an ongoing basis, is projected to cover normal cost each year.

**Bad Debt:** The uncollectible accounts receivable that has been written off.

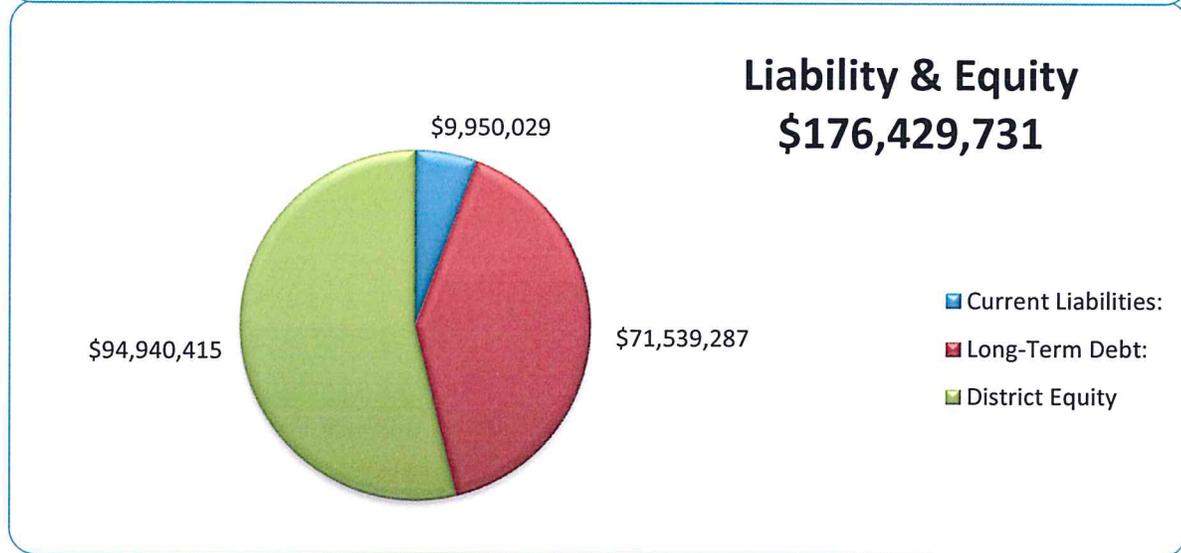
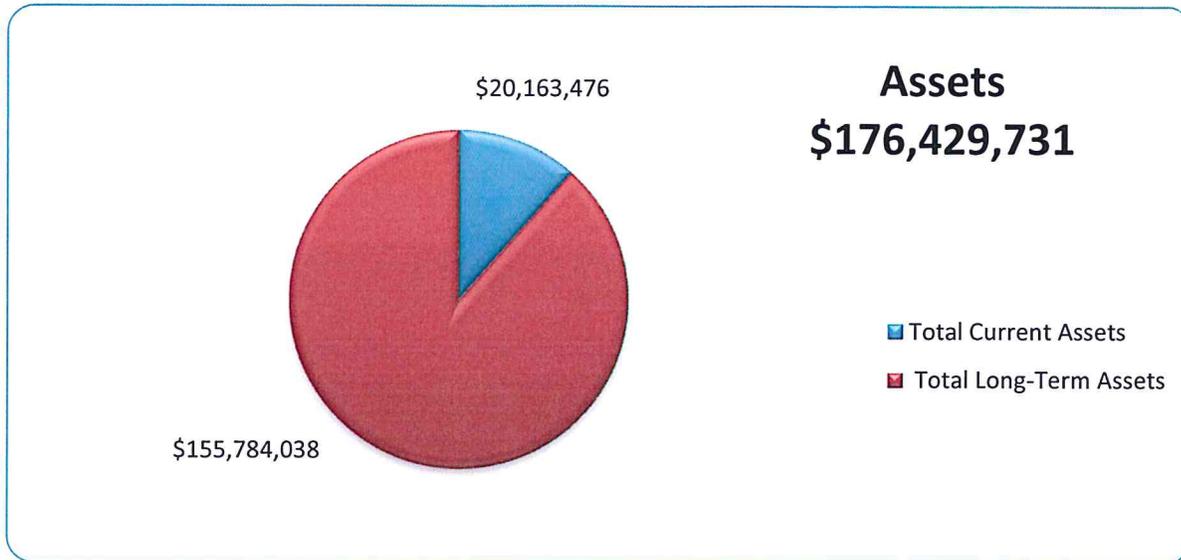
**Service Cost Construction:** The value of material, parts & supplies from inventory used to construct, repair and maintain our asset infrastructure.

**Capitalized Construction:** The value of our labor force used to construct our asset infrastructure.

**Palmdale Water District**  
**Balance Sheet Report**  
**For the One Month Ending 1/31/2017**

	January 2017	December 2016
<b>ASSETS</b>		
<b>Current Assets:</b>		
Cash and Cash Equivalents	\$ 593,010	\$ 448,811
Investments	12,141,792	11,928,469
2013A Bonds - Project Funds	381,576	403,920
	<b>\$ 13,116,378</b>	<b>\$ 12,781,199</b>
<b>Receivables:</b>		
Accounts Receivables - Water Sales	\$ 1,503,841	\$ 1,986,553
Accounts Receivables - Miscellaneous	28,978	56,377
Allowance for Uncollected Accounts	(155,811)	(196,113)
	<b>\$ 1,377,008</b>	<b>\$ 1,846,818</b>
Assessments Receivables	\$ 4,081,291	\$ 4,967,856
Meters, Materials and Supplies	1,119,468	910,548
Prepaid Expenses	469,332	494,358
<b>Total Current Assets</b>	<b>\$ 20,163,476</b>	<b>\$ 21,000,779</b>
<b>Long-Term Assets:</b>		
Property, Plant, and Equipment, net	\$ 108,840,504	\$ 109,049,875
Participation Rights in State Water Project, net	45,450,680	44,966,376
Investment in PRWA	229,923	229,923
2013A Bonds - Insurance & Surety Bond	213,228	213,895
CalPERS Contributions	1,049,702	704,801
	<b>\$ 155,784,038</b>	<b>\$ 155,164,870</b>
<b>Restricted Cash:</b>		
Rate Stabilization Fund	482,218	481,221
<b>Total Long-Term Assets &amp; Restricted Cash</b>	<b>\$ 156,266,255</b>	<b>\$ 155,646,092</b>
<b>Total Assets</b>	<b>\$ 176,429,731</b>	<b>\$ 176,646,870</b>
<b>LIABILITIES AND DISTRICT EQUITY</b>		
<b>Current Liabilities:</b>		
Current Interest Installment of Long-term Debt	\$ 711,330	\$ 530,522
Current Principal Installment of Long-term Debt	490,090	490,090
Accounts Payable and Accrued Expenses	5,831,943	5,689,766
Deferred Assessments	2,916,667	3,500,000
<b>Total Current Liabilities</b>	<b>\$ 9,950,029</b>	<b>\$ 10,210,378</b>
<b>Long-Term Debt:</b>		
Pension-Related Debt	\$ 7,532,748	\$ 9,177,550
OPEB Liability	13,388,544	13,388,544
2013A Water Revenue Bonds	42,455,207	42,457,458
2012 - Certificates of Participation	8,115,502	8,108,704
2011 - Capital Lease Payable	47,286	47,286
<b>Total Long-Term Liabilities</b>	<b>\$ 71,539,287</b>	<b>\$ 73,179,542</b>
<b>Total Liabilities</b>	<b>\$ 81,489,316</b>	<b>\$ 83,389,920</b>
<b>District Equity</b>		
Revenue from Operations	\$ (66,529)	\$ (1,398,446)
Retained Earnings	95,006,944	94,655,397
<b>Total Liabilities and District Equity</b>	<b>\$ 176,429,731</b>	<b>\$ 176,646,870</b>

# BALANCE SHEET AS OF JANUARY 31, 2017



**Palmdale Water District**  
**Consolidated Profit and Loss Statement**  
**For the One Month Ending 1/31/2017**

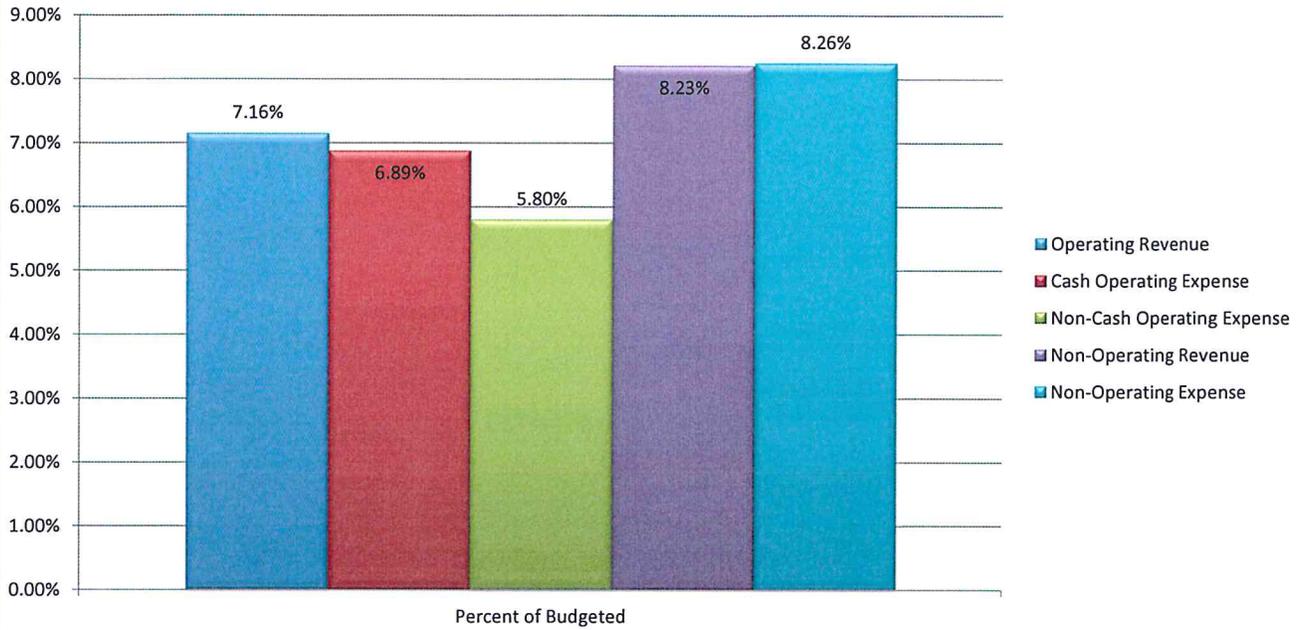
	January	Year-to-Date	Adjustments	Adjusted Budget	% of Budget
<b>Operating Revenue:</b>					
Wholesale Water	\$ 5,562	\$ 5,562		\$ 160,000	3.48%
Water Sales	402,592	402,592		8,002,000	5.03%
Meter Fees	1,051,793	1,051,793		12,475,500	8.43%
Water Quality Fees	42,732	42,732		862,500	4.95%
Elevation Fees	15,756	15,756		340,000	4.63%
Other (Page 3-1)	74,084	74,084		960,000	7.72%
Drought Surcharge	39,241	39,241		-	
<b>Total Operating Revenue</b>	<b>\$ 1,631,760</b>	<b>\$ 1,631,760</b>	<b>\$ -</b>	<b>\$ 22,800,000</b>	<b>7.16%</b>
<b>Cash Operating Expenses:</b>					
Directors	\$ 2,552	\$ 2,552		\$ 115,500	2.21%
Administration-Services*	152,316	152,316	(18,000)	1,925,000	7.91%
Administration-District	21,898	21,898		1,509,500	1.45%
Engineering	105,898	105,898		1,451,500	7.30%
Facilities	458,343	458,343		6,626,000	6.92%
Operations	182,141	182,141		2,546,250	7.15%
Finance	108,571	108,571		1,246,500	8.71%
Water Conservation*	13,366	13,366	2,000	230,000	5.81%
Human Resources*	25,300	25,300	16,000	313,100	8.08%
Information Technology	61,335	61,335		804,750	7.62%
Customer Care	74,169	74,169		1,278,000	5.80%
Source of Supply-Purchased Water	148,391	148,391		2,190,000	6.78%
Plant Expenditures	138,618	138,618		574,292	24.14%
GAC Filter Media Replacement	-	-		862,500	0.00%
<b>Total Cash Operating Expenses</b>	<b>\$ 1,492,899</b>	<b>\$ 1,492,899</b>	<b>\$ -</b>	<b>\$ 21,672,892</b>	<b>6.89%</b>
<b>Net Cash Operating Profit/(Loss)</b>	<b>\$ 138,861</b>	<b>\$ 138,861</b>	<b>\$ -</b>	<b>\$ 1,127,108</b>	<b>12.32%</b>
<b>Non-Cash Operating Expenses:</b>					
Depreciation	\$ 439,866	\$ 439,866		\$ 6,000,000	7.33%
OPEB Accrual Expense	-	-		2,350,000	0.00%
Bad Debts	34,528	34,528		50,000	69.06%
Service Costs Construction	4,387	4,387		125,000	3.51%
Capitalized Construction	(27,567)	(27,567)		(750,000)	3.68%
<b>Total Non-Cash Operating Expenses</b>	<b>\$ 451,213</b>	<b>\$ 451,213</b>	<b>\$ -</b>	<b>\$ 7,775,000</b>	<b>5.80%</b>
<b>Net Operating Profit/(Loss)</b>	<b>\$ (312,352)</b>	<b>\$ (312,352)</b>	<b>\$ -</b>	<b>\$ (6,647,892)</b>	<b>4.70%</b>
<b>Non-Operating Revenues:</b>					
Assessments (Debt Service)	\$ 440,417	\$ 440,417		\$ 5,000,000	8.81%
Assessments (1%)	142,917	142,917		1,957,500	7.30%
DWR Fixed Charge Recovery	-	-		200,000	0.00%
Interest	11,138	11,138		60,000	18.56%
Capital Improvement Fees	4,035	4,035		250,000	1.61%
Grants - State and Federal	-	-		178,000	0.00%
Other	35,530	35,530		60,000	59.22%
<b>Total Non-Operating Revenues</b>	<b>\$ 634,036</b>	<b>\$ 634,036</b>	<b>\$ -</b>	<b>\$ 7,705,500</b>	<b>8.23%</b>
<b>Non-Operating Expenses:</b>					
Interest on Long-Term Debt	\$ 186,021	\$ 186,021		\$ 2,228,000	8.35%
Amortization of SWP	196,894	196,894		2,238,000	8.80%
Change in Investments in PRWA	-	-		100,000	0.00%
Water Conservation Programs	5,298	5,298		135,500	3.91%
<b>Total Non-Operating Expenses</b>	<b>\$ 388,213</b>	<b>\$ 388,213</b>	<b>\$ -</b>	<b>\$ 4,701,500</b>	<b>8.26%</b>
<b>Net Earnings</b>	<b>\$ (66,529)</b>	<b>\$ (66,529)</b>	<b>\$ -</b>	<b>\$ (3,643,892)</b>	<b>1.83%</b>

\* Budget adjustments by General Manager per Appendix A

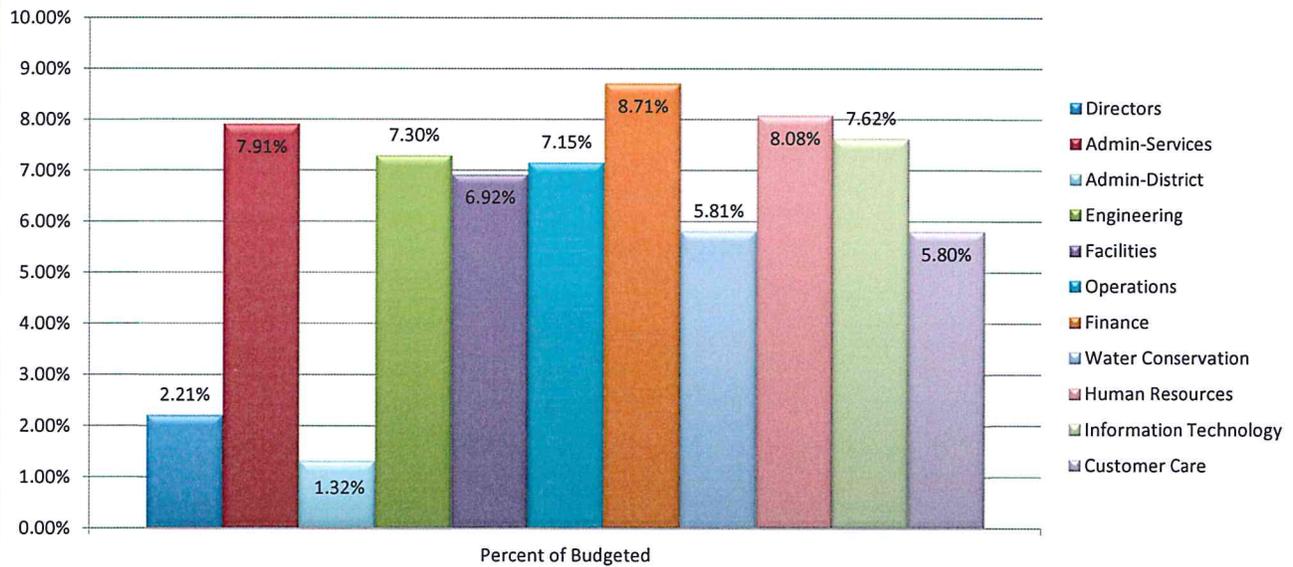
OTHER OPERATING REVENUE
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	Current	YTD
Account Setup Charge(\$25)	\$3,150.00	\$3,150.00
Construction Meter Install(\$250)	\$250.00	\$250.00
Lock Broken or Missing(\$15)	\$15.00	\$15.00
Miscellaneous Charge	\$441.82	\$441.82
Pulled Meter Service Charge(\$60)	\$120.00	\$120.00
Rejected Payment Notification	\$140.00	\$140.00
Repair Angle Stop After Hours(\$600.00)	\$600.00	\$600.00
Repair Angle Stop(\$440.00)	\$2,200.00	\$2,200.00
Shut-Off Charge(\$30)	\$5,910.00	\$5,910.00
Shut-Off Notice Fee (\$5)	\$8,375.00	\$8,375.00
Standard Trip Charge(\$15)	\$75.00	\$75.00
Waste Water 1st Notice(\$50.00)	(\$100.00)	(\$100.00)
Late Fees	\$34,975.17	\$34,975.17
NSF Fee	\$325.00	\$325.00

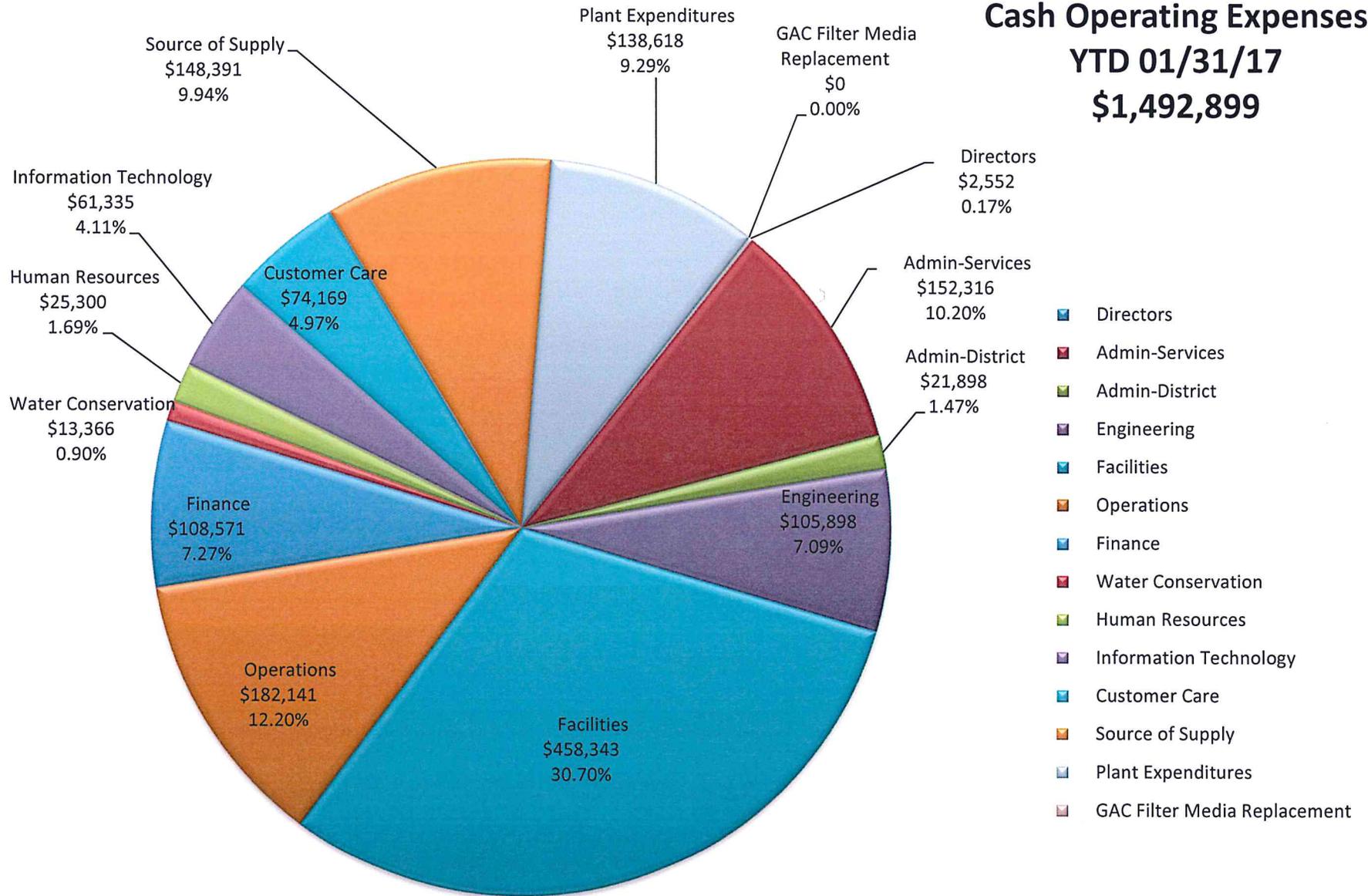
### P & L BUDGET vs. ACTUAL



### DEPARTMENTAL - BUDGET vs. ACTUAL



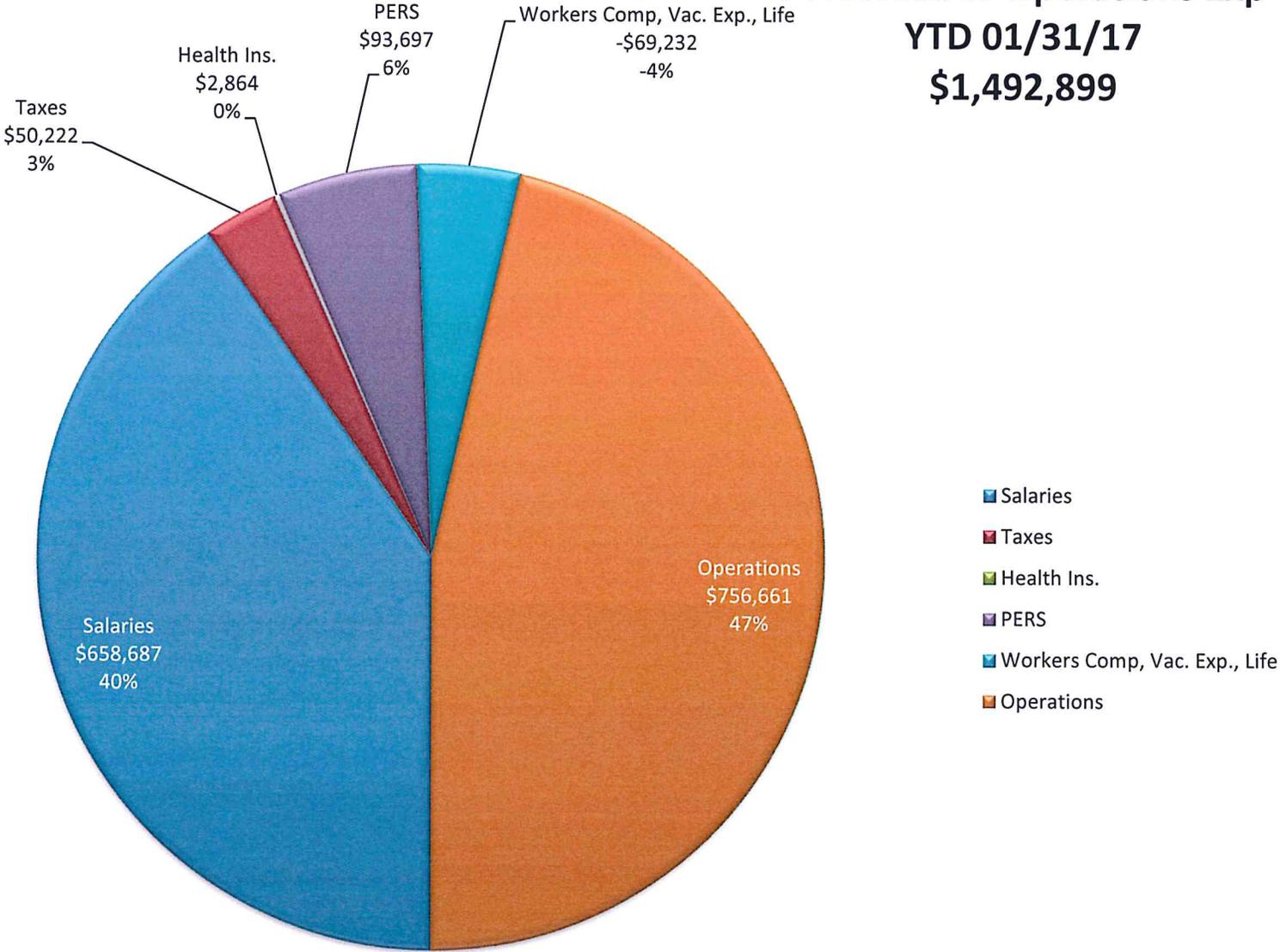
## Cash Operating Expenses YTD 01/31/17 \$1,492,899



# Personnel to Operations Exp

YTD 01/31/17

\$1,492,899



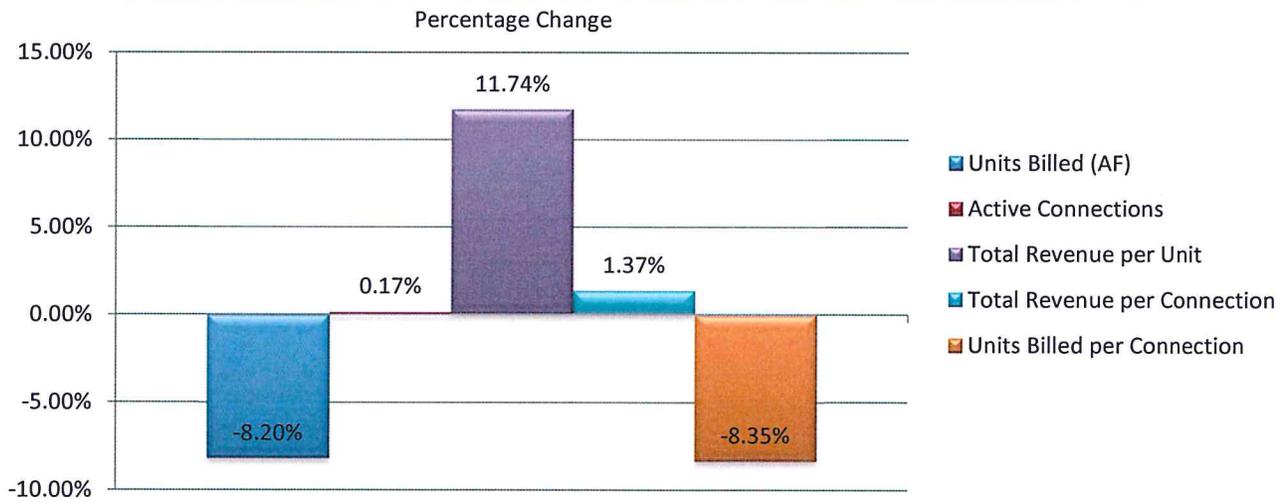
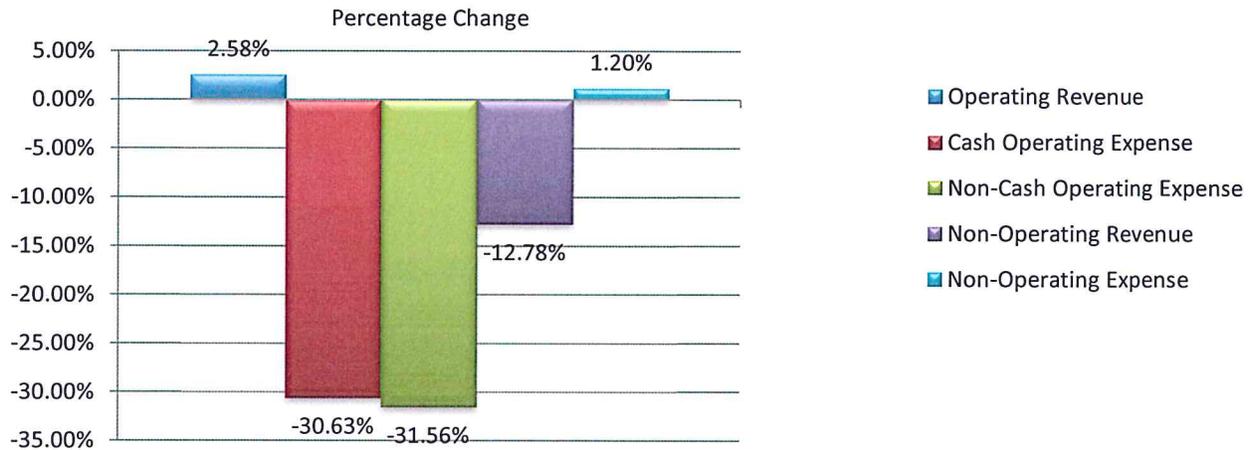
**Palmdale Water District**  
**Profit and Loss Statement**  
**Year-To-Year Comparison - January**

	2016		2017		Consumption Comparison		
	January	January	Change	% Change	Units Billed	2016	2017
<b>Operating Revenue:</b>							
Wholesale Water	\$ -	\$ 5,562	\$ 5,562		Active	26,566	26,610
Water Sales	414,447	402,592	(11,855)	-2.86%	Vacant	828	799
Meter Fees	1,012,419	1,051,793	39,373	3.89%	Rev/unit	\$ 4.10	\$ 4.58
Water Quality Fees	50,437	42,732	(7,704)	-15.28%	Rev/con	\$ 56.29	\$ 57.06
Elevation Fees	18,074	15,756	(2,318)	-12.82%	Unit/con	14.60	13.39
Other	53,826	74,084	20,258	37.64%			
Drought Surcharge	41,510	39,241	(2,269)	-5.47%			
<b>Total Operating Revenue</b>	<b>\$ 1,590,713</b>	<b>\$ 1,631,760</b>	<b>\$ 41,047</b>	<b>2.58%</b>			
<b>Cash Operating Expenses:</b>							
Directors	\$ 14,960	\$ 2,552	\$ (12,408)	-82.94%			
Administration-Services	131,626	152,316	20,690	15.72%			
Administration-District	40,952	21,898	(19,055)	-46.53%			
Engineering	119,019	105,898	(13,121)	-11.02%			
Facilities	501,625	458,343	(43,282)	-8.63%			
Operations	201,242	182,141	(19,100)	-9.49%			
Finance	117,732	108,571	(9,162)	-7.78%			
Water Conservation	25,295	13,366	(11,929)	-47.16%			
Human Resources	40,831	25,300	(15,530)	-38.04%			
Information Technology	45,163	61,335	16,172	35.81%			
Customer Care	137,341	74,169	(63,172)	-46.00%			
Source of Supply-Purchased Water	193,158	148,391	(44,767)	-23.18%			
Plant Expenditures	62,074	138,618	76,545	123.31%			
GAC Filter Media Replacement	521,064	-	(521,064)	-100.00%			
<b>Total Cash Operating Expenses</b>	<b>\$ 2,152,081</b>	<b>\$ 1,492,899</b>	<b>\$ (659,183)</b>	<b>-30.63%</b>			
<b>Non-Cash Operating Expenses:</b>							
Depreciation	\$ 490,865	\$ 439,866	\$ (50,999)	-10.39%			
OPEB Accrual Expense	195,860	-	(195,860)	-100.00%			
Bad Debts	7,258	34,528	27,270	375.71%			
Service Costs Construction	3,017	4,387	1,370	45.40%			
Capitalized Construction	(37,687)	(27,567)	10,120	-26.85%			
<b>Total Non-Cash Operating Expenses</b>	<b>\$ 659,313</b>	<b>\$ 451,213</b>	<b>\$ (208,100)</b>	<b>-31.56%</b>			
<b>Net Operating Profit/(Loss)</b>	<b>\$ (1,220,682)</b>	<b>\$ (312,352)</b>	<b>\$ 908,330</b>	<b>-74.41%</b>			
<b>Non-Operating Revenues:</b>							
Assessments (Debt Service)	\$ 446,708	\$ 440,417	\$ (6,292)	-1.41%			
Assessments (1%)	144,958	142,917	(2,042)	-1.41%			
DWR Fixed Charge Recovery	-	-	-				
Interest	11,150	11,138	(12)	-0.11%			
Capital Improvement Fees	-	4,035	4,035				
Grants - State and Federal	-	-	-				
Other	124,125	35,530	(88,595)	-71.38%			
<b>Total Non-Operating Revenues</b>	<b>\$ 726,942</b>	<b>\$ 634,036</b>	<b>\$ (92,906)</b>	<b>-12.78%</b>			
<b>Non-Operating Expenses:</b>							
Interest on Long-Term Debt	\$ 186,021	\$ 186,021	\$ -	0.00%			
Amortization of SWP	196,894	196,894	-	0.00%			
Change in Investments in PRWA	-	-	-				
Water Conservation Programs	680	5,298	4,618	679.12%			
<b>Total Non-Operating Expenses</b>	<b>\$ 383,595</b>	<b>\$ 388,213</b>	<b>\$ 4,618</b>	<b>1.20%</b>			
<b>Net Earnings</b>	<b>\$ (877,335)</b>	<b>\$ (66,529)</b>	<b>\$ 810,806</b>	<b>-92.42%</b>			

**Palmdale Water District**  
**Profit and Loss Statement**  
**Year-To-Year Comparison-2 Years - January**

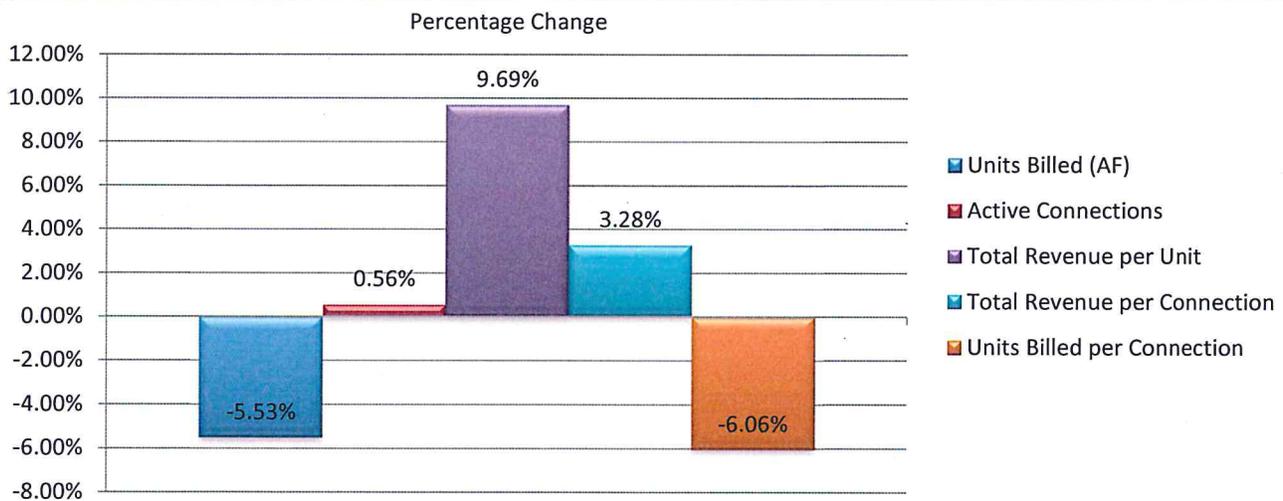
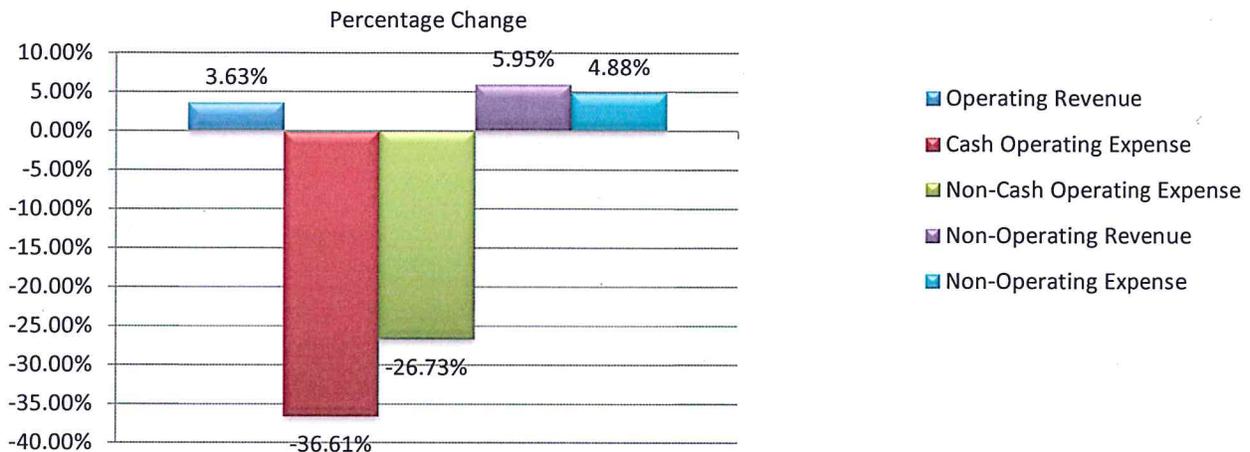
	2015		2017		Consumption Comparison		
	January	January	Change	% Change	Units Billed	2015	2017
<b>Operating Revenue:</b>						377,033	356,179
Wholesale Water	\$ -	\$ 5,562	\$ 5,562		Active	26,462	26,610
Water Sales	425,950	402,592	(23,359)	-5.48%	Vacant	912	799
Meter Fees	964,006	1,051,793	87,786	9.11%	Rev/unit	\$ 4.18	\$ 4.58
Water Quality Fees	52,785	42,732	(10,052)	-19.04%	Rev/con	\$ 55.25	\$ 57.06
Elevation Fees	19,273	15,756	(3,517)	-18.25%	Unit/con	14.25	13.39
Other	112,642	74,084	(38,558)	-34.23%			
Drought Surcharge		39,241	39,241				
<b>Total Operating Revenue</b>	<b>\$ 1,574,657</b>	<b>\$ 1,631,760</b>	<b>\$ 57,103</b>	<b>3.63%</b>			
<b>Cash Operating Expenses:</b>							
Directors	\$ 6,109	\$ 2,552	\$ (3,557)	-58.22%			
Administration-Services	198,674	152,316	(24,460)	-12.31%			
Administration-District	-	21,898					
Engineering	145,508	105,898	(39,610)	-27.22%			
Facilities	452,289	458,343	6,054	1.34%			
Operations	199,438	182,141	(17,297)	-8.67%			
Finance	226,757	108,571	(118,187)	-52.12%			
Water Conservation	22,047	13,366	(8,681)	-39.38%			
Human Resources	32,486	25,300	(7,185)	-22.12%			
Information Technology	86,075	61,335	(24,740)	-28.74%			
Customer Care	24,000	74,169	50,169	209.04%			
Source of Supply-Purchased Water	141,276	148,391	7,115	5.04%			
Plant Expenditures	820,410	138,618	(681,791)	-83.10%			
GAC Filter Media Replacement	-	-	-				
<b>Total Cash Operating Expenses</b>	<b>\$ 2,355,069</b>	<b>\$ 1,492,899</b>	<b>\$ (862,170)</b>	<b>-36.61%</b>			
<b>Non-Cash Operating Expenses:</b>							
Depreciation	\$ 533,397	\$ 439,866	\$ (93,532)	-17.54%			
OPEB Accrual Expense	183,580	-	(183,580)	-100.00%			
Bad Debts	41	34,528	34,486				
Service Costs Construction	(13,622)	4,387	18,009	-132.20%			
Capitalized Construction	(87,535)	(27,567)	59,968	-68.51%			
<b>Total Non-Cash Operating Expenses</b>	<b>\$ 615,861</b>	<b>\$ 451,213</b>	<b>\$ (164,648)</b>	<b>-26.73%</b>			
<b>Net Operating Profit/(Loss)</b>	<b>\$ (1,396,274)</b>	<b>\$ (312,352)</b>	<b>\$ 1,083,922</b>	<b>-77.63%</b>			
<b>Non-Operating Revenues:</b>							
Assessments (Debt Service)	\$ 446,500	\$ 440,417	\$ (6,083)	-1.36%			
Assessments (1%)	141,000	142,917	1,917	1.36%			
DWR Fixed Charge Recovery	-	-	-				
Interest	10,334	11,138	804	7.78%			
Capital Improvement Fees	-	4,035	4,035				
Grants - State and Federal	-	-	-				
Other	608	35,530	34,923	5748.10%			
<b>Total Non-Operating Revenues</b>	<b>\$ 598,442</b>	<b>\$ 634,036</b>	<b>\$ 35,595</b>	<b>5.95%</b>			
<b>Non-Operating Expenses:</b>							
Interest on Long-Term Debt	\$ 190,886	\$ 186,021	\$ (4,865)	-2.55%			
Amortization of SWP	172,877	196,894	24,017	13.89%			
Change in Investments in PRWA	-	-	-				
Water Conservation Programs	6,396	5,298	(1,098)	-17.17%			
<b>Total Non-Operating Expenses</b>	<b>\$ 370,159</b>	<b>\$ 388,213</b>	<b>\$ 18,054</b>	<b>4.88%</b>			
<b>Net Earnings</b>	<b>\$ (1,167,991)</b>	<b>\$ (66,529)</b>	<b>\$ 1,101,462</b>	<b>-94.30%</b>			

# YEAR-TO-YEAR COMPARISON January 2016 -To - January 2017



	2016	2017	Change	
Units Billed (AF)	891	818	-73	-8.20%
Active Connections	26,566	26,610	44	0.17%
Non-Active	828	799	-29	-3.50%
Total Revenue per Unit	\$4.10	\$4.58	\$0.48	11.74%
Total Revenue per Connection	\$56.29	\$57.06	\$0.77	1.37%
Units Billed per Connection	14.60	13.39	-1.22	-8.35%

# YEAR-TO-YEAR COMPARISON January 2015 -To - January 2017



	2015	2017	Change	
Units Billed (AF)	866	818	-48	-5.53%
Active Connections	26,462	26,610	148	0.56%
Non-Active	912	799	-113	-12.39%
Total Revenue per Unit	\$4.18	\$4.58	\$0.40	9.69%
Total Revenue per Connection	\$55.25	\$57.06	\$1.81	3.28%
Units Billed per Connection	14.25	13.39	-0.86	-6.06%

**Palmdale Water District**  
**Revenue Analysis**  
**For the One Month Ending 1/31/2017**  
**2017**

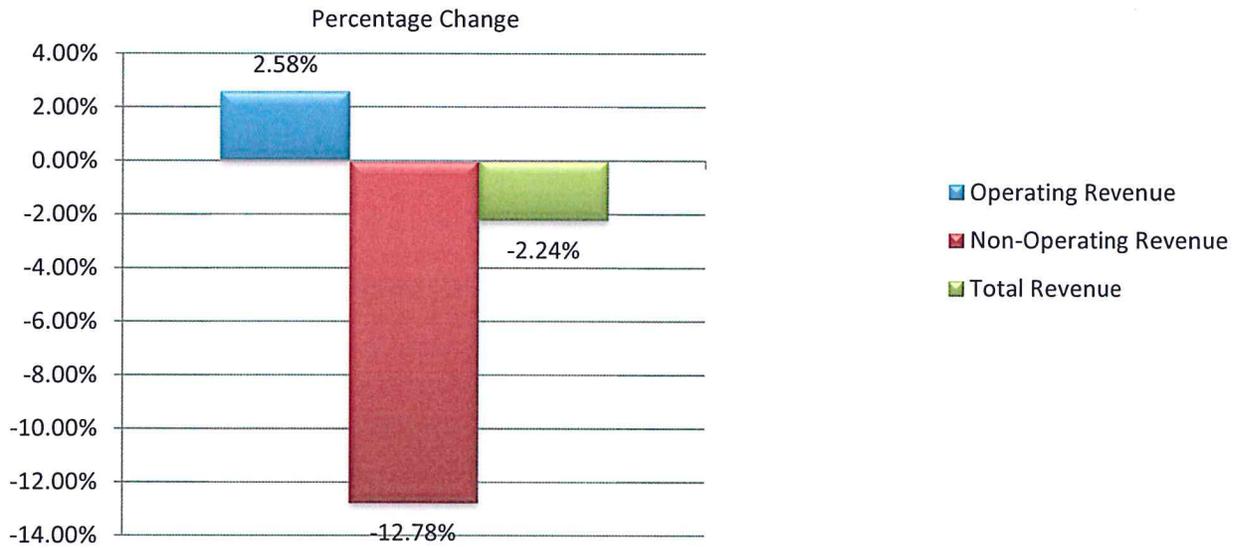
**2016 to 2017 Comparison**

	2017		Adjusted Budget	% of Budget	2016 to 2017 Comparison		
	January	Year-to-Date			January	Year-to-Date	% Change
<b>Operating Revenue:</b>							
Wholesale Water	\$ 5,562	\$ 5,562	\$ 160,000	3.48%	\$ 5,562	\$ 5,562	
Water Sales	402,592	402,592	8,002,000	5.03%	(11,855)	(11,855)	-2.86%
Meter Fees	1,051,793	1,051,793	12,475,500	8.43%	39,373	39,373	3.89%
Water Quality Fees	42,732	42,732	862,500	4.95%	(7,704)	(7,704)	-15.28%
Elevation Fees	15,756	15,756	340,000	4.63%	(2,318)	(2,318)	-12.82%
Other	74,084	74,084	960,000	7.72%	20,258	20,258	37.64%
Drought Surcharge	39,241	39,241	-		(2,269)	(2,269)	-5.47%
<b>Total Water Sales</b>	<b>\$ 1,631,760</b>	<b>\$ 1,631,760</b>	<b>\$ 22,800,000</b>	<b>7.16%</b>	<b>\$ 41,047</b>	<b>\$ 41,047</b>	<b>2.58%</b>
<b>Non-Operating Revenues:</b>							
Assessments (Debt Service)	\$ 440,417	\$ 440,417	\$ 5,000,000	8.81%	\$ (6,292)	\$ (6,292)	-1.41%
Assessments (1%)	142,917	142,917	1,957,500	7.30%	(2,042)	(2,042)	-1.41%
DWR Fixed Charge Recovery	-	-	200,000	0.00%	-	-	
Interest	11,138	11,138	60,000	18.56%	(12)	(12)	-0.11%
Capital Improvement Fees	4,035	4,035	250,000	1.61%	4,035	4,035	
Grants - State and Federal	-	-	178,000	0.00%	-	-	
Other	35,530	35,530	60,000	59.22%	(88,595)	(88,595)	-71.38%
<b>Total Non-Operating Revenues</b>	<b>\$ 634,036</b>	<b>\$ 634,036</b>	<b>\$ 7,705,500</b>	<b>8.23%</b>	<b>\$ (92,906)</b>	<b>\$ (92,906)</b>	<b>-12.78%</b>
<b>Total Revenue</b>	<b>\$ 2,265,796</b>	<b>\$ 2,265,796</b>	<b>\$ 30,505,500</b>	<b>7.43%</b>	<b>\$ (51,858)</b>	<b>\$ (51,858)</b>	<b>-2.24%</b>

	2016		Adjusted Budget	% of Budget
	January	Year-to-Date		
<b>Operating Revenue:</b>				
Wholesale Water	\$ -	\$ -	\$ 160,000	0.00%
Water Sales	414,447	414,447	7,242,000	5.72%
Meter Fees	1,012,419	1,012,419	12,079,000	8.38%
Water Quality Fees	50,437	50,437	934,500	5.40%
Elevation Fees	18,074	18,074	400,000	4.52%
Other	53,826	53,826	860,000	6.26%
Drought Surcharge	41,510	41,510	-	
<b>Total Water Sales</b>	<b>\$ 1,590,713</b>	<b>\$ 1,590,713</b>	<b>\$ 21,515,500</b>	<b>7.39%</b>
<b>Non-Operating Revenues:</b>				
Assessments (Debt Service)	\$ 446,708	\$ 446,708	\$ 4,670,000	9.57%
Assessments (1%)	144,958	144,958	2,025,000	7.16%
DWR Fixed Charge Recovery	-	-	200,000	0.00%
Interest	11,150	11,150	35,000	31.86%
Capital Improvement Fees	-	-	50,000	0.00%
Grants - State and Federal	-	-	485,000	
Other	124,125	124,125	120,000	103.44%
<b>Total Non-Operating Revenues</b>	<b>\$ 726,942</b>	<b>\$ 726,942</b>	<b>\$ 7,585,000</b>	<b>9.58%</b>
<b>Total Revenue</b>	<b>\$ 2,317,655</b>	<b>\$ 2,317,655</b>	<b>\$ 29,100,500</b>	<b>7.96%</b>

# REVENUE COMPARISON YEAR-TO-DATE

January 2016-To-January 2017



**Palmdale Water District  
Operating Expense Analysis  
For the One Month Ending 1/31/2017  
2017**

**2016 to 2017 Comparison**

	2017				2016 to 2017 Comparison		
	January	Year-to-Date	Adjusted Budget	% of Budget	January	Year-to-Date	% Change
<b>Cash Operating Expenses:</b>							
Directors	\$ 2,552	\$ 2,552	\$ 115,500	2.21%	\$ (12,408)	\$ (12,408)	-82.94%
Administration-Services	152,316	152,316	1,943,000	7.84%	20,690	20,690	15.72%
Administration-District	21,898	21,898	1,509,500	1.45%	(19,055)	(19,055)	-46.53%
Engineering	105,898	105,898	1,451,500	7.30%	(13,121)	(13,121)	-11.02%
Facilities	458,343	458,343	6,626,000	6.92%	(43,282)	(43,282)	-8.63%
Operations	182,141	182,141	2,546,250	7.15%	(19,100)	(19,100)	-9.49%
Finance	108,571	108,571	1,246,500	8.71%	(9,162)	(9,162)	-7.78%
Water Conservation	13,366	13,366	228,000	5.86%	(11,929)	(11,929)	-47.16%
Human Resources	25,300	25,300	297,100	8.52%	(15,530)	(15,530)	-38.04%
Information Technology	61,335	61,335	804,750	7.62%	16,172	16,172	35.81%
Customer Care	74,169	74,169	1,278,000	5.80%	(63,172)	(63,172)	-46.00%
Source of Supply-Purchased Water	148,391	148,391	2,190,000	6.78%	(44,767)	(44,767)	-23.18%
Plant Expenditures	138,618	138,618	574,292	24.14%	76,545	76,545	123.31%
GAC Filter Media Replacement	-	-	862,500	0.00%	(521,064)	(521,064)	-100.00%
<b>Total Cash Operating Expenses</b>	<b>\$ 1,492,899</b>	<b>\$ 1,492,899</b>	<b>\$ 21,672,892</b>	<b>6.89%</b>	<b>\$ (659,183)</b>	<b>\$ (659,183)</b>	<b>-44.15%</b>
<b>Non-Cash Operating Expenses:</b>							
Depreciation	\$ 439,866	\$ 439,866	\$ 6,000,000	7.33%	\$ (50,999)	\$ (50,999)	-10.39%
OPEB Accrual Expense	-	-	2,350,000	0.00%	(195,860)	(195,860)	-100.00%
Bad Debts	34,528	34,528	50,000	69.06%	27,270	27,270	375.71%
Service Costs Construction	4,387	4,387	125,000	3.51%	1,370	1,370	45.40%
Capitalized Construction	(27,567)	(27,567)	(750,000)	3.68%	10,120	10,120	-26.85%
<b>Total Non-Cash Operating Expenses</b>	<b>\$ 451,213</b>	<b>\$ 451,213</b>	<b>\$ 7,775,000</b>	<b>5.80%</b>	<b>\$ (208,100)</b>	<b>\$ (208,100)</b>	<b>-46.12%</b>
<b>Non-Operating Expenses:</b>							
Interest on Long-Term Debt	\$ 186,021	\$ 186,021	\$ 2,228,000	8.35%	\$ -	\$ -	0.00%
Amortization of SWP	196,894	196,894	2,238,000	8.80%	-	-	0.00%
Change in Investments in PRWA	-	-	100,000		-	-	
Water Conservation Programs	5,298	5,298	135,500	3.91%	4,618	4,618	679.12%
<b>Total Non-Operating Expenses</b>	<b>\$ 388,213</b>	<b>\$ 388,213</b>	<b>\$ 4,701,500</b>	<b>8.26%</b>	<b>\$ 4,618</b>	<b>\$ 4,618</b>	<b>1.20%</b>
<b>Total Expenses</b>	<b>\$ 2,332,325</b>	<b>\$ 2,332,325</b>	<b>\$ 34,149,392</b>	<b>6.83%</b>	<b>\$ (862,665)</b>	<b>\$ (862,665)</b>	<b>-27.00%</b>

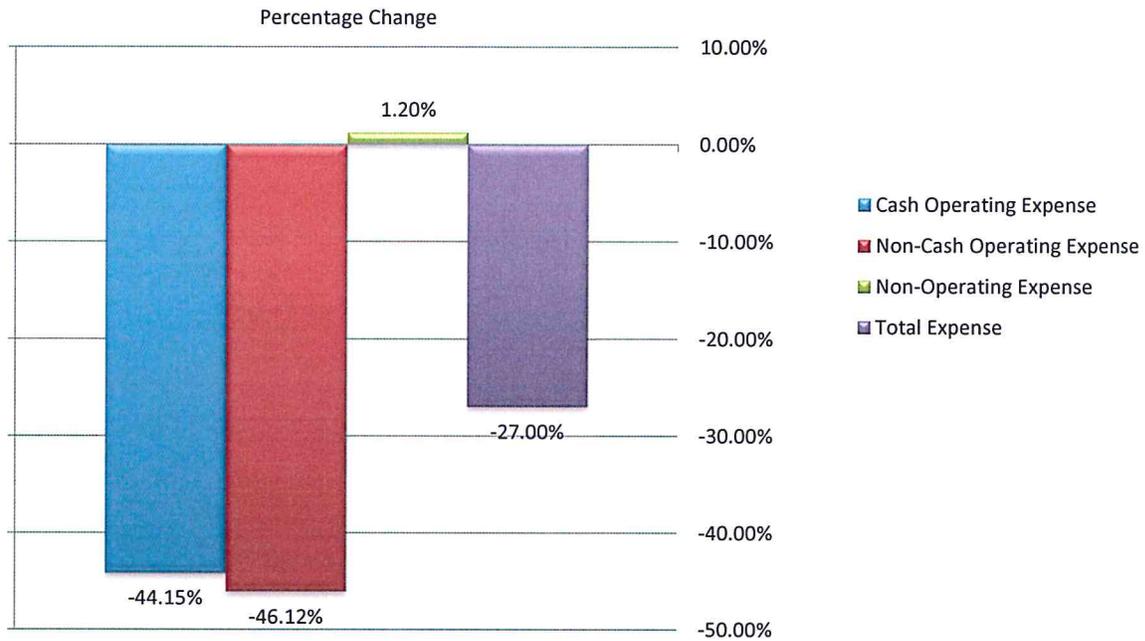
**Palmdale Water District  
Operating Expense Analysis  
For the One Month Ending 1/31/2017  
2016**

2016 to 2017 Comparison

	January	Year-to-Date	Adjusted Budget	% of Budget
<b>Cash Operating Expenses:</b>				
Directors	\$ 14,960	\$ 14,960	\$ 145,750	10.26%
Administration-Services	131,626	131,626	1,588,750	8.28%
Administration-District	40,952	40,952	1,612,750	2.54%
Engineering	119,019	119,019	1,279,250	9.30%
Facilities	501,625	501,625	6,513,750	7.70%
Operations	201,242	201,242	2,449,250	8.22%
Finance	117,732	117,732	1,168,250	10.08%
Water Conservation	25,295	25,295	239,250	10.57%
Human Resources	40,831	40,831	420,350	9.71%
Information Technology	45,163	45,163	867,750	5.20%
Customer Care	137,341	137,341	1,386,750	9.90%
Source of Supply-Purchased Water	193,158	193,158	1,725,000	11.20%
Plant Expenditures	62,074	62,074	-	
GAC Filter Media Replacement	521,064	521,064	934,500	55.76%
<b>Total Cash Operating Expenses</b>	<b>\$ 2,152,081</b>	<b>\$ 2,152,081</b>	<b>\$ 20,331,350</b>	<b>10.59%</b>
<b>Non-Cash Operating Expenses:</b>				
Depreciation	\$ 490,865	\$ 490,865	\$ 7,200,000	6.82%
OPEB Accrual Expense	195,860	195,860	2,250,000	8.70%
Bad Debts	7,258	7,258	50,000	14.52%
Service Costs Construction	3,017	3,017	125,000	2.41%
Capitalized Construction	(37,687)	(37,687)	(1,000,000)	3.77%
<b>Total Non-Cash Operating Expenses</b>	<b>\$ 659,313</b>	<b>\$ 659,313</b>	<b>\$ 8,625,000</b>	<b>7.64%</b>
<b>Non-Operating Expenses:</b>				
Interest on Long-Term Debt	\$ 186,021	\$ 186,021	\$ 2,228,000	8.35%
Amortization of SWP	196,894	196,894	2,238,000	8.80%
Change in Investments in PRWA	-	-	-	
Water Conservation Programs	680	680	126,500	0.54%
<b>Total Non-Operating Expenses</b>	<b>\$ 383,595</b>	<b>\$ 383,595</b>	<b>\$ 4,592,500</b>	<b>8.35%</b>
<b>Total Expenses</b>	<b>\$ 3,194,990</b>	<b>\$ 3,194,990</b>	<b>\$ 33,548,850</b>	<b>9.52%</b>

# EXPENSE COMPARISON YEAR-TO-DATE

## January 2016-To-January 2017



**Palmdale Water District**  
**2017 Capital Projects - Contractual Commitments and Needs**

**AGENDA ITEM NO. 7.5**

**New and Replacement Capital Projects**

Budget Year	Work Order	Project Title	Project Type	Estimated Expense	Contractor	Approved Contract Amount	Board / Manager Approval	Payments Approved to Date	Contract Balance	Through Dec. 2016	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	2017 Total	
2017	14-603	Upper Amargosa Recharge Project	Water Supply		City of Palmdale	\$ 1,250,000	12/4/2013	\$ 129,215	\$ 1,120,785	129,215					300,000					300,000			600,000	
2017	16-408	Water Meter Replacement Projects (Spec 1602) - Purchase	Replacement Cap.		Inland Water Works	\$ 439,419	10/10/2016	\$ 329,345	\$ 110,074	110,758	109,294	109,293	110,074											
2017	12-609	Ave. Q-1, Q-2, Q-3 Water Main Replacement (Spec 1211)	Replacement Cap.		Bob O Const.	\$ 57,500	10/12/2016	\$ 54,625	\$ 2,875	42,750		11,875		2,875										
2017	16-408	Water Meter Replacement Projects (Spec 1602) - Installation	Replacement Cap.		Bob O Const.	\$ 144,442	10/12/2016	\$ 40,472	\$ 103,970				40,472	35,000	35,000	33,970							144,442	
2017	15-615	Well No. 15 Rehabilitation - Water Quality	Replacement Cap.		Layne	\$ 114,826	10/26/2016	\$ 114,826	\$ -		114,826												114,826	
2017	16-609	Board Room Video Upgrades	Replacement Cap.		CWI/Backyard Images	\$ 60,000	10/26/2016	\$ 57,016	\$ 2,984	28,508	28,508			2,984									31,492	
2017	16-415	El Camino Underground Booster - 40hp	Replacement Cap.		Roadrunner Pump	\$ 16,196	11/1/2016	\$ 16,196	\$ -	10,531	5,665												5,665	
2017	16-610	Well No. 18 Rehabilitation	Replacement Cap.		Roadrunner Pump	\$ 17,418	11/2/2016	\$ 17,418	\$ -		15,074		2,344										17,418	
2017	16-364	75 hp - Underground Booster Station	Replacement Cap.		Roadrunner Pump	\$ 5,665	1/25/2017	\$ 5,665	\$ -		5,665												5,665	
2017	15-612	El Camino Watermain Replacement - Paving	Replacement Cap.		ANM	\$ 36,700	1/31/2017	\$ 36,700	\$ -			36,700											36,700	
2017	16-612	Well No. 8A Rehabilitation - Emergency	Replacement Cap.		Best Drilling and Pump, Inc.	\$ 135,414	1/23/2017	\$ 59,085	\$ 76,329			14,820	44,265	45,000	31,329								135,414	
2017		Washwater Return Pump Replacement	Replacement Cap.		Rockwell/Electric Motors	\$ 20,802	2/15/2017	\$ 20,802	\$ -				20,802										20,802	
2017	16-613	Flow Meter for WTP Domestic and Process Tracking	New Capital		PWD			\$ -	\$ -														0	
2017	17-320	Hydro-Electric Generator Repair	Replacement Cap.		CED	\$ 1,000		\$ -	\$ 1,000														0	
2017	16-286	3600' Back-up Booster Pump	Replacement Cap.		Roadrunner Pump			\$ -	\$ -			1,871											1,871	
2017	17-260	Wind Turbine and Interconnection Repairs	Replacement Cap.		Hot-Line/Worldwind	\$ 55,655	2/1/2017	\$ 47,655	\$ 8,000			47,655	8,000										55,655	
2017	12-400	PRGRRP - Construction of Monitoring Wells / Test Basin	Water Supply	\$ 300,000				\$ -	\$ -						100,000	75,000	100,000	25,000					300,000	
2017	15-611	Camares and Avenue S-14 Water Main Replacement (Spec 1502)	Replacement Cap.	\$ 110,000				\$ -	\$ -						50,000	10,000	50,000						110,000	
2017	15-613	Avenue V-5 Water Main Replacement (Spec 1504)	Replacement Cap.	\$ 45,000				\$ -	\$ -								25,000	20,000					45,000	
2017	16-411	Clearwell 2950' Discharge Piping and Valve	Replacement Cap.	\$ 35,000	Jifco	\$ 3,054	3/1/2017	\$ 3,054	\$ -				3,054										3,054	
2017	16-605	Additional Brine Tank @ WTP	New Capital	\$ 90,000				\$ -	\$ -					45,000	45,000								90,000	
2017	16-607	2800' Booster No. 1 and 3 Repair	Replacement Cap.	\$ 40,000				\$ -	\$ -					40,000									40,000	
2017	16-608	Ave. Q-1, Q-2, Q-3, Q-4, and Q-5 @ 5th St. E. Water Main Repl. (Spec 1603)	Replacement Cap.	\$ 25,000				\$ -	\$ -										25,000				25,000	
2017	16-611	CL2 Monitoring @ Well Sites	Regulatory	\$ 110,000				\$ -	\$ -	4,526				25,000	25,000	25,000	35,000						110,000	
2017		Well No. 6A Rehabilitation	Replacement Cap.	\$ 75,000				\$ -	\$ -					45,000	30,000								75,000	
2017		Well No. 29 Rehabilitation	Replacement Cap.	\$ 60,000				\$ -	\$ -					30,000	30,000								60,000	
2017		Well No. 35 Rehabilitation	Replacement Cap.	\$ 60,000				\$ -	\$ -					30,000	30,000								60,000	
2017	17-600	Entry Buildings @ Filter and GAC Pipe Gallery Entrance	Safety	\$ 28,500				\$ -	\$ -					28,500									28,500	
2017		Water Meter Replacement Program for 2017	Replacement Cap.	\$ 700,000				\$ -	\$ -											200,000	200,000	200,000	100,000	700,000
2017		Parking Lot Resurfacing	Replacement Cap.	\$ 110,000				\$ -	\$ -								110,000						110,000	
2017		WTP Control Room Upgrades	Replacement Cap.	\$ 35,000				\$ -	\$ -					20,000	15,000								35,000	
2017	15-614	Drainage Improvements @ WTP	New Capital	\$ 80,000				\$ -	\$ -							80,000							80,000	
2018	16-602	Avenue P and 25th Water Main Replacement (Spec 1601)	Replacement Cap.	\$ 48,000				\$ -	\$ -														0	
2018	12-611	Avenue P-8 Water Main Replacement	Replacement Cap.	\$ 145,000				\$ -	\$ -														0	
2018		Ave. P-12, Division, 2nd, 3rd, Stanridge Water Main Repl.	Replacement Cap.	\$ 750,000				\$ -	\$ -														0	
2018		Sierra Hwy. Tie-In and Abandonment	Replacement Cap.	\$ 15,000				\$ -	\$ -														0	
2018		13th Street East and Avenue R Water Main Replacement	Replacement Cap.	\$ 48,000				\$ -	\$ -														0	
2018		Ave. Q-14 and 17th Street East Water Main Replacement	Replacement Cap.	\$ 45,000				\$ -	\$ -														0	
2018		Ave. Q-10 and 12th Street East Water Main Replacement	Replacement Cap.	\$ 15,000				\$ -	\$ -														0	
2018		Protective Coatings on WTP Structures	Replacement Cap.	\$ 100,000				\$ -	\$ -														0	
2018		Electric Car Charging Station	New Capital	\$ 7,000				\$ -	\$ -														0	
2018		Well, Booster, and Remote Site System Improvements	Replacement Cap.	\$ 500,000				\$ -	\$ -														0	
2018		WTP Infrastructure and Process/Equipment Repairs	Replacement Cap.	\$ 75,000				\$ -	\$ -														0	
2018-2020		Replacement of Structural Support Beams - WTP Sed. Basins	Replacement Cap.	\$ 300,000				\$ -	\$ -														0	
								\$ -	\$ -														0	
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**Palmdale Water District**  
**2017 Capital Projects - Contractual Commitments and Needs**

**AGENDA ITEM NO. 4.4**

**Consulting and Engineering Support**

Budget Year	Work Order	Project Title	Project Type	Estimated Expense	Consultant	Approved Contract Amount	Board / Manager Approval	Payments Approved to Date	Contract Balance	Through Dec. 2016	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	2017 Total	
2017	12-400	PRGRRP - CEQA, Permitting, Pre-Design, and Pilot	Water Supply		Kennedy/Jenks	\$ 1,627,000	5/12/2016	\$ 1,333,880	\$ 293,120	1,293,991		39,889		20,000	100,000	100,000	73,120							333,009
2017	16-412	Well CT Study	Regulatory		Carollo	\$ 9,700	9/14/2016	\$ 8,245	\$ 1,455	8,245				1,455										1,455
2017	04-501	Littlerock Sediment Removal Project (EIR/EIS/Permitting)	Water Supply		Aspen	\$ 869,023	9/14/2016	\$ 721,261	\$ 147,762	671,136		10,988	39,137	50,000	50,000	47,762								197,888
2017	04-501	Littlerock Sediment Removal (Cost Recovery Agreement)	Permitting		Forest Service	\$ 100,000	9/28/2016	\$ -	\$ 100,000					100,000										100,000
2017	15-403	Water Mangement Information System Database	Record Management		DCSE	\$ 12,000	10/26/2016	\$ -	\$ 12,000					12,000										12,000
2017	14-404	Water System Master Plan - CEQA	Facilities Planning		ESA	\$ 174,715	11/9/2016	\$ 6,552	\$ 168,163			2,230	4,322	30,000	30,000	20,000	20,000	20,000	48,164					174,716
2017		WTP Process Evaluation (As-Needed)	Regulatory		Carollo	\$ 35,000	1/11/2017	\$ -	\$ 35,000					15,000	10,000	10,000								35,000
2017	04-501	Littlerock Sediment Removal Project - Design Grade Control Structure	Water Supply	\$ 350,000		\$ -		\$ -	\$ -															0
2017		Sanitary Survey Update	Regulatory	\$ 50,000		\$ -		\$ -	\$ -								10,000	10,000	10,000	10,000	10,000			50,000
2018		System Valuation Study	Financial Planning	\$ 30,000		\$ -		\$ -	\$ -															0
2018		Electrical Engineering (As-Needed)	Facilities Design	\$ 10,000		\$ -		\$ -	\$ -															0
2018		Energy Storage - Feasibility and Pilot Study	Savings/Efficiency	\$ 50,000		\$ -		\$ -	\$ -															0
				Sub-Totals:		\$ 490,000		\$ 2,827,438	\$ 2,069,938	\$ 757,500	1,973,372	-	53,107	43,459	228,455	190,000	177,762	103,120	30,000	58,164	10,000	10,000	-	904,067

**New and Replacement Equipment**

Budget Year	Work Order	Project Title	Project Type	Estimated Expense	Vendor/Supplier	Approved Contract Amount	Board / Manager Approval	Payments Approved to Date	Contract Balance	Through Dec. 2016	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	2017 Total	
2017	16-413	CIS Software Replacement (Holman Capital Financed)	Replacement Equip.		TruePoint	\$ 475,000	9/14/2016	\$ 97,099	\$ 377,901	50,000	78,284	48,593	42,405	50,000	50,000	50,000	50,000	48,123						417,405
2017	17-402	Security Improvements @ WTP (Holman Capital Financed) Spec. No. 1702	Safety		Siemens	\$ 225,674	2/8/2017	\$ -	\$ 225,674					50,000	50,000	50,000	50,000	25,674						225,674
2017	N/A	Increased Data Storage to Support CMS and Growth (Holman Capital Financed)	New Equipment			\$ 98,000	1/26/2017	\$ -	\$ 98,000					98,000										98,000
2017	N/A	IVR (Holman Capital Financed)	Replacement Equip.		PALITTO	\$ 16,000	1/26/2017	\$ 7,797	\$ 8,203			7,797		8,203										16,000
2017	N/A	Payment Kiosk for Customer Care Lobby (Holman Capital Financed)	Replacement Equip.		ADCOMP	\$ 21,000	1/26/2017	\$ 20,425	\$ 575			20,425		575										21,000
2017	N/A	LIMS - Laboratory Information Management System (Holman Capital Financed)	Replacement Equip.		Promium	\$ 40,600	2/8/2017	\$ -	\$ 40,600					15,000	15,000	18,000								48,000
2018		Water Meter Calibration Bench	New Equipment	\$ 10,000		\$ -		\$ -	\$ -															0
2017		Power Broom Attachment	New Equipment	\$ 9,000		\$ -		\$ -	\$ -															0
2018		Online Forms	New Equipment	\$ 25,000		\$ -		\$ -	\$ -															0
2018		Customer Texting / Mass Communication - Everbridge	New Equipment	\$ 30,000		\$ -		\$ -	\$ -															0
2018		Conference Bridge - Shoretel	New Equipment	\$ 25,000		\$ -		\$ -	\$ -															0
2018		Data Center UPS - Whole Room UPS	New Equipment	\$ 25,000		\$ -		\$ -	\$ -															0
				Sub-Totals:		\$ 124,000		\$ 876,274	\$ 125,321	\$ 750,953	50,000	78,284	76,815	42,405	221,778	115,000	118,000	100,000	73,797	0	0	0	0	826,079

**Water Quality Fee Funded Projects**

Budget Year	Work Order	Project Title	Project Type	Estimated Expense	Vendor/Supplier	Approved Contract Amount	Board / Manager Approval	Payments Approved to Date	Contract Balance	Through Dec. 2016	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	2017 Total	
2017	17-401	GAC Replacements @ WTP	Water Quality	\$ 570,000	Calgon Carbon	\$ 570,000	7/9/2014	\$ 169,477	\$ 400,523				169,477	190,000							190,000			549,477
2017	17-402	GAC Replacement @ Underground Booster Station	Water Quality	\$ 65,000	Evoqua	\$ 185,000	3/10/2017	\$ -	\$ 185,000						185,000		65,000							250,000
2017	17-403	Filter Media Testing/Inspection	Water Quality	\$ 30,000	ERS	\$ 30,000	2/10/2017	\$ -	\$ -					30,000										30,000
2017	17-404	Replacement Lab Equipment - GCMS/Autosampler	Regulatory		Agilent	\$ 121,780	1/11/2017	\$ 121,780	\$ -			121,780	3,262											125,042
				Sub-Totals:		\$ 665,000		\$ 906,780	\$ 291,257	\$ 585,523			121,780	172,739	220,000	185,000	-	65,000	-	-	190,000	-	-	954,519

Summary (W/O GAC)	Totals	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	2017 Total
<b>Total Approved Contracts to Date</b>	\$ 6,061,802													
<b>Total Payments on Approved Contracts to Date</b>	\$ 3,127,332													
<b>Total Contract Balance to Date</b>	\$ 2,934,470													
<b>Non-Operating Capital Expenditures (Committed)</b>	\$ 2,850,095	357,314	352,136	311,821	536,092	671,329	329,732	193,120	93,797	48,164	300,000	0	0	2,850,095
<b>Non-Operating Capital Expenditures (Projected)</b>	\$ 2,104,554	0	0	3,054	233,500	325,000	220,000	330,000	55,000	235,000	210,000	210,000	100,000	2,104,554
<b>Funding Through Series 2013A WRB</b>	\$ 330,503	-22,454	-50,877	-100,000	-100,000	-100,000	-30,503							-403,835
<b>Funding Through Holman Capital</b>	\$ 667,902	-78,284	-76,815	-196,000	-166,000	-71,000	-150,000	-15,000	-69,902					-823,000
<b>Funding Through 2017 Budgeted Non-Operating Capital Ex.</b>	\$ 3,727,814	256,577	224,444	18,875	503,592	825,329	369,229	508,120	78,895	283,164	510,000	210,000	100,000	3,727,814

# Water Revenue Bond - Series 2013A

Updated: March 16, 2017

Project	Work Order	Description	Allocated Based on Bond	Contractual Commitment	Payout to Date	Grant Funds/Operating Budget	Uncommitted Bond \$
Spec. 1204	603-12	Ave. Q - Q-3, Division and Sumac	\$ 725,000	\$ 765,085	\$ 765,085	\$ -	\$ (40,085)
Spec. 1201	606-11	20th, Puerta, Sweetbriar, and 22nd St. E.	\$ 1,450,000	\$ 1,487,261	\$ 1,487,261	\$ -	\$ (37,261)
Spec. 1205	605-12	Frontier, 31st St. E., etc. between Ave. Q and Q-4	\$ 1,200,000	\$ 1,291,539	\$ 1,291,539	\$ 485,000	\$ (91,539)
Spec. 1207	607-12	10th St. E. between Ave. P and Palmdale Blvd.	\$ 1,400,000	\$ 1,327,806	\$ 1,327,806	\$ -	\$ 72,194
LRDSR	501-04	Littlerock Sediment Removal (EIR/EIS/Permits)	\$ 975,000	\$ 869,023	\$ 721,212	\$ -	\$ 105,977
LCGRRP	400-12	Littlerock Recharge and Recovery (Feasibility)	\$ 1,500,000	\$ 769,891	\$ 769,891	\$ -	\$ 730,109
UAR	TBD	Upper Amargosa Recharge (Project Capacity)	\$ 1,250,000	\$ 1,250,000	\$ 129,215	\$ 668,589	\$ -
Spec. 0905	601-09	15th St. E. between Ave. P and Ave. Q (Material)	\$ -	\$ 362,984	\$ 362,984	\$ -	\$ (362,984)
PRGRRP	501-04	Palmdale Regional Recharge and Recovery (Permits)	\$ -	\$ 1,530,000	\$ 1,333,880		\$ (1,530,000)
<b>Totals:</b>			<b>\$ 8,500,000</b>	<b>\$ 9,653,589</b>	<b>\$ 8,188,874</b>	<b>\$ 1,153,589</b>	<b>\$ (1,153,589)</b>

Requisition No.	Payee	Date Approved	Invoice No.	Project	Payment Amount
2	Issuance Costs	Jul 8, 2013	N/A	WRB	\$ 24,815.84
3	BV Construction - Progress Payment #1	Jul 9, 2013	1	Spec. 1204	\$ 98,552.53
4	JT Eng. - Design Progress Payment	Jul 17, 2013	5187	Spec. 1207	\$ 9,108.00
5	BV Construction - Progress Payment #2	Aug 5, 2013	2	Spec. 1204	\$ 145,175.44
6	BV Construction - Progress Payment #3-4	Sep 4, 2013	3 and 4	Spec. 1204	\$ 167,790.43
7	Aspen - EIR/EIS Progress Payment	Sep 30, 2013	1116.002-01	LRDSR	\$ 18,499.60
8	BV Construction - Progress Payment #5	Sep 30, 2013	5	Spec. 1204	\$ 46,862.08
9	BV Construction - Progress Payment #6	Oct 24, 2013	6	Spec. 1204	\$ 51,052.05
10	Aspen - EIR/EIS Progress Payment	Oct 24, 2013	1116.002-02	LRDSR	\$ 8,410.32
11	BV Construction - Progress Payment #7	Nov 7, 2013	7	Spec. 1204	\$ 87,960.50
12	BV Construction - Progress Payment #8	Dec 4, 2013	8	Spec. 1204	\$ 70,650.08
13	Aspen - EIR/EIS Progress Payment	Dec 4, 2013	1116.002-03	LRDSR	\$ 11,054.97
14	Kennedy/Jenks - Progress Payment	Jan 2, 2014	78236	LCGRRP	\$ 24,066.25
14	BV Construction - Progress Payment #1	Jan 2, 2014	1	Spec. 1201	\$ 29,925.00
14	BV Construction - Progress Payment #9	Jan 2, 2014	9	Spec. 1204	\$ 58,787.84
14	Aspen - EIR/EIS Progress Payment	Jan 2, 2014	1116.002-04	LRDSR	\$ 36,178.95
14	JT Eng. - Design Progress Payment	Jan 2, 2014	5200	Spec. 1207	\$ 9,518.00
15	BV Construction - Progress Payment #2 & #3	Jan 21, 2014	2 & 3	Spec. 1201	\$ 114,095.00
16	Aspen - EIR/EIS Progress Payment	Feb 24, 2014	1116.002-05	LRDSR	\$ 4,917.47
16	BV Construction - Progress Payment #4 & #5	Feb 24, 2014	4 & 5	Spec. 1201	\$ 131,743.15
17	BV Construction - Retention Payment	Mar 3, 2014	10	Spec. 1204	\$ 38,254.26
17	Kennedy/Jenks - Progress Payment	Mar 3, 2014	79010 & 80391	LCGRRP	\$ 113,652.66
18	BV Construction - Progress Payment #6	Mar 31, 2014	6	Spec. 1201	\$ 126,834.50
18	Aspen - EIR/EIS Progress Payment	Mar 31, 2014	1116.002-06 and 07	LRDSR	\$ 17,080.04
19	Kennedy/Jenks - Progress Payment	Apr 16, 2014	78236	LCGRRP	\$ 28,228.60

19	BV Construction - Progress Payment #7	Apr 16, 2014	7	Spec. 1201	\$ 252,741.80
20	BV Construction - Progress Payment #8	May 15, 2014	8	Spec. 1201	\$ 69,825.00
20	Aspen - EIR/EIS Progress Payment	May 15, 2014	1116.002-08	LRDSR	\$ 33,388.96
20	Kennedy/Jenks - Progress Payment	May 15, 2014	82422 & 80900	LCGRRP	\$ 135,858.74
21	BV Construction - Progress Payment #9	Jun 4, 2014	9	Spec. 1201	\$ 67,260.00
21	Aspen - EIR/EIS Progress Payment	Jun 4, 2014	1116.002-09	LRDSR	\$ 31,845.93
22	BV Construction - Progress Payment #10	Jun 30, 2014	10	Spec. 1201	\$ 139,498.00
23	Kennedy/Jenks - Progress Payment	Jun 30, 2014	83735	LCGRRP	\$ 30,172.21
23	Aspen - EIR/EIS Progress Payment	Jun 30, 2014	1116.002-10	LRDSR	\$ 10,672.32
24	BV Construction - Progress Payment #11	Jul 21, 2014	11	Spec. 1201	\$ 141,217.50
24	Kennedy/Jenks - Progress Payment	Jul 21, 2014	84147	LCGRRP	\$ 26,431.83
24	Aspen - EIR/EIS Progress Payment	Jul 21, 2014	1116.002-11	LRDSR	\$ 6,274.20
25	BV Construction - Progress Payment #12	Aug 19, 2014	12	Spec. 1201	\$ 84,386.60
25	Aspen - EIR/EIS Progress Payment	Aug 19, 2014	1116.002-12	LRDSR	\$ 11,115.51
26	BV Construction - Progress Payment #13	Sept 10, 2014	13	Spec. 1201	\$ 47,654.85
26	Aspen - EIR/EIS Progress Payment	Sept 10, 2014	1116.002-13	LRDSR	\$ 37,715.30
27	BV Construction - Progress Payment #14	Sept 29, 2014	14	Spec. 1201	\$ 122,741.90
27	PWD - Reimbursement	Sept 29, 2014	N/A	Spec. 0905	\$ 260,611.31
28	Cedro Construction - Progress Payment #1	Oct 14, 2014	1	Spec. 1207	\$ 310,752.41
28	City of Palmdale - Recharge Project	Oct 14, 2014	PWD-2014	UAR	\$ 38,402.47
29	Aspen - EIR/EIS Progress Payment	Oct 23, 2014	1116.002-14	LRDSR	\$ 56,223.72
29	Kennedy/Jenks - Progress Payment	Oct 23, 2014	87036	LCGRRP	\$ 80,732.32
30	BV Construction - Progress Payment #15	Nov 12, 2014	15	Spec. 1201	\$ 84,974.65
30	Aspen - Bio and Cultural Report	Nov 12, 2014	3277.001-01	Spec. 1205	\$ 10,608.08
30	Cedro Construction - Progress Payment #2	Nov 12, 2014	2	Spec. 1207	\$ 195,802.84
31	ANM Construction - Paving	Nov 17, 2014	011115-1	Spec. 0905	\$ 102,373.00
32	Aspen - Bio and Cultural Report	Nov 26, 2014	3277.001-02	Spec. 1205	\$ 1,147.81
32	Aspen - EIR/EIS Progress Payment	Nov 26, 2014	1116.002-15	LRDSR	\$ 76,161.79
33	Kennedy/Jenks - Progress Payment	Dec 29, 2014	88741	LCGRRP	\$ 71,831.14
33	BV Construction - Progress Payment #16 (Retention)	Dec 29, 2014	16 - Retention	Spec. 1201	\$ 74,363.05
33	Aspen - EIR/EIS Progress Payment	Dec 29, 2014	1116.002-16	LRDSR	\$ 6,136.99
34	Cedro Construction - Progress Payment #3	Jan 7, 2015	3	Spec. 1207	\$ 294,189.21
35	BV Construction - Progress Payment #1	Jan 26, 2015	1	Spec. 1205	\$ 152,445.08
35	Aspen - EIR/EIS Progress Payment	Jan 26, 2015	1116.002-17	LRDSR	\$ 13,105.63
36	Kennedy/Jenks - Progress Payment	Feb 2, 2015	89538	LCGRRP	\$ 78,066.17
37	BV Construction - Progress Payments #2 and #3	Feb 19, 2015	2 and 3	Spec. 1205	\$ 195,962.20
37	Aspen - EIR/EIS Progress Payment	Feb 19, 2015	1116.002-18	LRDSR	\$ 8,814.60
38	BV Construction - Progress Payment #4	Mar 9, 2015	4	Spec. 1205	\$ 123,500.00
38	Cedro Construction - Progress Payment #4	Mar 9, 2015	4	Spec. 1207	\$ 70,371.25
39	BV Construction - Progress Payment #5	Mar 31, 2015	5	Spec. 1205	\$ 144,210.00
39	Aspen - EIR/EIS Progress Payment	Mar 31, 2015	1116.002-19	LRDSR	\$ 12,057.52
39	Kennedy/Jenks - Progress Payment	Mar 31, 2015	90983	LCGRRP	\$ 134,407.47

40	Cedro Construction - Progress Payment #5	Apr 13, 2015	5	Spec. 1207	\$ 116,680.99
41	BV Construction - Progress Payment #6	Apr 27, 2015	6	Spec. 1205	\$ 125,003.43
41	Aspen - EIR/EIS Progress Payment	Apr 27, 2015	1116.002-20	LRDSR	\$ 7,540.62
42	Cedro Construction - Progress Payment #6	May 19, 2015	6	Spec. 1207	\$ 103,592.13
43	BV Construction - Progress Payment #7	Jun 8, 2015	7	Spec. 1205	\$ 72,296.90
43	Aspen - Native American Monitoring	Jun 8, 2015	3277.001-03	Spec. 1205	\$ 7,702.52
43	Aspen - EIR/EIS Progress Payment	Jun 8, 2015	1116.002-21	LRDSR	\$ 44,109.14
44	Aspen - EIR/EIS Progress Payment	Jun 23, 2015	1116.002-22	LRDSR	\$ 34,285.59
44	Cedro Construction - Progress Payment #7	Jun 23, 2015	7	Spec. 1207	\$ 60,299.73
45	BV Construction - Progress Payment #8	Jul 15, 2015	8	Spec. 1205	\$ 111,492.00
45	Kennedy/Jenks - Progress Payment	Jul 15, 2015	93555	LCGRRP	\$ 46,443.99
45	Kennedy/Jenks - Progress Payment	Jul 15, 2015	93556	PRGRRP	\$ 251,714.21
46	Aspen - EIR/EIS Progress Payment	Jul 21, 2015	1116.002-23	LRDSR	\$ 16,484.80
46	Aspen - Native American Monitoring	Jul 21, 2015	3277.001-04	Spec. 1205	\$ 4,152.75
46	City of Palmdale - Recharge Project	Jul 21, 2015	PWD-2015	UAR	\$ 54,977.18
47	BV Construction - Progress Payment #9	Aug 11, 2015	9	Spec. 1205	\$ 107,542.76
47	Kennedy/Jenks - Progress Payment	Aug 11, 2015	94435	PRGRRP	\$ 238,422.35
48	Aspen - EIR/EIS Progress Payment	Sept 14, 2015	1116.002-24	LRDSR	\$ 9,024.21
48	Cedro Construction - Final Payment/Retention	Sept 14, 2015	Final Retention	Spec. 1207	\$ 157,491.76
49	Aspen - EIR/EIS Progress Payment	Sept 28, 2015	1116.002-25	LRDSR	\$ 1,034.50
49	Kennedy/Jenks - Progress Payment	Sept 28, 2015	95632	PRGRRP	\$ 190,705.91
50	Aspen - Native American Monitoring	Oct. 12, 2015	3277.001-05	Spec. 1205	\$ 5,581.50
50	BV Construction - Progress Payment #10	Oct. 12, 2015	10	Spec. 1205	\$ 92,241.20
51	Aspen - Native American Monitoring	Nov. 4, 2015	3277.001-06	Spec. 1205	\$ 4,707.50
51	Kennedy/Jenks - Progress Payment	Nov. 4, 2015	96460	PRGRRP	\$ 129,704.49
52	Aspen - Native American Monitoring	Dec. 28, 2015	96461	Spec. 1205	\$ 3,013.50
52	Kennedy/Jenks - Progress Payment	Dec. 28, 2015	97775	PRGRRP	\$ 159,241.36
53	Kennedy/Jenks - Progress Payment	Jan. 21, 2016	98545	PRGRRP	\$ 67,612.54
53	Aspen - EIR/EIS Progress Payment	Jan. 21, 2016	1116.002-25 & 27	LRDSR	\$ 3,751.40
54	BV Construction - Progress Payment #11	Feb. 3, 2016	11	Spec. 1205	\$ 67,200.17
55	BV Construction - Retention Payment	Feb. 23, 2016	Retention	Spec. 1205	\$ 62,731.78
55	Kennedy/Jenks - Progress Payment	Feb. 23, 2016	99318	PRGRRP	\$ 58,537.45
56	Aspen - EIR/EIS Progress Payment	Mar. 28, 2016	1116.003-01	LRDSR	\$ 33,898.64
56	Kennedy/Jenks - Progress Payment	Mar. 28, 2016	99918	PRGRRP	\$ 57,193.72
57	Kennedy/Jenks - Progress Payment	Apr. 19, 2016	100572	PRGRRP	\$ 7,364.72
58	Aspen - EIR/EIS Progress Payment	May 23, 2016	1116.003-02	LRDSR	\$ 5,535.88
58	Kennedy/Jenks - Progress Payment	May 23, 2016	101354	PRGRRP	\$ 26,258.21
59	Aspen - EIR/EIS Progress Payment	Jun 20, 2016	1116.003-03	LRDSR	\$ 37,001.22
59	Kennedy/Jenks - Progress Payment	Jun 20, 2016	102083	PRGRRP	\$ 5,389.60
60	Aspen - EIR/EIS Progress Payment	Jul 21, 2016	1116.003-05 & 05	LRDSR	\$ 43,122.23
60	Kennedy/Jenks - Progress Payment	Jul 21, 2016	103204	PRGRRP	\$ 21,078.38
61	City of Palmdale - Recharge Project	Jul 27, 2016	PWD-2016	UAR	\$ 35,834.85

62	Aspen - EIR/EIS Progress Payment	Sept 6, 2016	1116.003-06	LRDSR	\$ 3,097.87
62	Kennedy/Jenks - Progress Payment	Sept 6, 2016	104354	PRGRRP	\$ 32,202.76
63	Kennedy/Jenks - Progress Payment	Sept 19, 2016	104792	PRGRRP	\$ 25,142.44
64	Aspen - EIR/EIS Progress Payment	Oct. 31, 2016	1116.003-07	LRDSR	\$ 4,298.50
64	Kennedy/Jenks - Progress Payment	Oct. 31, 2016	105451	PRGRRP	\$ 6,899.35
65	Aspen - EIR/EIS Progress Payment	Nov. 15, 2016	1116.003-08 1110.004-01	LRDSR	\$ 8,375.36
65	Kennedy/Jenks - Progress Payment	Nov. 15, 2016	106216	PRGRRP	\$ 13,942.29
66	Aspen - EIR/EIS Progress Payment	Jan. 2, 2017	1116.004-02 & 03	LRDSR	\$ 19,872.98
66	Kennedy/Jenks - Progress Payment	Jan. 2, 2017	107221	PRGRRP	\$ 2,581.18
67	Aspen - EIR/EIS Progress Payment	Feb. 6, 2017	1116.004-04	LRDSR	\$ 10,988.25
68	Kennedy/Jenks - Progress Payment	Feb. 14, 2017	109065	PRGRRP	\$ 39,889.11
69	Aspen - EIR/EIS Progress Payment	Mar. 2, 2017	1116.004-05	LRDSR	\$ 39,137.36

**PALMDALE WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** March 15, 2017 **March 22, 2017**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Mr. Matt Knudson, Assistant General Manager  
**VIA:** Mr. Dennis D. LaMoreaux, General Manager  
**RE:** *AGENDA ITEM NO. 7.6 – CONSIDERATION AND POSSIBLE ACTION  
ON 2017 GOALS FOR THE ANTELOPE VALLEY STATE WATER  
CONTRACTORS ASSOCIATION. (PRESIDENT ALVARADO/  
ASSISTANT GENERAL MANAGER KNUDSON)*

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Attached is a February 9, 2017 Antelope Valley State Water Contractors Association memo outlining 2017 goals for the Association. The memo will be reviewed in detail at the Board Meeting.

**Strategic Plan Initiative:**

This item is under Strategic Initiative No. 5 – Regional Leadership.

**Supporting Documents:**

- February 9, 2017 Antelope Valley State Water Contractors Association memo regarding 2017 goals for the Association

# ANTELOPE VALLEY STATE WATER CONTRACTORS ASSOCIATION COMMISSION MEMORANDUM

**DATE:** February 9, 2017 February 9, 2017  
**TO:** AVSWCA Commissioners Commission Meeting  
**FROM:** Matthew Knudson, General Manager  
**RE:** *AGENDA ITEM NO. 7 - CONSIDERATION AND POSSIBLE ACTION ON 2017 GOALS FOR THE ASSOCIATION*

## **Recommendation:**

Staff recommends that the Commissioners approve the following 2017 Goals for the Antelope Valley State Water Contractors Association and direct staff to dedicate resources to accomplish said Goals.

## **2017 Goals**

- 1) Develop an agreement between AVEK, LCID, PWD, and Department of Water Resources (DWR) that recognizes the Antelope Valley as a closed groundwater basin and allow inter-agency SWP exchanges. This agreement will allow the three Antelope Valley SWP Contractors the ability to exchange SWP water without the need to obtain DWR approval for each specific exchange and allow a mechanism for the accounting and reporting of said exchanges. The AVSWCA staff will strive to have said agreement executed by mid-2017;
- 2) Continue with the sponsorship and implementation of the 4<sup>th</sup> Annual SMART Landscaping Expo to be held in the fall of 2017;
- 3) Continue to discuss the potential for the development of regional groundwater storage and water supply projects that will benefit the Antelope Valley;
- 4) Continue to be the contracting agency for the 2016/2017 United States Geological Survey (USGS) Joint Funding Agreement for groundwater level/quality monitoring program for the Antelope Valley. It is agreed upon by the member agencies of the AVSWCA that future funding and groundwater level monitoring will be performed and coordinated by the Antelope Valley Watermaster;
- 5) Continue to be the monitoring and reporting agency for the California Statewide Groundwater Elevation Monitoring (CASGEM) Program. On November 4, 2009 the State Legislature amended the Water Code with SBx7-6, which mandates a statewide groundwater elevation monitoring program to track seasonal and long-term trends in groundwater elevations in California's groundwater basins. The intent of the CASGEM program is to establish a permanent, locally-managed program of regular and systematic monitoring in all of California's groundwater basins. The CASGEM program relies and builds on the

established local long-term groundwater monitoring and Joint-Funding Agreement between the USGS and AVSWCA. Funding these efforts will continue to be distributed based on member agency SWP Table A amounts;

- 6) Continue to be the agency that accounts for and disburses the Regional Water Management Group (RWMG) monetary contributions for projects and programs agreed to be funded with said monetary contributions;
- 7) Continue to be the lead agency that contracts with grant awarding agencies, consultants, and engineers to develop, study, and update the Antelope Valley-Integrated Regional Water Management Plan (AV-IRWMP);
- 8) Continue to encourage stakeholder input and participate in the AV-IRWMP Stakeholder and Advisory Team Meetings to provide input on water supply related topics;
- 9) Increase public outreach and public education of water supply issues facing the Antelope Valley. Periodically discuss which community events the AVSWCA shall participate in and attend based on current water issues and intended message.

**PALMDALE WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** March 15, 2017 **March 22, 2017**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Mr. Dennis D. LaMoreaux, General Manager  
**RE:** ***AGENDA ITEM NO. 7.7 – CONSIDERATION AND POSSIBLE ACTION ON AMENDMENT TO SECTION 4.03.1 OF THE DISTRICT’S RULES AND REGULATIONS TO OFFER INTERPRETING SERVICES IN ANY LANGUAGE AT REGULAR BOARD MEETINGS FOR COMMENTS. (NO BUDGET IMPACT – GENERAL MANAGER LaMOREAUX)***

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**Recommendation:**

It has been recommended that the Board amend the previously approved revision to Section 4.03.1 of the District’s Rules and Regulations to offer interpreting services in any language at Regular Board Meetings for comments.

**Alternative Options:**

The alternative option is for the previously adopted Policy for Providing Spanish Interpreting Services to remain in effect.

**Impact of Taking No Action:**

If no action is taken on this item, the previously adopted Policy for Providing Spanish Interpreting Services will remain in effect.

**Background:**

The Board of Directors recognized a need to offer Spanish interpreting services for public comments at Regular Board Meetings and approved a policy for this service at the March 8, 2017 Regular Board Meeting.

Since that time, President Alvarado has recommended this policy be amended to offer interpreting services in any language at Regular Board Meetings for comments. A draft policy to address this need is attached.

**Strategic Plan Initiative:**

This item is under Strategic Initiative No. 5 – Regional Leadership.

**Budget:**

There is no budget impact from this item.

**Supporting Documents**

- Proposed policy for providing interpreting services in any language.

PALMDALE WATER DISTRICT  
RULES AND REGULATIONS  
PROPOSED POLICY FOR PROVIDING INTERPRETING SERVICES

SECTION 4.03.1 (c):

The Palmdale Water District will provide an interpreter to assist the public in making comments under Regular Board Meeting Agenda Item No. 4 'Public comments for non-agenda items' and under any action items where public input is offered during the Regular Board Meeting. Requests for this service must be received at least 48 hours before the Regular Board Meeting by calling the Executive Assistant at 661-947-4111 x1003.

Spanish interpreters will be made available at all formal public hearings and will require no formal requests for service. Requests for other interpreting services must be received at least 48 hours before the formal public hearing.

Interpreting services will not be available to translate the entire Regular Board Meeting, and these services will also not be available for Board Committee Meetings.

**PALMDALE WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** March 15, 2017 **March 22, 2017**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Mr. Dennis D. LaMoreaux, General Manager  
**RE:** *AGENDA ITEM NO. 7.8 – CONSIDERATION AND POSSIBLE ACTION ON PALMDALE WATER DISTRICT HELPFUL PRINCIPLES FOR BOARD MEETINGS. (PRESIDENT ALVARADO/GENERAL MANAGER LaMOREAUX)*

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The attached “Helpful Principles for Board Meetings” were developed by the Ad Hoc Board Norms Committee of Directors Mac Laren and Henriquez with the assistance of The Mathis Group and legal counsel and are presented for the Board’s consideration.

**Strategic Plan Initiative:**

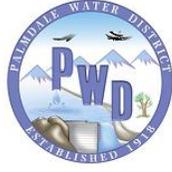
This item is under Strategic Initiative No. 2 - Organizational Excellence and Strategic Initiative No. 5 - Regional Leadership.

**Budget:**

There is no budget impact from this item.

**Supporting Documents:**

- Palmdale Water District Helpful Principles for Board Meetings



## Palmdale Water District Helpful Principles for Board Meetings

- A)** Focus on what's best for the District and its mission.
- B)** Allow the President to conduct an orderly meeting.
- C)** Be respectful of fellow Board members and the Public at all times.
- D)** Be professional and courteous in allowing others to complete their thoughts and sentences.
- E)** Put aside all distractions to focus on conducting the customers' business in a courteous manner.
- F)** Be aware that behavior on the dais affects the perception and respect for the District and its customers.
- G)** Each Director is individually responsible and accountable for their conduct and representation of the customers.
- H)** Refrain from interpreting others thinking and spoken thoughts.
- I)** Stick to the topics on the agenda and don't insert unrelated topics, thoughts or accusations.
- J)** Schedule occasional workshops devoted to discussions related to planning, teamwork, and outreach.

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DATE: \_\_\_\_\_

**MINUTES OF REGULAR MEETING OF THE COMMISSIONERS OF THE ANTELOPE VALLEY STATE WATER CONTRACTORS ASSOCIATION, FEBRUARY 9, 2017.**

*A regular meeting of the Commissioners of the Antelope Valley State Water Contractors Association was held Thursday, February 9, 2017, at the Palmdale Water District at 2029 East Avenue Q, Palmdale. Vice Chair Hogan called the meeting to order at 7:00 p.m.*

**1) Pledge of Allegiance.**

Vice Chair Hogan led the pledge of allegiance.

**2) Roll Call.**

**Attendance:**

Barbara Hogan, Vice Chair  
Kathy Mac Laren, Secretary  
Keith Dyas, Commissioner  
Robert Alvarado, Commissioner  
Tim Clark, Alt. Commissioner

**Others Present:**

Matt Knudson, AVSWCA General Mngr.  
Tom Barnes, Controller  
Dwayne Chisam, AVEK General Mngr.  
James Chaisson, LCID General Mngr.  
Vincent Dino, PWD Director  
Danielle Henry, Administrative Assistant  
1 member of the public

**EXCUSED ABSENCE --**

Robert Parris, Chair  
Leo Thibault, Treasurer-Auditor

**3) Public Comments for Non-Agenda Items.**

There were no public comments.

**4) Consideration and Possible Action on Minutes of Regular Meeting Held January 12, 2017.**

It was moved by Commissioner Dyas, seconded by Commissioner Mac Laren, and unanimously carried by all members of the Board of Commissioners present at the meeting to approve the minutes of the regular meeting held January 12, 2017, as written.

**5) Payment of Bills.**

General Manager Knudson reviewed the bills received for payment from PWD in the amount of \$1,141.81 for staff services, from AV Web Designs in the amount of \$199.95 for the recurring monthly AVSavesWater.com website charge for February 2017, and from AVEK in the amount of \$722.98 for staff services after which it was moved by Commissioner Mac Laren, seconded by Commissioner Alvarado, and unanimously carried by all members of the Board of Commissioners present at the meeting to approve the bills received for payment as presented.

**6) Presentation and Overview on the Groundwater Level and Water Quality Monitoring Program between the Antelope Valley State Water Contractors Association (AVSWCA) and the U.S. Geological Survey (USGS). (Mr. Bob Blanchard, USGS)**

Mr. Bob Blanchard, of the U.S. Geological Survey, provided a brief update on the Groundwater Level and Water Quality Monitoring Program between AVSWCA and USGS including the scope and purpose of the Program, groundwater levels, groundwater quality and sampling, and a summary of work scheduled for 2017 followed by a brief discussion of artesian wells and the recent precipitation.

The Commissioners then thanked Mr. Blanchard for the presentation.

**7) Discussion and Possible Action on 2017 Association Goals. (General manager Knudson)**

General Manager Knudson provided a detailed overview of staff's recommended goals for 2017, and after a brief discussion of the original Antelope Valley Integrated Regional Water Management Group, Vice Chair Hogan stated that she would like to review the list of goals with LCID's full Board and requested that this item be carried over to the next regular meeting.

**8) Discussion and Possible Action on Agreement Related to Regional Exchange of Water from the State Water Project. (General Manager Knudson/Controller Barnes)**

Controller Barnes provided a brief history of the draft agreement submitted to the Department of Water Resources (DWR) for regional exchange of water from the

State Water Project between the three member agencies and stated that DWR's legal advisory is reviewing the draft agreement which will be returned with changes; that the goal is to have approval of the agreement by mid-2017; and that DWR has indicated that the agreement would be limited to five years with a ten year water return period.

**9) Report of General Manager.**

**a) Update on Revenue, Expenditures and Change in Net Position.**

General Manager Knudson provided a brief update of the Association's finances and stated that the current bank account for the Association will need to be closed and a new account established due to the discovery of fraudulent checks written against the account.

**b) Update on Antelope Valley Watermaster Meetings.**

General Manager Knudson stated that the next Antelope Valley Watermaster Board meeting is scheduled for February 17, 2017 at 10 a.m. at AVEK and that the purpose of the meeting is to choose applicants for the interview process after which Commissioner Mac Laren stated that the Watermaster group is getting along very well and building trust.

**10) Report of Controller.**

Controller Barnes provided an update on the current North Sierra Precipitation Index, the upcoming precipitation forecast, and on the State Water Project operations including Lake Oroville, San Luis Reservoir, and the Delta followed by a brief discussion of the Oroville Dam emergency spillway.

**11) Reports of Commissioners.**

Alt. Commissioner Clark introduced LCID's new General Manager, James Chaisson, after which Commissioner Mac Laren and Commissioner Alvarado welcomed him.

Commissioner Hogan then stated that the scenery on her way home from a Las Vegas trip was very green from all of the recent rain.

ANTELOPE VALLEY STATE WATER CONTRACTORS ASSOCIATION  
FEBRUARY 9, 2017  
REGULAR MEETING

There were no further reports.

**12) Report of Attorney.**

No attorney was present.

**13) Commission Members' Requests for Future Agenda Items.**

General Manager Knudson stated that a presentation on current projects by the member agencies will be provided at the next Association meeting.

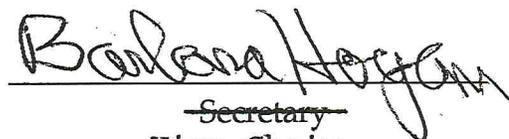
There were no further requests for future agenda items.

**14) Consideration and Possible Action on Scheduling the Next Association Meeting. (March 9, 2017)**

It was determined that the next regular meeting of the Association will be held March 9, 2017 at 7:00 p.m. at PWD.

**15) Adjournment.**

There being no further business to come before the Commissioners, the regular meeting of the Commissioners of the Antelope Valley State Water Contractors Association was adjourned at 7:43 p.m.

  
~~Secretary~~  
Vice Chair

**PALMDALE WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** March 15, 2017 **March 22, 2017**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Mr. Dennis D. LaMoreaux, General Manager  
**RE:** *AGENDA ITEM NO. 8.2 – March, 2017 General Manager Report*

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The following is the March report to the Board of activities through February, 2017. It is organized to follow the District’s six strategic initiatives adopted in 2016 & 2017 and is intended to provide a general update on the month’s activities. A summary of the initiatives is as follows:



***Water Resource Reliability***

**2015 Urban Water Management Plan, drought response**  
**Palmdale Regional Groundwater Recharge & Recovery Project**  
**Littlerock Reservoir Sediment Removal Project**  
**Recycled water allocation and use**



***Organizational Excellence***

**Maintain formal management/supervisor training and development program**  
**Maintain competitive compensation and benefits package**  
**Employee wellness program; Succession planning**  
**Board/staff events to develop innovative ideas and awards**



***Systems Efficiency***

**Water system Master Plan update and related EIR**  
**Reinvestment in aging infrastructure**  
**Investment, implementation, and training plan for new technology**  
**Computerized maintenance management software (CMMS)**



***Financial Health and Stability***

**Pursue Federal and State funding opportunities**  
**Sustainable and balanced rate structure**  
**Maintain adequate reserve levels**  
**Maintain high level bond rating**



### ***Regional Leadership***

- Create a regional best practices Antelope Valley partnership**
- Enhance community partnerships and expand school programs in water education**
- Emphasize the importance and long history of the District as a community asset**
- Continue to evaluate District internship needs**



### ***Customer Care and Advocacy***

- Customer Care accessibility through automation**
- Evaluate, develop, and market additional payment options**
- Improve customer account management tools**
- Enhance customer experience through assessment of infrastructure, processes, and policies to maximize the customer care experience**

This report also includes charts that show the effects of the District's efforts in several areas. They are now organized within each strategic initiative and include status in complying with the State Water Resources Control Board's (SWRCB) conservation emergency orders, 20 x 2020 status, the District's total per capita water use trends, 2017 water production and customer use graph, mainline leaks, and the water loss trends for both 12 and 24 month running averages.



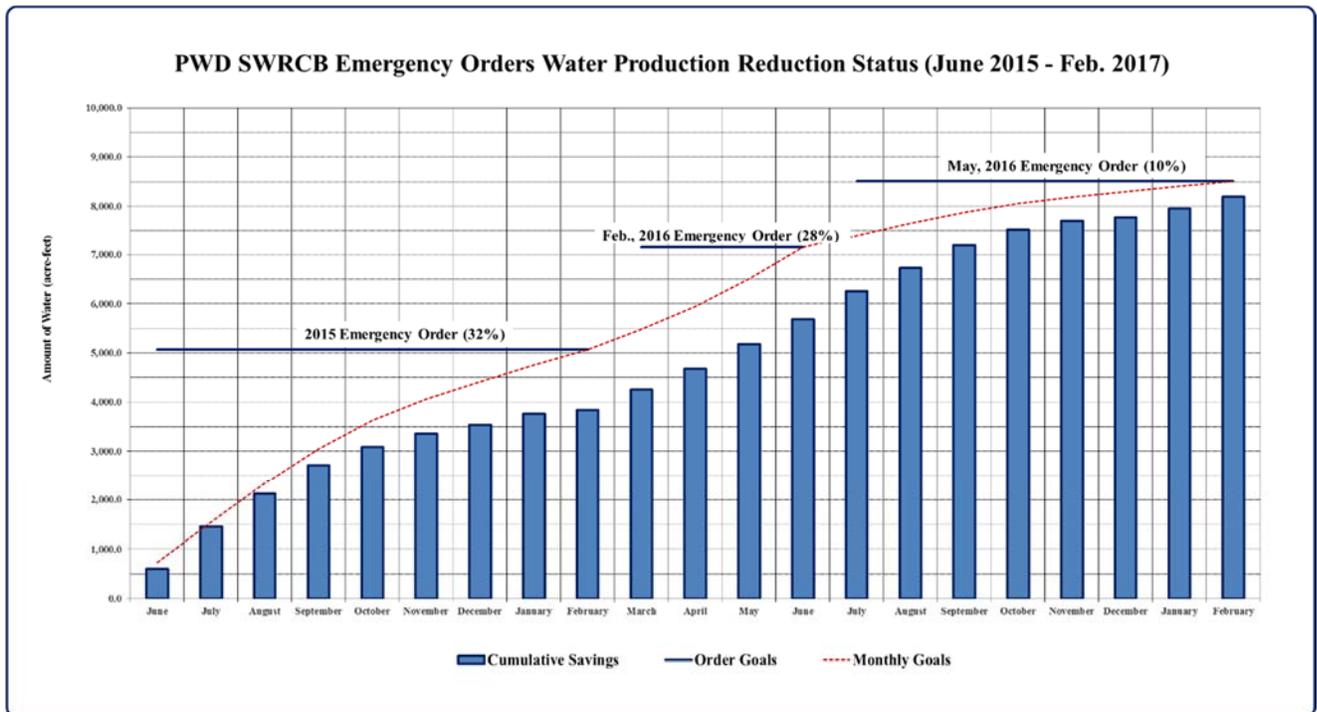
### ***Water Resource Reliability***

This initiative includes conservation efforts, water supply projects, and water planning.

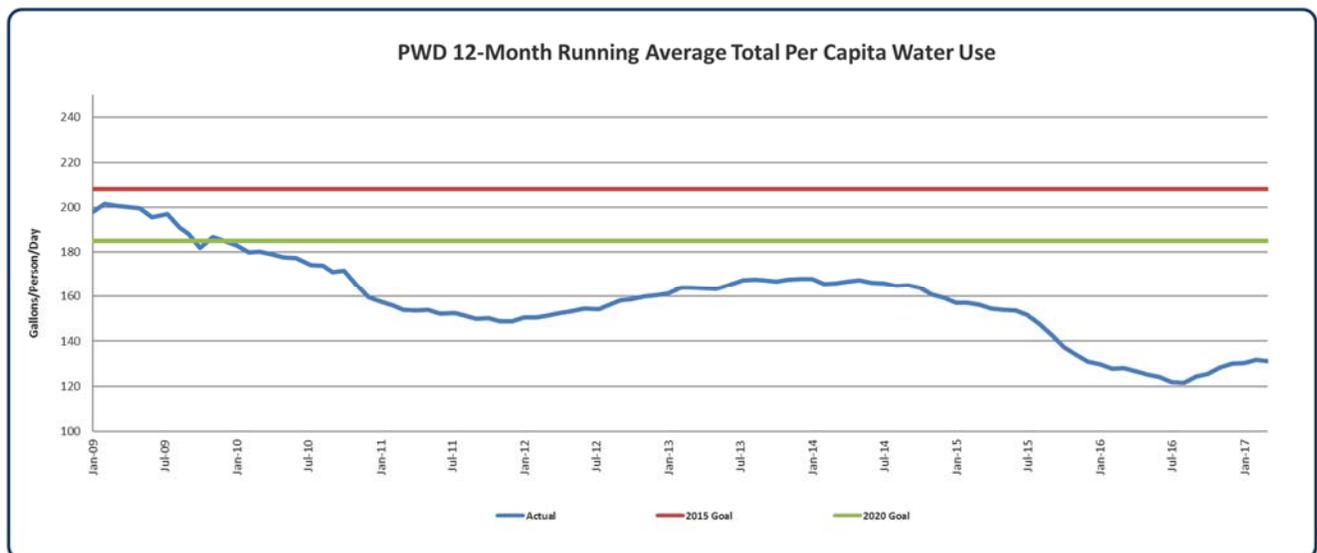
Recent highlights are as follows:

#### 2015, 2016, and 2017 SWRCB Emergency Drought Orders

- The District customers' cumulative water saving from June, 2015 to the end of February, 2017 as compared to 2013 is 23.4%. The February, 2017 numbers alone show a **25.7%**, or **253.6 AF**, of savings. The SWRCB's May, 2016 Order shifted conservation goal setting to water agencies and away from State-mandated goals. District staff completed that analysis and recommended a new conservation goal of 15% for the District. A new Order was adopted on February 8, 2017 extending the emergency regulations another 270 days and allowing agencies to recalculate conservation goals. The District then adopted a new resolution certifying a 0% conservation standard and eliminating the drought surcharge beginning March 1, 2017. **The District's performance with all the SWRCB's Orders throughout the entire period is 96%, or 8,203 AF, saved of the State requirements, only 300 AF short**, and is shown in the following graph:



The District’s customers have actually cut their water use by nearly 43% from the baseline number of 231 and met the 2020 Goal in early 2010. The current Total-GPCD is 131. This is easiest to see in the following chart titled “PWD 12-Month Running Average Total Per Capita Water Use.”



The fact that District customers have excelled in water conservation is also shown in the following table titled “Historic R-GPCD Comparison.” It shows that the District’s customers have reached 64 and 59 R-GPCD in January, 2016 and February, 2017,

respectively. Throughout the Emergency Order period starting in June, 2015, they have reduced water use by 39.9% compared to the same time in 2007.

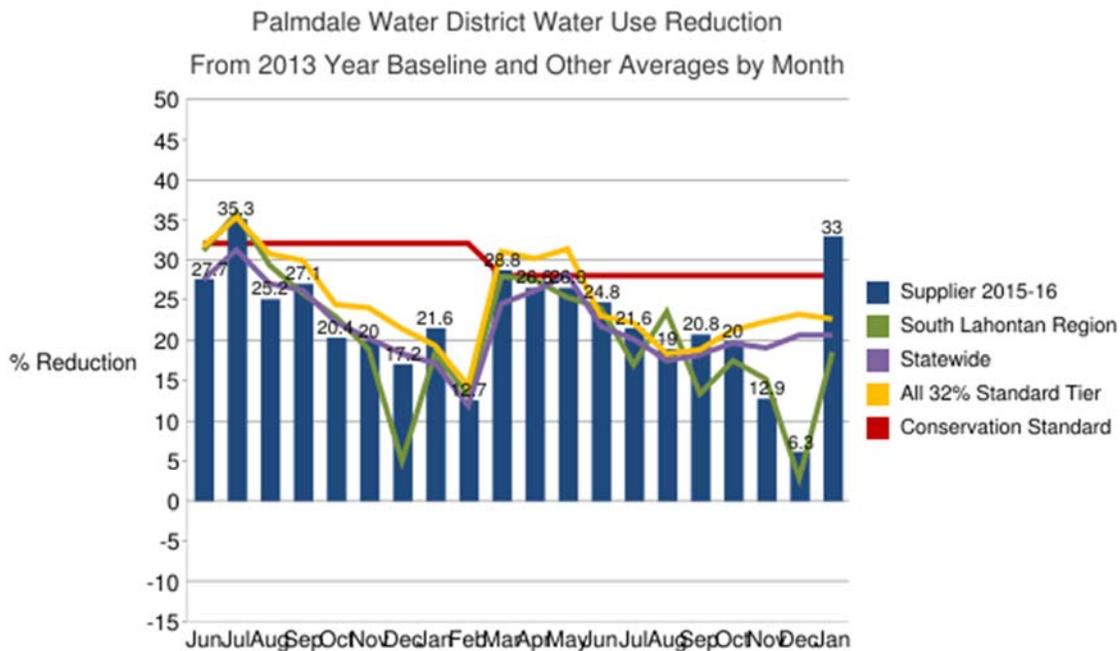
Historic R-GPCD Comparison*						
Emergency Order Period	2007		2013		2015/16	
	Gallons	% Change	Gallons	% Change	Gallons	% Change
June	239.8	-	170.9	(28.7)	126.3	(47.3)
July	267.6	-	184.7	(31.0)	121.8	(54.5)
August	261.1	-	180.0	(31.0)	133.0	(49.0)
September	198.9	-	164.5	(17.3)	116.2	(41.6)
October	157.7	-	130.2	(17.4)	104.5	(33.7)
November	130.2	-	100.4	(22.9)	77.2	(40.7)
December	88.2	-	80.4	(8.9)	67.1	(24.0)
January	103.8	-	77.1	(25.8)	61.1	(41.2)
February	106.1	-	79.2	(25.4)	70.1	(33.9)
March	144.5	-	105.8	(26.8)	76.3	(47.2)
April	169.3	-	124.4	(26.5)	92.5	(45.3)
May	204.4	-	145.3	(28.9)	108.4	(46.9)
June	239.8	-	170.9	(28.7)	133.6	(44.3)
July	267.6	-	184.7	(31.0)	142.0	(46.9)
August	261.1	-	180.0	(31.0)	146.6	(43.8)
September	198.9	-	164.5	(17.3)	130.3	(34.5)
October	157.7	-	130.2	(17.4)	106.7	(32.3)
November	130.2	-	100.4	(22.9)	87.4	(32.9)
December	88.2	-	80.4	(8.9)	74.9	(15.1)
January	103.8	-	77.1	(25.8)	63.6	(38.8)
February	106.1	-	79.2	(25.4)	58.8	(44.6)
Averages**	172.6		129.1	(23.8)	99.9	(39.9)

Notes: \* All R-GPCD Calculated using 2015 Emergency Order Method  
% Change is calculated from 2007

\*\* Months to date only

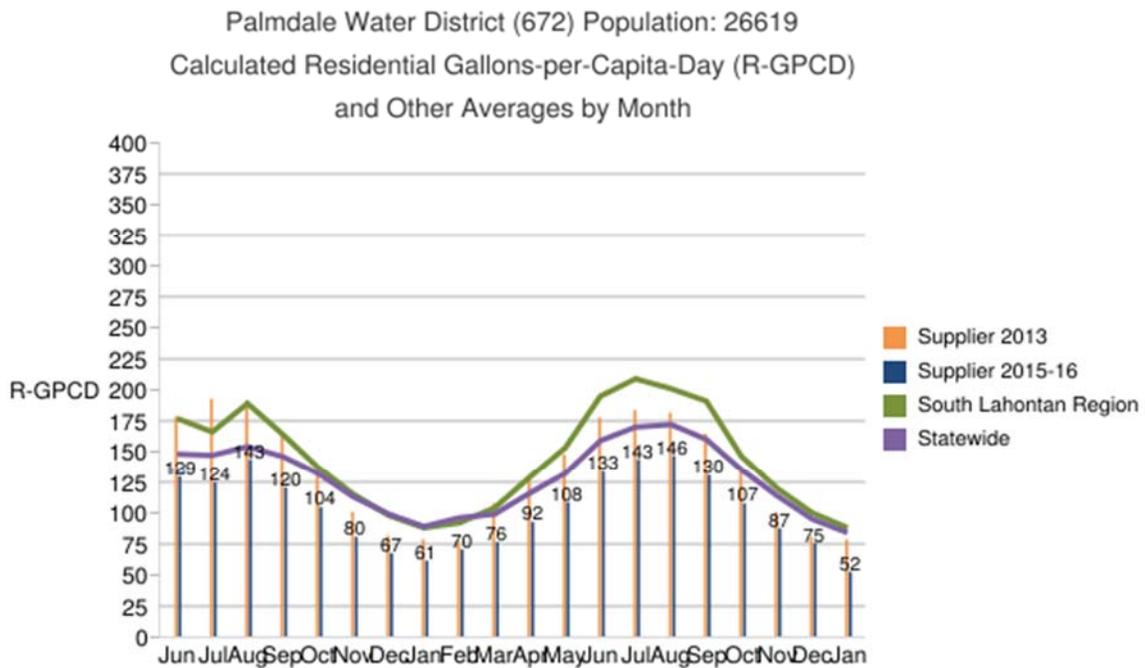
20% by 2020 12-Month Average Total GPCD Baseline = 231  
2015 12-Month Average Total GPCD Goal = 208  
2020 12-Month Average Total GPCD Goal = 185  
Current 12-Month Average Total GPCD = 132 or 42.9% Reduction

Another way to measure the District's and our customers' success in responding to the Governor's Drought Declaration and the SWRCB's Emergency Orders is to compare the reduction in water usage and the per capita use with regional water agencies and with the statewide average response. The following graphs are produced by the SWRCB and cover through January, 2017. The first one shows the District's water use reduction as compared to others in the same reduction group, regional water agencies, and statewide agencies. The District and our customers have done well.



Cumulative Supplier water use reduction since June 2015: 23.4 %

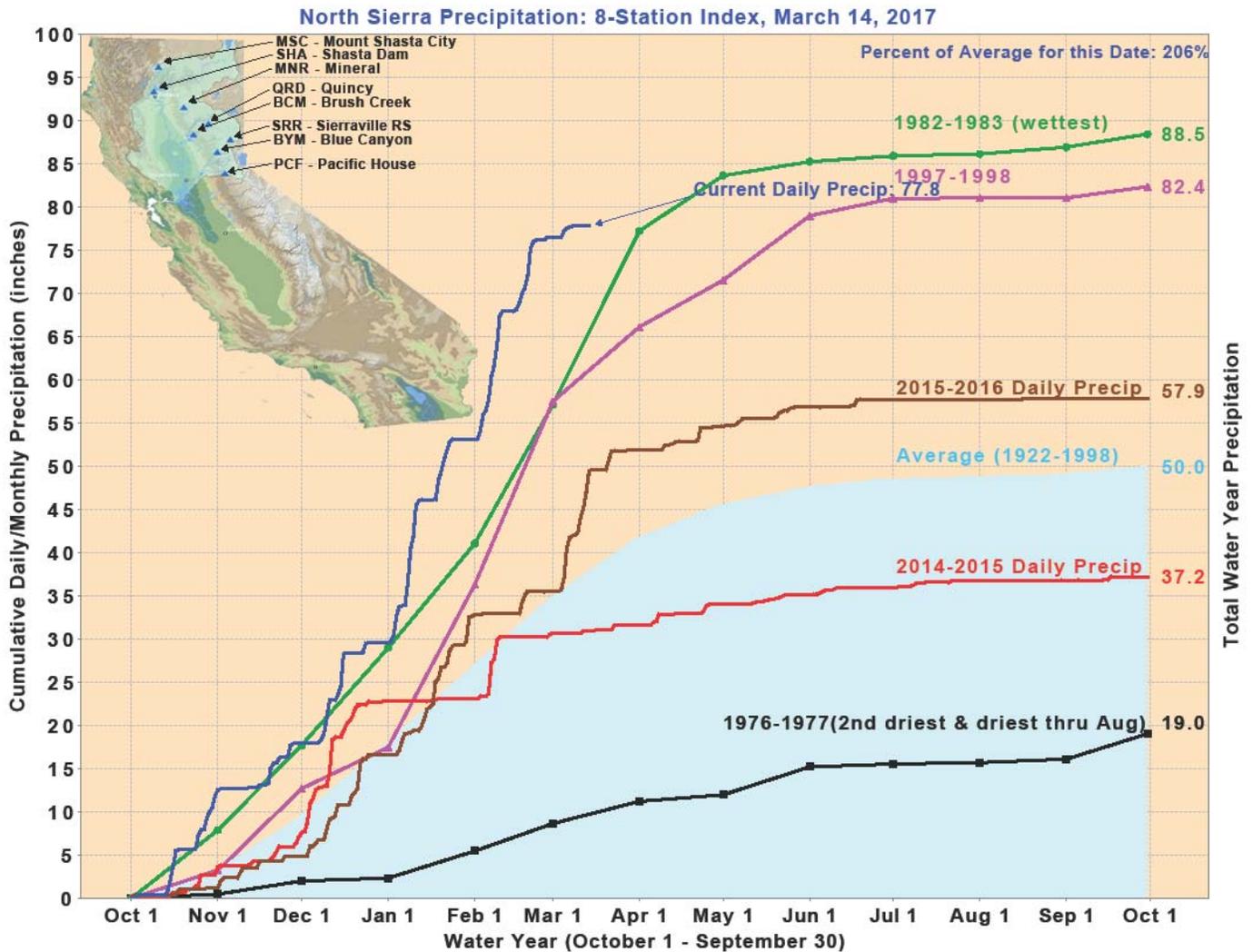
The second graph shows the District’s per capita water use as compared to others in the same reduction group, regional water agencies, and statewide agencies. Again, the District and our customers have lower per capita use than the statewide average and regional agencies.



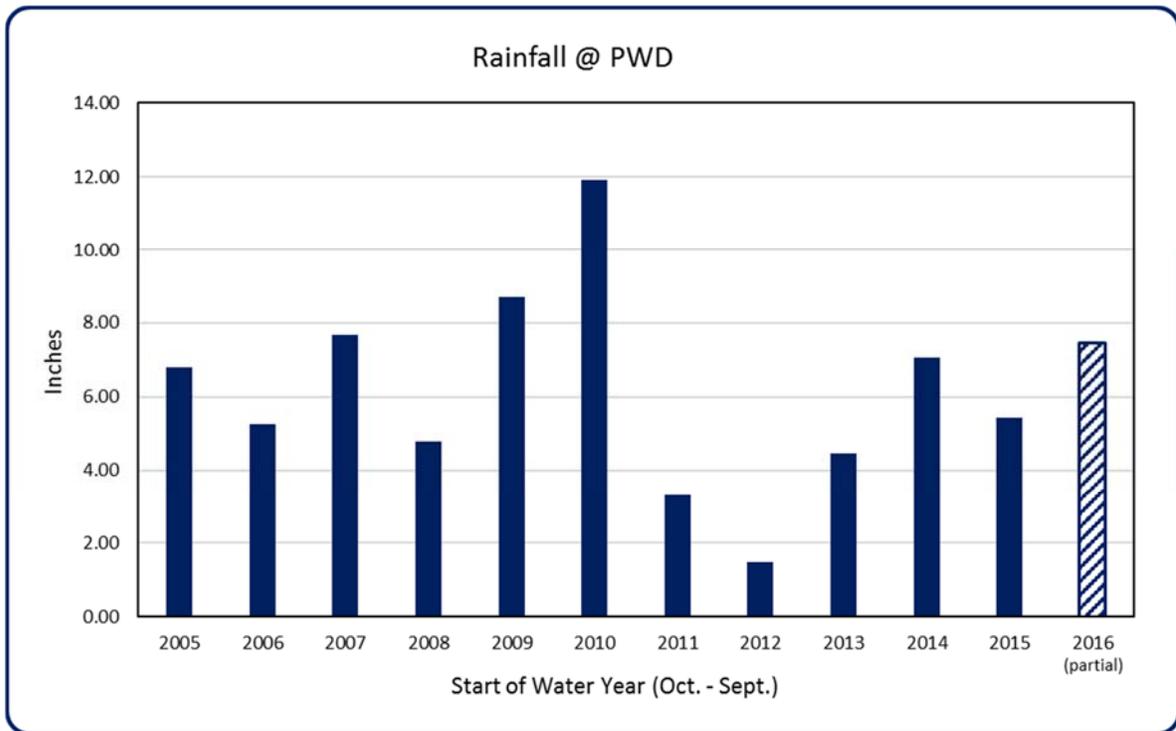
Source: DRINC Portal (drinc.ca.gov) Urban Water Supplier Monitoring Reports (Mar 2017)

Water Supply Information

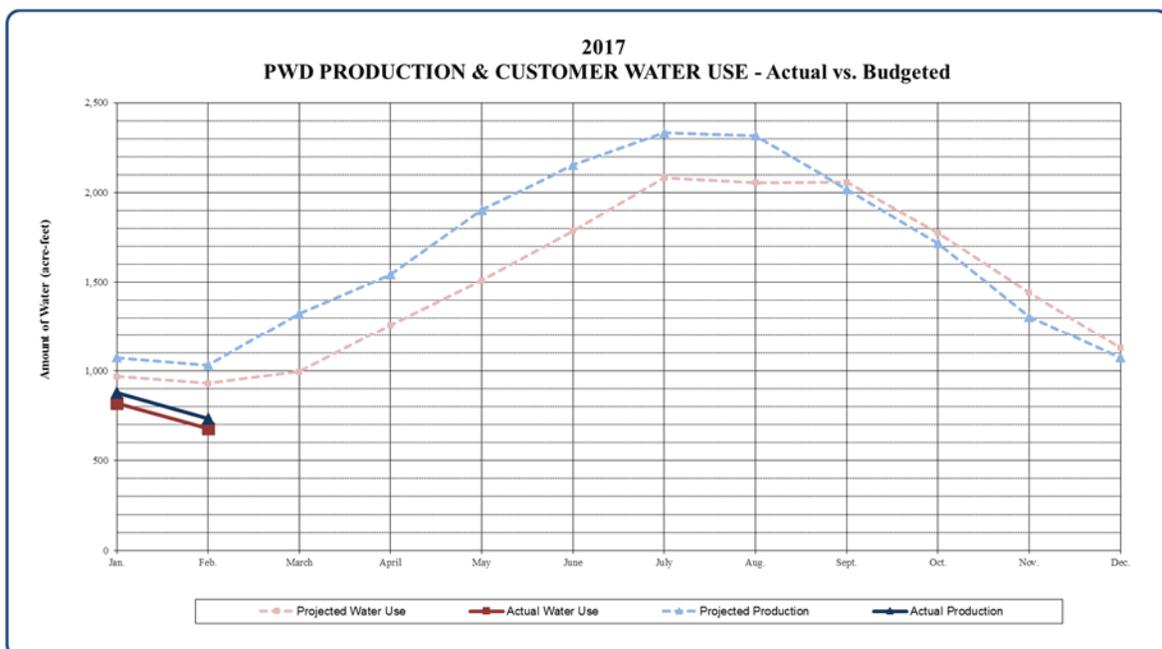
- The staff has planned water resources for 2017 based on the current State Water Project allocation of 60%. The 2016-2017 water year has started well for Northern California as shown in the following graph.



- The local water supply is much better than in recent years. As of this date, Littlerock Dam is spilling for the first time in years. The following graph shows this water year's (October through September) rainfall in comparison to the last several years.



- Water and Energy Resources staff prepared a plan for 2017 that incorporates available water with the anticipated water usage. The following graph shows actual amounts and monthly projections for both production and consumption through February, based on the prior five years of actual monthly information, for the entire year. It is anticipated that this year's consumption and production pattern will move back into a more-normal pattern.



### Other Items

- The Littlerock Reservoir Sediment Removal Project Draft Environmental Impact Report/Environmental Impact Statement (EIR/EIS) is published in the Federal Register. The public review period ran through the end of June, 2016. Aspen Environmental completed working with the Angeles National Forest on drafting the Record of Decision. A final document is published for the Forest Service to act on for NEPA. A separate document will be presented to the Board for consideration of a Notice of Determination under CEQA at this meeting.
  
- The public review of the Draft California Environmental Quality Act (CEQA) EIR for the Palmdale Regional Groundwater Recharge and Recovery Project is complete. The Final EIR was certified by the Board on July 13<sup>th</sup>, and the Notice of Determination was filed on July 14, 2016. The comments from the SWRCB Recycled Water Division on the Title 22 Engineering Report are being addressed. A recent meeting with the regulatory staff discussing draft responses went well. Plans for the construction of monitoring wells and a pilot recharge basin are now being finalized and will be advertised for bids soon.



### ***Organizational Excellence***

This initiative includes efforts to restructure staff duties and activities to more efficiently provide service to our customers. Recent highlights are as follows:

- The electronic time keeping software is now being used by staff.
  
- A policy outlining the preparation of meeting minutes was adopted by the Board at the March 8, 2017 meeting.
  
- The 2016/2017 Strategic Plan Update is posted in the board room posters and brochure are now complete. A Spanish translation is being worked on also. These boards will be placed in the board room when they are completed.
  
- An Ad-Hoc Committee of the Board was formed to meet with community groups and develop any policies needed to help ensure the continued communication with and involvement of the District's customers. An interpreter is provided upon request for public comments at regular Board meetings as an interim policy. The Board adopted this policy at the March 8, 2017 meeting.

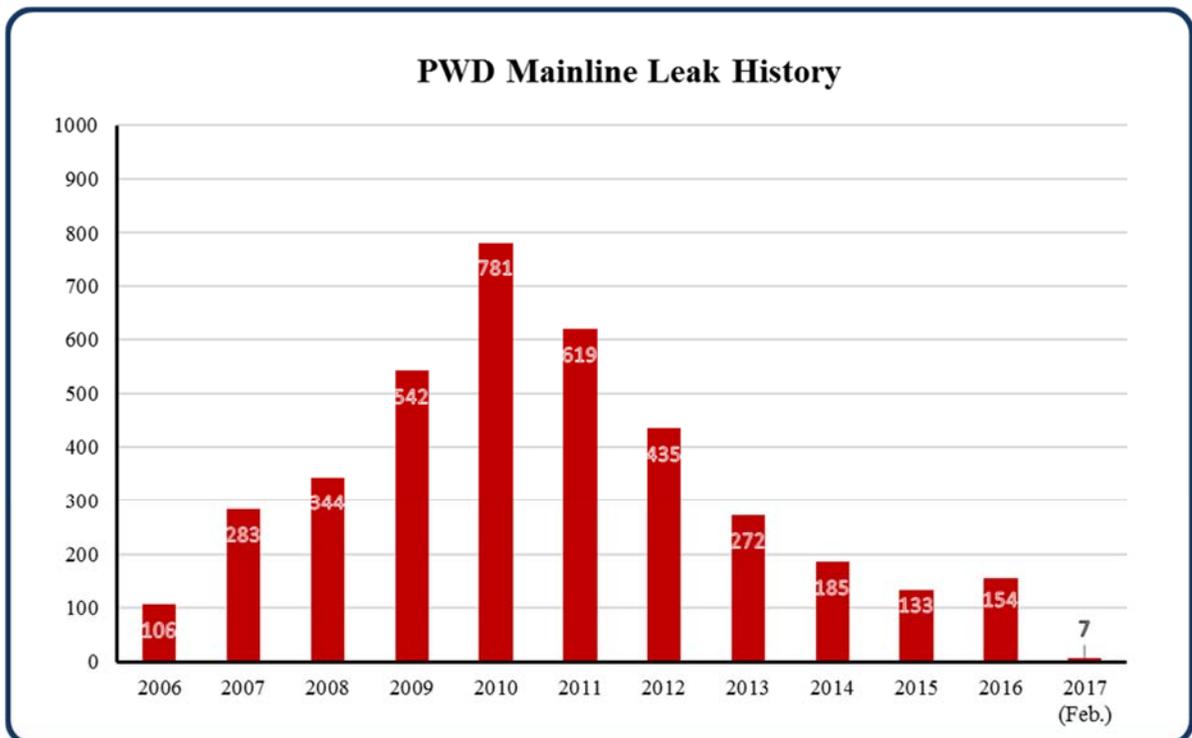
- The Mathis Group is working on completing the Board norms process, preparing for a planning dinner, and assisting in developing the 2018 Strategic Plan.



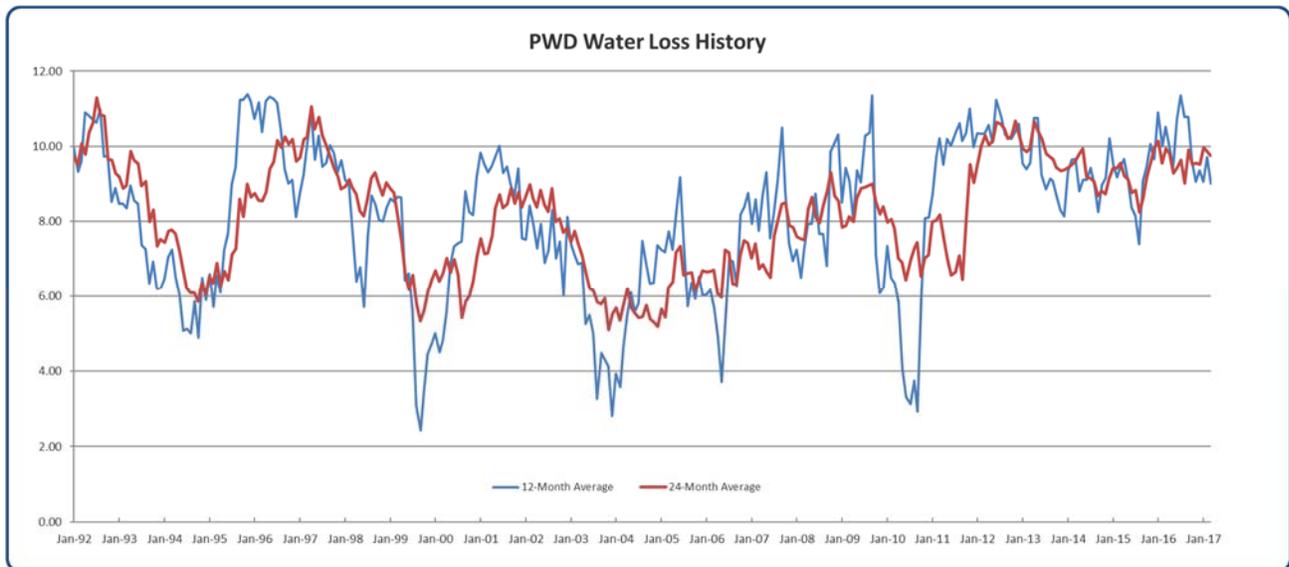
### **Systems Efficiency**

This initiative largely focuses on the state of the District’s infrastructure. Recent highlights are as follows:

- Installation of the long awaited security upgrades for the headquarters and maintenance areas is complete. Similar work at the Leslie O. Carter Water Treatment Plant was awarded recently and the work will begin soon.
- New water main replacement projects will be completed within the funds available in the 2017 Budget to continue the District’s efforts to maintain the water system. The effects of the District’s past efforts in replacing failing water mains can be seen in the reduced number of mainline leaks. This is illustrated in the chart titled “Mainline Leak History.” The total for 2016 was slightly above, 154 vs. 133, the numbers for 2015. The 2016 service line leaks remained fairly constant at 89. While this is a vast improvement from 2010’s number of 781 mainline leaks, replacement work must continue. The mainline leaks through February, 2017 are 7 and service lines 10.



- A replacement project in the area south of Avenue Q near 15<sup>th</sup> Street East was recently completed.
- The 2016 budgeted meter replacement project of approximately 3,300 meters has started.
- The effect of both water main and water meter replacement is shown on the chart titled “PWD Water Loss History.”



### ***Financial Health and Stability***

- Engineering staff has successfully applied for planning grant funding for the Palmdale Regional Groundwater Recharge and Recovery Project and for the Phase II pipeline for the Palmdale Recycled Water Authority. Application packages for further funding have been determined to be complete by the State.
- The Board approved proceeding with the refunding of the 2012 private placement and a portion of the 2013A Revenue Bonds due to the current low interest rates if a 5% savings can be achieved. The market is still below that savings goal.
- Financial Planning Workshops were held in August and October, 2016 to look at the District’s potential financial requirements over the next several years and to consider setting multi-year rate changes rather than single year changes. Water rate changes of 4.25% for 2017, 2018, and 2019 were then approved at a Board meeting held November 9, 2016. The resolution is also unique in that it included criteria that, if met, would allow for lesser changes.

- The Board approved the 2017 Budget at the November 23, 2016 meeting.
- Staff is working with the approved Holman Capital on a technology lease agreement to fund \$830,000 in projects. The low interest rate of 2.78% and ability to fund additional repair and replacement projects make this a prudent action.



### ***Regional Leadership***

This initiative includes efforts to involve the community, be involved in regional activities, and be a resource for other agencies in the area. Recent highlights are as follows:

- Activities of the Palmdale Recycled Water Authority (PRWA) and Antelope Valley State Water Contractors Association have continued.
- Additional meetings of the Antelope Valley Watermaster Board (AVWB) were recently held with topics including recruiting for the Watermaster Engineer and facilitating the Alternate Landowner director election.
- District staff is active in the local chambers and is on the board of the Palmdale Chamber and GAVEA.
- The District has co-sponsored the Emergency Preparedness Fair on March 18, 2017.



### ***Customer Care and Advocacy***

This initiative includes efforts to better serve our customers. Recent highlights are as follows:

- The lobby kiosk is continuing to give customers another choice for making a payment at the District office. Financial staff is purchasing a new kiosk and IVR due to the high transaction processing costs with the current arrangement.
- The ability to make payments at 7-Eleven and Family Dollar Store is also continuing to grow.
- A plan to update and improve the front entrance and lobby is being developed.

# STAFF CONFERENCE/SEMINAR REPORT FORM

NAME: Cobb Curtis DATE: 3/6/2017  
POSITION: Plant Operator III

## CONFERENCE SUMMARY:

- TITLE: Calgon Carbon Municipal Seminar
- ORGANIZATION: SCWVA
- LOCATION AND DATES: Glendora, Ca 2/7/2017
- GENERAL SUBJECT MATTER: Carbon Technologies

## SESSION/CLASS ATTENDANCE:

CEU EARNED  
(HRS): N/A

SESSION/CLASS ATTENDANCE	(HRS)	N/A
1) Carbon and Ion Exchange Technologies	7	
2) I		
3)		
4)		
5)		

## KEY POINTS/BENEFITS RELATING TO WORKGROUP, DEPARTMENT AND/OR OVERALL OPERATIONS:

I learned how GAC carbon is made and reactivated, as well as backwashing procedures for deep bed filters and contactors  
Also learned best available technologies for Chromium 6 removal.

## REVIEWED BY:

SUPERVISOR: \_\_\_\_\_ DATE: \_\_\_\_\_

DEPARTMENT MANAGER: Myron V. Masaya DATE: 3-6-17