PALMDALE WATER DISTRICT

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LAGERLOF, SENECAL, GOSNEY & KRUSE LLP
Attorneys

February 20, 2014

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, February 26, 2014

7:00 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) Pledge of Allegiance.

2) Roll Call.

3) Adoption of Agenda.

4) Public comments for non-agenda items.

5) Presentations:

   5.1) No presentations scheduled at this time.

6) Action Items - Consent 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.)

6.1) Approval of minutes of regular meeting held February 12, 2014.

6.2) Payment of bills for February 26, 2014.

6.3) Approve and authorize an agreement with MWH ($196,043) for the update of the Water System Master Plan. ($200,000.00 - Budgeted – Assistant General Manager Knudson/Facilities Committee)

6.4) Approval to fill one vacant District position as follows: Field Service Tech. 1. (Budgeted – Human Resources Manager Emery/Personnel Committee)

6.5) Approval to concurrently fund the Community & Government Affairs Coordinator position and defund the Water Conservation Supervisor position. (Human Resources Manager Emery/Personnel Committee)

6.6) Approval of revisions to the Organization Chart. (Human Resources Manager Emery/Personnel Committee)

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) Consideration and possible action on Resolution No. 14-7 Honoring Retired Sheriff Lee Baca for his 48 years of service. (Director Estes)

7.2) Consideration and possible action on Board and staff attendance at conferences, seminars, and training sessions as follows:

a) None at this time.

7.3) Adjourn to meeting of the Palmdale Water District Public Facilities Corporation.

7.4) Consideration and possible action on Resolution No. 14-8 Approving an Amendment to Installment Purchase Agreement and Certain Other Actions in Connection Therewith. (Finance Manager Williams)

8) Information Items:

8.1) Reports of Directors: Meetings/Committee Meetings/General Report.

8.2) Report of General Manager.

a) District vacancies.

b) Palmdale Recycled Water Authority status.

c) Monthly Department Reports.

8.3) Report of Attorney.

9) Public comments on closed session agenda matters.

10) Closed session under:

10.1) Government Code Section 54956.9(d)(1), pending litigation: *Antelope Valley Ground Water Cases.*

10.2) Government Code Section 54956.9(d)(1), pending litigation: *United States, et al. v. J-M Manufacturing Company, Inc., et al., United States District Court for the Central District of California Case No. ED CV06-0055-GW.*

10.3) Government Code Section 54956.9(d)(1), pending litigation: *Central Delta Water Agency vs. Department of Water Resources, Sacramento Superior Court Case No. 34-2010-80000561.*

10.4) Government Code Section 54956.9(d)(1), pending litigation: *Velez v. City of Palmdale, et al, Los Angeles Superior Court Case No. MC023216.*

11) Public report of any action taken in closed session.

12) Board members' requests for future agenda items.

13) Adjournment.

DENNIS D. LaMOREAUX,
General Manager

DDL/dd

PALMDALE WATER DISTRICT

BOARD MEMORANDUM

DATE:	February 20, 2014	**February 26, 2014**
TO:	BOARD OF DIRECTORS	**Board Meeting**
FROM:	Mr. Matthew Knudson, Assistant General Manager	
VIA:	Mr. Dennis LaMoreaux, General Manager	
RE:	***AGENDA ITEM NO. 6.3 – APPROVE AND AUTHORIZE AN AGREEMENT WITH MWH ($196,043) FOR THE UPDATE OF THE WATER SYSTEM MASTER PLAN***	

Recommendation:

Staff and the Facilities Committee recommend that the Board:

1. Approve a professional services agreement with MWH in the not-to-exceed amount of $196,043 to update the Water System Master Plan for the District; and

2. Authorize the General Manager to execute an agreement with MWH utilizing our standard professional services agreement for same.

Background and Justification:

The Palmdale Water District's service area can experience a high rate of growth, leading to significant water infrastructure needs and water system improvements. By updating its' water system facilities master plan and implementing the recommended projects, the District ensures that its water system can accommodate and meet the water demands of planned developments without sacrificing service to existing customers. Objectives of the Water Master Plan Update are divided into four primary categories:

- Water System Demand
- Water System Facilities Planning
- Water System Operations
- Sources of Funding

The District updates its Water System Master Plan periodically to provide a reference document for existing water system operations and maintenance and a framework for future water system planning. The last time the Water System Master Plan was updated was in 2001, and prior to that, the update was in 1996. Both of these updates were completed by MWH and were very complete and detailed planning documents. In 2007, the District did enter into a contract with a different firm after going through the Request for Proposals (RFP) selection process, but that plan was never finalized or adopted by the Board. Since then, the District has been utilizing the 2001 Water System Master Plan and both the water demands and planning projections have changed within our service area.

Due to MWH's experience with the District and understanding of the District's water system and needs, staff is recommending to enter into an agreement with MWH to perform this work as outlined in the attached proposal vs. going through the RFP process.

After completion of the engineering and planning work as outlined in the attached proposal, the next step prior to finalizing the Water System Master Plan Update will be to comply with CEQA by completing a Programmatic Environmental Impact Report (PEIR). This work will be done under a separate contract and the District will use the RFP process in selecting a consultant to perform said work.

Strategic Plan Element

Strategic Goal 3.1 – Plan for improvements and expansion of the existing water delivery infrastructure.

Budget

The approved 2014 Budget includes $200,000.00 under Studies and Planning Documents to complete the proposed update of the Water System Master Plan.

Supporting Documents:

- MWH proposal to update Palmdale Water District's Water Master Plan

January 27, 2014

Mr. Matthew Knudson
Engineering Manager
Palmdale Water District
2029 East Avenue Q
Palmdale, California 93550

Subject: Proposal to Update Palmdale Water District's Water Master Plan

Dear Mr. Knudson:

Per your request, attached is MWH's proposal to prepare an update to the Palmdale Water District's (District) Water Master Plan. MWH previously developed the District's Water Master Plan and Water Master Plan Update, in 1996 and 2001, respectively. The 2006 Water Master Plan Update was prepared to the Draft Final stage by Carollo Engineers, but was never completed. MWH is pleased to submit this proposal to update the 2006 Water Master Plan to current conditions, and looks forward to working with the District on this important project.

Dave Ringel, P.E., will serve as the Project Manager for this work. Dave has over 40 years of experience and is familiar with the District's system having worked on prior planning efforts for the District. Ganesh Krishnamurthy, P.E., will serve as the Project Engineer and will be supported by a team of well-qualified professional. Victor Harris and Ash Dhingra will support the MWH Team and provide QA/QC services. Mr. Dhingra (AKD Consulting) has over 40 years of experience and has successfully completed projects for the District in the past.

MWH proposes a not-to-exceed fee of $196,043. As shown on the attached spreadsheet and billing terms, the work is to be performed on an hourly rate basis. MWH will complete a draft report within five months of the Notice to Proceed, and complete a final report two weeks after receiving comments on the draft report from the District.

We look forward to successfully accomplishing this work; if you have any questions on this proposal, please contact Dave Ringel at (626) 568-6189.

Sincerely,

David Ringel, P.E.
Project Manager

Steven P. Weber, PhD
Vice President and Regional Manager

Scope of Services

The proposed scope of work for the 2014 Water Master Plan Update is as follows:

MWH will update the District's 2006 Draft Final Water Master Plan to develop a 2014 Water Master Plan Update (WMPU) for the District.

TASK 1 – BACKGROUND RESEARCH

Subtask 1.1 – Background Research and Information Update

Prior to the kick-off meeting, MWH will review changes to the water system since the Draft Final Master Plan in 2006. At the kick-off meeting, MWH will collect the following data from the District:

- Prior Studies and Models: MWH assumes that an electronic copy of the 2006 Draft Final Water Master Plan and an electronic copy of the hydraulic model will be provided by the District.
- Production and Billing Data: MWH will obtain customer billing data for the previous five years (up to 10 years if available), annual water production, as well as maximum and minimum day information from the District for at least the previous five years (up to 20 years if available) at the kick-off meeting. MWH will use these data to develop peaking factors and to establish water loss factors for the District's system.
- Land Use Data: MWH will obtain current land use and land planning information for the areas within the District's service area. MWH assumes that this information is available in GIS format (as a shapefile). MWH will collect information on proposed developments within the District's service area and use available aerial photography (from the District or publicly available data via the Internet) to identify vacant parcels in the District. MWH will use these data to estimate future water demands within the District's service area (Task 6.1).
- Facility Data: MWH will obtain information on new pipelines and facilities constructed by the Palmdale Water District since the 2006 Draft Final Master Plan. MWH assumes that this information will be available as GIS shapefiles.
- MWH assumes that following information is available from the District's SCADA system over an extended period at hourly or smaller (15-minute) time-steps:
    - Reservoir levels;
    - Flows at treatment plants;
    - Upstream and downstream pressures and flow at turnouts;
    - Flows through pressure regulating stations;
    - Flow and discharge pressure at well sites and booster pumps.

  MWH assumes that these data are available in electronic format (Microsoft Excel or Microsoft Access). MWH will use these data to develop 24-hour diurnal curves for the District's service area.

Subtask 1.2 – Review and Validate Planning Criteria

MWH will review and update the planning criteria developed as part of the 2006 Draft Final Master Plan. These criteria will be updated based on the District's standard specifications, physical and hydraulic pipeline conditions, discussions with District staff, existing literature, hydraulic model requirements, field developed hydrant testing data, and MWH's experience in performing similar projects in Southern California.

TASK 2 – Hydraulic Model Update and Calibration

Subtask 2.1 - Update Existing System Model

MWH will update the District's InfoWater model to delete abandoned pipelines and facilities from the model and add new pipelines and facilities to the hydraulic model. Pump curves and facility controls will be updated based on discussions with District staff. MWH assumes that information regarding new facilities will be provided as GIS shapefiles.

Subtask 2.2 – Static or Steady State Calibration

MWH will identify hydrant locations in the model calibration plan for conducting flow tests. For the purposes of budgeting, MWH will identify 20 test locations. Two weeks before the tests, MWH will present a hydrant testing protocol for the District staff to review. MWH will solicit input from the District staff to ascertain areas with historic low pressure and/or fire flow problems. MWH will prepare a map showing the locations of the fire hydrants to be tested in the field. MWH assumes that the District will provide the necessary equipment to conduct the tests and that the District staff will perform the tests and provide data to MWH. MWH's Engineer(s) will witness these tests. MWH assumes that the duration of the hydrant testing will be spread out over a two-day period. MWH will calibrate the model for steady state conditions and compare the results of the model simulation with field data obtained during the hydrant tests. MWH will discuss results of the calibration with District staff during the progress meetings. MWH has budgeted a total of 82 hours for this task. If steady state calibration cannot be completed within the budgeted hours, MWH will notify the District regarding the additional effort that will be required to calibrate the model.

Subtask 2.3 – Dynamic or Extended Period Simulation (EPS)

The second phase of calibration is to calibrate the model for a 24-hour period so that extended period simulation (EPS) conditions can be evaluated. Typical values for valve settings, pump and control settings, and tank levels at hourly intervals during Average Day conditions will be used to match the model to real-world conditions. Calibration will then proceed for Maximum Day conditions, using hourly SCADA data provided by the District to calibrate the model for high demand conditions, comparing data for pressure, flow, and level data provided by the District. MWH has budgeted 120 hours for this task. If the desired goal of ten (10) percent accuracy for the selected calibration points cannot be achieved within the budgeted 120 hours, MWH will notify the District regarding the additional effort that will be required to calibrate the model.

TASK 3 – EXISTING SYSTEM

Subtask 3.1 - Develop Demands and Peaking Factors

MWH will use the information collected in Task 1 to evaluate past and current production and consumption records to determine average day demands for the system. The allocation of demands for the existing system will be based on District's billing data attributes such as Area Parcel Number (APN) and customer addresses. Based on these attributes, MWH will geocode the consumption or billing data to obtain a spatial distribution of the water demands. MWH will provide a sample file to the District that shows the desired format to obtain the maximum matching score in the geo-coding process and minimize time consuming data manipulation and/or manual geo-coding of unmatched accounts. For accounts that do not have a service address or APN, MWH will distribute the unmatched demand equally throughout the system based on demand type (i.e. distribute unmatched commercial demand equally among the parcels identified as "commercial").

Given the significant decline in system demands since 2006, MWH recommends that new diurnal curves and peaking factors be developed for this WMPU. MWH will develop the diurnal curves based on hourly SCADA data obtained from the District. MWH assumes that these data will be available in electronic format as either Microsoft Excel or Microsoft Access files. MWH will review the diurnal curve data and adjust them for data anomalies. Diurnal curves will be input into the model at the appropriate locations.

MWH will determine maximum day peaking factors and peak hour factor from existing data obtained in Task 1.1 for existing and future demand analysis

Subtask 3.2 – Analyze Existing System Model

MWH will run the hydraulic model to verify existing system pressures under 24-hour maximum day demand conditions, and present a list of deficiencies and recommendations. MWH will not evaluate the District's system for fire flow conditions. Fire flow recommendations from the 2006 Draft Final Master Plan will be included in the 2014 Master Plan Capital Improvement Program (CIP) without independent verification from MWH.

Subtask 3.3 - Develop Recommendations for Existing System

MWH will update the storage and booster pump calculations in the 2006 Draft Final Master Plan to reflect current existing conditions. MWH will develop recommendations to correct any deficiencies identified in Subtask 3.2.

MWH will develop recommendations for an infrastructure replacement program (pipelines, booster pumps, groundwater wells, well pumps, reservoirs, service meters, and hydrants), including priorities and projected costs for implementing such a program. The goal of such a program is to ensure the collection of adequate reserves to replace system components as they reach the end of their useful lives.

Subtask 3.4 - Existing System Facility Condition Assessment

MWH will perform a visual condition assessment of the District's potable water reservoirs, booster pump stations, and groundwater wells. MWH will develop useful life criteria for these facility types for the District's review. MWH has budgeted 16 hours of site visits to assess the physical condition of these facilities. Discussions with operations staff will be held during these site visits. Based on the dates of installation and the general condition of the facilities as determined by visual inspection, MWH will estimate the remaining useful life for the facilities. MWH will develop a schedule for the replacement and rehabilitation of these facilities.

Subtask 3.5 - Develop Existing System CIP

MWH will develop a Capital Improvement Program (CIP) for the existing system based on the evaluation performed in subtask 3.3 and 3.4, including an anticipated implementation schedule for the recommended improvements and an opinion of probable costs. A description of the benefit to be received from each recommended improvement will also be listed as part of the CIP.

TASK 4 – WATER SOURCES

MWH will review the Strategic Water Resources Master Plan and incorporate the recommendations of that Plan into the 2014 Water System Master Plan where the recommendations impact the water distribution system. MWH will develop a summary of water sources and recommendations for inclusion in the 2014 Water Master Plan. MWH will identify the number of groundwater wells, and, based on recommendations in the Strategic Water Resources Master Plan, identify potential locations of proposed groundwater wells to meet future demands.

TASK 5 – WATER QUALITY REGULATIONS

MWH will update the discussions in the 2006 Draft Final Water Master Plan on water quality regulations and current water quality to reflect existing conditions.

TASK 6 – FUTURE SYSTEM

Subtask 6.1 - Develop Future Water Use Projections

MWH will identify vacant parcels and inactive service connections in the District's service area based on readily available data. Using existing demand data and work performed on previous master plans, MWH will develop water duty factors for land use classifications. Using a land use-based methodology, MWH will develop demand projections at full development (build out) for the District. MWH will develop population projections based on the 2010 census data and projections published by the Southern California Association of Governments. These population projections will be used to develop demand projections for years 2020, 2025 and 2030. Demand projections developed for the Strategic Water Resources Master Plan will be considered in the development of these demand projections.

Subtask 6.2 - Develop and Analyze Future System Model

MWH will use the computer model of the existing system, including recommended improvements, as a basis for developing the build out system computer hydraulic model. The model will be a 24-hour extended period simulation model and will analyze maximum day and peak hour conditions at build out.

MWH will perform pump station and storage sizing calculations for the water system at build out. MWH will identify the pipelines and facilities necessary to serve the system at build out, both for transmission of water sources to the water system as well as for transmission throughout the water system.

Subtask 6.3 - Develop Future System CIP

Based on the recommended facilities at build out, MWH will identify the projects necessary to meet demands through year 2030, which will be a subset of the projects recommended at build out. Storage and booster pump calculations will be developed for year 2030. A 2030 maximum day hydraulic model scenario will be developed to verify the operation of the system with the 2030 recommendations.

MWH will develop a Capital Improvement Program through year 2030, with an anticipated implementation schedule and an estimate of the costs to implement the program. Improvements necessary to accommodate growth will be separated from those addressing existing deficiencies. A description of the benefit to be received from each recommended improvement will also be listed as part of the CIP.

The District currently tracks new connections in each zone. MWH will calculate the timing for capital improvement projects based on the number of additional connections that can be served by the existing system. Tables listing the improvements will be provided.

TASK 7 – SOURCES OF FUNDING

MWH will provide a discussion on different financing options such as rates, bonds, certificates of participation (COP), assessments, connection fees, grants, SRF loans, etc. available to implement the WSMP projects. MWH will not perform a financial rate study as part of this task.

TASK 8 – REPORTS

Subtask 8.1 - Prepare Draft Report

MWH will prepare a draft report (2014 Draft Water System Master Plan) based on updated sections of the 2001 Master Plan and previously submitted, reviewed, and approved technical memoranda on each of the tasks described above. Copies of the computer model and data files will be installed on the District's computer in conjunction with the draft report. Ten (10) copies of the draft report will be submitted.

Subtask 8.2 - Prepare Final Report

MWH will submit the final report (2014 Final Water System Master Plan) following receipt of the District's comments on the draft report. Appropriate calculations and supporting documentation will be submitted as appendices to the final report. Twenty (20) copies of the final report will be submitted. MWH will also submit electronic versions of the final Master Plan in Microsoft Word and Adobe Acrobat formats.

TASK 9 – MEETINGS

MWH will attend one (1) kick-off meeting, and four (4) monthly progress meetings to review submittals and progress with District staff. MWH has also budgeted for two (2) presentations at Facilities Committee and one (1) presentation at a Board Meeting.

TASK 10 – PROJECT MANAGEMENT

MWH will conduct project management, schedule and budget tracking, and invoicing to confirm that the project is moving ahead on budget and as scheduled.

Palmdale Water District
2014 Water Master Plan Update
SCHEDULE OF HOURLY RATES FOR ENGINEERING FEES
(January 1, 2014 through December 31, 2014)

Senior Company Officer	$250 per hour
Principal Engineer II	$225 per hour
Principal Engineer I	$200 per hour
Supervising Engineer	$175 per hour
Senior Engineer	$150 per hour
Professional Engineer	$130 per hour
Associate Engineer	$110 per hour
Senior Administrator	$110 per hour
Administrator	$100 per hour

* The individual hourly rates include salary, overhead, and profit.
Non-salary expenses and outside services attributable to the project shall include:

- Living and traveling expenses including mileage of employees when away from the home office on business connected with the Services;
- Mileage at IRS established guidelines, currently $0.56/mile (effective January 1, 2014);
- An Associated Project Cost ("APC") rate for telecommunications, postage, computers, word processing, incidental photocopying and related equipment in the amount of $9.50 per labor hour;
- The identifiable costs of reproduction, printing and binding applicable to the project;
- The actual cost of outside and subcontracted services, and other direct costs identifiable to the Project, will be charged at the above-stated cost plus 15% markup, to cover overhead, administration, other indirect costs and profit.

Compensation is based on a single not-to-exceed fee based on the following contract terms:

1. Payment of the invoiced amount for the professional engineering services shall be based on monthly invoices describing the work performed and expenses incurred during the preceding month.
2. Payment shall be due within 30 days after date of monthly invoice describing the work performed and expenses incurred during the preceding month.

Proposed Fee: 2014 Water Master Plan Update

Task No.	Task/Subtask	Number of Hours					Total Hours	Labor ($)	Other Direct Costs ($)	Subconsultant	Total Fee ($)
		Principal Engineer	Supervising Engineer	Senior Engineer	Associate Professional	Administrator				AKD Consulting	
1	**Background Research**										
1.1	Background Research and Information Update	0	0	8	16	0	24	$2,960	$262		$3,222
1.2	Review and Validate Planning Criteria	2	2	4	4	0	12	$1,840	$131	$1,000	$2,971
2	**Hydraulic Model Update and Calibration**										**$0**
2.1	Update Existing System Model	0	0	12	32	0	44	$5,320	$481		$5,801
2.2	Static or Steady State Calibration	2	4	16	60	0	82	$10,150	$1,471		$11,621
2.3	Dynamic or Extended Period Simulation (EPS)	2	4	16	120	0	142	$16,750	$1,551	$1,000	$19,301
3	**Existing System**										**$0**
3.1	Develop Demands and Peaking Factors	2	4	0	8	0	14	$2,030	$153		$2,183
3.2	Analyze Existing System Model	2	4	16	40	0	62	$7,950	$677		$8,627
3.3	Develop Recommendations for Existing System	2	4	16	40	0	62	$7,950	$677		$8,627
3.4	Existing System Facility Condition Assessment	2	4	16	40	0	62	$7,950	$1,252	$3,500	$12,702
3.5	Develop Existing System CIP	2	4	16	40	0	62	$7,950	$677	$1,500	$10,127
4	**Water Sources**	**2**	**4**	**8**	**0**	**0**	**14**	**$2,350**	**$153**		**$2,503**
5	**Water Quality Regulations**	**2**	**4**	**8**	**0**	**0**	**14**	**$2,350**	**$153**		**$2,503**
6	**Future System**										**$0**
6.1	Develop Future Water Use Projections	2	4	16	40	0	62	$7,950	$677		$8,627
6.2	Develop and Analyze Future Water System Model	2	4	16	60	0	82	$10,150	$896		$11,046
6.3	Develop Future System CIP	2	4	16	40	0	62	$7,950	$677	$1,500	$10,127
7	**Sources of Funding**	**2**	**4**	**4**	**0**	**0**	**10**	**$1,750**	**$109**		**$1,859**
8	**Reports**										**$0**
8.1	Prepare Draft Report	8	16	56	60	16	156	$21,200	$3,429	$1,500	$26,129
8.2	Prepare Final Report	8	16	40	40	8	112	$15,800	$4,099	$1,500	$21,399
9	**Meetings**	**24**	**32**	**40**	**0**	**0**	**96**	**$17,000**	**$1,049**		**$18,049**
10	**Project Management**	**8**	**24**	**0**	**0**	**12**	**44**	**$7,320**	**$1,297**		**$8,617**
	Totals	**76**	**142**	**324**	**640**	**36**	**1218**	**$164,670**	**$19,873**	**$11,500**	**$196,043**

Resumes

David Ringel, PE

Project Manager

Years of Experience
- 40

Education
- MS, Civil Engineering, Stanford University
- BS, Civil Engineering, Loyola University (Los Angeles)

License/Registration
- Professional Engineer (Civil) – CA

Office Location
- Arcadia, CA

Summary

Mr. Ringel has 40 years of experience, including project management, preparation of master plans and feasibility studies, financial and economic analysis of water supply and water reuse projects, computer hydraulic network analyses, and environmental impact assessments. He also has extensive experience in planning and evaluating potable water, recycled water, and sewer systems. He has managed numerous projects involving the distribution and collection system modeling, facilities assessments, water supply evaluations, financial and economic analysis, and stakeholder outreach. Projects have involved long-term watershed management, including environmental impact of water transfers, water resources development, strategic plans, funding procedures, and financial feasibility evaluations.

Relevant Project Experience

Project Manager, Water Master Plan, Palmdale Water District, CA

Mr. Ringel directed the preparation of a detailed water master plan for Palmdale Water District (PWD) which utilized the H2ONET computer hydraulic model to both simulate the existing system and to plan for future system growth. A 24-hour extended period simulation was developed to model the hour-by-hour activities of 8 pressure zones which included 43 groundwater wells, two surface water treatment plants, 40 booster pumps, 27 storage tanks, approximately 1.8 million feet of pipeline, and 15 pressure regulating valves. The objective of the hydraulic model was to evaluate existing system deficiencies and to develop a capital improvement plan for future system growth. In addition, a detailed analysis of water sources was conducted to determine how the District could best provide adequate water for future growth in an area where there is a limit on surface water allotments and where the groundwater basin is in an overdraft condition.

Project Manager, Water System Master Plan, City of Pasadena Department of Water and Power, CA

Mr. Ringel directed the preparation of a water system master plan that defined recommended capital improvements through the year 2020. The project was the first master plan prepared for the City in over 30 years, and was completed under a tight time schedule. The plan included evaluations of water demands and supplies, distribution system model and evaluations, preparation of a capital improvement program (CIP), and evaluation of potential funding options. The 18-year CIP focused on replacement of aging infrastructure (pipelines and reservoirs), and totaled $235M.

Project Manager, Recycled Water Feasibility Study and Environmental Documentation, City of Pasadena Department of Water and Power, CA

Mr. Ringel managed a feasibility study to evaluate the cost-effectiveness of serving recycled water to potential customers in and near the Department of Water and Power service area. The project included updating a previous survey of potential users, developing a recycled water distribution system model, conducting an incremental cost analysis to determine the most cost effective system, and preparing a

feasibility report that met the requirements of the US Bureau of Reclamation Title XVI grant funding program. Preliminary design of the initial project phase was included in the feasibility report. Environmental documentation (CEQA and NEPA) was prepared for selected project configuration, with particular emphasis on the initial project phase.

Project Manager, Water and Recycled Water Master Plan, City of Pomona, CA

Mr. Ringel managed a water and recycled water master plan which evaluated the existing water and recycled water system, evaluated future system requirements through 2025, and developed water supply strategies to meet the future system needs for the City of Pomona. The Water Master Plan recommended system improvements to address existing and future system deficiencies as well as provided a phasing and financing plan to address necessary system improvements. Mr. Ringel and his team conducted an analysis on the City's existing and projected water demands, evaluated its water supply sources, and evaluated the potable water system (including facilities, distribution system, and supply improvements). He also evaluated the feasibility of extending the recycled water system to serve other potential recycled water customers. The project included a phased Capital Improvement Program (CIP) and a financial plan was also prepared to address the capital requirement for funding the CIP.

Project Manager, Water Management Plant Update, Coachella Valley Water District, Coachella Valley, CA

Mr. Ringel was responsible for the overall management of the update of the District's 2002 Water Management Plan. The existing plan projected water demands and supplies through 2035 and established the District's approach for eliminating groundwater overdraft in the Coachella Valley. In response to revised growth projections and reduced imported water supply reliability, the plan update evaluates new water management approaches to maintain a sustainable water supply through 2040. The update also included preparation of a subsequent program environmental impact report which evaluates the impacts of changes to the plan since 2002.

Lead Planning Engineer, State Water Project Extension to Coachella Valley, Coachella Valley Water District (CVWD), CA

As Lead Planning Engineer, Mr. Ringel is responsible for development of water supply capacity criteria that is used to size a possible extension of the California State Water Project (SWP). The project involves up to 90 miles of large-diameter pipeline, pump stations and hydro-electric facilities to convey 320 to 500 cfs of imported water to the Coachella Valley. Important planning considerations include the long-term water supply needs of CVWD and its partnering agencies (Desert Water Agency, Metropolitan Water District of Southern California, San Gorgonio Pass Water Agency and others), current and future availability of SWP water, recharge and storage capacities of multiple groundwater basins along the alignments, environmental constraints and economics. If feasible, this project would significantly enhance water supply reliability and quality in Southern California.

Ash Dhingra, PE - AKD Consulting

Technical Review

Years of Experience
- 35

Education
- MS, Environmental Engineering Loyola University
- MS, Structural Engineering, California State University
- BS, Civil Engineering, Panjab University, Chandigarh, India

License/Certification
- Professional Engineer (Civil) – CA
- Professional Engineer (Structural) – CA

Summary

Mr. Dhingra is a technical leader with more than 35 years of experience in the planning and management of water supply and water distribution projects. Mr. Dhingra's background includes water supply studies, design and construction administration of various hydraulic structures, to water reclamation master plans, studies, and designs. Responsibilities have included design and construction management and administration of various hydraulic structures such as reservoirs, pumping stations, and water treatment plants. He develops innovative solutions to complex structural problems encountered in the field due to changes in site conditions, and he also provides quality assurance/quality control oversight of major water and wastewater projects.

Relevant Project Experience

Project Manager Water Master Plans and Water Supply Studies

Served as principal-in-charge or project manager for water master plans and water supply studies for the cities of Azusa, Burbank, Beverly Hills, Corona, Pasadena, Pomona, Riverside, Westminster, and Upland, California, and for the Eastern Municipal Water District, Palmdale Water District, the Rubio Canyon Land and Water Association and the Los Angeles Department of Water and Power.

Project Director, Water Reclamation Master Plan, Torrance, CA

Directed the development of a Water Reclamation Master Plan for the City of Torrance.

Project Director, Water Reclamation Study, Burbank, CA

Directed the development of the Water Reclamation Study and Expansion Design for the City of Burbank.

Principal-In-Charge, Hydraulic Network Modeling for the Water System for the Los Angeles Department of Water and Power, Los Angeles, CA

As Principal-in-Charge, involved in providing resources, and troubleshooting with the final model for overall client satisfaction.

Principal-in-Charge, Disinfection Study for Chloramination Conversion for Los Angeles Department of Water and Power, Los Angeles, CA

As a Project Director/Principal -in- Charge, led the disinfection study for Chloramination conversion relative to various distribution and storage facilities for the Los Angeles Department of Water and Power.

Principal-in-Charge, Enhanced Coagulation Pre-design for the Los Angeles Aqueduct Filtration Plant for Los Angeles Department of Water and Power, Los Angeles, CA

As a Principal-in-Charge reviewed the technical memoranda and the preliminary design documents for the Enhanced Coagulation at the Los Angeles Aqueduct Filtration Plant.

Principal-in-Charge, Water Source Certification, Cucamonga Valley Water District, Cucamonga, CA

As Principal –in-Charge was responsible for the water source certification as spring water, per the term as defined by FDA, in the Deer Canyon (Tunnel A) Spring through California Department of Public Health. The work was conducted on behalf of CVWD by a major international bottled water company. The work involved a coordinated team work by geologists, hydrogeologists and cultural resources investigation in addition to the engineering work required to substantiate the historical presence of spring.

Project Director, Reclaimed Water System, Phase A, Burbank, CA

Directed the reclaimed water system expansion for the City, which involved the design of 17,000 linear feet of 16-inch ductile iron transmission pipelines, water storage reservoirs and pumping stations.

Project Manager, Water Supply Study, Riverside Public Utilities, Riverside, CA

Responsible for the water supply study evaluating fourteen different alternatives for the City to consider augmenting its water supply. The alternatives included treatment and/or blending of existing wells in Riverside South Basin, GAC and anion exchange treatment at existing wells, water exchanges, water transfers, development of wells in Colton basin and desalination of wells in Arlington basin.

Value Engineering, Diemer Plant Stabilization Project, Metropolitan Water District of Southern California

As a member of the Value Engineering Team for the Diemer Plant South Area Stabilization Project.

Project Manager, Encino Water Quality Improvements Project for the Los Angeles Department of Water and Power, Los Angeles, CA

As Project Manager led the efforts for multiple tasks for the Encino Water Quality Improvements Project.

Ganesh Krishnamurthy, PE, PMP

Project Engineer

Years of Experience
- 8

Education
- MS, Civil Engineering, Texas A&M University
- BS, Civil Engineering, University of Mumbai

License/Certification
- Professional Engineer (Civil) – CA
- Project Management Professional

Office Location
- Arcadia, CA

Summary

Mr. Krishnamurthy has a diverse experience in hydraulic modeling, water system master planning, water resources planning, and financial and economic analysis of water supply projects. Mr. Krishnamurthy has developed and calibrated large hydraulic models for steady-state, 24-hour EPS, and multiple-day EPS. He has successfully managed complex water resources projects involving multiple agencies and has a good understanding of the technical, operational, and political issues associated with water resources planning in Southern California. Mr. Krishnamurthy is also proficient in developing cost optimization models for water supply systems.

Relevant Project Experience

Project Manager, Planning Hydraulic Model Update Los Angeles Department of Water and Power, CA

LADWP is updating their Planning Hydraulic Model, a water distribution model covering their transmission pipelines (12-inch diameter and greater), and all pump station, reservoirs, and regulation stations using Innovyze's InfoWater software. Mr. Krishnamurthy is leading the team to assist LADWP in a program management assignment for LADWP's modeling efforts and developing detailed process and procedures for model implementation, and well as responding to questions on modeling process and procedures. A unique aspect of this project is that the entire model will be created by LADWP's staff with MWH providing direction and guidance. MWH is developing step-by-step modeling procedures for each stage of the LADWP model development and calibration using Innovyze's InfoWater software. These procedures are being documented in a series of technical memoranda and are submitted in packages of three groups (Early Model Development – to allow LADWP to begin the modeling process), Core Model Development (the remainder of the model development tasks), and Model Calibration.

Project Manager/ Lead Modeler, Jefferson Parish Hydraulic Modeling Project

Mr. Krishnamurthy is currently managing a hydraulic modeling project for Jefferson Parish in the New Orleans area. Jefferson Parish provides water supply to a population of approximately 433,000 in two distinct, hydraulically independent regions separated by the Mississippi River: the East Bank and the West Bank. Each bank has its own water treatment plant. The average demand in the system is approximately 72 million gallons per day. MWH developed and calibrated the models for the two independent systems in 2005. After Hurricane Katrina, Jefferson Parish was concerned about the reliability of the independent systems since there are no back-up supply sources should the treatment plants fail. Mr. Krishnamurthy is responsible for developing an integrated hydraulic model combining the two systems with pipelines proposed to be constructed under the Mississippi River. Mr. Krishnamurthy also updated the independent hydraulic models to add a large number of pipelines that were replaced after Hurricane Katrina. Mr. Krishnamurthy combined the two models into a single hydraulic model. Each hydraulic model had existing and future scenarios for three demand conditions: ADD, MDD, and PHD. Mr. Krishnamurthy is currently evaluating six different alternatives for assessing the reliability of the combined systems.

Project Manager, Urban Management Plan Update, Elsinore Valley Municipal Water District, CA

Mr. Krishnamurthy successfully led a team in collecting and analyzing historical water condition data for updating the District's Water Management Plan. Mr. Krishnamurthy was responsible for preparing a Plan that complied with the conservation requirements of Senate Bill SB 7X_7. Mr. Krishnamurthy established the District's baseline water use and developed per capita water use targets for the District to comply with the requirements of SB 7X_7. Mr. Krishnamurthy was responsible for reviewing and submitting monthly invoices, preparing presentations for District staff, and attending monthly progress meetings with District staff.

Project Engineer, Water Distribution System Master Plan Update, Elsinore Valley Municipal Water District, Lake Elsinore, CA

Mr. Krishnamurthy was the Project Engineer for the update of the Water Distribution System Master Plan for the Elsinore Valley Municipal Water District. He was responsible for the overall technical execution of the project, with the main focus on planning for the additional water infrastructure to handle the expected growth in the region. The project included updating water demand projections, updating and calibrating the existing hydraulic model, and development of a capital improvement program. He was responsible for overseeing the model development and model calibration effort.

Project Engineer, Water Master Plan, City of Ontario, CA

This project includes potable water demand projections for both the existing city (Old Model Colony) and the recently annexed expansion (New Model Colony). Mr. Krishnamurthy developed a 24-hour hydraulic model from the City's GIS database in H2OMAP Water. The hydraulic model includes over 530 miles of pipeline, 11 storage reservoirs, and over 20 pumping stations. This model was calibrated for steady-state, 24 hour EPS, and 13-day EPS scenarios. Mr. Krishnamurthy performed extensive hydraulic analyses of the City's water system for existing and build-out demand conditions. Hydraulic analyses also involved evaluation of system reliability with water sources out of service and an extensive fire-flow evaluation for system deficiencies. In addition, Mr. Krishnamurthy assisted in the preparation of the City's CIP which has a planning horizon of year 2030.

Staff Engineer, Water Master Plan, City of Riverside, Riverside, CA

Mr. Krishnamurthy assisted in the development of the City of Riverside Water Master Plan. The project included the development of a 24-hour H2OMAP Water model from the City's GIS. Existing demands were evaluated, and future demands were projected based on empty parcels. The water distribution system was evaluated for hydraulic deficiencies and future growth once the model was developed. A $160 million Capital Improvement Program developed. An infrastructure replacement program was also developed in addition to the CIP. Mr. Krishnamurthy assisted in the hydraulic model development and model calibration tasks of this project.

Project Engineer, Water Facilities Master Plan, California Water Service Company East Los Angeles District, CA

Mr. Krishnamurthy was responsible for developing a water supply strategy for the District. Poor groundwater quality and an aging groundwater supply infrastructure were principal areas of concern that restricted the District from completely utilizing its annual allowable pumping allocation. In addition, the District wanted to reduce its reliance on imported water supplies. As part of the water supply strategy, Mr. Krishnamurthy identified groundwater wells for replacement, identified suitable locations for drilling new groundwater wells, formulated alternatives to utilize groundwater wells that are inactive due to water quality issues, and performed life cycle cost analyses to identify the most cost-effective alternative for the District. In addition, Mr. Krishnamurthy assisted in water demand projections, hydraulic evaluation of the District's system, and various project management issues.

Brett Singley, EIT

Technical Resource

Years of Experience
- 7

Education
- MS, Civil & Environmental Engineering, Brigham Young University, 2013
- BS, Civil & Environmental Engineering, Brigham Young University, 2009

License/Certification
- Engineer In Training (Civil)

Office Location
- Arcadia, CA

Summary

Mr. Singley has worked for MWH in the Arcadia Regional Office as well as the Salt Lake City, Utah office. He has experience in water quality, wastewater pipeline design, recycled water, water system planning, hydraulic modeling, master planning, data collection and analysis. His current role is as a project engineer working with the water resources group on regional and local water and wastewater master planning. Mr. Singley is familiar with the design and construction of pipelines, water and wastewater plant expansions and has aided in easement negotiations and public outreach programs. In addition, he has working knowledge of a number of software applications, including ArcMap GIS, WMS, GMS, HEC-HMS, HEC-RAS, HY-8, AutoCAD, Microstation, spreadsheets and database programs as well as a few programming languages.

Relevant Project Experience

Project Engineer, Water System Master Plan, East Valley Water District, CA

Mr. Singley is currently analyzing the master plan water model for EVWD. After creating and calibrating the hydraulic model, Mr. Singley has developed multiple scenarios for known future construction within the district boundaries. The information from this model is being used by EVWD staff to assess the impact of the new development and to assist in cost allocation of future system improvements.

Project Engineer, Malibu Water System Master Plan, Los Angeles County Department of Public Works, CA

Mr. Singley created and managed the master plan water model for LACDPW. The work included calibrating the existing system, providing recommendations based on existing and future deficiencies under fire flow and emergency conditions. His work included field visits and meetings with operational staff to ensure the model was accurate and to ensure that the proposed improvements were sensible to the client.

Project Engineer, Tejon Ranch Commerce Center Hydraulic Analysis, California Water Service Company, CA

Mr. Singley created and managed the hydraulic water model for Cal Water and the Tejon-Castac Water District. The Tejon Ranch Commerce Center is a gravity fed system with no residential customers. Blend water calculations and other water quality issues were the main constraints on this system.

Project Engineer, Bear River Water Quality Report, Utah Division of Water Resources, UT

Mr. Singley was responsible for data aggregation, management, analysis, and presentation of the data and report. The Bear River Water Quality Report is an annual analysis of the water flowing through the Bear River in northern Utah. The biennial report is produced to recognize short term and long term patterns for contaminants that will affect the design of a future water treatment facility along the Bear River.

Project Engineer, Southern West Bank Water and Wastewater Master Plan, United States Agency of International Development (USAID)

Mr. Singley was a project engineer for the Water and Wastewater Master Plan for the Bethlehem and Hebron Governorates in the West Bank, Occupied Palestinian Territories. He analyzed the existing wastewater systems and proposed improvements for the communities in the region planning for the year 2035. Mr. Singley also evaluated the effects of reused water as a potential water source in areas that are lacking supply.

Project Engineer, South Outfall, North Davis Sewer District, UT

Mr. Singley analyzed existing and projected flow characteristics of an existing 24-30 inch sewer line. He designed the three-mile replacement sewer line upsized to 42-48 inch diameter pipe. In addition to a very flat slope, the project had many lateral constraints caused by wetlands, farms, homes, and future road constructions. Mr. Singley coordinated and met with utility companies, a nature preserve, the federal government, Syracuse City, Layton City, the Army Corp of Engineers, and many local farmers. Aiding in the easement acquisition to ensure the engineering behind the design was explained in suitable detail for each party involved.

Project Engineer, Secondary Water Distribution Planning, South Davis County Water District, UT

Mr. Singley investigated reservoir location options to increase the District's ability to serve 150 property owners with secondary water for irrigation. He also performed all reservoir and pipe sizing, pipe layout design, and cost analysis.

Project Engineer, Wastewater Reuse Re-Evaluation Study, North Davis Sewer District, UT

Mr. Singley reassessed interest in 15 cfs reused water from WWTP effluent. Original report in 2007 indicated very little interest and suggested the creation of a sod farm. He prepared a re-evaluation report, found two additional highly interested potential users and suggested a wetland mitigation bank that would benefit the district financially and be great for the districts relationship with the community.

Jackie Silber, GISP

GIS Specialist

Years of Experience
- 11

Education
- BA, Geography – Specialization in Geographic Information Systems, California State University, Northridge

License/Certification
- Certified GIS Professional

Office Location
- Arcadia, CA

Summary

Ms. Silber is a Senior Geographic Information Systems (GIS) Specialist at MWH with over 11 years of professional experience in GIS and technical training. Her experience includes GIS support for water resource planning, environmental remediation sampling, and demographic forecasting projects. Her GIS skills focus on geodatabase creation, manipulation and conversion of projections, CAD to GIS conversion performing spatial analysis, and the creation of cartographic figures. For the last two years, Ms. Silber has served on the Los Angeles Valley College GIS Certificate Curriculum Advisory Panel.

Relevant Project Experience

USAID Infrastructure Needs Program - Bulk Water Supply Systems Master Plan, West Bank

As part of a team responsible for defining the future water facility needs in the southern West Bank, Ms. Silber traveled to the West Bank and presented the GIS data she developed to USAID and other key stakeholders. With the help of bi-lingual staff, she also conducted a workshop for GIS specialists to review the data developed. The data included three geodatabases and a file system of existing and recommended water and wastewater infrastructure. Pipeline data was imported from AutoCAD and created from heads up digitizing on aerial photography and was compared against the hydraulic schematic. Ms. Silber assisted project managers with locating potential wells/wellfields based on topology, cone-of-depression, and other hydrologic constraints. Additionally, elevation profiles from ground surface data were created for proposed regional pipelines. Geologic scanned imagery was geo-referenced to a common projection system and a file system was created to maintain organization.

Los Angeles County Waterworks District 29 Water System Master Plan, CA

Ms. Silber compiled and developed a water infrastructure geodatabase and geocoded the water billing data to correlate metered usage data with parcels. Using current land use and future zoning parcel data, she analyzed water demands for private customers. Additionally, she created pressure zones and allocated commercial demands for fire flow in InfoWater.

Santa Susana Field Laboratory, Boeing

Ms. Silber provides ongoing GIS support including mapping soil vapor and metal concentrations, project site building features, and surficial media excavation contours. As part of mapping the soil remediation operations, she is familiar with extracting contaminate data from soil sample lab results. In addition, she designed the GIS file management structure to organize and archive frequently updated data. In May 2010, she assisted with the radiologic historical document review in which she reviewed historical reports for information on areas of radiologic activity. She then populated a database with this information.

On-Call GIS Services, Upper San Gabriel Valley Municipal Water District, CA

Ms. Silber prepared a GIS training manual and trained District personnel on editing and map creation using personal geodatabases. She created personal geodatabases with referenced design drawing PDF attachments. She also prepared two wall maps for use in the District's board room.

On-Call GIS Services, City of Westminster Water Department, CA

To provide current updates to the District's GIS data, Ms. Silber cleaned, projected, and updated the City's valves and hydrant attributes. Additionally, she cleaned the pipeline topology and created a map book for field personnel. The data was delivered and used as part of the training for water district personnel on using and maintaining the map book.

Kenter-Sylmar Groundwater Return, Los Angeles Department of Water and Power, CA

As part of the initial study for the replacement of power lines from Sylmar to Santa Monica, Ms. Silber created a set of consistent scale poster-sized figures for public outreach meetings illustrating various power line alignments.

Owens Lake Groundwater Evaluation Program (OLGEP), Los Angeles Department of Water and Power, CA

As lead cartographer, Ms. Silber provided GIS support for the identification of new well locations for dust control mitigation on Owens Lake. She was responsible for managing the GIS data for the OLGEP project. Working with hydrogeologists and modelers, she mapped the surface geology, groundwater contours, consumptive use, and water quality surrounding the Owens Lake Bed. Ms. Silber also produced well log illustrations.

Santa Ana River Groundwater Recharge Optimization Study, San Bernardino Valley Water Conservation District/San Bernardino Valley Municipal Water District, CA

Using monitoring well logs and geologic data, Ms. Silber created groundwater contours using Surfer and ArcGIS 9.3. She also created hydrographs and monitoring well boring log illustrations.

Mission Creek and Garnet Hill Subbasins Water Management Plan, Coachella Valley Water District, Desert Water Agency, and Mission Springs Water District, CA

Ms. Silber provided GIS services for a Water Management Plan in the northeast Riverside County. As the GIS Specialist for this project, Ms. Silber compiled census tract data and assisted in the population and other demographic projections. Using ArcGIS, she is also mapping watersheds and multi-habitat conservation areas.

DRAFT- PALMDALE WATER DISTRICT ORGANIZATIONAL CHART -DRAFT

BOARD OF DIRECTORS

- DIVISION 1 - ROBERT ALVARADO
- DIVISION 2 - JOE ESTES
- DIVISION 3 - GLORIA DIZMANG
- DIVISION 4 - KATHY MAC LAREN
- DIVISION 5 - VICENT DINO

VOTERS

ELECTED BOARD OF DIRECTORS

ATTORNEY — LAGERLOF, SENECAL, GOSNEY & KRUSE

FINANCIAL ADVISOR — ROBERT EGAN

AUDITOR — CHARLES Z. FEDAK

GENERAL MANAGER — DENNIS LAMOREAUX

- HUMAN RESOURCES MANAGER — JENNIFER EMERY
- WATER & ENERGY RESOURCES MANAGER — JON PERNULA
- COMMUNITY & GOVERNMENT AFFAIRS COORDINATOR — VACANT
  - WATER CONSERVATION SUPERVISOR — VACANT
  - WATER CONSERVATION AIDE — LINDA KINSEY
- EXECUTIVE ASSISTANT — DAWN DEANS
  - ADMINISTRATIVE ASSISTANT — DANIELLE HENRY
- INFORMATION TECHNOLOGY MANAGER — JIM STANTON
  - INFORMATION TECHNOLOGY TECHNICIAN 2 — TYRONE JONES

ASSISTANT GENERAL MANAGER/COO * — MATT KNUDSON

FINANCE MANAGER/CFO — MICHAEL WILLIAMS

- CUSTOMER SERVICE SUPERVISOR — GENE TAYLOR
  - ASST. CUST. SERV. SUPERVISOR — JUDITH HERNANDEZ
    - CUST. SERV. REP. 1 — MARIA AVELAR
    - CUST. SERV. REP. 1 — ANGELICA DURAN
    - CUST. SERV. REP. 1 — RUTH FLOOD
    - CUST. SERV. REP. 1 — GLORIA BARRAGAN
    - CUST. SERV. REP. 1 — HELEN GIL
    - CUST. SERV. REP 2 — CHRISTINA KOSICK
    - CUST. SERV. REP. 1 — ROSA RODRIGUEZ
    - CUST. SERV. REP. 1 — HEATHER HOMESLEY
    - CUST. SERV. REP. 1 — RAMON RODRIGUEZ
  - SENIOR FIELD SERV. TECH. — JOHN ALBRECHT
    - FIELD SERVICE TECHNICIAN 2 — TARA PEUSE
    - FIELD SERVICE TECHNICIAN 2 — BARRY FEAR
    - FIELD SERVICE TECHNICIAN 2 — ROBERT ROSATI
  - FIELD SERVICE TECHNICIAN 1 — BOB WALLACE
    - FIELD SERVICE TECHNICIAN 1 — TRACY ASTORGA
    - FIELD SERVICE TECHNICIAN 1 — CHAD KLEIN
    - FIELD SERVICE TECHNICIAN 1 — VACANT
- SENIOR ACCOUNTANT — DENNIS HOFFMEYER
  - ACCOUNTING TECHNICIAN — TAMMY LUCAS
  - ACCOUNTING ASSISTANT 2 — LANI RADOVIC

OPERATIONS MANAGER — PETER THOMPSON, JR.

- ADMINISTRATIVE TECHNICIAN — SANDRA LEBO
- SYSTEMS SUPERVISOR — KELLY JETERS
  - ELECTRONIC TECHNICIAN — ERIK BOUTHILLIER
  - ELECTRONIC TECHNICIAN — SALVADOR ZUNIGA
  - ELECTRICIAN — DENNIS TRUJILLO
  - ELECTRICIAN — DANIEL MCKINSEY
  - PUMP TECHNICIAN — RICHARD DOUBENMEIER
  - PUMP TECHNICIAN — CLAY GIBBONS
- TREATMENT PLANT SUPERVISOR — MYNOR MASAYA
  - PLANT OPERATOR 2 — JAMES PASPALOF
  - PLANT OPERATOR 2 — BARRY CRAWFORD
  - PLANT OPERATOR 2 — CHRIS BLIGH
  - PLANT OPERATOR 2 — ALEXANDER HUSSEIN
  - PLANT OPERATOR 2 — PETER HENRIE
  - PLANT OPERATOR 1 — CURTIS COBB
  - SENIOR PLANT MAINTENANCE WORKER — SCOTT MAHONEY
  - W.T.P. MAINTENANCE MECHANIC 1 — ROBERT LEVANDOSKI
- WATER QUALITY SUPERVISOR — AMANDA WILLIAMS
  - LAB ANALYST — CLEMENT DO
  - LAB ANALYST — AUDEL NAREZ

ENGINEERING MANAGER — VACANT

- PROJECT MANAGER — PETER THOMPSON, SR.
  - CONSTRUCTION INSPECTOR 2 — JOHN MENDENHALL
  - CONSTRUCTION INSPECTOR 2 — TONY ESPINOZA, SR.
  - CONSTRUCTION INSPECTOR 2 — LOREN DYKES
  - CROSS CONNECTION TECHNICIAN — LOEL HAVILAND
- ENGINEERING TECHNICIAN 2 — MICHAEL WEST
- ENGINEERING TECHNICIAN 2 — CHRIS VIDAL
- ENGINEERING TECHNICIAN 2 — RICHARD HEINONEN

FACILITIES MANAGER — TIM MOORE

- WAREHOUSE TECHNICIAN — BERNIE FISCHENICH
- WAREHOUSE TECHNICIAN — FRANK GONZALEZ
- SENIOR SERVICE WORKER — MIKE EDGAR
- SENIOR SERVICE WORKER — TONY ESPINOZA, JR.
- SENIOR SERVICE WORKER — DAVID JENKINS
  - SERVICE WORKER 2 — BRIAN ENOS
  - SERVICE WORKER 2 — JAIME MARTINEZ
  - SERVICE WORKER 2 — CARLOS IBARRA
  - SERVICE WORKER 1 — TIM CLIFFORD
  - SERVICE WORKER 1 — VACANT
  - SERVICE WORKER 1 — VACANT
  - SERVICE WORKER 1 — BRONSON PEREZ
  - SERVICE WORKER 1 — RYAN OATES
  - SERVICE WORKER 1 — CORY RIDGWAY
  - SERVICE WORKER 1 — CRISTIAN JIMENEZ
  - SERVICE WORKER 1 — VACANT
- SENIOR EQUIPMENT MECHANIC — RANDY HARDENBROOK
  - EQUIPMENT MECHANIC 2 — DARREL DEVERA
  - EQUIPMENT MECHANIC 2 — SCOTT HULSEBUS
  - EQUIPMENT MECHANIC 2 — KEN ROGERS
  - EQUIPMENT MECHANIC 2 — DANIEL MENKO

* ASSUMES THE ROLE OF GENERAL MANAGER IN HIS/HER ABSENCE

M.W. 2/20/14

Resolution No. 14-7

A Resolution of the Board of Directors of the Palmdale Water District Honoring Retired Sheriff Lee Baca For his 48 Years of Service

WHEREAS, Leroy Baca began his public service career on August 23, 1965 as a Deputy Sheriff Trainee;

WHEREAS, Sheriff Baca was appointed to Captain in 1981, was promoted to Commander of numerous stations as well as the Aero Bureau and Special Enforcement Bureau, and was again promoted to Chief on January 21, 1992;

WHEREAS, On December 7, 1998, Sheriff Baca was sworn in as Los Angeles County's 30th Sheriff having been elected by the citizens of Los Angeles County and was re-elected to a fourth term in 2010;

WHEREAS, Sheriff Baca provided leadership, management, and direction to thousands of deputy sheriffs and police officers throughout his career and was named the 2013 Sheriff of the Year by the National Sheriffs' Association.

NOW, THEREFORE, the Board of Directors of the Palmdale Water District do hereby recognize retired Sheriff Lee Baca for his 48 years of service and overall contributions to the community and for his department's role in keeping the county's crime rate among the lowest among major metropolitan areas.

PASSED AND ADOPTED by the Board of Directors of the Palmdale Water District at a regular meeting held February 26, 2014.

_____

KATHY MAC LAREN, President,
Board of Directors

ATTEST:

_____

JOE ESTES, Secretary,
Board of Directors

P A L M D A L E W A T E R D I S T R I C T

B O A R D M E M O R A N D U M

DATE: February 19, 2014 **February 26, 2014**

TO: BOARD OF DIRECTORS **Board Meeting**

FROM: Michael Williams, Finance Manager/CFO

VIA: Mr. Dennis D. LaMoreaux, General Manager

RE: ***AGENDA ITEM NO. 7.4 – CONSIDERATION AND POSSIBLE ACTION ON RESOLUTION NO. 14-8 APPROVING AN AMENDMENT TO INSTALLMENT PURCHASE AGREEMENT AND CERTAIN OTHER ACTIONS IN CONNECTION THEREWITH***

Recommendation:

Staff recommends approving Resolution 14-8 which is an amendment to the Installment Purchase Agreement related to the 2013A Water Revenue Bonds.

Alternative Options:

The alternative is to not approve Resolution No. 14-8.

Impact of Taking No Action:

The impact of taking no action will not allow the District to pledge the Rate Stabilization Fund to the 2013A bonds and the 2012 Bank of Nevada private placement.

Background:

The District has funded the Rate Stabilization Fund as outlined in the Installment Purchase Agreement from the 2013A Water Revenue Bonds. The refinancing and private placement of the 1998 Certificates of Participation with Bank of Nevada also has an Installment Purchase Agreement.

This amendment will allow the one Rate Stabilization Fund to be pledged to both financing issues, Bank of Nevada private placement and 2013A Water Revenue Bonds.

Strategic Plan Element:

This work is part of Strategic Element 6.0 Financial Planning

Budget:

This item has no impact on the budget.

Supporting Documents:

- Resolution No. 14-8
- Amendment No. 2 to Installment Purchase Agreement

RESOLUTION NO. 14-8

RESOLUTION OF THE BOARD OF DIRECTORS OF THE PALMDALE WATER DISTRICT APPROVING AN AMENDMENT TO INSTALLMENT PURCHASE AGREEMENT AND CERTAIN OTHER ACTIONS IN CONNECTION THEREWITH

WHEREAS, the Palmdale Water District (the "District") is an irrigation district duly organized and existing under and pursuant to the Constitution and laws of the State of California; and

WHEREAS, the District is authorized to enter into agreements with the Palmdale Water District Public Facilities Corporation (the "Corporation") to finance the acquisition and construction of improvements to the District's water system; and

WHEREAS, the District and the Corporation have previously entered into that certain Installment Purchase Agreement, dated as of November 1, 2012, as amended by that certain Amendment No. 1 to Installment Purchase Agreement, dated as of May 1, 2013 (collectively, the "2012 Installment Purchase Agreement"), for the purpose of prepaying certain installment payments in order to reduce the District's borrowing costs; and

WHEREAS, the District and the Corporation desire to further amend the 2012 Installment Purchase Agreement for the purpose of revising certain provisions therein relating to the Rate Stabilization Fund;

NOW, THEREFORE, the Board of Directors of the Palmdale Water District hereby finds, determines, declares and resolves as follows:

SECTION 1. Each of the above recitals is true and correct.

SECTION 2. Each of the President of the Board of Directors, the General Manager of the District and the Director of Financial Services of the District, or their designees (collectively, the "Authorized Officers"), acting alone, is hereby authorized to enter into an amendment to the 2012 Installment Purchase Agreement substantially in the form of Amendment No. 2 to Installment Purchase Agreement on file with the Secretary in order to revise certain provisions relating to the Rate Stabilization Fund. The Authorized Officers are hereby further authorized to take any other actions necessary to effect such amendment.

SECTION 3. This Resolution shall take effect immediately upon its passage.

PASSED AND ADOPTED by the Board of Directors of the Palmdale Water District, California, this 26th day of February, 2014, by the following vote:

AYES:

NAYS:

ABSENT:

ABSTAIN:

_____
President

ATTEST:

_____
Secretary

AMENDMENT NO. 2 TO INSTALLMENT PURCHASE AGREEMENT

by and between

PALMDALE WATER DISTRICT
PUBLIC FACILITIES CORPORATION,
as Seller

and

PALMDALE WATER DISTRICT,
as Purchaser

Dated as of February 1, 2014

Relating to

PALMDALE WATER DISTRICT
REFUNDING REVENUE CERTIFICATES OF PARTICIPATION
SERIES 1998

AMENDMENT NO. 2 TO INSTALLMENT PURCHASE AGREEMENT

This AMENDMENT NO. 2 TO INSTALLMENT PURCHASE AGREEMENT (the "Agreement") is executed and entered into as of February 1, 2014 by and between the PALMDALE WATER DISTRICT (herein called the "District"), a public corporation and political subdivision of the State of California, and PALMDALE WATER DISTRICT PUBLIC FACILITIES CORPORATION (herein called the "Corporation"), a California public benefit nonprofit corporation;

WITNESSETH:

WHEREAS, the District and the Corporation previously executed and entered into an Installment Purchase Agreement (the "Original Installment Purchase Agreement"), dated as of November 1, 2012, for the purpose of prepaying certain installment payments in order to reduce the District's borrowing costs, and

WHEREAS, the District and the Corporation previously executed and entered into an Amendment No. 1 to Installment Purchase Agreement (the "First Amendment," and with the Original Installment Purchase Agreement, the "Installment Purchase Agreement"), dated as of May 1, 2013, for the purpose of amending certain definitions in the Original Installment Purchase Agreement; and

WHEREAS, the District and the Corporation now desire to revise certain provisions in the Installment Purchase Agreement relating to the Rate Stabilization Fund;

NOW, THEREFORE, IN CONSIDERATION OF THE PREMISES AND OF THE MUTUAL AGREEMENTS AND COVENANTS CONTAINED HEREIN AND FOR OTHER VALUABLE CONSIDERATION, THE PARTIES HERETO DO HEREBY AGREE AS FOLLOWS:

Section 1. Amendments to Section 309 of Installment Purchase Agreement. Section 309 of the Installment Purchase Agreement is hereby stricken in its entirety and the following substituted therefor:

"Rate Stabilization Fund. In order to avoid fluctuations in its water rates, the District has previously established a fund entitled the "Rate Stabilization Fund" to be held by the District or in an account of the District at an institution approved by the District, which the District hereby agrees and covenants to maintain so long as this Installment Purchase Agreement is in effect. The District may deposit in the Rate Stabilization Fund from time to time Revenues which the District, in its discretion, deems available for deposit in the Rate Stabilization Fund. From time to time, the amounts deposited in the Rate Stabilization Fund may be transferred by the District to pay any lawful expenses of the District, including but not limited to Debt Service and Maintenance and Operation Expenses. The Rate Stabilization Fund will not be held by the trustee for the benefit of other Bonds or Contracts but may be expressly pledged to the repayment of any Bonds or Contracts. Amounts in the Rate Stabilization Fund are hereby irrevocably pledged to the payment of the Installment Payments and the Series 2013A Installment Payments on a parity basis."

Section 2. Amendment to Exhibit "A" of Installment Purchase Agreement. The following definition is hereby added to Exhibit "A" of the Installment Purchase Agreement:

"Series 2013A Installment Payments. The term "Series 2013A Installment Payments" means the Series 2013A Installment Payments scheduled to be paid by the District under and pursuant to that certain Installment Purchase Agreement dated as of May 1, 2013, by and between the District and the Palmdale Water District Public Financing Authority, relating to the Palmdale Water District Public Financing Authority's Water Revenue Bonds, Series 2013A."

Section 3. Definitions. The terms not defined herein shall have the meaning ascribed to them in the Installment Purchase Agreement.

Section 4. Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be an original and all of which shall constitute but one and the same instrument.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK.]

IN WITNESS WHEREOF, the parties hereto have executed and entered into the Amendment No. 2 to Installment Purchase Agreement by their officers thereunto duly authorized as of the day and year first above written.

PALMDALE WATER DISTRICT PUBLIC FACILITIES CORPORATION, as Seller

By: _____
President

ATTEST:

_____
Secretary

PALMDALE WATER DISTRICT, as Purchaser

By: _____
General Manager

ATTEST:

_____
Secretary

ACKNOWLEDGED AND CONSENTED TO:

BON INVESTMENTS, INC., a wholly owned subsidiary of Western Alliance Bank, and assignee of Bank of Nevada

By: _____
Authorized Officer

PALMDALE RECYCLED WATER AUTHORITY (PRWA)
PALMDALE WATER DISTRICT
2029 EAST AVENUE Q
PALMDALE, CALIFORNIA
REGULAR MEETING AGENDA NO. 9
NOVEMBER 20, 2013
7:00 P.M.

www.cityofpalmdale.org
www.palmdalewater.org.

1. **CALL TO ORDER.**

   Called to order at 7:00 p.m.

2. **ROLL CALL:** **DIRECTORS JAMES C. LEDFORD, JR., GORDON DEXTER, LAURA BETTENCOURT, KATHRYN MAC LAREN, AND HELEN GONZALEZ**

   PRESENT: Chair Ledford, Vice Chair MacLaren, Directors Dexter, Bettencourt and Gonzalez

3. **PLEDGE OF ALLEGIANCE.**

   Pledge of Allegiance was led by Director Dexter

4. Adopt Resolution No. PRWA 2013-018, a Resolution of the Palmdale Recycled Water Authority Appointing officers for 2014. (Staff Reference: Authority Counsel Ditzhazy)

   Authority Counsel Ditzhazy presented the staff report.

   Public Comments: None.

   Motion: Move to Adopt Resolution No. PRWA 2013-018.
   Moved by Director Dexter, seconded by Director Bettencourt.

   Vote: Motion Carried (5-0)
   Yes: Chair Ledford, Vice Chair MacLaren, Directors Dexter, Bettencourt and Gonzalez

5. WAIVER OF FULL READING OF RESOLUTION(S).

Motion: Move to waive full reading of the Resolution(s) to be considered and voted on at this meeting.
Moved by Vice Chair MacLaren, seconded by Director Bettencourt

Vote: Motion Carried (5-0)
Yes: Chair Ledford, Vice Chair MacLaren, Directors Dexter, Bettencourt and Gonzalez

6. CONSENT CALENDAR – PUBLIC COMMENTS ONLY:

None.

7. CONSENT CALENDAR:

7.1 Adopt Resolution No. PRWA 2013-016, a Resolution of the Palmdale Recycled Water Authority amending its conflict of interest code. (Staff Reference: Authority Counsel Ditzhazy)

7.2 Adopt Resolution No. PRWA 2013-017, a Resolution of the Palmdale Recycled Water Authority adopting job descriptions for the Executive Director, Assistant Executive Director, and the Treasurer/Auditor. (Staff Reference: Authority Counsel Ditzhazy)

7.3 Authorize the Board Chair to execute an attorney conflict of interest waiver with James D. Ciampa, Esquire and Lagerlof, Senecal, Gosney & Kruse, LLP. (Staff Reference: Authority Counsel Ditzhazy)

7.4 Approve the Minutes from the previous meeting held on September 18, 2013. (Staff Reference: Secretary Smith)

7.5 Approve receipt and filing of the Treasurer's Report for the month ended September 30, 2013. (Staff Reference: Treasurer/Auditor Johnston)

Motion: Move to approve all items listed under this Consent Calendar.
Moved by Vice Chair MacLaren, seconded by Director Bettencourt.

Vote: Motion Carried (5-0)
Yes: Chair Ledford, Vice Chair MacLaren, Directors Dexter, Bettencourt, and Gonzalez.

8. PUBLIC COMMENTS:

None.

9. SPECIAL REPORT:

9.1 Informational report on the status of the City of Palmdale General Municipal Election on November 5, 2013 and the effect on the Palmdale Recycled Water Authority. (Staff Reference: Authority Counsel Ditzhazy)

Authority Counsel Ditzhazy spoke regarding the Voting Rights Act lawsuit and the results of the City's General Municipal Election. The issue regarding certification of the election results is currently with the Court of Appeals. All Councilmembers will stay in office until a successor is sworn in, possibly by the January 8, 2014 City Council meeting, but it could go to the City's February meeting. Business will continue as normal and new members for the PRWA will be seated after the recently elected Councilmembers are sworn in.

10. INFORMATIONAL REPORT OF THE BOARD OF DIRECTORS, EXECUTIVE DIRECTOR, AND ASSISTANT EXECUTIVE DIRECTOR.

Executive Director LaMoreaux stated that the PRWA Website is coming along slowly, but it will be up and ready for use after the first of the year.

Assistant Executive Director Mischel stated that the Recycled Water reallocation contracts are still with the Sanitation District. The person who was working on them retired, so they are bringing the new person up-to-speed.

Director Gonzalez asked what the status was of the Domenic Massari Park recycled water project. Executive Director LaMoreaux responded that Domenic Massari is one of the anticipated next phases of the recycled water project. Carollo Engineering is still working on the Master Plan. Once the Master Plan is completed an EIR will be done on each project. We will then develop that into a possible fee for development that will help pay for the projects and then we can begin building the next phase.

Vice Chair MacLaren asked about capturing some of the storm water and recycling the storm water, and inquired whether the City has thought about doing this? Chair Ledford stated that it's not a bad idea and he believes the Sanitation District has some information on ground water storage. Assistant Executive Director Mischel commented that the part of the Upper Amargosa project is capturing storm flow. There was further discussion regarding ground water storage, Little Rock Creek, Big Rock Creek, Upper Amargosa, and retention basins within developments.

11. ADJOURNMENT:

Chair Ledford asked the Board if there was anything that needed to be done in the month of December.

Vice Chair MacLaren stated that they would need to seat another member as this was Director Dexter's last meeting, but that could be done at the January 2014 meeting.

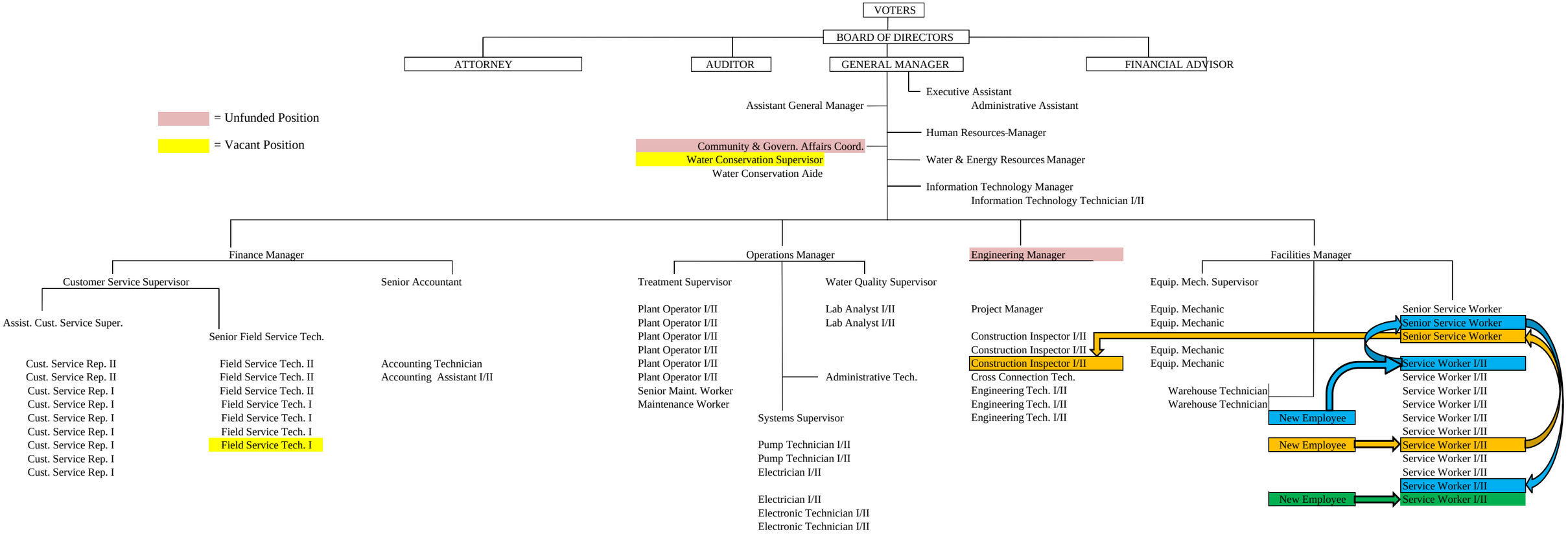
Chair Ledford adjourned the meeting at 7:21 p.m. to January 15, 2014 at 7:00 p.m. at the City of Palmdale Council Chambers located at 38300 Sierra Highway, Suite B, Palmdale, California.

PASSED, APPROVED, AND ADOPTED this 19th day of February, 2014.

James C. Ledford, Jr.
Chair

ATTEST:

Danielle Henry
Acting Secretary



SUMMARY TABLE

Hiring Process Authorization		Filled By			Status
Date	Position				
11/27/2013	Service Worker I/II	New Hire			Complete
11/27/2013	Service Worker I/II	Senior Service Worker	Service Worker I/II	New Hire	Complete
11/27/2013	Construction Inspector I/II	Senior Service Worker	Service Worker I/II	New Hire	Complete

Palmdale Water District

Position Vacancy and Hiring Process Status

Date: February 19, 2014 DDL