PALMDALE WATER DISTRICT

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March 14, 2013

Agenda for a Meeting
of the Facilities Committee of the Palmdale Water District
Committee Members: Robert Alvarado-Chair, Gordon Dexter
to be held at the District's office at 2029 East Avenue Q, Palmdale

Tuesday, March 19, 2013

5:15 p.m.

NOTE: 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.

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. 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.

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

1) Roll Call.

2) Adoption of Agenda.

3) Public Comments.

4) Action Items: (The public shall have an opportunity to comment on any action item as each item is considered by the Committee prior to action being taken.)

4.1) Consideration and possible action on approval of minutes of regular meeting held February 19, 2013.

4.2) Discussion and possible action on infrastructure management elements identified in the Strategic Plan. (Chair Alvarado)

4.3) Discussion and possible action on pending water quality regulations. (Committee Member Dexter)

4.4) Discussion and possible action on budget increase for Palmdale Ditch maintenance and repair. (Chair Alvarado)

5) Information Items.

5.1) Update on Facilities Committee goals and District projects. (Chair Alvarado)

5.2) Update on monitoring of wind turbine through Black & Veatch. (Engineering Manager Knudson)

5.3) Other.

6) Board members' requests for future agenda items.

7) Adjournment.

DENNIS D. LaMOREAUX,
General Manager

DDL/dd

AGENDA ITEM NO. 4.2

PALMDALE WATER DISTRICT
BOARD MEMORANDUM

DATE: March 13, 2013 **March 19, 2013**

TO: FACILITIES COMMITTEE **Facilities Committee Meeting**

FROM: Mr. Dennis D. LaMoreaux, General Manager

RE: ***AGENDA ITEM NO. 4.2 – DISCUSSION AND POSSIBLE ACTION ON INFRASTRUCTURE MANAGEMENT ELEMENTS IDENTIFIED IN THE STRATEGIC PLAN***

Attached for the Committee's review is Section 3.0 Infrastructure Management from the District's Strategic Plan.

3.0 INFRASTRUCTURE MANAGEMENT

Element Objective and Strategy: Our objective is to provide a high quality water distribution system for current and future customers. We will carefully maintain our existing system and ensure that future additions will meet District standards.

3.1 *Plan for improvements and expansion of the existing water delivery infrastructure* – The 2007 Water System Master Plan Update being prepared by Carollo Engineers (engineering consultant) and the associated EIR will serve as the basis for improving and expanding the District's water delivery infrastructure.

3.1.1 *Existing Infrastructure Plan* – The 2007 Water System Master Plan Update includes development of an existing system hydraulic model and identifying improvements needed to mitigate existing deficiencies. The existing system Capital Improvement Program (CIP) will be a prioritized list of recommended improvement projects to correct identified system deficiencies or to take advantage of potential efficiencies. A communication plan for informing the public and District Board/staff of the various projects in the existing system CIP will be prepared. The projects identified will be placed in future budgets and constructed as recommended in the Master Plan.



3.1.2 *Future Infrastructure Plan* – The 2007 Water System Master Plan Update includes the expansion of the existing system hydraulic model to include build out and various intermediate scenarios to account for phasing of the District's water distribution system as development progresses. Future system construction triggers will be identified to allow the District to construct required future capital improvements according to the pace of development. A 10-year future system Capital Improvement Program (CIP) will be developed. A communication plan for informing the public and District Board/staff of the various projects in the future system CIP will be prepared. The projects identified will be placed in future budgets and constructed as recommended in the Master Plan.

3.2 *Develop a Headquarters/Maintenance Yard Facilities Master Plan* – Establish future needs of office headquarters and facilities yard. Produce master plan layout of headquarters and facilities yard. Update and redefine building sizes, parking areas, and roadways using the 2007 Water System Master Plan update. Refine layout and implement.

3.3 *Develop an Asset Management Program* – Establish procedures and develop programs for planned management of District facilities and equipment including headquarters and facility buildings, well and booster sites, and District equipment. Work will include educating staff on asset management, developing the overall program and approach, and implementing the program.

3.4 *Maintain Littlerock reservoir storage capacity* – The Littlerock Dam and Reservoir are located on Littlerock Creek below the confluence of Santiago Canyon in the Angeles National Forest. The Reservoir was constructed in 1924 with an initial design capacity of 4,300 acre-feet. The capacity has been substantially reduced over time by deposition of sediment behind the Dam, and Reservoir capacity is further being reduced at a rate of approximately 30 to 40 acre-feet per year. The District proposes to

excavate sediment from the reservoir and construct a grade control structure (proposed project) at, or just downstream of, River Station 4,235, also known as Rocky Point to restore water storage and flood capacity of the reservoir and to prevent sediment loss and headcutting of the stream channel upstream of Rocky Point in order to prevent the incidental "take" of arroyo toad (*Bufo californicus*), a federally endangered species. Upon obtaining the necessary permits, the District will develop plans and specifications utilizing an outside firm and publicly advertise for construction bids for the actual sediment removal and disposal.

3.4.1 *Work with USFS and consultants to complete environmental (CEQA/NEPA) documents* – the District and the United States Forest Service, Angeles National Forest will prepare a joint Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for the District's proposed Littlerock Reservoir Sediment Removal Project. The District (as the State Agency under the California Environmental Quality Act) and the Forest Service (as the Federal Agency under the National Environmental Policy Act) will continue to work together to obtain the necessary permits to comply with CEQA and NEPA. An outside consulting firm will be utilized to assist with the preparation of necessary permits.

3.4.2 *Implement sediment removal program* – the District will develop a removal program that will monitor the amount of annual deposition of sediment within the reservoir and determine if removal of sediment is required in order to maintain Littlerock reservoir storage capacity. The removal program will require annual surveys and mapping of the reservoir bottom and may be conducted with in-house resources. Upon determination, if sediment is to be removed in order to maintain reservoir capacity, an outside contractor may be engaged to assist with the removal effort.



3.5 *Improve the security of PWD facilities* – The District is now faced with the need to add security to its normal operations more than in the past. A review of security improvement recommendations from the Vulnerability Assessment, the ranking of those recommendations, and the development and implementation of a plan to complete the recommendations will improve security at District facilities.

PALMDALE WATER DISTRICT
BOARD MEMORANDUM

DATE: March 13, 2013 **March 19, 2013**

TO: FACILITIES COMMITTEE **Facilities Committee Meeting**

FROM: Mr. Tim Moore, Facilities Manager

VIA: Mr. Dennis D. LaMoreaux, General Manager

RE: ***AGENDA ITEM NO. 4.4 – DISCUSSION AND POSSIBLE ACTION ON BUDGET INCREASE FOR PALMDALE DITCH MAINTENANCE AND REPAIR***

Recommendation:

Staff recommends no increase be made to the budget for repair and maintenance of Palmdale Ditch.

Background:

At the last Facilities Committee meeting, the repair and maintenance of Palmdale Ditch was reviewed in depth. Chair Alvarado requested staff prepare a cost estimate for increasing the annual budget for this repair and maintenance.

Staff has surveyed several areas of concern in Palmdale Ditch. One area of concern is the first tunnel, which is 379 feet in length and has shown some leakage in the past. Estimating the leakage rate at approximately 20 gallons a minute and our typical run time at two months per year, the loss of water in this section of the Ditch is approximately 5.3 acre foot of water. The cost to replace that water is $180.00 per acre foot, or $954.00. After researching a couple of different ways to repair the tunnel, the Shotcrete System was determined to be the most efficient solution. The cost to repair this tunnel with the Shotcrete System is $125,070.00.

The other area of concern is an Earthen section of the Ditch. This section experiences leakage after water flows through the Ditch for a certain amount of time, typically three weeks or so of saturation at a flow rate similar to the rate mentioned above.

It is estimated that the Ditch runs at two months per year; however, run times do vary depending on wet or dry years. Adding these two repairs together, the Ditch repair cost for these two areas is approximately $1,908.00 a year. This estimate is provided to help put into perspective the cost ratio of repairing the Ditch at this time and the cost of lost water.

Photographs of these areas will be available at the Committee meeting.