

Since 1918



# PALMDALE WATER DISTRICT

2029 East Avenue Q • Palmdale, California 93550 • Telephone (661) 947-4111  
Fax (661) 947-8604

www.palmdalewater.org  
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## Board of Directors

ROBERT E. ALVARADO  
Division 1

JOE ESTES  
Division 2

MARCO HENRIQUEZ  
Division 3

KATHY MAC LAREN  
Division 4

VINCENT DINO  
Division 5

ALESHIRE & WYNDER LLP  
Attorneys

February 4, 2016

***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 10, 2016***

***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 (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.
- 2) Roll Call.
- 3) Adoption of Agenda.
- 4) Public comments for non-agenda items.
- 5) Presentations:
  - 5.1) None at this time.

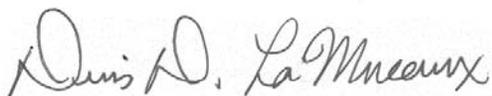


Providing high quality water to our current and future customers at a reasonable cost.



- 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 special meeting held January 19, 2016.
  - 6.2) Approval of minutes of regular meeting held January 27, 2016.
  - 6.3) Payment of bills for February 10, 2016.
  - 6.4) Approval of Resolution No. 16-4 Amending Resolution No. 16-3 for Employer Paid Member Contributions for CalPERS. (Human Resources Director Emery)
  - 6.5) Approval of Lease Agreement with GE Capital for lease of printers. (\$3,390.00/month for five years – Budgeted – Information Technology Manager Stanton)
  
- 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) Status report on Cash Flow Statement and Current Cash Balances as of December, 2015. (Financial Advisor Egan)
  - 7.2) Status report on Financial Statements, Revenue, and Expense and Departmental Budget Reports for December, 2015. (Finance Manager Williams)
  - 7.3) Status report on committed contracts issued and water revenue bond projects. (Assistant General Manager Knudson)
  - 7.4) Consideration and possible action on Resolution No. 16-5 being a Resolution of the Board of Directors of the Palmdale Water District Declaring Continued Emergency Water Conservation Restrictions and Reaffirming State Water Resources Control Board Regulations for the Purpose of Achieving the Mandatory Prescribed 28% Reduction in Potable Water Use and Extending Stage 3 of Palmdale Water District's Urban Water Management Plan Calling for Mandatory Conservation in Compliance with the State Water Resources Control Board's Emergency Regulation as Amended on February 2, 2016. (Water & Energy Resources Director Pernula)
  - 7.5) Consideration and possible action on Special District Local Agency Formation Commission (LAFCO) Representative. (General Manager LaMoreaux)
  - 7.6) Consideration and possible action to reconsider the Palmdale Water District's nominee to fill the Public Water Supplier seat on the Antelope Valley Watermaster Board of Directors. (Director Mac Laren)
  - 7.7) Consideration and possible action on the Board offices of Treasurer and Secretary. (Director Mac Laren)
  - 7.8) Consideration and possible action to authorize the formation of an Ad Hoc Committee to consider and potentially recommend changes to Article 4 of the Palmdale Water District's Rules and Regulations. (President Alvarado)

- 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 2016 Budget:
  - a) A.W.W.A. Spring Conference “Building a Sustainable Future” to be held March 21 – 24, 2016 in Sacramento.
  - b) Professionals in Human Resources Association California HR Conference to be held August 29 – 31, 2016 in Long Beach.
- 8) Information Items:
  - 8.1) Reports of Directors:
    - a) Meetings/General Report.
    - b) Standing Committee/Assignment Reports (Chair):
      - 1) None at this time.
  - 8.2) Report of General Manager.
  - 8.3) Report of General Counsel.
- 9) Public comments on closed session agenda matters.
- 10) Break prior to closed session.
- 11) Closed session under:
  - 11.1) Conference with Legal Counsel – Existing Litigation: A closed session will be held, pursuant to Government Code §54956.9 (d)(1), to confer with Special Litigation Counsel regarding pending litigation to which the District is a party. The title of such litigation is as follows: *Antelope Valley Ground Water Cases*.
  - 11.2) Conference with Legal Counsel – Existing Litigation: A closed session will be held, pursuant to Government Code §54956.9 (d)(1), to confer with District General Counsel regarding pending litigation to which the District is a party. The title of such litigation is as follows: *Palmdale Water District v. Lagerlof, et al, Los Angeles County Superior Court Case No. BC 605450*.
- 12) Public report of any action taken in closed session.
- 13) Board members' requests for future agenda items.
- 14) Adjournment.



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DENNIS D. LaMOREAUX,  
General Manager

DDL/dd

**PALMDALE WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** February 2, 2016 **February 10, 2016**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Jennifer Emery, Human Resources Director  
**VIA:** Mr. Dennis D. LaMoreaux, General Manager  
**RE:** ***AGENDA ITEM NO. 6.4 - APPROVAL OF RESOLUTION NO. 16-4  
AMENDING RESOLUTION NO. 16-3 FOR EMPLOYER PAID  
MEMBER CONTRIBUTIONS FOR CALPERS***

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**Recommendation:**

Staff recommends adoption of Resolution No. 16-4 amending Resolution No. 16-3 for Employer Paid Member Contributions for CalPERS.

These Resolutions reflect the Board's decision to have an amount equal to the 2016 COLA increase be paid by employees toward the employee contribution of CalPERS. This amount will be 0.74% paid by the employees bringing the total contribution to 2.41%.

**Alternative Options:**

If there is no Resolution, then CalPERS will not allow the payroll deductions.

**Background:**

This was voted on at the January 19, 2016 Budget Special Meeting.

Resolution No. 16-3 was approved at the January 27, 2016 Regular Board meeting and had an effective date of January 1, 2016. For record-keeping purposes, CalPERS recommended the effective date be revised to January 24, 2016. Resolution No. 16-4 reflects this effective date.

**Strategic Plan Initiative:**

This work is part of Strategic Initiative No. 2 – Organizational Excellence.

**Budget:**

This item will not affect the budget.

**Supporting Documents:**

- Resolution No. 16-4 Amending Resolution No. 16-3 for Employer Paid Member Contributions for CalPERS.

**RESOLUTION NO. 16-4  
AMENDING RESOLUTION NO. 16-3  
FOR EMPLOYER PAID MEMBER CONTRIBUTIONS**

WHEREAS, the governing body of the Palmdale Water District has the authority to implement Government Code Section 20691;

WHEREAS, the governing body of the Palmdale Water District has a written labor policy or agreement which specifically provides for the normal member contributions to be paid by the employer;

WHEREAS, one of the steps in the procedures to implement Section 20691 is the adoption by the governing body of the Palmdale Water District of a Resolution to commence said Employer Paid Member Contributions (EPMC);

WHEREAS, the governing body of the Palmdale Water District has identified the following conditions for the purpose of its election to pay EPMC:

- This benefit shall apply to all employees of the Palmdale Water District.
- This benefit shall consist of paying 4.59 percent of the normal member contributions as EPMC.
- The effective date of this Resolution shall be January 24, 2016.

NOW, THEREFORE, BE IT RESOLVED that the governing body of the Palmdale Water District elects to pay EPMC, as set forth above.

BY:

\_\_\_\_\_  
Name of Official

\_\_\_\_\_  
President, Board of Directors  
Title

February 10, 2016

\_\_\_\_\_  
Date adopted and approved

APPROVED AS TO FORM:

BY: \_\_\_\_\_  
ALESHIRE & WYNDER, General Counsel

**PALMDALE WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** February 4, 2016 **February 10, 2016**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Mr. Jim Stanton, Information Technology Manager  
**VIA:** Mr. Dennis D. LaMoreaux, General Manager  
Mr. Matt Knudson, Assistant General Manager  
**RE:** ***AGENDA ITEM NO. 6.5 – APPROVAL OF LEASE AGREEMENT WITH  
GE CAPITAL FOR LEASE OF PRINTERS***

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**Recommendation:**

Staff recommends the Board approve a new lease agreement with GE Capital for the leasing of printers.

Palmdale Water District currently leases thirty-four (34) Kyocera printers. These printers are nearing the end of their useful life. Staff are seeing increased cases of breakage and outages lasting longer to repair due to the age and high usage of these devices.

The District currently pays \$3,485.53 per month for the existing printer fleet.

The new lease proposal replaces all existing printers, increases our monthly volume to 34,000 for black and white and 13,500 for color prints, with overage charges of .007 for black and white and .05 for color, all for a monthly cost of \$3,390.00. A monthly savings of \$95.53 or annual savings of \$1,146.36. Total cost at the end of 60 months is \$203,400.00.

**Alternative Options:**

The alternative is to consider purchasing of replacement printers. If the District were to consider replacing all 34 printers with the recommended replacement Kyocera models, the cost to the District would be approximately \$190,095.00. Estimate does not include shipping nor tax. Annual maintenance based on 34,000 color and 15,500 black and white prints is \$10,956.00. Toner costs per 50,000 documents are estimated at \$2,374.00.

BOARD OF DIRECTORS  
PALMDALE WATER DISTRICT  
VIA: Mr. Dennis D. LaMoreaux, General Manager  
Mr. Matt Knudson, Assistant General Manager

February 4, 2016

Printer	Qty	Cost	Total
TASKalfa 5551ci	2	\$ 20,325.00	\$ 40,650.00
TASKalfa 5501i	1	\$ 11,228.00	\$ 11,228.00
TASKalfa 3051ci	2	\$ 10,765.00	\$ 21,530.00
TASKalfa 3501ci	1	\$ 8,292.00	\$ 8,292.00
Ecosys FS-8650	1	\$ 6,154.00	\$ 6,154.00
Ecosys M6530cdn	8	\$ 5,879.00	\$ 47,032.00
Ecosys FS-3550idn	2	\$ 13,758.00	\$ 27,516.00
Ecosys FS-4200	17	\$ 1,629.00	\$ 27,693.00
			\$ 190,095.00

**Impact of Taking No Action:**

The District will continue paying the monthly \$3,485.53 fee for the next 18 months and at the end of the 18 months look for alternative printers to lease or purchase. District staff will continue to endure the breakages and outages.

**Strategic Plan Initiative:**

This work is part of Strategic Initiative No. 3 – Systems Efficiency.

**Budget:**

This is under Budget Expenditures Item No. 1005-021-000.

**Supporting Documents:**

- Kyocera Proposal
- TASKalfa 5551ci Spec Sheet
- TASKalfa 5501i Spec Sheet
- TASKalfa 3501i Spec Sheet
- TASKalfa 3051ci Spec Sheet
- Ecosys FS-C8650DN Spec Sheet
- Ecosys M3550idn Spec Sheet
- Ecosys M6530cdn Spec Sheet
- Ecosys FS-4200DN Spec Sheet



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TECHNOLOGY CENTERS

Global Reach  
Local Presence  
Individual Accountability

Color and Monochrome Printers & MFP's

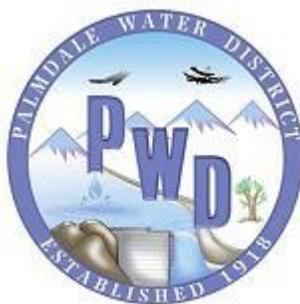
Wide Format Devices

Document Management Solutions



## Document Assessment Executive Summary

Prepared For: James Stanton



*Prepared By: Sara Hashimi Major Account Representative*



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Wide Format Devices

Document Management Solutions

## *Recommended/Proposed Implementations*

<u>Qty</u>	<u>Model</u>	<u>Description</u>
2	TASKalfa 5551ci	55 PPM <b>COLOR</b> Copy, Print & Scan
<u>Qty</u>	<u>Model</u>	<u>Description</u>
1	TASKalfa 5501i	55 PPM B/W Copy, Print & <b>COLOR</b> Scan
<u>Qty</u>	<u>Model</u>	<u>Description</u>
2	TASKalfa 3051ci	30 PPM <b>COLOR</b> Copy, Print & Scan
<u>Qty</u>	<u>Model</u>	<u>Description</u>
1	TASKalfa 3501ci	35 PPM B/W Copy, Print & <b>COLOR</b> Scan
<u>Qty</u>	<u>Model</u>	<u>Description</u>
1	Ecosys FS-8650	55/50 PPM High Volume <b>COLOR</b> Printer
<u>Qty</u>	<u>Model</u>	<u>Description</u>
8	Ecosys M6530cdn	32 PPM Desktop <b>COLOR</b> Copy, Print, Scan & Fax
<u>Qty</u>	<u>Model</u>	<u>Description</u>
2	Ecosys FS-3550idn	52 PPM B/W Printer
<u>Qty</u>	<u>Model</u>	<u>Description</u>
17	Ecosys FS-4200	52 PPM B/W Printer



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## ADVANTAGES

- ❖ Replacing existing printers & copiers with **33 Brand New Devices!! Complete Refresh!**
- ❖ Same low cost per page for ENTIRE FLEET!
- ❖ Standardizing your equipment throughout the fleet:
  - ✓ Big Copiers all have the same **COLOR** Touch Panels
  - ✓ **One Driver** for the entire product line
- ❖ New fleet will consist of **(8)** different models and only **(6)** different toner types!
  - ✓ Reduces storage space for toners
- ❖ Right sizing your fleet to meet your company's needs
- ❖ One Company, One Invoice and One Service Provider for all your Document Management needs
  - ✓ Reduce multiple different contracts into one
- ❖ Proactive Service vs. Reactive Service – Remote Monitoring of your entire fleet:
  - ✓ Monitor meters – no need for us to call in & get meter reads
- ❖ One Fixed Cost vs. Variable Hidden Costs associated with Printers & Fax Machines
- ❖ **Kyocera's Ecosys Technology helps your company become more GREEN EFFICIENT! Our technology helps reduce the waste associated with printing!**



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**Current Cost:**

**Lease Payment:**

**Lease Payment:** \$ **3,060.60**

**Average Monthly Overage cost:** *(based on last 12 months)* \$ **318.43**

**TASKalfa 520i Service Payment:** *(Annually \$1,278.00)* \$ **106.50**

**TOTAL OUTPUT COST:** **\$ 3,485.53**

*60 Month Document Management Program Pricing*

<b>Monthly B/W Volume</b>	<b>B/W Overages</b>	<b>Monthly Color Volume</b>	<b>Color Overages</b>
34,000	.007	13,500	.05

***Monthly Payment: \$3,390.00***

***Monthly Savings of \$ 95.53!!  
Annual Savings of \$ 1,146.36!!***

**Payment Includes:**

- Termination of current lease obligations
- Pick up & return of current machines
- Delivery, Network Installation & Training
- All supplies, toner, parts, etc.
- All labor, maintenance, service calls, etc.



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Document Management Solutions

## Our Service Commitment

- **Provide prompt 4 hour average service response.**
- **Have parts and consumables available for immediate delivery.**
- **Provide excellent aftermarket support.**
- **Servicing the Kyocera Brand.**
  
- **Quarterly Reviews Assessing:**
- **Service Operation And Efficiency Review**
- **Machine Performance Review**
- **Areas Of Improvement**
- **Additional Training Requirements**
- **Invoicing – Billing Reviews**



› PRINT › COPY › SCAN › FAX

**TASKalfa 5551ci**

COLOR MULTIFUNCTIONAL  
SYSTEM

# POWERING COLOR PERFORMANCE... COMPANY-WIDE.



- › Vibrant, Color Output Up to 55 Pages Per Minute in Black and 50 Pages Per Minute in Color
- › Color Scan Up to 160 ipm
- › Intuitive and Customizable Touch Screen Control Panel
- › Advanced Finishing Options to Power Workflow
- › Robust and Scalable Business Applications
- › Statement - 12" x 18" Printing from the Paper Trays
- › Standard Gigabit Ethernet
- › Tab Printing Available Through Multi Purpose Tray
- › AirPrint Enabled for a Mobile Printing Solution

# TASKalfa 5551ci

The TASKalfa 5551ci delivers the high quality functionality you need for maximum productivity. Vibrant image quality in both color and black & white, plus flexible configurations and advanced finishing handle both day-to-day document output and complex projects with ease, for finished pieces with a polished look. Integrated business applications streamline workflow, and combined with KYOCERA's award-winning ultra-reliability and unique long-life technology, ensure superior performance and maximum efficiency. For document imaging innovation and quality you can rely on, the TASKalfa 5551ci delivers.

## BASIC SPECIFICATIONS

**Configuration:** Color Multifunctional System – Print/Scan/Copy/Optional Fax

### Pages Per Minute:

Black – Letter: 55 ppm, Legal: 21 ppm,  
Ledger: 27 ppm, 12" x 18": 27 ppm (print only)  
Color – Letter: 50 ppm, Legal: 21 ppm,  
Ledger: 25 ppm, 12" x 18": 25 ppm (print only)

**Warm Up Time:** 30 Seconds or Less (Power On)

### First Page Out:

Copy: 3.4 Seconds or Less Black, 4.7 Seconds or Less Color;  
Print: 4.9 Seconds or Less Black, 6.2 Seconds or Less Color

**Resolution / Bit Depth:** 600 x 600 dpi;  
9600 x 600 dpi interpolated / 8 bit depth

**Memory / Hard Disk Drive:** 3.5 GB RAM Standard / 320 GB HDD

**Duplex:** Standard Stackless Duplex Supports Statement to 12" x 18", 16 lb Bond – 140 lb Index (60 – 256gsm)

**Standard Output Tray:** Statement – 12" x 18" / 250 sheets; up to 12" x 48" Banner / Single Sheet

**Electrical Requirements:** 120V, 60Hz, 12.0A; 220-240V, 50Hz, 7.2A

**Dimensions / Weight:** 25.51" x 30.20" x 29.41" / 251.33 lbs

**Maximum Monthly Duty Cycle:** 225,000 Pages Per Month

## PAPER SUPPLY

### Standard Paper Sources:

Dual 500 Sheet Trays, 150 Sheet MPT; Auto Selection/Switching

### Optional Paper Sources:

Dual 500 Sheet Trays (PF-730(B)), Dual 1,500 Sheet Trays (PF-740(B)); Side LCTs: 500 Sheet Multimedia Tray (PF-780(B)), 3,000 Sheet Large Capacity Tray (PF-770)

### Paper Capacity:

Standard: 1,150 Sheets;  
Maximum: 7,650 Sheets

**Paper Size:** Trays 1, 2 ; 5.5" x 8.5" – 12" x 18", Custom size;  
PF-730(B), PF-780(B); 5.5" x 8.5" – 12" x 18"; PF-740(B), PF-770: 8.5" x 11" MPT; 5.5" x 8.5" – 12" x 18" (Multiple Sheets);  
Up to 12" x 48" Banner (Single Sheet)

### Paper Weight:

Trays: 16 lb Bond – 140 lb index (60 – 256gsm);  
MPT: 16 lb Bond – 110 lb Cover (60 – 300gsm)

### Input Materials:

Bond Paper, Recycled Paper, Transparencies, Cardstock, Envelopes, Labels, Tabs, Gloss

## SECURITY SPECIFICATIONS

**Standard:** Local Authentication, Network Authentication (IPsec, HTTPS, LDAP over SSL, SNMPv3); Secure Print (IPP over SSL); Scan to e-mail (POP3/SMTP over SSL); Scan to FTP (FTP over SSL); Scan to SMB/PC/USB; FTP over SSL

**Optional:** Data Security Kit (E): Network Data Encryption, HDD Overwrite Mode, HDD Data Encryption

## PRINT SPECIFICATIONS

**Standard Controller:** Freescale QorIQ P1022 (Dual Core) / 1,067MHz

**PDLs / Emulations:** PRESCRIBE, PCL6 (5e, XL), KPDLL3 (PS3), XPS; Optional (UG-34): IBM ProPrinter, Line Printer, LQ-850

Specifications and design are subject to change without notice. For the latest on connectivity visit [www.kyoceradocumentsolutions.com/us](http://www.kyoceradocumentsolutions.com/us) DMS Link and PinPoint Scan are trademarks of the KYOCERA Companies. MAC and AirPrint are trademarks of Apple, Inc. Java is a trademark of Oracle Corporation. Fiery is a trademark of Electronics for Imaging, Inc. Other trademarks are the property of their respective owners.

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Headquarters: 225 Sand Road, Fairfield, NJ 07004-0008, USA  
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## HARNESS THE POWER OF YOUR TASKalfa MFP WITH CUSTOMIZED BUSINESS APPLICATIONS



**KYOCERA CLOUD CONNECT:** Easily print from and scan directly to the cloud while on the go from your KYOCERA MFPs.



**KYOCERA MOBILE PRINT:** Simply and conveniently print files, web pages, and images using your smartphone or tablet.



**DMS LINK:** Simplify document workflow through digital imaging, distribution, retrieval and long-time archival.



**PINPOINT SCAN:** Scan from your MFP to your PC with added speed, functions and versatility.



**SHAREPOINT CONNECTOR:** Enhance collaboration utilizing your KYOCERA MFPs and your existing Microsoft SharePoint Server.

**Fonts:** 136 KPDLL3, 93 PCL6, 8 Windows Vista, 1 Bitmap

**Windows® OS Compatibility:** Windows XP/2003/Vista/2008/7/8/ Server 2008 R2/Server 2012

**Novell OS Compatibility:** Novell NetWare 3.x/4.x/5.x/6.x

**Mac OS Compatibility:** Mac OS 10.x; AirPrint Enabled

**UNIX OS Compatibility:** Sun OS 4.1.x; Solaris 2.x; AIX; HP-UX (LPR)

**Interfaces:** Standard: 10/100/1000BaseTX, Hi-Speed USB 2.0, 4 USB Host Interfaces, 2 Expansion Slots  
Optional: 10/100/1000BaseTX (IB-50 for Dual NIC);  
Optional: IEEE 802.11 b/g/n (IB-51 for Wireless LAN Interface)

### Network Print and Supported Protocols:

TCP/IP, NetBEUI, FTP, LPR, IPv6, IPsec, SSL, WSD Print

**Drivers:** KX Driver, Mini Driver, KX Driver for XPS, XPS Mini Driver, Network Fax Driver, PPD for MAC

**Utilities:** KYOCERA Net Admin, KYOCERA Net Viewer, PDF Direct Print, Command Center RX

## SCAN SPECIFICATIONS

**Scan Type:** Color and Black & White Scanner

**Scan Resolution:** 600 dpi, 400 dpi, 300 dpi, 200 dpi, 200 x 100 dpi, 200 x 400 dpi

**File Formats:** BW: TIFF, XPS, PDF, PDF/A;  
Color: TIFF, JPEG, XPS, PDF, PDF/A

**PDF Extension:** High Compression PDF, Encrypted PDF, Searchable PDF (OCR) options

### Scan Speeds:

**DP-770(B):** Simplex: 75 ipm BW/Color (300 dpi);

Duplex: 45 ipm BW/Color (300 dpi)

**DP-772:** Simplex: 80 ipm BW/Color (300 dpi);

Duplex: 160 ipm BW/Color (300 dpi)

**Connectivity / Supported Protocols:** 10/100/1000BaseTX, TCP/IP

**Scanning Functions:** Scan to Folder (SMB), Scan to e-Mail, Scan to FTP, Scan to FTP over SSL, Scan to USB, WSD Scan, TWIN Scan

**Original Size:** Through DP: Statement to 11" x 17";

Glass: up to 11" x 17"

**Driver:** TWIN/WIA Driver

## COPY SPECIFICATIONS

**Image Mode:** Text, Photo, Text/Photo, Auto, Manual, Map

**Continuous Copy:** 1 – 999 / Auto Reset to 1

**Additional Features:** Positive/Negative Reverse, Mirror Image, Rotate Copy, Border Erase, Split Copy, Electronic Sort, Margin Shift, Page Number, Form Overlay, XY Zoom, Prevent Bleed Through, Text Stamp, Bates Stamp, Blank Page Skip

**Job Management:** 1,000 Department Codes, Job Programs, Job Build, Shortcut Keys, Repeat Copy

**Color Adjustment:** One Touch, Hue, Auto Exposure, Sharpness

**Magnification / Zoom:** Full Size, 4 Reduction, 4 Enlargement  
Preset Ratios, 25 – 400% in 1 step increments

**Document Box:** Custom Box, Job Box, Removable Memory Box, Fax Box (with optional Fax System)

## DOCUMENT PROCESSOR OPTIONAL DP-770(B) OR DP-772

**Type / Capacity:**

**DP-770(B):** Reversing Automatic Document Processor / 100 Sheets

**DP-772:** Dual Scan Document Processor / 175 Sheets

**Acceptable Originals:** 5.5" x 8.5" – 11" x 17"

**Acceptable Weights (Simplex / Duplex):**

**DP-770(B):** Simplex: 13 lb Bond – 90 lb Index (45 – 160gsm);

Duplex: 16 lb Bond – 32 lb Bond (50 – 120gsm)

**DP-772:** Simplex: 13 lb Bond – 120 lb Index (35 – 220gsm);

Duplex: 16 lb Bond – 120 lb Index (50 – 220gsm)

## FAX SPECIFICATIONS

**Fax Type:** Fax System W(B) / Internet Fax Kit (A) (requires Fax System W(B))

**Compatibility / Data Compression:** G3 Fax / MMR, MR, MH, JBIG

**Transmission Speed / Modem Speed:** Approximately 3 seconds per page / 33.6 Kbps

**Fax Memory:** Standard: 12 MB; Maximum: 120 MB

**Driver:** Network Fax Driver

**Fax Functions:** Duplex TX/RX, Confidential RX/TX, F-Code RX/TX, Broadcasting, Fax Box, Dual Fax

## OPTIONAL 1,000 SHEET FINISHER DF-770(C/D)

**Stack / Staple Capacity:** Main Tray: 1,000 Sheets / 50 sheets (up to 24 lb Bond 90gsm)

**Paper Size:** 5.5" x 8.5" – 12" x 18"

**Paper Weight:** 16 lb Bond – 110 lb Cover (60 – 300gsm)

**Edge Staple Position:** 3 Positions: Top Left, Bottom Left, Center Bind

**Optional Punch:** PH-7A 2 and 3 Hole Punch Unit, Supports 8.5" x 11" – 12" x 18"; 13 lb Bond – 110 lb Cover (45 – 300gsm)

## OPTIONAL 4,000 SHEET FINISHER DF-790(C)

**Stack / Staple Capacity:** Main Tray: 4,000 Sheets;

Sub Tray (C): 200 Sheets; Sub Tray (C): 100 Sheets / 65 sheets (up to 24 lb Bond 90gsm)

**Paper Size:** 5.5" x 8.5" – 12" x 18"

**Paper Weight:** 16 lb Bond – 110 lb Cover (60 – 300gsm)

**Edge Staple Position:** 3 Positions: Top Left, Bottom Left, Center Bind

**Optional Multi-bin Mailbox:** MT-730(B) Includes 7 Trays; Supports 16 lb Bond – 90 lb Index (60 – 163gsm) Stack Capacity per bin:

100 Sheets: 5.5" x 8.5", 8.5" x 11"; 50 Sheets: 8.5" x 14", 11" x 17"

**Optional Punch:** PH-7A 2 and 3 Hole Punch Unit, Supports 8.5" x 11" – 12" x 18"; 13 lb Bond – 110 lb Cover (45 – 300gsm)

**Optional Booklet Folder / Tri-fold Unit:** BF-730 Booklet Folder

Supports 8.5" x 11", 8.5" x 14", 11" x 17"; Fold booklet staple:

16 lb Bond – 24 lb Bond (60 – 90gsm) 16 sheets; 25 lb Bond – 28 lb Bond (91 – 105gsm) 13 sheets; Fold booklet no staple: 16 lb Bond

– 24 lb Bond (60 – 90gsm) 5 sheets; 25 lb Bond – 72 lb Index (91 – 120gsm) 3 sheets; 32 lb Bond – 110 lb Cover (121 – 256gsm) 1 sheet; Trifold supports 8.5" x 11" only: 16 lb Bond – 24 lb Bond

(60 – 90gsm) 5 sheets; 25 lb Bond – 72 lb Index (91 – 120gsm) 3 sheets; 16 lb Bond – 28 lb Bond (60 – 105gsm) 1 sheet

## ADDITIONAL OPTIONS

Data Security Kit (E) Provides Security Overwrite and Encryption for Print, Copy, and Scan, Optional Fax Memory, Original Hardcopy Holder (Document Tray), Card Authentication Kit (B), Banner Guide (A), Keyboard Holder, Scan Extension Kit (A) for Searchable PDF/OCR, EFI Fiery Printing System



 **KYOCERA**  
Document Solutions

**TASKalfa**

› PRINT › COPY › SCAN › FAX

**TASKalfa 5501i**

BLACK & WHITE  
MULTIFUNCTIONAL SYSTEM

**POWERING  
PERFORMANCE...  
COMPANY-WIDE.**



- › Crisp Output Up to 55 Pages per Minute
- › Color Scan Up to 80 ipm; B & W Up to 160 ipm
- › Intuitive and Customizable Touch Screen Control Panel
- › Advanced Finishing Options to Power Workflow
- › Robust and Scalable Business Applications
- › Statement – 12" x 18" Printing from the Paper Trays
- › Standard Gigabit Ethernet
- › Tab Printing Available Through Multi Purpose Tray
- › Optional Scan Extension Kit for Searchable PDF
- › AirPrint Enabled for a Mobile Printing Solution

 **KYOCERA**  
Document Solutions

# TASKalfa 5501i

The TASKalfa 5501i brings professional document imaging into the office, delivering high-quality functionality that gets the job done quickly and cost-effectively with clean, sharp, black & white output, advanced finishing options, and powerful and scalable integrated business applications to streamline your workflow. And, when combined with KYOCERA's award-winning ultra-reliability and unique long-life technology, ensure superior performance and maximum efficiency. For document imaging innovation and quality you can rely on, the TASKalfa 5501i delivers.

## BASIC SPECIFICATIONS

**Configuration:** Black & White Multifunctional System – Print/Scan/Copy/Optional Fax

**Pages Per Minute:** Letter: 55 ppm; Legal: 33 ppm; Ledger: 27 ppm; 12" x 18": 27 ppm (print only)

**Warm Up Time:** 23 Seconds or Less (Power On)

### First Page Out:

Copy: 3.2 Seconds or Less; Print: 4.9 Seconds or Less

**Resolution / Bit Depth:** 600 x 600 dpi; 9600 x 600 dpi interpolated

**Memory / Hard Disk Drive:** 2 GB RAM Standard / 160 GB HDD

**Duplex:** Standard Stackless Duplex Supports Statement to 12" x 18", 16 lb Bond – 140 lb Index (60 – 256gsm)

### Standard Output Tray:

Statement - 12" x 18"; 250 Sheets

**Electrical Requirements:** 120V, 60Hz, 12.0A; 220-240V, 50Hz, 7.2A

**Dimensions / Weight:** 25.51" x 30.20" x 29.41" / 211.6 lbs

**Maximum Monthly Duty Cycle:** 225,000 Pages Per Month

## PAPER SUPPLY

### Standard Paper Sources:

Dual 500 Sheet Trays, 150 Sheet MPT; Auto Selection/Switching

### Optional Paper Sources:

Dual 500 Sheet Trays (PF-730(B)) or Dual 1,500 Sheet Trays (PF-740(B)); 3,000 Sheet Side Large Capacity Tray (PF-770)

### Paper Capacity:

Standard: 1,150 Sheets;  
Maximum: 7,150 Sheets

**Paper Size:** Trays 1, 2 and PF-730(B): 5.5" x 8.5" – 12" x 18"; PF-740(B), PF-770: 8.5" x 11"; MPT: 5.5" x 8.5" – 12" x 18" (Multiple Sheets); up to 12" x 48" Banner (single sheet)

### Paper Weight:

Trays: 16 lb Bond – 120 lb index (60 – 220gsm);  
MPT: 16 lb Bond – 110 lb Cover (60 – 300gsm)

### Input Materials:

Bond Paper, Recycled Paper, Transparencies, Cardstock, Envelopes, Labels, Tabs

## SECURITY SPECIFICATIONS

**Standard:** Local Authentication, Network Authentication (IPsec, HTTPS, LDAP over SSL, SNMPv3); Secure Print (IPP over SSL); Scan to e-mail (POP3/SMTP over SSL); Scan to FTP (FTP over SSL); Scan to SMB/PC/USB; FTP over SSL

**Optional:** Data Security Kit (E): Network Data Encryption, HDD Overwrite Mode, HDD Data Encryption

## PRINT SPECIFICATIONS

**Standard Controller:** Freescale QorIQ P1022 (Dual Core) / 800MHz

**PDLs / Emulations:** PRESCRIBE, PCL6 (5e, XL), KPD3 (PS3), XPS; Optional (UG-34): IBM ProPrinter, Line Printer, LQ-850

**FonTS:** 136 KPD3, 93 PCL6, 8 Windows Vista, 1 Bitmap

**Windows® OS Compatibility:** Windows XP/2003/Vista/2008/7/8/ Server 2008 R2/Server 2012

## HARNESS THE POWER OF YOUR TASKalfa MFP WITH CUSTOMIZED BUSINESS APPLICATIONS



**KYOCERA CLOUD CONNECT:** Easily print from and scan directly to the cloud while on the go from your KYOCERA MFPs.



**KYOCERA MOBILE PRINT:** Simply and conveniently print files, web pages, and images using your smartphone or tablet.



**DMS LINK:** Simplify document workflow through digital imaging, distribution, retrieval and long-time archival.



**PINPOINT SCAN:** Scan from your MFP to your PC with added speed, functions and versatility.



**SHAREPOINT CONNECTOR:** Enhance collaboration utilizing your KYOCERA MFPs and your existing Microsoft SharePoint Server.

**Novell OS Compatibility:** Novell NetWare 3.x/4.x/5.x/6.x

**Mac OS Compatibility:** Mac OS 10.x, AirPrint Enabled

**UNIX OS Compatibility:** Sun OS 4.1.x; Solaris 2.x; AIX; HP-UX (LPR)

**Interfaces:** Standard: 10/100/1000BaseTX, Hi-Speed USB 2.0, 4 USB Host Interfaces, 2 Expansion Slots; Optional: 10/100/1000BaseTX (IB-50 for Dual NIC); Optional: IEEE 802.11 b/g/n (IB-51 for Wireless LAN Interface)

### Network Print and Supported Protocols:

TCP/IP, NetBEUI, FTP, LPR, IPV6, IPsec, SSL, WSD Print

**Drivers:** KX Driver, Mini Driver, KX Driver for XPS, XPS Mini Driver, Network Fax Driver, PPD for MAC

**Utilities:** KYOCERA Net Admin, KYOCERA Net Viewer, PDF Direct Print, Command Center RX

## SCAN SPECIFICATIONS

**Scan Type:** Color and Black & White Scanner

**Scan Resolution:** 600 dpi, 400 dpi, 300 dpi, 200 dpi, 200 x 100 dpi, 200 x 400 dpi

**File Formats:** Black and White: TIFF, XPS, PDF, PDF/A; Color: TIFF, JPEG, XPS, PDF, PDF/A

**PDF Extension:** High Compression PDF, Encrypted PDF, Searchable PDF (OCR) Option

### Scan Speeds:

**DP-770(B):** Simplex: 75 ipm BW, 50 ipm Color (300 dpi);

Duplex: 45 ipm BW, 34 ipm Color (300 dpi)

**DP-772:** Simplex: 80 ipm BW, 50 ipm Color (300 dpi);

Duplex: 160 ipm BW, 80 ipm Color (300 dpi)

**Connectivity / Supported Protocols:** 10/100/1000BaseTX, TCP/IP

**Scanning Functions:** Scan to Folder (SMB), Scan to e-Mail, Scan to FTP, Scan to FTP over SSL, Scan to USB, WSD Scan, TWAIN Scan

**Original Size:** Through DP: Statement to 11" x 17";

Glass: up to 11" x 17"

**Driver:** TWAIN/WIA Driver

## COPY SPECIFICATIONS

**Image Mode:** Text, Photo, Text/Photo, Auto, Manual, Map

**Continuous Copy:** 1 – 999 / Auto Reset to 1

**Additional Features:** Positive/Negative Reverse, Mirror Image, Rotate Copy, Border Erase, Split Copy, Electronic Sort, Margin Shift, Page Number, Form Overlay, XY Zoom, Prevent Bleed Through, Text Stamp, Bates Stamp, Blank Page Skip

**Job Management:** 1,000 Department Codes, Job Programs, Job Build, Shortcut Keys, Repeat Copy

**Magnification / Zoom:** Full Size, 4 Reduction, 4 Enlargement Preset Ratios, 25 – 400% in 1 step increments

**Document Box:** Custom Box, Job Box, Removable Memory Box, Fax Box (with optional Fax System)

## DOCUMENT PROCESSOR OPTIONAL DP-770(B) OR DP-772

**Type / Capacity:**

**DP-770(B):** Reversing Automatic Document Processor / 100 Sheets

**DP-772:** Dual Scan Document Processor / 175 Sheets

**Acceptable Originals:** 5.5" x 8.5" – 11" x 17"

## Acceptable Weights (Simplex / Duplex):

**DP-770(B):** Simplex: 13 lb Bond – 90 lb Index (45 – 160gsm); Duplex: 16 lb – 32 lb Bond (50 – 120gsm)

**DP-772:** Simplex: 13 lb Bond – 120 lb Index (35 – 220gsm); Duplex: 16 lb Bond – 120 lb Index (50 – 220gsm)

## FAX SPECIFICATIONS

**Fax Type:** Fax System W(B) / Internet Fax Kit (A) (requires Fax System W(B))

**Compatibility / Data Compression:** G3 Fax / MMR, MR, MH, JBIG

**Transmission Speed / Modem Speed:** Approximately 3 seconds per page / 33.6 Kbps

**Fax Memory:** Standard: 12 MB; Maximum: 120 MB

**Driver:** Network Fax Driver

**Fax Functions:** Duplex TX/RX, Confidential RX/TX, F-Code RX/TX, Broadcasting, Fax Box, Dual Fax

## OPTIONAL 1,000 SHEET FINISHER DF-770(C/D)

**Stack / Staple Capacity:** Main Tray: 1,000 Sheets / 50 sheets (up to 24 lb Bond (90gsm))

**Paper Size:** 5.5" x 8.5" – 12" x 18"

**Paper Weight:** 16 lb Bond – 110 lb Cover (60 – 300gsm)

**Edge Staple Position:** 3 Positions: Top Left, Bottom Left, Center Bind

**Optional Punch: PH-7A 2 and 3 Hole Punch Unit,** Supports 8.5" x 11" – 12" x 18", 13 lb Bond – 110 lb Cover (45 – 300gsm)

## OPTIONAL 4,000 SHEET FINISHER DF-790(C)

**Stack / Staple Capacity:** Main Tray: 4,000 Sheets; Sub Tray (B): 200 Sheets; Sub Tray (C): 100 Sheets / 65 sheets (up to 24 lb Bond (90gsm))

**Paper Size:** 5.5" x 8.5" – 12" x 18"

**Paper Weight:** 16 lb Bond – 110 lb Cover (60 – 300gsm)

**Edge Staple Position:** 3 Positions: Top Left, Bottom Left, Center Bind

**Optional Multi-bin Mailbox: MT-730(B)** Includes 7 Trays; Supports 16 lb Bond – 90 lb Index (60 – 163gsm) Stack Capacity per bin: 100 Sheets: 5.5" x 8.5", 8.5" x 11"; 50 Sheets: 8.5" x 14", 11" x 17"

**Optional Punch: PH-7A 2 and 3 Hole Punch Unit,** Supports 8.5" x 11" – 12" x 18"; 13 lb Bond – 110 lb Cover (45 – 300gsm)

**Optional Booklet Folder / Tri-fold Unit: BF-730** Booklet Folder Supports 8.5" x 11", 8.5" x 14", 11" x 17"; Fold booklet/staple: 16 lb Bond – 24 lb Bond (60 – 90gsm) 16 sheets; 25 lb Bond – 28 lb Bond (91 – 105gsm) 13 sheets; Fold booklet/no staple: 16 lb Bond – 24 lb Bond (60 – 90gsm) 5 sheets; 25 lb Bond – 72 lb Index (91 – 120gsm) 3 sheets; 32 lb Bond – 110 lb Cover (121 – 256gsm) 1 sheet; Trifold supports 8.5" x 11" only: 16 lb Bond – 24 lb Bond (60 – 90gsm) 5 sheets; 25 lb Bond – 72 lb Index (91 – 120gsm) 3 sheets; 16 lb Bond - 28 lb Bond (60 - 105 gsm) 1 sheet

## ADDITIONAL OPTIONS

Data Security Kit Provides Security Overwrite and Encryption for Print, Copy, and Scan, Optional Fax Memory, Original Hardcopy Holder (Document Tray), Card Authentication Kit (B), Banner Guide (A), Keyboard Holder, Scan Extension Kit (A) for Searchable PDF/OCR

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› PRINT › COPY › SCAN › FAX

## TASKalfa 3501i

BLACK & WHITE  
MULTIFUNCTIONAL SYSTEM



POWERING  
PERFORMANCE...  
COMPANY-WIDE.



- › Crisp Output Up to 35 Pages per Minute
- › Color Scan Up to 80 ipm; B & W Up to 160 ipm
- › Intuitive and Customizable Touch Screen Control Panel
- › Advanced Finishing Options to Power Workflow
- › Robust and Scalable Business Applications
- › Statement – 12" x 18" Printing from the Paper Trays
- › Standard Gigabit Ethernet
- › Tab Printing Available Through Multi Purpose Tray
- › Optional Scan Extension Kit for Searchable PDF
- › AirPrint Enabled for a Mobile Printing Solution

# TASKalfa 3501i

The TASKalfa 3501i helps to cost-effectively maximize productivity, with flexible configurations, enhanced functionality and advanced finishing options to meet even the most robust document imaging demands. Powerful and scalable integrated business applications simplify document workflow. And, when combined with KYOCERA's award-winning ultra-reliability and unique long-life technology, ensure superior performance and maximum efficiency. For document imaging innovation and quality you can rely on, the TASKalfa 3501i delivers.

## BASIC SPECIFICATIONS

**Configuration:** Black & White Multifunctional System – Print/Scan/Copy/Optional Fax

**Pages Per Minute:** Letter: 35 ppm; Legal: 21 ppm; Ledger: 17 ppm; 12" x 18": 17 ppm (print only)

**Warm Up Time:** 23 Seconds or Less (Power On)

### First Page Out:

Copy: 4.7 Seconds or less; Print: 6.0 Seconds or Less

**Resolution / Bit Depth:** 600 x 600 dpi; 9600 x 600 dpi interpolated

**Memory / Hard Disk Drive:** 2 GB RAM Standard / 160 GB HDD

**Duplex:** Standard Stackless Duplex Supports Statement to 12" x 18", 16 lb Bond – 140 lb Index (60 – 256gsm)

### Standard Output Tray:

Statement - 12" x 18"; 250 Sheets

**Electrical Requirements:** 120V, 60Hz, 12.0A; 220-240V, 50Hz, 7.2A

**Dimensions / Weight:** 25.51" x 30.20" x 29.41" / 211.6 lbs

**Maximum Monthly Duty Cycle:** 175,000 Pages Per Month

## PAPER SUPPLY

### Standard Paper Sources:

Dual 500 Sheet Trays, 150 Sheet MPT; Auto Selection/Switching

### Optional Paper Sources:

Dual 500 Sheet Trays (PF-730(B)) or Dual 1,500 Sheet Trays (PF-740(B)); 3,000 Sheet Side Large Capacity Tray (PF-770)

### Paper Capacity:

Standard: 1,150 Sheets;

Maximum: 7,150 Sheets

**Paper Size:** Trays 1, 2 and PF-730(B): 5.5" x 8.5" – 12" x 18";

PF-740(B), PF-770: 8.5" x 11"; MPT: 5.5" x 8.5" – 12" x 18" (Multiple Sheets); up to 12" x 48" Banner (single sheet)

### Paper Weight:

Trays: 16 lb Bond – 120 lb index (60 – 220gsm);

MPT: 16 lb Bond – 110 lb Cover (60 – 300gsm)

### Input Materials:

Bond Paper, Recycled Paper, Transparencies, Cardstock, Envelopes, Labels, Tabs

## SECURITY SPECIFICATIONS

**Standard:** Local Authentication, Network Authentication (IPsec, HTTPS, LDAP over SSL, SNMPv3); Secure Print (IPP over SSL); Scan to e-mail (POP3/SMTP over SSL); Scan to FTP (FTP over SSL); Scan to SMB/PC/USB; FTP over SSL

**Optional:** Data Security Kit (E): Network Data Encryption, HDD Overwrite Mode, HDD Data Encryption

## PRINT SPECIFICATIONS

**Standard Controller:** Freescale QorIQ P1022 (Dual Core) / 800MHz

**PDLs / Emulations:** PRESCRIBE, PCL6 (5e, XL), KPD L3 (PS3), XPS; Optional (UG-34) : IBM ProPrinter, Line Printer, LQ-850

**Fonts:** 136 KPD L3, 93 PCL6, 8 Windows Vista, 1 Bitmap

**Windows® OS Compatibility:** Windows XP/2003/Vista/2008/7/8/ Server 2008 R2/Server 2012

Specifications and design are subject to change without notice. For the latest on connectivity visit [www.kyoceradocumentsolutions.com/us](http://www.kyoceradocumentsolutions.com/us) DMS Link and PinPoint Scan are trademarks of the KYOCERA Companies. MAC and AirPrint are trademarks of Apple, Inc. Java is a trademark of Oracle Corporation. Other trademarks are the property of their respective owners.

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## HARNESS THE POWER OF YOUR TASKalfa MFP WITH CUSTOMIZED BUSINESS APPLICATIONS



**KYOCERA CLOUD CONNECT:** Easily print from and scan directly to the cloud while on the go from your KYOCERA MFPs.



**KYOCERA MOBILE PRINT:** Simply and conveniently print files, web pages, and images using your smartphone or tablet.



**DMS LINK:** Simplify document workflow through digital imaging, distribution, retrieval and long-time archival.



**PINPOINT SCAN:** Scan from your MFP to your PC with added speed, functions and versatility.



**SHAREPOINT CONNECTOR:** Enhance collaboration utilizing your KYOCERA MFPs and your existing Microsoft SharePoint Server.

**Novell OS Compatibility:** Novell NetWare 3.x/4.x/5.x/6.x

**Mac OS Compatibility:** Mac OS 10.x; AirPrint Enabled

**UNIX OS Compatibility:** Sun OS 4.1.x; Solaris 2.x; AIX; HP-UX (LPR)

**Interfaces:** Standard: 10/100/1000BaseTX, Hi-Speed USB 2.0, 4 USB Host Interfaces, 2 Expansion Slots; Optional: 10/100/1000 BaseTX (IB-50 for Dual NIC); Optional: IEEE 802.11 b/g/n (IB-51 for Wireless LAN Interface)

### Network Print and Supported Protocols:

TCP/IP, NetBEUI, FTP, LPR, IPv6, IPsec, SSL, WSD Print

**Drivers:** KX Driver, Mini Driver, KX Driver for XPS, XPS Mini Driver, Network Fax Driver, PPD for MAC

**Utilities:** KYOCERA Net Admin, KYOCERA Net Viewer, PDF Direct Print, Command Center RX

## SCAN SPECIFICATIONS

**Scan Resolution:** 600 dpi, 400 dpi, 300 dpi, 200 dpi, 200 x 100 dpi, 200 x 400 dpi

**File Formats:** Black and White: TIFF, XPS, PDF, PDF/A; Color: TIFF, JPEG, XPS, PDF, PDF/A

**PDF Extension:** High Compression PDF, Encrypted PDF, Searchable PDF (OCR) Option

### Scan Speeds:

**DP-770(B):** Simplex: 75 ipm BW, 50 ipm Color (300 dpi);

Duplex: 45 ipm BW, 34 ipm Color (300 dpi)

**DP-772:** Simplex: 80 ipm BW, 50 ipm Color (300 dpi);

Duplex: 160 ipm BW, 80 ipm Color (300 dpi)

**Connectivity / Supported Protocols:** 10/100/1000BaseTX, TCP/IP

**Scanning Functions:** Scan to Folder (SMB), Scan to e-Mail, Scan to FTP, Scan to FTP over SSL, Scan to USB, WSD Scan, TWAIN Scan

**Original Size:** Through DP: Statement to 11" x 17";

Glass: up to 11" x 17"

**Driver:** TWAIN/WIA Driver

## COPY SPECIFICATIONS

**Image Mode:** Text, Photo, Text/Photo, Auto, Manual, Map

**Continuous Copy:** 1 – 999 / Auto Reset to 1

**Additional Features:** Positive/Negative Reverse, Mirror Image, Rotate Copy, Border Erase, Split Copy, Electronic Sort, Margin Shift, Page Number, Form Overlay, XY Zoom, Prevent Bleed Through, Text Stamp, Bates Stamp, Blank Page Skip

**Job Management:** 1,000 Department Codes, Job Programs, Job Build, Shortcut Keys, Repeat Copy

**Magnification / Zoom:** Full Size, 4 Reduction, 4 Enlargement Preset Ratios, 25 – 400% in 1 step increments

**Document Box:** Custom Box, Job Box, Removable Memory Box, Fax Box (with optional Fax System)

## DOCUMENT PROCESSOR OPTIONAL DP-770(B) OR DP-772

### Type / Capacity:

**DP-770(B):** Reversing Automatic Document Processor / 100 Sheets

**DP-772:** Dual Scan Document Processor / 175 Sheets

**Acceptable Originals:** 5.5" x 8.5" – 11" x 17"

## Acceptable Weights (Simplex / Duplex) :

**DP-770(B):** Simplex: 13 lb Bond – 90 lb Index (45 – 160gsm); Duplex: 16 lb – 32 lb Bond (50 – 120gsm)

**DP-772:** Simplex: 13 lb Bond – 120 lb Index (35 – 220gsm); Duplex: 16 lb Bond – 120 lb Index (50 – 220gsm)

## FAX SPECIFICATIONS

**Fax Type:** Fax System W(B) / Internet Fax Kit (A) (requires Fax System W(B))

**Compatibility / Data Compression:** G3 Fax / MMR, MR, MH, JBIG

**Transmission Speed / Modem Speed:** Approximately 3 seconds per page / 33.6 Kbps

**Fax Memory:** Standard: 12 MB; Maximum: 120 MB

**Driver:** Network Fax Driver

**Fax Functions:** Duplex TX/RX, Confidential RX/TX, F-Code RX/TX, Broadcasting, Fax Box, Dual Fax

## OPTIONAL 1,000 SHEET FINISHER DF-770(C/D)

**Stack / Staple Capacity:** Main Tray: 1,000 Sheets / 50 sheets (up to 24 lb Bond (90gsm))

**Paper Size:** 5.5" x 8.5" – 12" x 18"

**Paper Weight:** 16 lb Bond – 110 lb Cover (60 – 300gsm)

**Edge Staple Position:** 3 Positions: Top Left, Bottom Left, Center Bind

**Optional Punch:** PH-7A 2 and 3 Hole Punch Unit, Supports 8.5" x 11" – 12" x 18"

## OPTIONAL 4,000 SHEET FINISHER DF-790(C)

**Stack / Staple Capacity:** Main Tray: 4,000 Sheets; Sub Tray (B): 200 Sheets; Sub Tray (C): 100 Sheets / 65 sheets (up to 24 lb Bond (90gsm))

**Paper Size:** 5.5" x 8.5" – 12" x 18"

**Paper Weight:** 16 lb Bond – 110 lb Cover (60 – 300gsm)

**Edge Staple Position:** 3 Positions: Top Left, Bottom Left, Center Bind

**Optional Multi-bin Mailbox: MT-730(B)** Includes 7 Trays; Supports 16 lb Bond – 90 lb Index (60 – 163gsm) Stack Capacity per bin: 100 Sheets: 5.5" x 8.5", 8.5" x 11"; 50 Sheets: 8.5" x 14", 11" x 17"

**Optional Punch: PH-7A 2 and 3 Hole Punch Unit,** Supports 8.5" x 11" – 11" x 17"; 13 lb Bond – 110 lb Cover (45 – 300gsm)

**Optional Booklet Folder / Tri-fold Unit: BF-730** Booklet Folder Supports 8.5" x 11", 8.5" x 14", 11" x 17"; Fold booklet/staple: 16 lb Bond – 24 lb Bond (60 – 90gsm) 16 sheets; 25 lb Bond – 28 lb Bond (91 – 105gsm) 13 sheets; Fold booklet/no staple: 16 lb Bond – 24 lb Bond (60 – 90gsm) 5 sheets; 25 lb Bond – 72 lb Index (91 – 120gsm) 3 sheets; 32 lb Bond – 110 lb Cover (121 – 256gsm) 1 sheet; Trifold supports 8.5" x 11" only: 16 lb Bond – 24 lb Bond (60 – 90gsm) 5 sheets; 25 lb Bond – 72 lb Index (91 – 120gsm) 3 sheets; 16 lb Bond – 28 lb Bond (60 – 105 gsm) 1 sheet

## ADDITIONAL OPTIONS

Data Security Kit Provides Security Overwrite and Encryption for Print, Copy, and Scan, Optional Fax Memory, Original Hardcopy Holder (Document Tray), Card Authentication Kit (B), Banner Guide (A), Keyboard Holder, Scan Extension Kit (A) for Searchable PDF/OCR





› PRINT › COPY › SCAN › FAX

**TASKalfa 3051ci**

COLOR MULTIFUNCTIONAL  
SYSTEM

# POWERING COLOR PERFORMANCE... COMPANY-WIDE.



- › Vibrant, Color Output Up to 30 Pages Per Minute in Color and Black
- › Color Scan Up to 100 ipm
- › Intuitive and Customizable Touch Screen Control Panel
- › Advanced Finishing Options to Power Workflow
- › Robust and Scalable Business Applications
- › Statement - 12" x 18" Printing from the Paper Trays
- › Standard Gigabit Ethernet
- › Tab Printing Available Through Multi Purpose Tray
- › AirPrint Enabled for a Mobile Printing Solution

The TASKalfa 3051ci delivers all the functionality needed to help maximize productivity, bringing flexible configuration and advanced finishing abilities for exceptional color and black & white output. Seamlessly integrated business applications power workflow. And, when combined with KYOCERA's award-winning ultra-reliability and unique long-life technology, ensure superior performance and maximum efficiency. When it comes to document imaging innovation and quality you can rely on, the TASKalfa 3051ci delivers.

## BASIC SPECIFICATIONS

**Configuration:** Color Multifunctional System – Print/Scan/Copy/Optional Fax

### Pages Per Minute:

Color and Black – Letter: 30 ppm, Legal: 18 ppm, Ledger: 15 ppm, 12" x 18": 15 ppm (print only)

**Warm Up Time:** 25 Seconds or Less (Power On)

### First Page Out:

Copy: 5.5 Seconds or Less Black, 7.3 Seconds or Less Color; Print: 7.3 Seconds or Less Black, 9.5 Seconds or Less Color

**Resolution / Bit Depth:** 600 x 600 dpi; 9600 x 600 dpi interpolated / 8 bit depth

**Memory / Hard Disk Drive:** 3.5 GB RAM Standard / 160 GB HDD

**Duplex:** Standard Stackless Duplex Supports Statement to 12" x 18", 16 lb Bond - 120 lb Index (60 – 220gsm)

**Standard Output Tray:** Statement - 12" x 18" / 250 sheets; up to 12" x 48" Banner / Single Sheet

**Electrical Requirements:** 120V, 60Hz, 12.0A; 220-240V, 50Hz, 7.2A

**Dimensions / Weight:** 25.51" x 30.20" x 29.41" / 251.33 lbs

**Maximum Monthly Duty Cycle:** 150,000 Pages Per Month

## PAPER SUPPLY

### Standard Paper Sources:

Dual 500 Sheet Trays, 150 Sheet MPT; Auto Selection/Switching

### Optional Paper Sources:

Dual 500 Sheet Trays (PF-730(B)), Dual 1,500 Sheet Trays (PF-740(B)); 3,000 Sheet Large Capacity Tray (PF-770)

### Paper Capacity:

Standard: 1,150 Sheets  
Maximum: 7,150 Sheets

**Paper Size:** Trays 1, 2 and PF-730(B): 5.5" x 8.5" – 12" x 18";

PF-740(B), PF-770: 8.5" x 11"; MPT: 5.5" x 8.5" – 12" x 18" (Multiple Sheets); Up to 12" x 48" Banner (Single Sheet)

### Paper Weight:

Trays: 16 lb Bond – 120 lb index (60 – 220gsm)  
MPT: 16 lb Bond – 110 lb Cover (60 – 300gsm)

### Input Materials:

Bond Paper, Recycled Paper, Transparencies, Cardstock, Envelopes, Labels, Tabs, Gloss

## SECURITY SPECIFICATIONS

**Standard:** Local Authentication, Network Authentication (IPsec, HTTPS, LDAP over SSL, SNMPv3); Secure Print (IPP over SSL); Scan to e-mail (POP3/SMTP over SSL); Scan to FTP (FTP over SSL); Scan to SMB/PC/USB; FTP over SSL

**Optional:** Data Security Kit (E): Network Data Encryption, HDD Overwrite Mode, HDD Data Encryption

## PRINT SPECIFICATIONS

**Standard Controller:** Freescale QorIQ P1022 (Dual Core) / 800MHz

**PDLs / Emulations:** PRESCRIBE, PCL6 (5e, XL), KPDL3 (PS3), XPS; Optional (UG-34): IBM ProPrinter, Line Printer, LQ-850

**Fonts:** 136 KPDL3, 93 PCL6, 8 Windows Vista, 1 Bitmap

**Windows® OS Compatibility:** Windows XP/2003/Vista/2008/7/8/Server 2008 R2/Server 2012

## HARNESS THE POWER OF YOUR TASKalfa MFP WITH CUSTOMIZED BUSINESS APPLICATIONS



**KYOCERA CLOUD CONNECT:** Easily print from and scan directly to the cloud while on the go from your KYOCERA MFPs.



**KYOCERA MOBILE PRINT:** Simply and conveniently print files, web pages, and images using your smartphone or tablet.



**DMS LINK:** Simplify document workflow through digital imaging, distribution, retrieval and long-time archival.



**PINPOINT SCAN:** Scan from your MFP to your PC with added speed, functions and versatility.



**SHAREPOINT CONNECTOR:** Enhance collaboration utilizing your KYOCERA MFPs and your existing Microsoft SharePoint Server.

**Novell OS Compatibility:** Novell NetWare 3.x/4.x/5.x/6.x

**Mac OS Compatibility:** Mac OS 10.x; AirPrint Enabled

**UNIX OS Compatibility:** Sun OS 4.1.x; Solaris 2.x; AIX; HP-UX (LPR)

**Interfaces:** Standard: 10/100/1000BaseTX, Hi-Speed USB 2.0, 4 USB Host Interfaces, 2 Expansion Slots  
Optional: 10/100/1000BaseTX (IB-50 for Dual NIC);  
Optional: IEEE 802.11 b/g/n (IB-51 for Wireless LAN Interface)

### Network Print and Supported Protocols:

TCP/IP, NetBEUI, FTP, LPR, IPv6, IPsec, SSL, WSD Print

**Drivers:** KX Driver, Mini Driver, KX Driver for XPS, XPS Mini Driver, Network Fax Driver, PPD for MAC

**Utilities:** KYOCERA Net Admin, KYOCERA Net Viewer, PDF Direct Print, Command Center RX

## SCAN SPECIFICATIONS

**Scan Type:** Color and Black & White Scanner

**Scan Resolution:** 600 dpi, 400 dpi, 300 dpi, 200 dpi, 200 x 100 dpi, 200 x 400 dpi

**File Formats:** BW: TIFF, XPS, PDF, PDF/A;  
Color: TIFF, JPEG, XPS, PDF, PDF/A

**PDF Extension:** High Compression PDF, Encrypted PDF, Searchable PDF (OCR) Option

### Scan Speeds:

**DP-770(B):** Simplex: 65 ipm BW/Color (300 dpi);

Duplex: 39 ipm BW/Color (300 dpi)

**DP-772:** Simplex: 70 ipm BW/Color (300 dpi);

Duplex: 100 ipm BW/Color (300 dpi)

**Connectivity / Supported Protocols:** 10/100/1000BaseTX, TCP/IP

**Scanning Functions:** Scan to Folder (SMB), Scan to e-Mail, Scan to FTP, Scan to FTP over SSL, Scan to USB, WSD Scan, TWAIN Scan

**Original Size:** Through DP: Statement to 11" x 17";

Glass: up to 11" x 17"

**Driver:** TWAIN/WIA/Driver

## COPY SPECIFICATIONS

**Image Mode:** Text, Photo, Text/Photo, Auto, Manual, Map

**Continuous Copy:** 1 – 999 / Auto Reset to 1

**Additional Features:** Positive/Negative Reverse, Mirror Image, Rotate Copy, Border Erase, Split Copy, Electronic Sort, Margin Shift, Page Number, Form Overlay, XY Zoom, Prevent Bleed Through, Text Stamp, Bates Stamp, Blank Page Skip

**Job Management:** 1,000 Department Codes, Job Programs, Job Build, Shortcut Keys, Repeat Copy

**Color Adjustment:** One Touch, Hue, Auto Exposure, Sharpness

**Magnification / Zoom:** Full Size, 4 Reduction, 4 Enlargement  
Preset Ratios, 25 – 400% in 1 step increments

**Document Box:** Custom Box, Job Box, Removable Memory Box, Fax Box (with optional Fax System)

## DOCUMENT PROCESSOR OPTIONAL DP-770(B) OR DP-772

**Type / Capacity:**

**DP-770(B):** Reversing Automatic Document Processor / 100 Sheets

**DP-772:** Dual Scan Document Processor / 175 Sheets

**Acceptable Originals:** 5.5" x 8.5" – 11" x 17"

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> PRINT

**ECOSYS FS-C8650DN**

COLOR NETWORK  
PRINTER



**ECONOMICAL.  
ECOLOGICAL.  
ECOSYS  
TECHNOLOGY.**



The KYOCERA ECOSYS FS-C8650DN color printer builds on the power, performance, quality and ultra-reliability that are hallmarks of our high volume printer products.

Fast output speeds of 55 ppm black and 50 ppm color maximize print efficiency for busy workgroups, while advanced functionality and a host of standard features enhance productivity. Combined with KYOCERA's award-winning long life technology the ECOSYS FS-C8650DN maximizes reliability while significantly reducing the frequency of required service calls.

With the ECOSYS FS-C8650DN, you can be confident you have the unparalleled quality, security and efficiency your high volume output demands.

- > Fast Output Speed of up to 55 Pages per Minute
- > Standard Duplex Printing
- > Standard Gigabit Ethernet
- > Optional Wireless LAN
- > Convenient USB Host Printing
- > Numeric Hard Keys for Simplified User Navigation
- > 7,650 Sheet Maximum Paper Capacity
- > Low Total Cost of Ownership
- > Brilliant Color and Crisp Black & White Prints



**KYOCERA**  
Document Solutions

## ECOSYS

KYOCERA's objective is to manufacture superior products with a low Total Cost of Ownership (TCO) and minimize the impact on the environment. ECOSYS printers incorporate a patented long life drum which is separate from the toner container, eliminating drum replacement when toner is depleted – and reducing landfill waste. ECOSYS printers provide a printing solution that incorporates long life consumables and one of the lowest costs per print. The operating costs of traditional cartridge-based printers can easily exceed many times the original purchase price during the life of the product. Evaluate your printer costs today.

### BASIC SPECIFICATIONS

**Configuration:** KYOCERA ECOSYS® Color Network Printer  
**Pages per Minute:** Black - Letter: 55 ppm, Legal: 21 ppm, Ledger: 27 ppm Color - Letter: 50 ppm, Legal: 21 ppm, Ledger: 25 ppm  
**Warm-up Time:** 30 Seconds or Less (Power On)  
**First Page Out:** Black: 4.9 Seconds or less;  
 Color: 6.2 Seconds or less  
**Resolutions / Bit Depth:** 600 x 600 dpi; 9,600 x 600 dpi interpolated / 8 bit depth  
**Memory / Hard Disk Drive:** Standard: 1 GB RAM, Maximum: 2 GB RAM / 160 GB HDD  
**Duplex:** Standard Stackless Duplex Supports Statement to 12" x 18", 16 lb Bond - 140 lb Index (60 - 256gsm)  
**Standard Output Tray:** Statement - 12" x 18" / 500 sheets Job separation +250 sheets; up to 12" x 47" Banner / Single Sheet  
**Electrical Requirements:** 120V, 60Hz, 12.0A; 220V, 50Hz, 7.2A  
**Dimensions / Weight:** 26.46" W x 31.0" D x 29.29" H / 244.71 lbs (67.2cm W x 78.7cm D x 74.4cm H / 111 kg)  
**Typical Energy Consumption (TEC):** 120V: 12.31 KwH / week; 220V: 11.42 KwH / week  
**Maximum Monthly Duty Cycle:** 225,000 Pages Per Month

### PAPER SUPPLY

**Standard Paper Sources:** Dual 500 Sheet Trays, 150 Sheet MPT; Auto Selection/Switching  
**Optional Paper Sources:** Dual 500 Sheet Trays (PF-730), Dual 1,500 Sheet Trays (PF-740); Side LCIs: 500 Sheet Multimedia Tray (PF-780), 3,000 Sheet Large Capacity Tray (PF-770)  
**Paper Capacity:** Standard: 1,150 Sheets; Maximum 7,650 Sheets  
**Paper Size:** Trays 1,2, PF-730, PF-780: 5.5" x 8.5" - 12" x 18"; PF-740, PF-770: 8.5" x 11"; MPT: 5.5" x 8.5" - 12" x 18" (Multiple Sheet)  
**Paper Weight:** Trays: 16 lb Bond - 140 lb Index (60 - 256gsm); MPT: 16 lb Bond - 110 lb Cover (60 - 300gsm)  
**Input Materials:** Bond Paper, Recycled Paper, Transparencies, Cardstock, Envelopes

## HARNESS THE POWER OF YOUR ECOSYS PRINTER WITH CUSTOMIZED BUSINESS APPLICATIONS

-  **KYOCERA MOBILE PRINT:** Simply and conveniently print files, web pages, and images using your smartphone or tablet.
-  **CARD AUTHENTICATION:** Use your existing HID employee identification cards to securely unlock your printer.
-  **KX DRIVER:** A common interface across all KYOCERA devices, providing comprehensive access to all device features.
-  **KYOCERA NET ADMIN:** A web-based platform giving network administrators easy control over every device in the organization.
-  **KYOCERA NET VIEWER:** All the functionality for network device management in an easy-to-use interface.

### CONTROLLER SPECIFICATIONS

**Standard Controller:** IBM PowerPC 750GL / 750 MHz  
**PDL / Emulations:** PRESCRIBE, PCL6 (5c, XL), KPDL3 (PS3), XPS  
**Optional Emulation:** UG-34 IBM ProPrinter, Diablo 630, LQ-850  
**Fonts:** 136 KPDL3, 93 PCL6, 8 Windows Vista, 1 Bitmap  
**Barcodes:** 1 Dimensional: 45, 2 Dimensional: 1 (PDF417)  
**Windows® OS Compatibility:** Windows XP/2003/Vista/2008/7/8  
**Novell OS Compatibility:** Novell NetWare 3.x/4.x/5.x/6.x  
**Mac OS Compatibility:** OS 10.x  
**UNIX OS Compatibility:** Sun OS 4.1.x; Solaris 2.x; AIX; HP-UX (LPR)  
**Interfaces:** Standard: 10/100/1000BaseTX, eKUIO, Hi-Speed USB 2.0; Optional: 10/100/1000BaseTX for dual NIC (IB-50), Wireless LAN Interface (IB-51)  
**Network Print and Supported Protocols:** TCP/IP, NetBEUI, IPv6, IPsec, SSL, WSD Print  
**Drivers:** KX Driver, XPS Mini Driver, PCL Mini Driver, KPDL Mini Driver  
**Utilities:** Status Monitor, Common Profile, Output to PDF, Security Watermark, Command Center RX, KYOCERA Net Admin, KYOCERA Net Viewer

### OPTIONAL 1,000 SHEET FINISHER DF-770(B)

**Stack / Staple Capacity:** Main Tray: 1,000 Sheets / 50 Sheets (up to 24 lb Bond (90gsm))  
**Paper Size:** 5.5" x 8.5" - 12" x 18"  
**Paper Weight:** 16 lb Bond - 110 lb Cover (60 - 300gsm)  
**Edge Staple Position:** 3 Positions: Top Left, Bottom Left, Center Bind  
**Optional Punch:** PH-7A 2 and 3 Hole Punch Unit, Supports 8.5" x 11" - 12" x 18"; 13 lb Bond - 110 lb Cover (45-300gsm)

### OPTIONAL 4,000 SHEET FINISHER DF-790(B)

**Stack / Staple Capacity:** Main Tray: 4,000 Sheets; Sub Tray (B): 200 Sheets; Sub Tray (C): 100 Sheets / 65 Sheets (up to 24 lb Bond (90gsm))  
**Paper Size:** 5.5" x 8.5" - 12" x 18"  
**Paper Weight:** 16 lb Bond - 110 lb Cover (60 - 300gsm)  
**Edge Staple Position:** 3 Positions: Top Left, Bottom Left, Center Bind  
**Optional Multi-bin Mailbox: MT-730(B)** Includes 7 Trays; Supports 16 lb Bond - 90 lb Index (60 - 163gsm) Stack Capacity per bin: 100 Sheets: 5.5" x 8.5", 8.5" x 11"; 50 Sheets: 8.5" x 14", 11" x 17"  
**Optional Punch: PH-7A 2 and 3 Hole Punch Unit,** Supports 8.5" x 11" - 12" x 18"; 13 lb Bond - 110 lb Cover (45 - 300gsm)  
**Optional Booklet Folder / Tri-fold Unit:** BF-730 Booklet Folder Supports 8.5" x 11", 8.5" x 14", 11" x 17"; 16 lb Bond - 24 lb Bond (60 - 90gsm) 16 sheets; 25 lb Bond - 28 lb Bond (91 - 105gsm) 13 sheets; **Fold booklet** - no staple: 16 lb Bond - 24 lb Bond (60 - 90gsm) 5 sheets; 25 lb Bond - 72 lb Index (91 - 120gsm) 3 sheets; 32 lb Bond - 110 lb Cover (121 - 256gsm) 1 sheet; **Trifold:** 16 lb Bond - 24 lb Bond (60 - 90gsm) 5 sheets; 25 lb Bond - 72 lb Index (91 - 120gsm) 3 sheets

### CONSUMABLES

**Black Toner:** TK-8602K for 30,000 pages\* (ships with 15,000 pages)  
**Cyan Toner:** TK-8602C for 20,000 pages\* (ships with 10,000 pages)  
**Magenta Toner:** TK-8602M for 20,000 pages\* (ships with 10,000 pages)  
**Yellow Toner:** TK-8602Y for 20,000 pages\* (ships with 10,000 pages)

### ADDITIONAL OPTIONS

System Memory 1,024 MB 200 pin DDR2-DIMM, Wireless LAN IB-51, Gigabit Ethernet for Dual NIC IB-50, Data Security Kit (E), Card Authentication Kit (B)

\* In accordance with ISO 19798

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› PRINT › COPY › COLOR SCAN › FAX

## ECOSYS M3550idn

BLACK & WHITE MULTIFUNCTIONAL  
PRINTER



ECONOMICAL.  
ECOLOGICAL.  
ECOSYS  
TECHNOLOGY.



The **ECOSYS M3550idn** is a one-stop solution that streamlines document workflows while keeping your bottom line in check. Bringing multifunctional power and mobility to corporate workgroups, it combines crisp 52 ppm black and white output with fax and color scanning. A 7" customizable and tablet-like color touch screen redefines job efficiency by enabling easy storage of routine tasks as well as quick access to business applications that bring added capabilities to your document workflows. As importantly, ECOSYS long life consumables and an impressive drum yield deliver the economical and ecological solution making this device the smart choice for your business.

- › Fast Output Speed of 52 Pages per Minute
- › Standard Print, Copy, Color Scan and Fax
- › Standard 75 Sheet Document Processor
- › KYOCERA Business Applications Capable
- › Standard 7" Color Touch Screen with Tablet-Like Home Screen
- › ECOSYS Long Life Consumables
- › Standard USB Host Interface for On-the-Go Printing and Scanning
- › Wireless Printing Capable
- › Apple AirPrint™ Enabled for a Mobile Printing Solution

## ECOSYS TECHNOLOGY

KYOCERA's objective is to manufacture superior products with a low Total Cost of Ownership (TCO) and minimize the impact on the environment. ECOSYS printers incorporate a patented long life drum which is separate from the toner container, eliminating drum replacement when toner is depleted – and reducing landfill waste. ECOSYS printers provide a printing solution that incorporates long life consumables and one of the lowest costs per print. The operating costs of traditional cartridge-based printers can easily exceed many times the original purchase price during the life of the product.

### BASIC SPECIFICATIONS

**Configuration:** Black & White Multifunctional Printer - Print / Color Scan / Copy / Fax  
**Pages per Minute:** Letter: 52 ppm, Legal: 42 ppm, A4: 50 ppm  
**Warm Up Time:** 21 seconds or less from main power on  
**First Page Out:** Copy: 8 Seconds or less; Print: 8 Seconds or less  
**Display:** 7" Color Touch Screen Control Panel  
**Resolution / Bit Depth:** 600 x 600 dpi, 1,800 x 600 multi bit interpolated resolution  
**Memory:** Standard 1 GB, Upgradable to 2 GB  
**Hard Disk Drive:** Optional HD-6 (32 GB SSD); Optional HD-7 (128 GB SSD)  
**Duplex:** Standard Stackless Duplex Supports Statement to Legal (5.5" x 8.5" - 8.5" x 14"), 16 - 32 lb Bond (60-120gsm)  
**Standard Output Tray:** Statement - Legal; 500 Sheets  
**Dimensions / Weight:** 18.7" W x 17.9" D x 23.2" H / 51.4 lbs  
**Maximum Monthly Duty Cycle:** 250,000 Pages per Month

### POWER CONSUMPTION

**Electrical Requirements:** 120V, 60Hz, 10.4A; 220-240V, 50/60Hz, 5.2A  
**Maximum (including options):** 120V: 1,342 W; 220-240V: 1,418 W  
**Printing:** 120V: 809 W; 220-240V: 777 W  
**Ready Mode:** 120V: 66.1 W; 220-240V: 70.8 W  
**Sleep Mode:** 120V: 2.6 W; 220-240V: 2.4 W  
**Power Off:** 120V: 0.5 W; 220-240V: 0.5 W

### PAPER SUPPLY

**Standard Paper Sources:** Single 500 Sheet Drawer, 100 Sheet Multipurpose Tray  
**Optional Paper Sources:** Up to four (4) optional 500 Sheet Paper Drawers (PF-320) can be added  
**Paper Capacity:** Standard: 600 Sheets; Maximum: 2,600 Sheets  
**Paper Size:** Drawers: 5.5" x 8.5" - 8.5" x 14" (Statement to Legal); MPT: 2.8" x 5.8" - 8.5" x 14"  
**Paper Weight:** Standard Drawer: 16 - 32 lb Bond (60-120gsm); MPT: 16 lb Bond - 120 lb Index (60-220gsm)  
**Input Materials:** Standard Drawer: Plain Paper, Bond Paper, Recycled Paper; Optional Drawers: Plain Paper, Bond Paper, Recycled Paper, Envelopes; MPT: Cardstock, Transparencies, Labels, Envelopes

### SECURITY SPECIFICATIONS

**Standard:** Local Authentication, Network Authentication, IPsec, SNMPv3, IEEE802.1x, IPP over SSL/TLS, HTTP over SSL/TLS, FTP over SSL/TLS, SMTP over SSL/TLS, POP3 over SSL/TLS, Enhanced WSD over SSL/TLS, LDAP over SSL/TLS  
**Optional:** Data Security Kit (E), HDD Overwrite Mode, HDD Data Encryption

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## HARNESS THE POWER OF YOUR ECOSYS MULTIFUNCTIONAL PRINTER WITH CUSTOMIZED BUSINESS APPLICATIONS

-  **PINPOINT SCAN:** Scan from your MFP to your PC with added speed, functions and versatility.
-  **DMS LINK:** Simplify document workflow through digital imaging, distribution, retrieval and long-time archival.
-  **KYOCERA HOMEPOINT:** Securely browse document folders from any networked KYOCERA MFP.
-  **ACCUSENDER:** A simple, secure way to send large scanned documents to multiple destinations via e-mail from select KYOCERA MFPs.

### PRINT SPECIFICATIONS

**Standard Controller:** PowerPC 4655 / 667MHz  
**PDLs / Emulations:** PRESCRIBE, PCL6 (PCL5e/PCLXL), KPDL3 (PS3), XPS  
**Fonts:** 93 Scalable Fonts for PCL/Postscript, 136 Fonts for KPDL3(PS3), 8 Fonts for Windows Vista, 1 Bitmap Font  
**Windows OS Compatibility:** Windows XP/Vista/7/8/8.1/Server 2003/Server 2008/Server 2008 R2/Server 2012/Server 2012 R2  
**Mac OS Compatibility:** Mac OS 10.5 and later, AirPrint Enabled  
**Interfaces:** Standard: 10/100/1000BaseTX, Hi-Speed USB 2.0, 2 USB Host Interfaces, 1 Expansions Slot; Optional: 10/100/1000BaseTX (IB-50 for Dual NIC); Optional IEEE 802.11 b/g/n (IB-51 for Wireless LAN Interface)  
**Network Print and Supported Protocols:** TCP/IP, IPv4, IPv6; HTTP, LPD, FTP, IPP, RawPort, LLTD, SNMP, DHCP, SMTP, POP3, DNS, SNMPv1/v2, WSD  
**Drivers:** KX Driver, Mini Driver, KX Driver for XPS, Network Fax Driver, PPD for MAC, PPD for Linux  
**Utilities:** KYOCERA Net Admin, KYOCERA Net Viewer, KYOCERA Net Direct Print, Command Center RX  
**Document Box:** Job Box for RAM based Private Print, Proof and Hold, Job Storage\*, Quick Copy\*, Removable Memory for Print-From / Scan-To USB  
**PDF Extension:** High Compression PDF, PDF/A, Encrypted PDF

### SCAN SPECIFICATIONS

**Scan Type:** Color and Black & White Scanner  
**Scan Resolution:** 600dpi, 400dpi, 300dpi, 200dpi, 200x400dpi, 200x100dpi  
**File Formats:** Black and White: TIFF, XPS, PDF; Color: TIFF, JPEG, XPS, PDF  
**Scan Speeds:** Mono: 300 dpi - 62 ipm Simplex; 27 ipm Duplex; 600 dpi - 42 ipm Simplex; 18 ipm Duplex; Color: 300 dpi - 42 ipm Simplex; 18 ipm Duplex; 600 dpi - 21 ipm Simplex; 9 ipm Duplex  
**Connectivity / Supported Protocols:** 10/100/1000BaseTX, TCP/IP; Hi-Speed USB 2.0  
**Scanning Functions:** Scan to Folder (SMB), Scan to e-Mail, Scan to FTP, Scan to FTP over SSL, Scan to USB, WSD Scan, TWAIN/WIA Scan  
**Original Size:** Through DP: Statement to Legal (5.5" x 8.5" - 8.5" x 14"); Glass: up to 8.5" x 14"  
**Drivers:** TWAIN Driver, WIA Driver

### COPY SPECIFICATIONS

**Image Mode:** Text, Photo, Text/Photo, Graphic/Map  
**Continuous Copy:** 1-999 / Auto Reset to 1  
**Additional Features:** Auto Magnification, Auto Paper Select, Auto Start, Auto Drawer Change, Priority Copy, Job Programs

**Job Management:** 100 Department Codes, Job Programs, Shortcut Keys  
**Magnification / Zoom:** Full Size, 7 Reduction, 5 Enlargement Preset Ratios, 25 - 400% in 1% step increments

### DOCUMENT PROCESSOR

**Type / Capacity:** Standard Reversing Automatic Document Processor / 75 Sheets  
**Acceptable Originals:** 5.5" x 8.5" - 8.5" x 14"  
**Acceptable Weights:** Simplex: 13 - 32 lb Bond (50-120gsm), Duplex 13 - 32 lb Bond (50-120gsm)

### FAX SPECIFICATIONS

**Compatibility / Data Compression:** ITU-T Group 3 / MH, MR, MMR, JBIG  
**Transmission Speed / Modem Speed:** 3 Seconds or less per page / 33.6 kbps  
**Fax Memory:** 3.5 MB  
**Driver:** Network Fax Driver  
**Fax Functions:** Duplex Transmission/Reception, One Touch Dial (100 numbers), FAX/TEL Switching, Sequential Broadcast (up to 100 parties), Quick Dial (200 numbers), Fax Reports

### PAPER HANDLING OPTIONS

Up to four (4) PF-320 Drawers can be installed

### PF-320 PAPER FEEDER

**Paper Capacity:** 500 Sheets  
**Paper Size / Weight:** Letter, Legal, A4, A5, B5 / 16 - 32 lb Bond (60-120gsm)  
**Dimensions / Weight:** 14.96" W x 16.14" D x 4.76" H / 8.82 lbs (380 x 410 x 121 mm / 4.0 kg)

### PT-320 FACE UP TRAY

**Paper Capacity:** 250 Sheets  
**Paper Size / Weight:** 8.5" x 11", 8.5" x 14" / Oficio2, A4, A5, B5, A6, Folio  
**Dimensions / Weight:** 9.84" W x 12.99" D x 2.76" H / 0.63 lbs

### ADDITIONAL OPTIONS

**Memory:** 1 GB via 144 pin DDR3 SDRAM DIMM  
**HDD:** HD-6: 32 GB SSD; HD-7: 128 GB SSD  
**SD Card:** SDHC Card - 32G: 32 GB SD\*\*;  
 SDHC Card - 16G: 16 GB SD\*\*  
**Wireless LAN:** IB-51: IEEE 802.11 b/g/n  
**Additional NIC:** IB-50 Gigabit NIC  
**Security:** Data Security Kit (E), Card Authentication Kit (B)

\*Optional HDD or Optional SD Card Required for Job Storage and Quick Copy  
 \*\*Optional SD Card Required for HyPAS Business Applications





› PRINT › COPY › SCAN › FAX

## ECOSYS M6530cdn

COLOR MULTIFUNCTIONAL  
PRINTER



ECONOMICAL.  
ECOLOGICAL.  
ECOSYS  
TECHNOLOGY.



The **ECOSYS M6530cdn** brings power and mobility to your document imaging. Combining first-class color print, copy, scan and black & white fax capabilities with fast 32 ppm output in black or color, it is a smart choice for small businesses and workgroups who need flexible functionality in a desktop device. Optional wireless and standard mobile printing and scanning capabilities enable access wherever your business takes you. ECOSYS trusted reliability and long life consumables ensure maximum performance in a cost-effective document imaging solution.

- › Fast Output Speed of 32 Pages per Minute in Black and Color
- › Standard Color Print, Copy, Scan and Black & White Fax

- › Standard 75 Sheet Document Processor
- › Standard Duplex and Gigabit Ethernet
- › Optional Manual Stapler for up to 20 Sheets
- › ECOSYS Long Life Consumables
- › Standard USB Host Interface for On-the-Go Printing and Scanning
- › Wireless Printing Capable
- › Apple AirPrint™ Enabled for a Mobile Printing Solution

# ECOSYS M6530cdn

## ECOSYS TECHNOLOGY

KYOCERA's objective is to manufacture superior products with a low Total Cost of Ownership (TCO) and minimize the impact on the environment. ECOSYS printers incorporate a patented long life drum which is separate from the toner container, eliminating drum replacement when toner is depleted – and reducing landfill waste. ECOSYS printers provide a printing solution that incorporates long life consumables and one of the lowest costs per print. The operating costs of traditional cartridge-based printers can easily exceed many times the original purchase price during the life of the product.

### BASIC SPECIFICATIONS

**Configuration:** Color Multifunctional Printer - Print / Scan / Copy / Fax

**Pages per Minute:** Letter: 32 ppm, Legal: 26 ppm, A4: 30 ppm

**Warm Up Time:** 26 seconds or less from main power on

#### First Page Out:

Copy: 9.5 seconds Black, 11.5 seconds Color;

Print: 7 seconds Black, 8.5 seconds Color

**Display:** 5 Line LCD screen with hard key control panel

**Resolution:** 600 x 600 dpi, 9,600 x 600 multi bit interpolated resolution

**Memory:** Standard 1 GB, Upgradable to 2 GB

#### Hard Disk Drive:

Optional **HD-6** (32 GB SSD),

Optional **HD-7** (128 GB SSD)

**Duplex:** Standard Stackless Duplex Supports Statement to Legal (5.5" x 8.5" - 8.5" x 14"), 16 lb Bond - 90 lb Index (60-163gsm)

**Standard Output Tray:** 250 Sheets

**Dimensions / Weight:** 18.7" W x 22.0" D x 24.3" H / 76.5 lbs

**Maximum Monthly Duty Cycle:** 100,000 Pages per Month

### POWER CONSUMPTION

**Electrical Requirements:** 120V, 60Hz, 9.0A; 220-240V, 50/60Hz, 5.0A

**Typical Energy Consumption:** 120V: 1.88 KWh/week; 220-240V: 1.93 KWh/week

**Maximum (including options):** 120V: 1,126 W; 220-240V: 1,285 W

**Printing:** 120V: 547 W; 220-240V: 502 W

**Copying:** 120V: 571 W; 220-240V: 510 W

**Ready Mode:** 120V: 59 W; 220-240V: 57 W

**Sleep Mode:** 120V: 2 W; 220-240V: 2.1 W

**Power Off:** 120V: 0.3 W; 220-240V: 0.3 W

### PAPER SUPPLY

**Standard Paper Sources:** Single 250 Sheet Drawer, 100 Sheet Multipurpose Tray

**Paper Capacity:** Standard: 350 Sheets; Maximum: 1,850 Sheets

#### Paper Size:

Drawers: 5.5" x 8.5" - 8.5" x 14" (Statement to Legal)

MPT: 2.8" x 5.8" - 8.5" x 14"

#### Paper Weight:

Standard Drawer: 16 lb Bond - 90 lb Index (60-163gsm);

Optional Drawers / MPT: 16 lb Bond - 120 lb Index (60-220gsm)

**Input Materials:** Standard Drawer: Plain Paper, Bond Paper, Recycled Paper; Optional Drawers: Plain Paper, Bond Paper, Recycled Paper, Coated, Envelopes, Labels; MPT: Cardstock Transparencies, Labels, Envelopes

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## HARNESS THE POWER OF YOUR ECOSYS PRINTER WITH CUSTOMIZED BUSINESS APPLICATIONS



**KYOCERA MOBILE PRINT:** Simply and conveniently print files, web pages, and images using your smartphone or tablet.



**APPLE AIRPRINT:** Driverless printing from iOS and OS X products to select KYOCERA devices.



**COMMAND CENTER RX:** View toner levels, paper availability and device status via users' Web browser.



**PRESCRIBE:** Create, store and print frequently used forms directly from a KYOCERA printer.

### SECURITY SPECIFICATIONS

**Standard:** Local Authentication, Network Authentication, IPsec, SNMPv3, IEEE802.1x, IPP over SSL/TLS, HTTPS, FTP over SSL/TLS, SMTP over SSL/TLS, POP3 over SSL/TLS, Enhanced WSD over SSL/TLS, LDAP over SSL/TLS

**Optional:** Data Security Kit (E) (HDD/SSD Overwrite Mode, HDD/SSD Data Encryption), **UG-33** (ThinPrint over SSL/TLS)

### PRINT SPECIFICATION

**Standard Controller:** PowerPC 4655 / 1GHz

**PDLs / Emulations:** PRESCRIBE, PCL6 (PCLXL/PCL5c), KPDL3 (PS3 compatible), XPS

**Fonts:** 93 Scalable Fonts for PCL/Postscript, 93 Fonts for KPDL3(PS3), 8 Fonts for Windows Vista, 1 Bitmap Font, PDF417

**Windows OS Compatibility:** Windows XP/Vista/7/8/8.1/Server 2003/Server 2008/Server 2008 R2/Server 2012/Server 2012 R2

**Mac OS Compatibility:** Mac OS 10.5 and later, AirPrint Enabled

**Interfaces:** Standard: 10/100/1000BaseTX, Hi-Speed USB 2.0, 2 USB Host Interfaces, 1 Expansions Slot

Optional: 10/100/1000BaseTX (**IB-50** for Dual NIC);

Optional IEEE 802.11 b/g/n (**IB-51** for Wireless LAN Interface)

**Network Print and Supported Protocols:** TCP/IP, IPv4, IPv6; HTTP, LPD, FTP, IPP, RawPort, LLTD, SNT, DHCP, SMTP, POP3, DNS, SNMPv1/v2, WSD Scan/Print

**Drivers:** KX Driver, Mini Driver, KX Driver for XPS, Network Fax Driver, TWAIN Driver, WIA Driver, Mac Driver, PPD for Linux

**Utilities:** KYOCERA Net Admin, KYOCERA Net Viewer, KYOCERA Net Direct Print, Command Center RX

**Document Box:** Job Box for RAM based Private Print, Proof and Hold, Job Storage\*, Quick Copy\*

**PDF Extension:** High Compression PDF, Encrypted PDF, PDF/A

### SCAN SPECIFICATIONS

**Scan Type:** Color and Black & White Scanner

**Scan Resolution:** 600 dpi, 400 dpi, 300 dpi, 200 dpi, 200x400 dpi, 200x100 dpi

**File Formats:** Black and White: TIFF, XPS, Open XPS, PDF, PDF/A, Encrypted PDF;

Color: TIFF, JPEG, XPS, Open XPS, PDF, PDF/A, Encrypted PDF, High Compression PDF

#### Scan Speeds:

Mono: 300 dpi - 40 ipm Simplex; 17 ipm Duplex;

600 dpi - 30 ipm Simplex; 13 ipm Duplex;

Color: 300 dpi - 30 ipm Simplex; 13 ipm Duplex;

600 dpi - 20 ipm Simplex; 9 ipm Duplex

**Scanning Functions:** Scan to Folder (SMB), Scan to e-Mail, Scan to FTP, Scan to FTP over SSL, Scan to USB, WSD Scan, TWAIN/WIA Scan

### Original Size:

Through DP: Statement to Legal (5.5" x 8.5" - 8.5" x 14"); Glass: up to 8.5" x 14"

**Drivers:** TWAIN Driver, WIA Driver

### COPY SPECIFICATIONS

**Image Mode:** Text, Photo, Text/Photo, Map, Printed Document mode

**Continuous Copy:** 1-999 / Auto Reset to 1

**Additional Features:** Auto Start, Auto Drawer Change

**Job Management:** 100 Department Codes, Job Programs, Shortcut Keys

**Magnification / Zoom:** 25 - 400% in 1% step increments

### DOCUMENT PROCESSOR

**Type / Capacity:** Standard Reversing Automatic Document Processor / 75 Sheets

**Acceptable Originals:** 4.13" x 5.8" - 8.5" x 14"

**Acceptable Weights:** Simplex: 13 - 32 lb Bond (50-120gsm), Duplex 13 lb Bond - 32 lb Bond (50-120gsm)

### FAX SPECIFICATIONS

**Compatibility / Data Compression:** ITU-T Group 3 / MH, MR, MMR, JBIG

**Transmission Speed / Modem Speed:** 3 Seconds or less per page / 33.6 kbps

**Fax Memory:** 3.5 MB

**Driver:** Network Fax Driver

**Fax Functions:** Duplex Transmission/Reception, One Touch Dial (22 numbers), FAX/TEL Switching, Sequential Broadcast (up to 100 parties), Quick Dial (200 numbers), Fax Reports

### PAPER HANDLING OPTIONS

Up to three (3) **PF-5100** Drawers can be installed

### PF-5100 PAPER FEEDER

**Paper Capacity:** 500 Sheets

**Paper Size / Weight:** Letter, Legal, Statement, A4, A5, B5, Envelope, Custom / 16 lb Bond - 120 lb Index (60-220 gsm)

**Dimensions / Weight:** 15.4" W x 21.0" D x 4.6" H / 9.1 lbs

### ADDITIONAL OPTIONS

**Memory:** 1 GB 144 pin DDR3 SDRAM DIMM

**HDD:** Optional **HD-6** (32 GB SSD), Optional **HD-7** (128 GB SSD)

**Wireless LAN:** **IB-51:** IEEE 802.11 b/g/n

**Additional NIC:** **IB-50** Gigabit NIC

**Security:** Card Authentication Kit(B), Data Security Kit (E)

**Finishing:** **MS-5100:** Manual Stapler (up to 20 Sheets)

**SD Card:** 16 / 32 GB

\*Optional HDD or Optional SD Card Required for Job Storage and Quick Copy





> PRINT

**ECOSYS FS-4200DN**

BLACK & WHITE PRINTER



**ECONOMICAL.  
ECOLOGICAL.  
ECOSYS  
TECHNOLOGY.**



Kyocera ECOSYS® printers deliver the high performance, crisp image quality and low Total Cost of Ownership that today's cost conscious businesses demand.

This next generation of ECOSYS printers boasts highly efficient printing speeds while offering a budget friendly and reliable printing solution for your office. They help to improve overall document productivity and lower operating expenses. Kyocera's unique ECOSYS technology brings decreased energy consumption and advanced reliability resulting in maximum uptime and reduced maintenance requirements.

And unlike competitive products, ECOSYS printers offer efficient performance without excessive costs for supplies and service.

- > 52 Pages Per Minute
- > Standard Duplex Printing
- > Standard Gigabit Ethernet
- > Optional Wireless LAN
- > 2,600 Sheet Maximum Paper Capacity
- > 5 Line LCD Display Panel for Ease of Use
- > Numeric Hard Keys for Simplified User Navigation
- > Convenient USB Host Printing
- > Low Total Cost of Ownership



# ECOSYS FS-4200DN

## ECOSYS

KYOCERA's objective is to manufacture superior products with a low Total Cost of Ownership (TCO) and minimize the impact on the environment. ECOSYS printers incorporate a patented long life drum which is separate from the toner container, eliminating drum replacement when toner is depleted – and reducing landfill waste. ECOSYS printers provide a printing solution that incorporates long life consumables and one of the lowest costs per print. The operating costs of traditional cartridge-based printers can easily exceed many times the original purchase price during the life of the product. Evaluate your printer costs today.

### BASIC SPECIFICATIONS

**Technology and Configuration:** KYOCERA ECOSYS® Black & White Network Printer

**Pages per Minute:** Letter: 52, Legal: 42, A4: 50

**Warm Up Time:** 20 seconds or less

**First Print Out Time:** 9 seconds or less

**Resolution:** Fine 1200 Mode (1,200 x 1,200 dpi), Fast 1200 Mode (1,800 x 600 dpi), 600 x 600 dpi, 300 x 300 dpi

**Memory:** Standard 256 MB, upgradeable to 1,280 MB; Standard SD Card Slot

**Hard Disk Drive:** Optional HD-6 (32 GB SSD)

**Duplex Printing:** Standard Duplex, 37 Pages Per Minute Letter

**Electrical Requirements:** 120V, 60Hz, 9.7A; 220-240V, 50-60Hz, 5.2A

**Dimensions / Weight:** 15.35" W x 16.14" D x 12.6" H / 32.19 lbs

**Typical Energy Consumption (TEC):** 3.036k Wh/week (120V); 2.843k Wh/week (220-240V)

**Noise (ISO 7779 / ISO 9296):** Printing 55dB(A)

**Maximum Monthly Duty Cycle:** 250,000 Pages Per Month

**Recommended Monthly Volume:** 2,000 to 30,000 Pages Per Month

### CONTROLLER SPECIFICATIONS

**CPU / MHz:** Embedded Power PC 465 / 750MHz

**PDL / Emulations:** PRESCRIBE, PCL6 (PCL5e/PCLXL, PCL5c), KPDL3, Line Printer, IBM Proprinter X24E, EPSON LQ850

**Direct Print:** USB: TIFF, JPG, XPS, PDF (version 1.7)

**Fonts:** 93 Scalable Fonts for PCL/Postscript, 93 Fonts for KPDL3, 8 Fonts for Windows Vista, 1 Bitmap Font

**Barcodes:** 1 Dimensional: 45, 2 Dimensional: 1 (PDF417)

**Supported Client Operating Systems:** Certified for Microsoft® Windows Vista® 32/64-bit, Windows XP® 32/64-bit, Windows 7 32/64-bit, Windows 8 32/64-bit, Windows Server 2003 32/64-bit, Windows Server 2008 32/64-bit, Mac OS X v10.39, v10.4, v10.5, AirPrint Enabled; Linux

**Supported Network Operating Systems:** Microsoft Windows, Server 2003, XP, Vista, 2003 64-bit, XP 64-bit, (for Microsoft IPv6 compatible with Windows 2003, XP, and Vista); Novell 5.1 and Later; Mac OS X 10.2.8, v10.3, v10.4, v10.5; Linux, Unix

**Printer Management:** Status Monitor, Command Center RX, KYOCERA Net Admin, KYOCERA Net Viewer

## HARNESS THE POWER OF YOUR ECOSYS PRINTER WITH CUSTOMIZED BUSINESS APPLICATIONS

 **KYOCERA MOBILE PRINT:** Simply and conveniently print files, web pages, and images using your smartphone or tablet.

 **CARD AUTHENTICATION:** Use your existing HID employee identification cards to securely unlock your printer.

 **KX DRIVER:** A common interface across all KYOCERA devices, providing comprehensive access to all device features.

 **KYOCERA NET ADMIN:** A web-based platform giving network administrators easy control over every device in the organization.

 **KYOCERA NET VIEWER:** All the functionality for network device management in an easy-to-use interface.

**Connectivity / Interfaces:** Standard 10/100/1000BaseTX, High Speed USB 2.0, e-KUIO, USB-Host x 2

**Network Protocols:** IPv6: HTTP, LPD, FTP, IPP, RawPort, ICMPv6, LLD, SNMP, DHCPv6, SMTP, POP3, DNS, SNMPv1/v2c/v3, WSD

**Security:** IPsec, 802.1x, SSL/TLS (HTTPS), SNMPv3, POP 3/SMTP over SSL

**Drivers:** KX Driver For Windows, Mini Driver, KX(XPS) Driver, PPD for Mac, PPD for Linux/UNIX, Windows 64 Bit Drivers

**Departmental Accounting:** 100 Department Codes

**Additional Print Features:** LCD Operation Panel, N-Up Printing, Private Print, Document Storage, EcoPrint Mode, Poster Mode, Internet Printing IPP 1.0 or 1.1

**Multi Language Support:** English, Italian, French, Spanish, German, Portuguese, Dutch, Russian

### PAPER SUPPLY

**Standard Paper Sources:** 500 Sheet Drawer, 100 Sheet Multipurpose Tray

**Standard / Maximum Paper Sources:** 2 / 6 including Multi-Purpose Tray

**Standard Paper Drawer Size / Weight:** Letter, Legal, A4, A5, B5, A6R, Custom 5.83" x 8.27" / 16-32 lb Bond (60 - 120gsm)

**Standard Duplex Paper Size / Weight:** Letter, Legal, A4, A5 / 16-32 lb Bond (60 - 120gsm)

**Standard / Maximum Paper Capacity:** 600 / 2,600 Sheets

**Multi-Purpose Tray Paper Size / Weight:** Letter, Legal, A4, A5, B5, Custom 4.13" x 5.83" / 16 lb Bond - 120 lb Index (60 - 220gsm)

**Input Materials:** Plain, Preprinted, Bond, Recycled, Rough, Letterhead, Color, Pre-Punched, High Quality, Transparency, Labels, Bond, Vellum, Envelope, Cardstock, Thick Paper, Custom

**Output Capacity:** Standard: 500 Sheets; Maximum: 750 Sheets

### PAPER HANDLING OPTIONS

#### PF-320 PAPER FEEDER

**Paper Capacity:** 500 Sheets

**Paper Size / Weight:** Letter, Legal, A4, A5, B5 / 16-32 lb Bond (60 - 120gsm)

**Dimensions / Weight:** 14.96" W x 16.14" D x 4.76" H / 8.82 lbs (380 x 410 x 121 mm / 4.0kg)

### PF-315+ BULK FEEDER

**Paper Capacity:** 2,000 Sheets

**Paper Size / Weight:** Letter, A4, B5 / 16 lb Bond - 120 lb Index (60 - 220gsm)

**Dimensions / Weight:** 13.86" W x 13.58" D x 14.80" H / 16.53 lbs (352 x 345 x 376 mm / 7.5kg)

### PT-320 FACE UP TRAY

**Paper Capacity:** 250 Sheets

**Paper Size / Weight:** 8.5" x 11", 8.5" x 14", Oficio2, A4, A5, B5, A6, Folio

**Dimensions / Weight:** 9.84" W x 12.99" D x 2.76" H / 0.63 lbs

### CONSUMABLES

**Black Toner:** TK-3122: Toner for 21,000 pages\* (ships with 10,000 pages)

### ADDITIONAL OPTIONS

**Memory:** 512 or 1024 MB 144 pin DDR2 SDRAM DIMMS

**HDD:** HD-6: 32 GB SSD

**Wireless LAN:** IB-51 IEEE 802.11 b/g/n

**Additional NIC:** IB-50 Gigabit NIC

**Security:** Data Security Kit (E), Card Authentication Kit (B)

Specifications and design are subject to change without notice. For the latest on connectivity visit [www.kyoceradocumentsolutions.com/us](http://www.kyoceradocumentsolutions.com/us). ECOSYS and KX Driver are trademarks of the KYOCERA Companies. AirPrint and the AirPrint logo are trademarks of Apple, Inc. Other trademarks are the property of their respective owners.

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IC# 855D400341



\* In accordance with ISO 19752

**PALMDALE  
WATER DISTRICT  
BOARD MEMORANDUM**

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**DATE:** February 3, 2016 February 10, 2016  
**TO:** BOARD OF DIRECTORS Board Meeting  
**FROM:** Mr. Bob Egan, Financial Advisor  
**RE:** *AGENDA ITEM NO. 7.1 – STATUS REPORT ON CASH FLOW STATEMENT AND  
CURRENT CASH BALANCES AS OF DECEMBER, 2015.*

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Attached is the Investment Funds Report and current cash balance as of December 31, 2015.  
The reports will be reviewed in detail at the Board meeting.

**PALMDALE WATER DISTRICT  
INVESTMENT FUNDS REPORT  
December 31, 2015**

		<u>December 2015</u>	<u>November 2015</u>				
<b>CASH</b>							
1-00-0103-100	Citizens - Checking	653,573.17	379,319.49				
1-00-0103-200	Citizens - Refund	-	-				
1-00-0103-300	Citizens - Merchant	126,990.70	141,409.68				
	<b>Bank Total</b>	<b>780,563.87</b>	<b>520,729.17</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>786,263.87</b>	<b>526,429.17</b>				
<b>INVESTMENTS</b>							
1-00-0135-000	Local Agency Investment Fund	<b>11,765.88</b>	<b>11,765.88</b>				
<b>1-00-0120-000 UBS Money Market Account General (SS 11469)</b>							
	UBS RMA Government Portfolio	3,512,512.26	1,670,677.33				
	UBS Bank USA Dep acct	250,000.00	250,000.00				
	Accrued interest	6,245.10	5,065.10				
		<b>3,768,757.36</b>	<b>1,925,742.43</b>				
<b>Certificates of Deposit</b>							
	<b>Issuer</b>	<b>Maturity Date</b>	<b>Rate</b>	<b>Face Value</b>			
1	Everbank	01/15/2016	0.50	240,000	240,000.00	240,088.80	
2	Horizon Financial	01/15/2016	0.30	240,000	239,990.40	240,033.60	
3	Hardin county	01/20/2016	0.35	240,000	239,988.00	240,050.40	
4	Level One bank	01/21/2016	0.35	40,000	39,997.60	40,008.40	
5	Firsy Merit	01/22/2016	0.45	240,000	239,995.20	240,084.00	
6	Safra National	08/16/2016	0.60	240,000	239,829.60	240,304.80	
7	First Bank PR	11/07/2016	0.80	240,000	239,820.00	240,412.80	
8	Compass bank	02/07/2017	0.95	240,000	239,810.40	240,492.00	
9	Discover Bank	05/02/2017	1.75	240,000	241,713.60	242,676.00	
10	Capitol One	08/14/2017	1.20	240,000	239,685.60	240,669.60	
				<b>2,200,000</b>	<b>2,200,830.40</b>	<b>2,204,820.40</b>	
	<b>Acct. Total</b>				<b>5,969,587.76</b>	<b>4,130,562.83</b>	
<b>1-00-1110-000 UBS Money Market Account Capital (SS 11475)</b>							
	UBS Bank USA Dep acct				250,000.00	250,000.00	
	UBS RMA Government Portfolio				610,129.83	606,774.19	
	<b>Acct. Total</b>				<b>860,129.83</b>	<b>856,774.19</b>	
<b>1-00-0125-000 UBS Access Account General (SS 11432)</b>							
	UBS Bank USA Dep acct				250,000.00	250,000.00	
	UBS RMA Government Portfolio				1,695,849.46	1,693,915.57	
	Accrued interest				3,360.26	3,302.05	
					<b>1,949,209.72</b>	<b>1,947,217.62</b>	
<b>US Government Securities</b>							
	<b>Status</b>	<b>Issuer</b>	<b>Maturity Date</b>	<b>Rate</b>	<b>PAR</b>	<b>Market Value</b>	<b>Market Value</b>
	Called	FNMA	10/26/2015	1.625	500,000	-	-
		FFCB	06/02/2016	0.375	1,000,000	999,840.00	999,730.00
	Called	FHLB	12/28/2017	0.950	500,000	-	-
					<b>2,000,000</b>	<b>999,840.00</b>	<b>999,730.00</b>
<b>Certificates of Deposit</b>							
	<b>Issuer</b>	<b>Maturity Date</b>	<b>Rate</b>	<b>Face Value</b>			
1	Sallie Mae Bank	11/06/2015	0.85	240,000			
2	Goldman Sachs Bk	11/07/2016	1.00	240,000	240,316.80	240,964.80	
3	CIT Bank	11/06/2017	1.60	240,000	240,216.00	240,307.20	
4	BMW Bank	11/15/2018	2.00	240,000	240,993.60	242,517.60	
5	American Express	04/29/2019	1.45	240,000	237,556.80	238,934.40	
6	Synchrony Bank	04/14/2020	1.85	240,000	237,465.60	239,044.80	
				<b>1,440,000</b>	<b>1,196,548.80</b>	<b>1,201,768.80</b>	
	<b>Acct. Total</b>				<b>4,145,598.52</b>	<b>4,148,716.42</b>	
	<b>Total Managed Accounts</b>				<b>10,987,081.99</b>	<b>9,147,819.32</b>	
<b>1-00-1121-000 UBS Rate Stabilization Fund (SS 24016) - District Restricted</b>							
	UBS Bank USA Dep acct				250,000.00	250,000.00	
	UBS RMA Government Portfolio				230,249.59	230,295.36	
	<b>Acct. Total</b>				<b>480,249.59</b>	<b>480,295.36</b>	
	<b>GRAND TOTAL CASH AND INVESTMENTS</b>				<b>12,253,595.45</b>	<b>10,154,543.85</b>	
	<b>Increase (Decrease) in Funds</b>				<b>2,099,051.60</b>		
<b>1-00-1130-000 2013A Bonds - Project Funds (BNY Mellon)</b>							
	Construction Funds				<b>1,191,265.52</b>	<b>1,191,233.97</b>	

**PALMDALE WATER DISTRICT  
2015 Cash Flow Report**

	January	February	March	April	May	June	July	August	September	October	November	December	YTD	Budget 2016 Carryover Information
<b>Total Cash Beginning Balance</b>	12,989,419	13,129,291	13,311,353	10,792,096	12,454,470	13,232,397	12,784,219	11,576,339	11,993,950	9,681,022	9,949,996	10,154,544		
Water Receipts	1,955,377	1,333,287	1,882,461	1,715,041	1,541,540	1,900,537	1,790,744	1,998,605	1,966,149	1,957,066	2,049,705	1,910,818	22,001,330	
DWR Refund (Operational Related)				37,515						1,528			39,043	237,560
Other					122,850			23,893					146,743	117,167
<b>Total Operating Revenue (BUDGET)</b>	1,955,377	1,805,677	1,780,736	1,691,040	1,777,997	2,046,064	2,312,079	2,377,838	2,191,667	2,101,684	1,823,591	1,806,466	23,670,217	
<b>Total Operating Revenue (ACTUAL)</b>	1,955,377	1,333,287	1,882,461	1,752,556	1,664,390	1,900,537	1,790,744	2,022,498	1,966,149	1,958,594	2,049,705	1,910,818	22,187,117	
<b>Total Operating Expenses excl GAC (BUDGET)</b>	1,941,325	1,336,683	1,620,620	1,268,042	1,457,882	1,415,451	2,043,912	1,725,160	1,626,092	1,790,975	1,788,698	1,539,261	19,554,101	
<b>Operating Expenses excl GAC (ACTUAL)</b>	(1,220,221)	(1,283,540)	(1,934,657)	(1,515,585)	(1,595,352)	(1,452,485)	(2,238,601)	(1,460,094)	(1,672,967)	(1,527,531)	(1,513,596)	(1,690,355)	(19,104,984)	
GAC			(297,759)	(298,286)									(596,045)	(525,000)
Prepaid Insurance (paid)/refunded		81,446		(62,561)				(34,277)	(196,521)				(211,913)	
<b>Total Operating Expense (ACTUAL)</b>	(1,220,221)	(1,202,094)	(2,232,415)	(1,876,432)	(1,595,352)	(1,452,485)	(2,238,601)	(1,494,371)	(1,869,488)	(1,527,531)	(1,513,596)	(1,690,355)	(19,912,942)	
	12,989,227													
<b>Non-Operating Revenue Expenses:</b>														
Budgeted Assessments, net	658,043	301,052	8,169	2,023,311	743,899	7,993	82,865	175,695	-	-	147,607	2,901,366	7,050,000	
Actual/Projected Assessments, net	720,946	275,795	15,646	2,199,772	803,305	11,911	81,982	138,249	-	-	140,539	2,661,558	7,049,703	
RDA Pass-through (Successor Agency)					331,200							180,151	511,352	
Interest	3,425	3,617	4,221	3,604	3,164	3,823	3,965	4,361	4,499	4,461	3,459	3,202	45,801	
Market Adjustment	6,917	(4,350)	6,676	951	(625)	(4,479)	(4,705)	750	2,589	1,646	694	(9,146)	(3,081)	
Grant Re-imbusement													-	485,000
Capital Improvement Fees		19,315	101,633	17,754				215,189		10,106			363,997	
DWR Refund (Capital Related)			39,207	65,731	35,221	113,573				74,953			328,685	
Other	608	3,971	2,270	4,259	21	63	32	(29)	13	(75)	(28)	3,252	14,356	
<b>Total Non-Operating Revenues (BUDGET)</b>	677,843	500,852	512,969	2,043,111	1,013,699	27,793	152,665	195,495	19,800	19,800	167,407	3,091,168	8,422,601	
<b>Total Non-Operating Revenues (ACTUAL)</b>	731,896	298,348	169,653	2,292,071	1,172,287	124,891	81,275	358,521	7,101	91,091	144,664	2,839,018	8,310,813	
<b>Non-Operating Expenses:</b>														
Budgeted Capital Expenditures	(549,456)	(580,000)	(945,000)	(710,000)	(545,000)	(178,000)	(187,000)	(115,000)	(135,000)	(35,000)	(10,000)	(10,000)	(3,999,456)	
Actual/Projected Capital Expenditures	(549,456)	(41,022)	(478,918)	(300,653)	(251,559)	(164,467)	(151,873)	(257,199)	(81,210)	(44,678)	(267,722)	(107,112)	(2,695,868)	(966,588)
Uncommitted Capital Expenditures													-	(337,000)
WRB Capital Expenditures													-	(748,184)
SWP Capitalized	(754,079)	(185,988)	(213,428)	(187,871)	(187,871)	(187,871)	(672,129)	(187,869)	(218,871)	(187,870)	(187,870)	(187,870)	(3,359,587)	
Butte County Water Transfer						(648,151)						(648,151)	(1,296,303)	
Bond Payments - Interest			(1,105,798)						(1,097,735)				(2,203,532)	
Principal			(520,179)						(998,242)				(1,518,421)	
Capital leases - Go West (2012 Lease)	(17,296)	(17,296)	(17,296)	(17,296)	(17,296)	(17,296)	(17,296)	(17,296)	(17,296)	(17,296)	(17,296)	(17,296)	(207,553)	
Capital leases - GE Capital (Printer Lease)	(6,347)	(3,174)	(3,336)	-	(6,672)	(3,336)	-	(6,672)	(3,336)	(3,336)	(3,336)	-	(39,546)	
<b>Total Non-Operating Expenses (ACTUAL)</b>	(1,327,179)	(247,480)	(2,338,955)	(505,820)	(463,398)	(1,021,121)	(841,298)	(469,036)	(2,416,690)	(253,180)	(476,224)	(960,430)	(11,320,810)	
<b>Total Cash Ending Balance (BUDGET)</b>	12,377,388	12,241,913	9,741,797	11,292,763	11,870,085	11,659,383	11,027,929	11,557,846	9,479,577	9,386,831	9,190,876	11,650,994		
<b>Total Cash Ending Balance (ACTUAL)</b>	13,129,291	13,311,353	10,792,096	12,454,470	13,232,397	12,784,219	11,576,339	11,993,950	9,681,022	9,949,996	10,154,544	12,253,595		

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

Budget 11,500,000  
Difference 753,595

**PALMDALE  
WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** February 3, 2016 **February 10, 2016**  
**TO:** Board of Directors **Board Meeting**  
**FROM:** Michael Williams, Finance Manager/CFO  
**VIA:** Mr. Dennis LaMoreaux, General Manager  
**RE:** *AGENDA ITEM 7.2 – STATUS REPORT ON FINANCIAL STATEMENTS, REVENUE, AND EXPENSE AND DEPARTMENTAL BUDGET REPORTS FOR DECEMBER, 2015.*

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**Discussion:**

Presented here are the Balance Sheet and Profit/Loss Statement for the period ending December 31, 2015. Also included are Year-To-Year Comparisons and Month-To-Month Comparisons for both revenue and expense. Finally, I have provided individual departmental budget reports for the month of December, 2015.

This is the twelfth month of the District's Budget Year 2015. The target percentage is 100%. Revenues ideally are at or above, and expenditures ideally are below.

**Balance Sheet:**

- Page 1 is our balance sheet on December 31, 2015.
- The significant change is the increase in investments of \$1.8MM. This is due to the receipt of tax assessments.

**Profit/Loss Statement:**

- Page 3 is our profit/loss statement on December 31, 2015.
- Operating revenue is at 91% of budget.
- Drought Surcharge for the year is \$681K.
- Cash operating expense is at 85% of budget.
- Both operating revenue and expense are ending the year below budget, with revenue exceeding expense by approximately \$2MM.
- Directors, Administration, Water Conservation, and Human Resources ended the year over budget, and we will cover those in detail later in the report.
- Net water purchases was approximately \$1MM.

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

- Page 7 is our comparison of December, 2014 to December, 2015.
- Total operating revenue is down \$197K, or 10%, due to reduced water consumption. If not for the surcharge, revenue would be down \$240K.
- Operating expenditures are up by \$952K, or 170%. This is due to an accounting adjustment in which the meter expense was re-classified into inventory because of the delayed project start.

BOARD OF DIRECTORS  
PALMDALE WATER DISTRICT

VIA: Mr. Dennis LaMoreaux, General Manager

-2-

February 3, 2016

- Page 8 is a graphic presentation of the water consumption comparison. Units billed in acre feet were down by 207, or 19%. Total revenue per unit sold is up \$0.41, or 10%, total revenue per connection is down \$10.05, or 15%, and units billed per connection is down 3.45, or 19%.

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

- Page 9 is our comparison of revenue, year-to-date.
- Operating revenue through December, 2015 is down \$1.8MM, or 8%.
- Retail water sales from all areas are down by \$2.45MM from last year. That's shown by the combined green highlighted area. If you exclude the meter fees, we are down \$2.7MM.
- The drought surcharge of \$681K is helping to offset the huge decreases in revenue.
- Total revenue is down \$1.1MM, or 3%.
- Operating revenue ended year at 91% of budget; last year was at 95% of budget.

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

- Page 11 is our comparison of expense, year-to-date.
- Cash Operating Expenses through December, 2015 are down \$2.3MM, or 12%, compared to 2014. This is due to the reduced costs associated with reduced water sales and the re-class of postponed project.
- Total Expenses are down \$676K, or 2%.

**Departments:**

- Pages 14 through 23 are detailed individual departmental budgets for your review.
- Page 14 is the Directors budget. It finished the year over budget due to increased activity of the Board members attending conferences, workshops and meetings.
- Page 15 is the Administration budget. It finished the year over budget due primarily to the payment of PERS unfunded liability and groundwater adjudication.
- Page 20 is the Water Conservation budget. It finished the year over budget due primarily to the drought messaging required.
- Page 21 is the Human Resources budget. It finished the year over budget due to increased staff training and state reimbursed unemployment insurance claims.

**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.

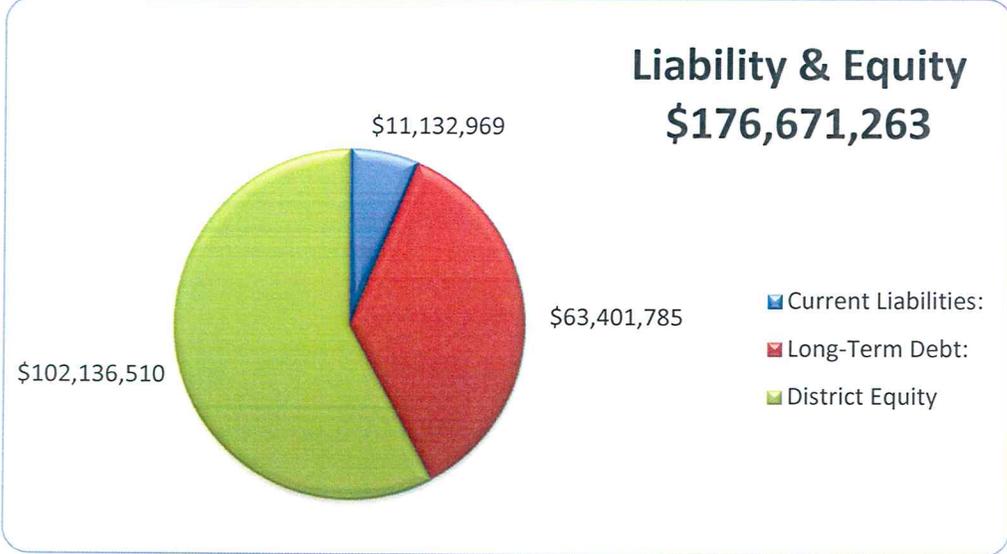
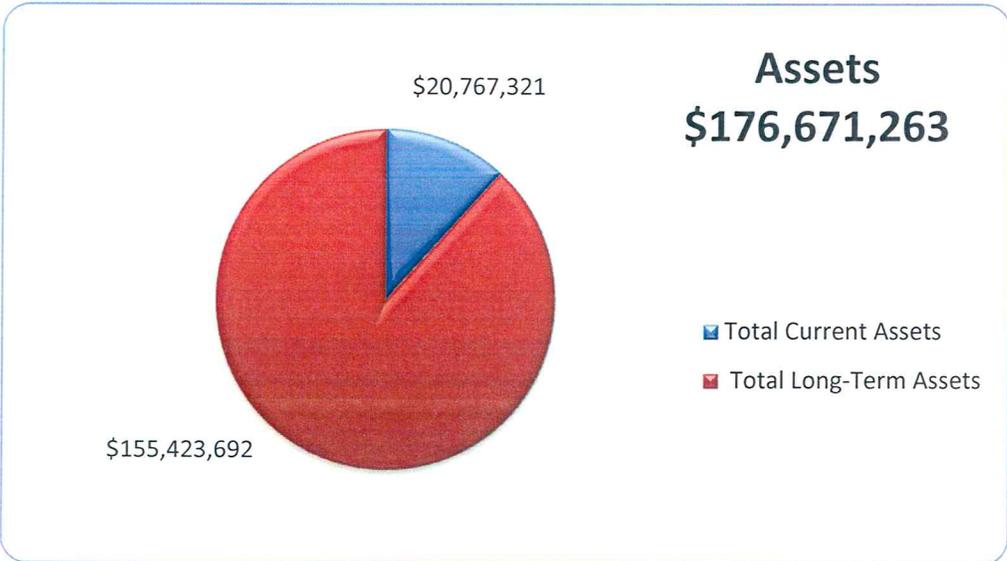
**Service Cost Construction:** The value of material, parts & supplies from inventory used to construct, repair and maintain our asset infrastructure.

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

**Palmdale Water District**  
**Balance Sheet Report**  
**For the Twelve Months Ending 12/31/2015**

	December 2015	November 2015
<b>ASSETS</b>		
<b>Current Assets:</b>		
Cash and Cash Equivalents	\$ 786,264	\$ 526,429
Investments	10,987,082	9,147,819
2013A Bonds - Project Funds	1,191,266	1,191,234
	<b>\$ 12,964,611</b>	<b>\$ 10,865,482</b>
<b>Receivables:</b>		
Accounts Receivables - Water Sales	\$ 1,499,620	\$ 1,770,920
Accounts Receivables - Miscellaneous	432,721	118,304
Allowance for Uncollected Accounts	(200,199)	(200,199)
	<b>\$ 1,732,141</b>	<b>\$ 1,689,025</b>
Interest Receivable	\$ -	\$ -
Assessments Receivables	4,858,340	7,419,898
Meters, Materials and Supplies	822,862	852,229
Prepaid Expenses	389,366	207,583
<b>Total Current Assets</b>	<b>\$ 20,767,321</b>	<b>\$ 21,034,217</b>
<b>Long-Term Assets:</b>		
Property, Plant, and Equipment, net	\$ 112,256,910	\$ 112,653,093
Participation Rights in State Water Project, net	42,679,472	42,016,327
Investment in PRWA	265,420	265,420
2013A Bonds - Insurance & Surety Bond	221,891	222,557
	<b>\$ 155,423,692</b>	<b>\$ 155,157,397</b>
<b>Restricted Cash:</b>		
Rate Stabilization Fund	480,250	480,296
<b>Total Long-Term Assets &amp; Restricted Cash</b>	<b>\$ 155,903,942</b>	<b>\$ 155,637,693</b>
<b>Total Assets</b>	<b>\$ 176,671,263</b>	<b>\$ 176,671,909</b>
<b>LIABILITIES AND DISTRICT EQUITY</b>		
<b>Current Liabilities:</b>		
Current Interest Installment of Long-term Debt	\$ 542,424	\$ 361,616
Current Principal Installment of Long-term Debt	1,734,738	1,734,738
Accounts Payable and Accrued Expenses	5,305,807	5,067,574
Deferred Assessments	3,550,000	4,083,333
<b>Total Current Liabilities</b>	<b>\$ 11,132,969</b>	<b>\$ 11,247,261</b>
<b>Long-Term Debt:</b>		
Pension-Related Debt	\$ 1,019,485	\$ 1,019,485
OPEB Liability	11,341,142	11,173,785
2013A Water Revenue Bonds	42,959,465	42,961,716
2012 - Certificates of Participation	8,027,133	8,020,335
2011 - Capital Lease Payable	54,560	69,599
<b>Total Long-Term Liabilities</b>	<b>\$ 63,401,785</b>	<b>\$ 63,244,920</b>
<b>Total Liabilities</b>	<b>\$ 74,534,753</b>	<b>\$ 74,492,182</b>
<b>District Equity</b>		
Revenue from Operations	\$ (3,500,825)	\$ (3,457,607)
Retained Earnings	105,637,335	105,637,335
<b>Total Liabilities and District Equity</b>	<b>\$ 176,671,263</b>	<b>\$ 176,671,909</b>

# BALANCE SHEET AS OF DECEMBER 31, 2015



**Palmdale Water District**  
**Consolidated Profit and Loss Statement**  
**For the Twelve Months Ending 12/31/2015**

	Thru November	December	Year-to-Date	Adjustments	Adjusted Budget	% of Budget
<b>Operating Revenue:</b>						
Wholesale Water	\$ 140,054	\$ 2,694	\$ 142,749		\$ 225,000	63.44%
Water Sales	5,887,612	384,048	6,271,661		8,550,500	73.35%
Meter Fees	10,689,422	969,482	11,658,904		11,506,000	101.33%
Water Quality Fees	845,168	52,966	898,135		1,146,500	78.34%
Elevation Fees	349,162	20,736	369,899		525,000	70.46%
Other (Page 3-1)	1,158,572	177,904	1,336,475		1,450,000	92.17%
Drought Surcharge	634,752	46,281	681,033		-	
<b>Total Operating Revenue</b>	<b>\$ 19,704,743</b>	<b>\$ 1,654,112</b>	<b>\$ 21,358,855</b>	<b>\$ -</b>	<b>\$ 23,403,000</b>	<b>91.27%</b>
<b>Cash Operating Expenses:</b>						
Directors	\$ 124,790	\$ 14,486	\$ 139,276		\$ 118,500	117.53%
Administration*	2,550,598	283,802	2,834,400	8,000	2,675,250	105.95%
Engineering*	1,086,219	119,529	1,205,748	(1,600)	1,251,150	96.37%
Facilities**	5,273,064	530,048	5,803,112	230,775	6,228,775	93.17%
Operations	2,295,486	241,736	2,537,222		2,624,000	96.69%
Finance**	1,447,530	121,626	1,569,155	(1,352,725)	1,598,025	98.19%
Water Conservation	312,114	26,104	338,218		284,000	119.09%
Human Resources***	376,064	36,392	412,455	57,220	383,320	107.60%
Information Technology*	687,300	85,197	772,498	1,600	784,350	98.49%
Customer Care**	1,005,340	144,269	1,149,610	1,121,950	1,121,950	102.47%
Water Purchases*	1,773,857	9,320	1,783,177	(29,000)	2,371,000	75.21%
Water Purchases-Prior Year OAP	(36,045)	-	(36,045)		250,000	-14.42%
Water Recovery	(468,553)	(237,560)	(706,113)		(100,000)	706.11%
Plant Expenditures	763,522	135,185	898,707		1,146,500	78.39%
GAC Filter Media Replacement	596,045	-	596,045		1,896,000	31.44%
<b>Total Cash Operating Expenses</b>	<b>\$ 17,787,331</b>	<b>\$ 1,510,134</b>	<b>\$ 19,297,465</b>	<b>\$ 36,220</b>	<b>\$ 22,632,820</b>	<b>85.26%</b>
<b>Non-Cash Operating Expenses:</b>						
Depreciation	\$ 7,404,344	\$ 529,765	\$ 7,934,109		\$ 6,450,000	123.01%
OPEB Accrual Expense	2,019,380	183,580	2,202,960		2,000,000	110.15%
Bad Debts	24,519	5,375	29,894		100,000	29.89%
Service Costs Construction	(18,020)	31,880	13,861		125,000	11.09%
Capitalized Construction	(953,503)	(143,101)	(1,096,604)		(1,000,000)	109.66%
<b>Total Non-Cash Operating Expenses</b>	<b>\$ 8,476,721</b>	<b>\$ 607,499</b>	<b>\$ 9,084,220</b>	<b>\$ -</b>	<b>\$ 7,675,000</b>	<b>118.36%</b>
<b>Net Operating Profit/(Loss)</b>	<b>\$ (6,559,309)</b>	<b>\$ (463,522)</b>	<b>\$ (7,022,831)</b>	<b>\$ (36,220)</b>	<b>\$ (6,904,820)</b>	<b>101.71%</b>
<b>Non-Operating Revenues:</b>						
Assessments (Debt Service)	\$ 4,728,157	\$ 478,846	\$ 5,207,003		\$ 5,100,000	102.10%
Assessments (1%)	1,811,172	334,639	2,145,811		1,950,000	110.04%
DWR Fixed Charge Recovery	332,957	-	332,957		100,000	332.96%
Interest	48,637	(5,944)	42,694		35,000	121.98%
Capital Improvement Fees	363,998	3,483	367,481		50,000	734.96%
Other	11,105	3,261	14,366		5,000	287.33%
<b>Total Non-Operating Revenues</b>	<b>\$ 7,296,026</b>	<b>\$ 814,286</b>	<b>\$ 8,110,312</b>	<b>\$ -</b>	<b>\$ 7,240,000</b>	<b>112.02%</b>
<b>Non-Operating Expenses:</b>						
Interest on Long-Term Debt	\$ 2,081,996	\$ 186,850	\$ 2,268,846		\$ 2,111,000	107.48%
Amortization of SWP	1,901,647	172,877	2,074,524		1,679,000	123.56%
Change in Investments in PRWA	22,049	2,285	24,334		-	
Water Conservation Programs*	212,527	8,075	220,602	21,000	221,000	99.82%
<b>Total Non-Operating Expenses</b>	<b>\$ 4,218,219</b>	<b>\$ 370,087</b>	<b>\$ 4,588,306</b>	<b>\$ 21,000</b>	<b>\$ 4,011,000</b>	<b>114.39%</b>
<b>Net Earnings</b>	<b>\$ (3,481,502)</b>	<b>\$ (19,323)</b>	<b>\$ (3,500,825)</b>	<b>\$ (57,220)</b>	<b>\$ (3,675,820)</b>	<b>95.24%</b>

\* Budget adjustments by General Manager per Appendix A

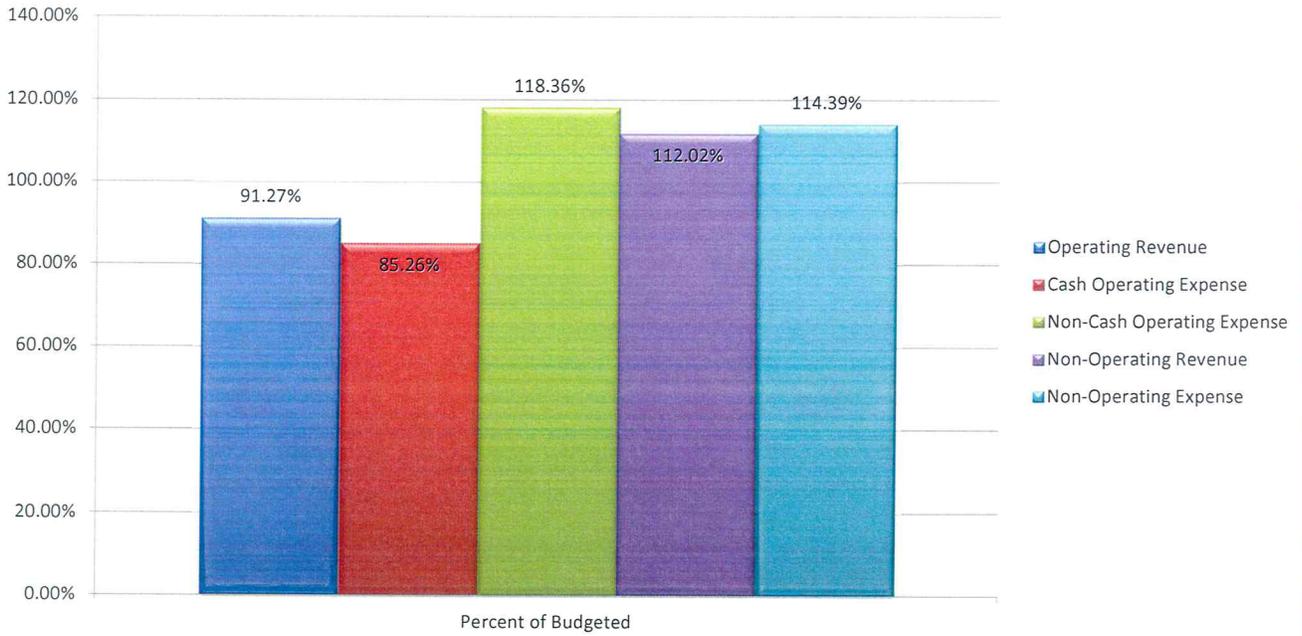
\*\* Budget adjustment by Board action 04/08/15

\*\*\* Budget adjustment by Board action 11/26/14 & 08/12/15

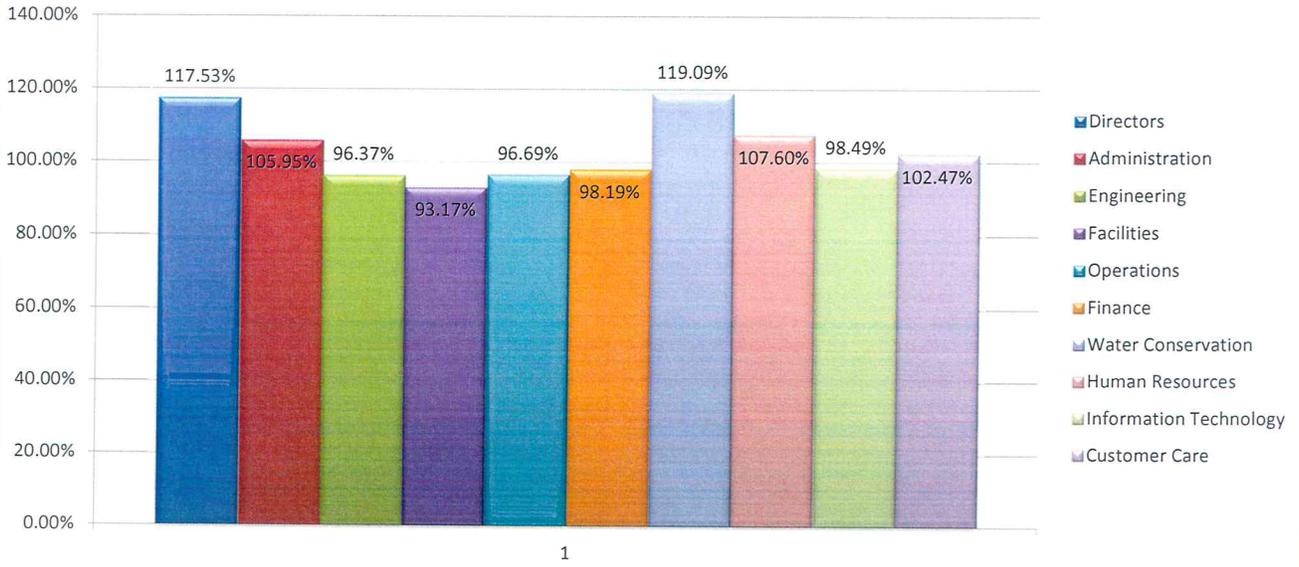
OTHER OPERATING REVENUE	
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5/8" Meter Charge(\$109)	\$120.00
5/8" Meter W/Itron Assembly(\$212)	\$212.00
Account Setup Charge(\$25)	\$23,185.00
Account Setup Charge/CC (\$35)	\$35,200.00
Adjustment	\$10.11
After Hours Service Call	\$460.00
Construction Meter Install(\$250)	\$1,250.00
Credit Check(\$10)	\$190.00
Customer Request Turn On/Off(\$15)	\$75.00
Door tag fee for Paperwork(\$20)	\$60.00
Door Tag Fee(\$20)	\$411,520.00
Grind Down Angle Stop (\$230)	\$475.00
Lock Broken or Missing(\$15)	\$780.00
Miscellaneous Charge	\$3,377.86
Non-Compliance Fee Backflow(\$50)	\$1,450.00
Pulled Meter Service Charge(\$60)	\$2,520.00
Rejected Payment Notification	\$680.00
Repair Angle Stop After Hours(\$600.00)	\$660.00
Repair Angle Stop(\$440.00)	\$4,840.00
Shut-Off Charge(\$30)	\$34,890.00
Shut-Off Notice Fee (\$5)	\$34,865.00
Standard Trip Charge(\$15)	\$2,085.00
Unauthorized Use of Water(\$1000)	\$2,000.00
Waste Water 1st Notice(\$50.00)	\$58,800.00
Waste Water 2nd Notice (\$250.00)	\$10,000.00
Waste Water 3rd Notice (\$500.00)	\$1,500.00
Late Fees	\$456,438.80
NSF Fee	\$7,150.00
Inspection Fees	(\$17,896.46)
Settlements/Rebates	\$81,446.29

### P & L BUDGET vs. ACTUAL

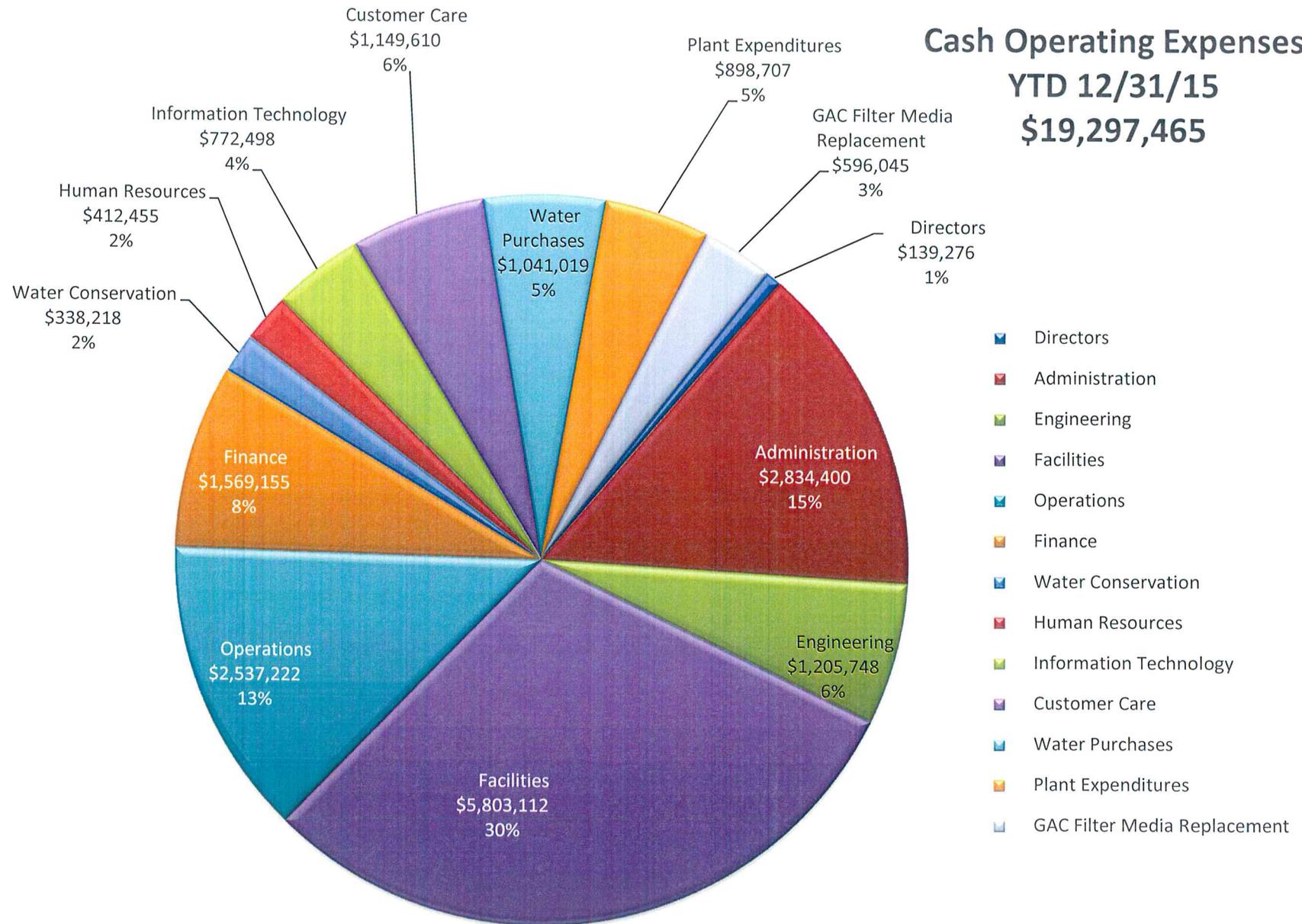


### DEPARTMENTAL - BUDGET vs. ACTUAL

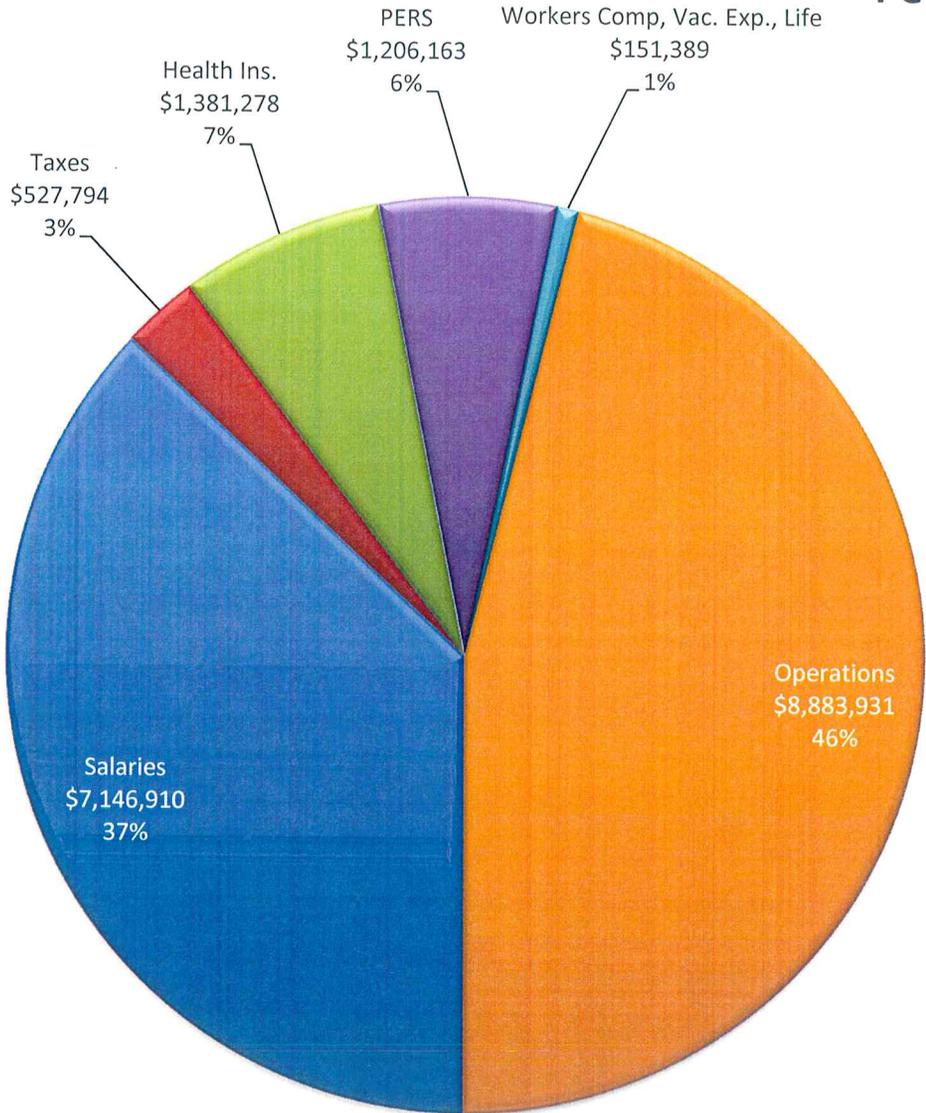


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## Cash Operating Expenses YTD 12/31/15 \$19,297,465



**Personnel to Operations Exp  
YTD 12/31/15  
\$19,297,465**



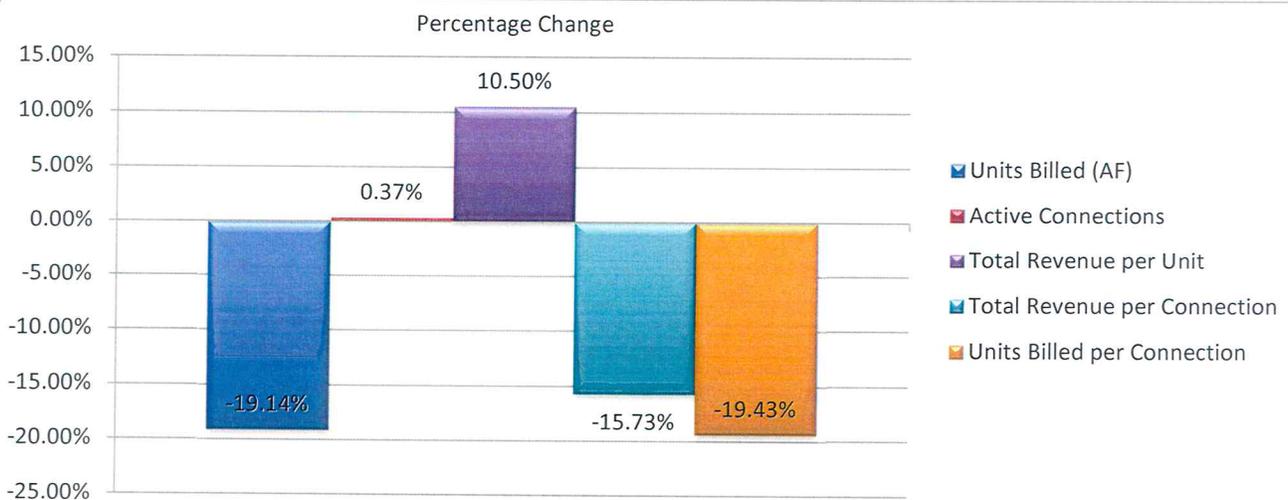
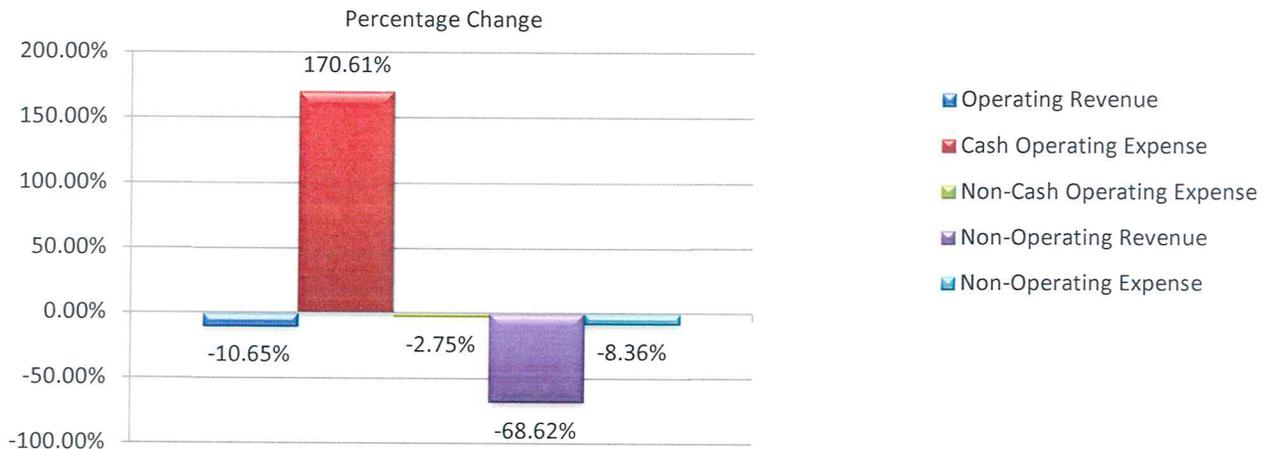
- Salaries
- Taxes
- Health Ins.
- PERS
- Workers Comp, Vac. Exp., Life
- Operations

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

	2014		2015		% Change		Consumption Comparison		
	December	December	December	December	Change	Change	Units Billed	2014	2015
<b>Operating Revenue:</b>									
Wholesale Water	\$ 24,375	\$ 2,694	\$ (21,680)			-88.95%	Active	26,467	26,564
Water Sales	553,176	384,048	(169,128)			-30.57%	Vacant	906	830
Meter Fees	990,999	969,482	(21,517)			-2.17%			
Water Quality Fees	93,684	52,966	(40,718)			-43.46%			
Elevation Fees	28,462	20,736	(7,726)			-27.14%	Rev/unit	\$ 3.94	\$ 4.35
Other	160,507	177,904	17,396			10.84%	Rev/con	\$ 63.88	\$ 53.83
Drought Surcharge	-	46,281	46,281				Unit/con	17.77	14.31
<b>Total Operating Revenue</b>	<b>\$ 1,851,204</b>	<b>\$ 1,654,112</b>	<b>\$ (197,092)</b>			<b>-10.65%</b>			
<b>Cash Operating Expenses:</b>									
Directors	\$ 16,626	\$ 14,486	\$ (2,140)			-12.87%			
Administration	126,706	283,802	157,096			123.99%			
Engineering	124,220	119,529	(4,691)			-3.78%			
Facilities	720,156	530,048	(190,108)			-26.40%			
Operations	348,406	241,736	(106,670)			-30.62%			
Finance	305,059	121,626	(183,433)			-60.13%			
Water Conservation	29,020	26,104	(2,916)			-10.05%			
Human Resources	32,344	36,392	4,048			12.51%			
Information Technology	134,697	85,197	(49,500)			-36.75%			
Customer Care	-	144,269	144,269						
Water Purchases	34,359	9,320	(25,039)			-72.87%			
Water Purchases-Prior Year OAP	-	-	-						
Water Recovery	-	(237,560)	(237,560)						
Plant Expenditures	(1,313,543)	135,185	1,448,729			-110.29%			
GAC Filter Media Replacement	-	-	-						
<b>Total Cash Operating Expenses</b>	<b>\$ 558,049</b>	<b>\$ 1,510,134</b>	<b>\$ 952,085</b>			<b>170.61%</b>			
<b>Non-Cash Operating Expenses:</b>									
Depreciation	\$ 567,949	\$ 529,765	\$ (38,184)			-6.72%			
OPEB Accrual Expense	164,201	183,580	19,379			11.80%			
Bad Debts	(14,071)	5,375	19,446			-138.20%			
Service Costs Construction	(22,230)	31,880	54,110			-243.41%			
Capitalized Construction	(71,173)	(143,101)	(71,928)			101.06%			
<b>Total Non-Cash Operating Expenses</b>	<b>\$ 624,675</b>	<b>\$ 607,499</b>	<b>\$ (17,176)</b>			<b>-2.75%</b>			
<b>Net Operating Profit/(Loss)</b>	<b>\$ 668,479</b>	<b>\$ (463,522)</b>	<b>\$ (1,132,001)</b>			<b>-169.34%</b>			
<b>Non-Operating Revenues:</b>									
Assessments (Debt Service)	\$ 2,052,429	\$ 478,846	\$ (1,573,583)			-76.67%			
Assessments (1%)	747,760	334,639	(413,121)			-55.25%			
DWR Fixed Charge Recovery	-	-	-						
Interest	(590)	(5,944)	(5,354)			907.42%			
Capital Improvement Fees	288	3,483	3,195			1108.54%			
Other	(204,607)	3,261	207,868			-101.59%			
<b>Total Non-Operating Revenues</b>	<b>\$ 2,595,281</b>	<b>\$ 814,286</b>	<b>\$ (1,780,995)</b>			<b>-68.62%</b>			
<b>Non-Operating Expenses:</b>									
Interest on Long-Term Debt	\$ 155,692	\$ 186,850	\$ 31,158			20.01%			
Amortization of SWP	208,024	172,877	(35,147)			-16.90%			
Change in Investments in PRWA	34,580	2,285	(32,295)			-93.39%			
Water Conservation Programs	5,545	8,075	2,530			45.62%			
<b>Total Non-Operating Expenses</b>	<b>\$ 403,841</b>	<b>\$ 370,087</b>	<b>\$ (33,755)</b>			<b>-8.36%</b>			
<b>Net Earnings</b>	<b>\$ 2,859,919</b>	<b>\$ (19,323)</b>	<b>\$ (2,879,241)</b>			<b>-100.68%</b>			

# YEAR-TO-YEAR COMPARISON

## December '14 -To - December '15



	2014	2015	Change	
Units Billed (AF)	1,080	873	-207	-19.14%
Active Connections	26,467	26,564	97	0.37%
Non-Active	906	830	-76	-8.39%
Total Revenue per Unit	\$3.94	\$4.35	\$0.41	10.50%
Total Revenue per Connection	\$63.88	\$53.83	-\$10.05	-15.73%
Units Billed per Connection	17.77	14.31	-3.45	-19.43%

**Palmdale Water District**  
**Revenue Analysis**  
**For the Twelve Months Ending 12/31/2015**  
**2015**

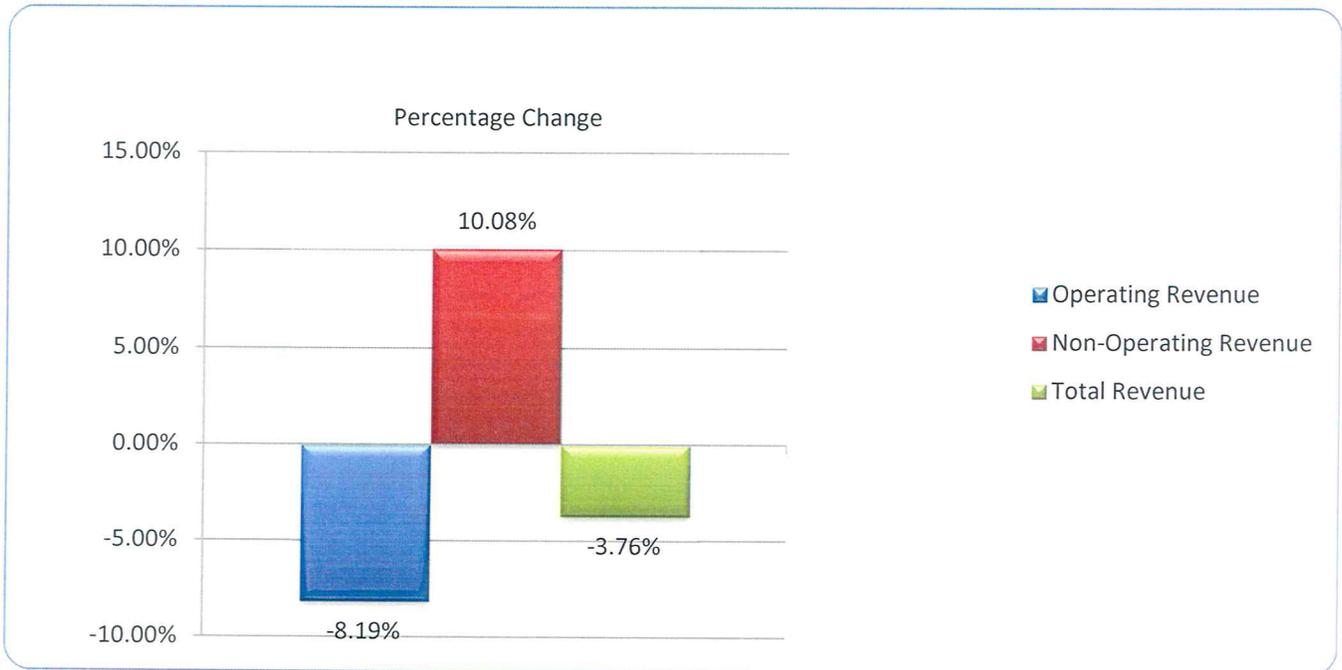
**2014 to 2015 Comparison**

	2015			Adjusted Budget	% of Budget	2014 to 2015 Comparison			% Change
	Thru November	December	Year-to-Date			Thru November	December	Year-to-Date	
<b>Operating Revenue:</b>									
Wholesale Water	\$ 140,054	\$ 2,694	\$ 142,749	\$ 225,000	63.44%	\$ (54,198)	\$ (21,680)	\$ (75,878)	-34.71%
Water Sales	5,887,612	384,048	6,271,661	8,550,500	73.35%	(1,842,655)	(169,128)	(2,011,783)	-24.29%
Meter Fees	10,689,422	969,482	11,658,904	11,506,000	101.33%	358,577	(21,517)	337,060	2.98%
Water Quality Fees	845,168	52,966	898,135	1,146,500	78.34%	(625,947)	(40,718)	(666,665)	-42.60%
Elevation Fees	349,162	20,736	369,899	525,000	70.46%	(100,029)	(7,726)	(107,755)	-22.56%
Other	1,158,572	177,904	1,336,475	1,450,000	92.17%	(58,874)	17,396	(41,478)	-3.01%
Drought Surcharge	634,752	46,281	681,033	-		634,752	46,281	681,033	
<b>Total Water Sales</b>	<b>\$ 19,704,743</b>	<b>\$ 1,654,112</b>	<b>\$ 21,358,855</b>	<b>\$ 23,403,000</b>	<b>91.27%</b>	<b>\$ (1,688,374)</b>	<b>\$ (197,092)</b>	<b>\$ (1,885,465)</b>	<b>-8.19%</b>
<b>Non-Operating Revenues:</b>									
Assessments (Debt Service)	\$ 4,728,157	\$ 478,846	\$ 5,207,003	\$ 5,100,000	102.10%	\$ 1,713,944	\$ (1,573,583)	\$ 140,361	2.77%
Assessments (1%)	1,811,172	334,639	2,145,811	1,950,000	110.04%	561,790	(413,121)	148,669	7.44%
DWR Fixed Charge Recovery	332,957	-	332,957	100,000	332.96%	111,379	-	111,379	50.27%
Interest	48,637	(5,944)	42,694	35,000	121.98%	(2,422)	(5,354)	(7,775)	-15.41%
Capital Improvement Fees	363,998	3,483	367,481	50,000	734.96%	350,739	3,195	353,934	2612.68%
Other	11,105	3,261	14,366	5,000	287.33%	(211,838)	207,868	(3,969)	-21.65%
<b>Total Non-Operating Revenues</b>	<b>\$ 7,296,026</b>	<b>\$ 814,286</b>	<b>\$ 8,110,312</b>	<b>\$ 7,240,000</b>	<b>112.02%</b>	<b>\$ 2,523,593</b>	<b>\$ (1,780,995)</b>	<b>\$ 742,598</b>	<b>10.08%</b>
<b>Total Revenue</b>	<b>\$ 27,000,769</b>	<b>\$ 2,468,398</b>	<b>\$ 29,469,167</b>	<b>\$ 30,643,000</b>	<b>96.17%</b>	<b>\$ 835,220</b>	<b>\$ (1,978,087)</b>	<b>\$ (1,142,867)</b>	<b>-3.76%</b>

	2014			Adjusted Budget	% of Budget
	Thru November	December	Year-to-Date		
<b>Operating Revenue:</b>					
Wholesale Water	\$ 194,252	\$ 24,375	\$ 218,627	\$ 225,000	97.17%
Water Sales	7,730,267	553,176	8,283,444	9,053,000	91.50%
Meter Fees	10,330,844	990,999	11,321,843	11,255,000	100.59%
Water Quality Fees	1,471,115	93,684	1,564,800	1,638,000	95.53%
Elevation Fees	449,192	28,462	477,654	525,000	90.98%
Other	1,217,445	160,507	1,377,953	1,700,000	81.06%
Drought Surcharge	-	-	-	-	
<b>Total Water Sales</b>	<b>\$ 21,198,864</b>	<b>\$ 1,826,829</b>	<b>\$ 23,025,693</b>	<b>\$ 24,171,000</b>	<b>95.26%</b>
<b>Non-Operating Revenues:</b>					
Assessments (Debt Service)	\$ 3,014,213	\$ 2,052,429	\$ 5,066,642	\$ 4,400,000	115.15%
Assessments (1%)	1,249,382	747,760	1,997,142	1,800,000	110.95%
DWR Fixed Charge Recovery	221,578	-	221,578	100,000	221.58%
Interest	51,059	(590)	50,469	25,000	201.88%
Capital Improvement Fees	13,259	288	13,547	150,000	9.03%
Other	222,942	(204,607)	18,336	185,000	9.91%
<b>Total Non-Operating Revenues</b>	<b>\$ 4,772,433</b>	<b>\$ 2,595,281</b>	<b>\$ 7,367,714</b>	<b>\$ 6,660,000</b>	<b>110.63%</b>
<b>Total Revenue</b>	<b>\$ 25,971,297</b>	<b>\$ 4,422,110</b>	<b>\$ 30,393,407</b>	<b>\$ 30,831,000</b>	<b>98.58%</b>

# REVENUE COMPARISON YEAR-TO-DATE

December '14-To-December '15



**Palmdale Water District**  
**Operating Expense Analysis**  
**For the Twelve Months Ending 12/31/2015**  
**2015**

2014 to 2015 Comparison

	2015			Adjusted Budget	% of Budget	2014 to 2015 Comparison			
	Thru November	December	Year-to-Date			Thru November	December	Year-to-Date	% Change
<b>Cash Operating Expenses:</b>									
Directors	\$ 124,790	\$ 14,486	\$ 139,276	\$ 118,500	117.53%	\$ (3,916)	\$ (2,140)	\$ (6,056)	-4.17%
Administration	2,550,598	283,802	2,834,400	2,667,250	106.27%	(413,238)	157,096	(256,142)	-8.29%
Engineering	1,086,219	119,529	1,205,748	1,251,150	96.37%	124,355	(4,691)	119,664	11.02%
Facilities	5,273,064	530,048	5,803,112	6,228,775	93.17%	2,282,178	(190,108)	2,092,070	56.37%
Operations	2,295,486	241,736	2,537,222	2,624,000	96.69%	(2,697,898)	(106,670)	(2,804,568)	-52.50%
Finance	1,447,530	121,626	1,569,155	1,598,025	98.19%	(1,296,171)	(183,433)	(1,479,604)	-48.53%
Water Conservation	312,114	26,104	338,218	284,000	119.09%	161,107	(2,916)	158,191	87.87%
Human Resources	376,064	36,392	412,455	326,100	126.48%	155,877	4,048	159,924	63.33%
Information Technology	687,300	85,197	772,498	784,350	98.49%	(18,240)	(49,500)	(67,740)	-8.06%
Customer Care	1,005,340	144,269	1,149,610	1,121,950	102.47%	1,005,340	144,269	1,149,610	
Water Purchases	1,773,857	9,320	1,783,177	2,379,000	74.95%	(577,734)	(25,039)	(602,773)	-25.26%
Water Purchases-Prior Year OAP	(36,045)	-	(36,045)	250,000	-14.42%	(36,728)	-	(36,728)	
Water Recovery	(468,553)	(237,560)	(706,113)	(100,000)	706.11%	(41,034)	(237,560)	(278,594)	65.17%
Plant Expenditures	763,522	135,185	898,707	1,146,500	78.39%	(1,303,636)	1,448,729	145,092	19.25%
GAC Filter Media Replacement	596,045	-	596,045	1,896,000	31.44%	(608,877)	-	(608,877)	-50.53%
<b>Total Cash Operating Expenses</b>	<b>\$ 17,787,331</b>	<b>\$ 1,510,134</b>	<b>\$ 19,297,465</b>	<b>\$ 22,575,600</b>	<b>85.48%</b>	<b>\$ (3,268,616)</b>	<b>\$ 952,085</b>	<b>\$ (2,316,531)</b>	<b>-12.00%</b>
<b>Non-Cash Operating Expenses:</b>									
Depreciation	\$ 7,404,344	\$ 529,765	\$ 7,934,109	\$ 6,450,000	123.01%	\$ 805,320	\$ (38,184)	\$ 767,136	10.70%
OPEB Accrual Expense	2,019,380	183,580	2,202,960	2,000,000	110.15%	183,756	19,379	203,135	10.16%
Bad Debts	24,519	5,375	29,894	100,000	29.89%	(6,146)	19,446	13,301	80.15%
Service Costs Construction	(18,020)	31,880	13,861	125,000	11.09%	58,931	54,110	113,041	-113.98%
Capitalized Construction	(953,503)	(143,101)	(1,096,604)	(1,000,000)	109.66%	407,986	(71,928)	336,058	-23.46%
<b>Total Non-Cash Operating Expenses</b>	<b>\$ 8,476,721</b>	<b>\$ 607,499</b>	<b>\$ 9,084,220</b>	<b>\$ 7,675,000</b>	<b>118.36%</b>	<b>\$ 1,449,847</b>	<b>\$ (17,176)</b>	<b>\$ 1,432,671</b>	<b>15.77%</b>
<b>Non-Operating Expenses:</b>									
Interest on Long-Term Debt	\$ 2,081,996	\$ 186,850	\$ 2,268,846	\$ 2,111,000	107.48%	\$ (44,103)	\$ 31,158	\$ (12,945)	-0.57%
Amortization of SWP	1,901,647	172,877	2,074,524	1,679,000	123.56%	174,986	(35,147)	139,839	7.23%
Change in Investments in PRWA	22,049	2,285	24,334	-		22,049	(32,295)	(10,246)	
Water Conservation Programs	212,527	8,075	220,602	221,000	99.82%	87,805	2,530	90,335	69.35%
<b>Total Non-Operating Expenses</b>	<b>\$ 4,218,219</b>	<b>\$ 370,087</b>	<b>\$ 4,588,306</b>	<b>\$ 4,011,000</b>	<b>114.39%</b>	<b>\$ 240,737</b>	<b>\$ (33,755)</b>	<b>\$ 206,982</b>	<b>4.72%</b>
<b>Total Expenses</b>	<b>\$ 30,482,271</b>	<b>\$ 2,487,721</b>	<b>\$ 32,969,991</b>	<b>\$ 34,261,600</b>	<b>96.23%</b>	<b>\$ (1,578,032)</b>	<b>\$ 901,155</b>	<b>\$ (676,877)</b>	<b>-2.01%</b>

**Palmdale Water District  
Operating Expense Analysis  
For the Twelve Months Ending 12/31/2015**

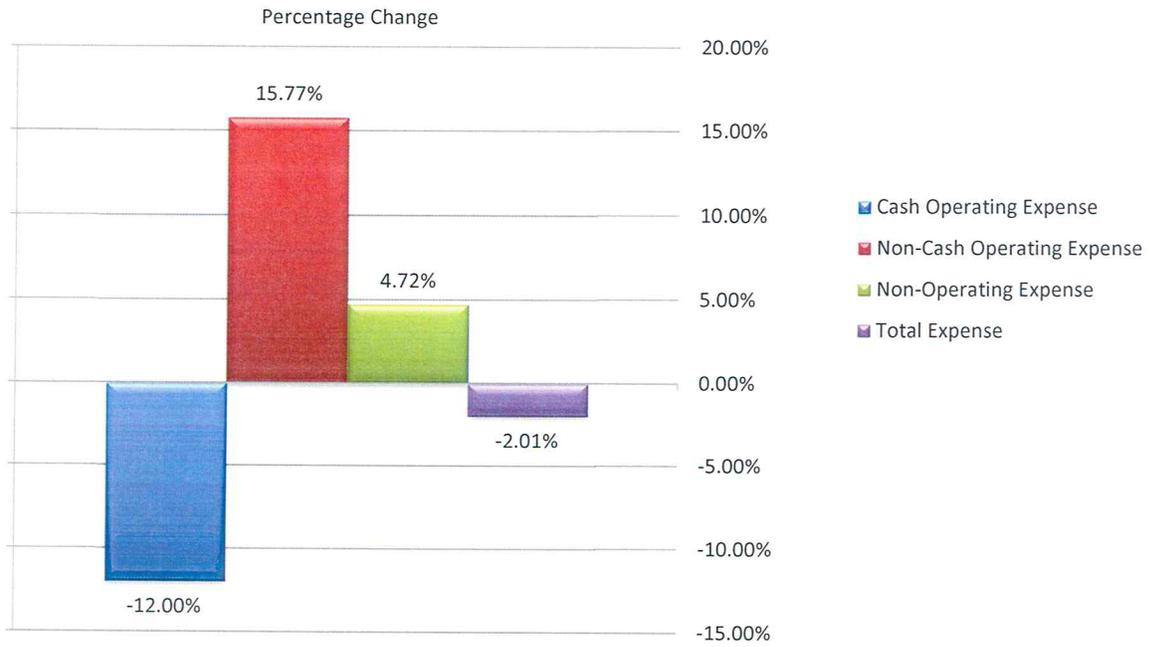
2014

2014 to 2015 Comparison

	Thru November	December	Year-to-Date	Adjusted Budget	% of Budget
<b>Cash Operating Expenses:</b>					
Directors	\$ 128,706	\$ 16,626	\$ 145,332	\$ 114,500	126.93%
Administration	2,963,837	126,706	3,090,542	3,490,000	88.55%
Engineering	961,864	124,220	1,086,084	1,079,800	100.58%
Facilities	2,990,886	720,156	3,711,042	3,408,500	108.88%
Operations	4,993,384	348,406	5,341,789	5,453,500	97.95%
Finance	2,743,700	305,059	3,048,759	2,968,750	102.70%
Water Conservation	151,008	29,020	180,027	270,000	66.68%
Human Resources	220,187	32,344	252,531	215,300	117.29%
Information Technology	705,540	134,697	840,237	828,600	101.40%
Customer Care	-	-	-	-	-
Water Purchases	2,351,592	34,359	2,385,951	2,400,000	99.41%
Water Purchases-Prior Year OAP	683	-	683	250,000	0.27%
Water Recovery	(427,519)	-	(427,519)	(100,000)	427.52%
Plant Expenditures	2,067,158	(1,313,543)	753,615	2,143,500	35.16%
GAC Filter Media Replacement	1,204,922	-	1,204,922	1,638,000	73.56%
<b>Total Cash Operating Expenses</b>	<b>\$ 21,055,947</b>	<b>\$ 558,049</b>	<b>\$ 21,613,996</b>	<b>\$ 24,160,450</b>	<b>89.46%</b>
<b>Non-Cash Operating Expenses:</b>					
Depreciation	\$ 6,599,024	\$ 567,949	\$ 7,166,973	\$ 7,350,000	97.51%
OPEB Accrual Expense	1,835,624	164,201	1,999,825	2,000,000	99.99%
Bad Debts	30,665	(14,071)	16,594	100,000	16.59%
Service Costs Construction	(76,951)	(22,230)	(99,180)	125,000	-79.34%
Capitalized Construction	(1,361,489)	(71,173)	(1,432,662)	(1,000,000)	143.27%
<b>Total Non-Cash Operating Expenses</b>	<b>\$ 7,026,874</b>	<b>\$ 624,675</b>	<b>\$ 7,651,549</b>	<b>\$ 8,575,000</b>	<b>89.23%</b>
<b>Non-Operating Expenses:</b>					
Interest on Long-Term Debt	\$ 2,126,100	\$ 155,692	\$ 2,281,792	\$ 2,111,000	108.09%
Amortization of SWP	1,726,661	208,024	1,934,685	1,679,000	115.23%
Capital Lease	-	34,580	34,580	-	-
Water Conservation Programs	124,722	5,545	130,267	143,000	91.10%
<b>Total Non-Operating Expenses</b>	<b>\$ 3,977,483</b>	<b>\$ 403,841</b>	<b>\$ 4,381,324</b>	<b>\$ 3,933,000</b>	<b>111.40%</b>
<b>Total Expenses</b>	<b>\$ 32,060,303</b>	<b>\$ 1,586,566</b>	<b>\$ 33,646,869</b>	<b>\$ 36,668,450</b>	<b>91.76%</b>

# EXPENSE COMPARISON YEAR-TO-DATE

## December '14-To-December '15



**Palmdale Water District**  
**2015 Directors Budget**  
For the Twelve Months Ending Thursday, December 31, 2015

	YTD ACTUAL 2015	ORIGINAL BUDGET 2015	ADJUSTMENTS 2015	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-01-4000-000 Directors Pay	\$ 57,000	\$ 45,000	\$ -	\$ (12,000)	126.67%
Employee Benefits					
1-01-4005-000 Payroll Taxes	4,346	5,500		1,154	79.03%
1-01-4010-000 Health Insurance	57,956	58,000		44	99.92%
Subtotal (Benefits)	62,303	63,500	-	44	98.11%
Total Personnel Expenses	<u>\$ 119,303</u>	<u>\$ 108,500</u>	<u>\$ -</u>	<u>\$ (11,956)</u>	<u>109.96%</u>
OPERATING EXPENSES:					
1-01-4050-000 Directors Travel, Seminars & Meetings	19,973	10,000		(9,973)	199.73%
Subtotal Operating Expenses	19,973	10,000	-	(9,973)	199.73%
Total O & M Expenses	<u>\$ 139,276</u>	<u>\$ 118,500</u>	<u>\$ -</u>	<u>\$ (21,930)</u>	<u>117.53%</u>

**Palmdale Water District**  
**2015 Administration Budget**  
For the Twelve Months Ending Thursday, December 31, 2015

	YTD ACTUAL 2015	ORIGINAL BUDGET 2015	ADJUSTMENTS 2015	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-02-4000-000 Salaries	\$ 909,109	\$ 860,500		\$ (48,609)	105.65%
1-02-4000-100 Overtime	7,128	8,250		1,122	86.40%
1-02-4000-200 On-Call	89,297	67,500		(21,797)	132.29%
Subtotal (Salaries)	<u>\$ 1,005,534</u>	<u>\$ 936,250</u>	<u>\$ -</u>	<u>\$ (69,284)</u>	<u>107.40%</u>
Employee Benefits					
1-02-4005-000 Payroll Taxes	\$ 58,665	\$ 66,000		7,335	88.89%
1-02-4010-000 Health Insurance	133,752	134,000		248	99.81%
1-02-4015-000 PERS	335,023	169,000		(166,023)	198.24%
1-02-4020-000 Worker's Compensation	87,519	125,000		37,481	70.02%
1-02-4025-000 Vacation Benefit Expense	56,921	35,000		(21,921)	162.63%
1-02-4030-000 Life Insurance	6,949	8,000		1,051	86.86%
Subtotal (Benefits)	<u>\$ 678,828</u>	<u>\$ 537,000</u>	<u>\$ -</u>	<u>\$ (141,828)</u>	<u>126.41%</u>
Total Personnel Expenses	<u><u>\$ 1,684,362</u></u>	<u><u>\$ 1,473,250</u></u>	<u><u>\$ -</u></u>	<u><u>\$ (211,112)</u></u>	<u><u>114.33%</u></u>
OPERATING EXPENSES:					
1-02-4050-100 General Manager Travel	\$ 8,209	\$ 5,000		(3,209)	164.19%
1-02-4060-100 General Manager Conferences & Seminars	3,915	4,000		85	97.88%
1-02-4080-000 Other Operating	18,367	20,000		1,633	91.83%
1-02-4110-000 Consultants	157,646	175,000		17,354	90.08%
1-02-4125-000 Insurance	296,700	285,000		(11,700)	104.11%
1-02-4130-000 Bank Charges	146,801	140,000		(6,801)	104.86%
1-02-4135-000 Groundwater Adjudication	145,128	75,000		(70,128)	193.50%
1-02-4140-000 Legal Services	147,959	160,000		12,041	92.47%
1-02-4150-000 Accounting Services	23,991	25,000		1,009	95.96%
1-02-4165-000 Memberships/Subscriptions	123,609	210,000		86,391	58.86%
1-02-4175-000 Permits	16,856	10,000		(6,856)	168.56%
1-02-4180-000 Postage	18,268	27,500		9,232	66.43%
1-02-4190-100 Public Relations - Publications	9,083	35,000		25,917	25.95%
1-02-4190-900 Public Relations - Other	1,000	1,000		-	100.00%
1-02-4200-000 Advertising	3,617	3,500		(117)	103.34%
1-02-4205-000 Office Supplies	20,709	18,000		(2,709)	115.05%
1-02-4210-000 Office Furniture*	8,180	-	8,000	(180)	102.25%
Subtotal Operating Expenses	<u>\$ 1,150,039</u>	<u>\$ 1,194,000</u>	<u>\$ 8,000</u>	<u>\$ 51,961</u>	<u>95.68%</u>
Total Departmental Expenses	<u><u>\$ 2,834,400</u></u>	<u><u>\$ 2,667,250</u></u>	<u><u>\$ 8,000</u></u>	<u><u>\$ (159,150)</u></u>	<u><u>105.95%</u></u>

\* Budget adjustments by General Manager per Appendix A

**Palmdale Water District  
2015 Engineering Budget**  
For the Twelve Months Ending Thursday, December 31, 2015

	YTD ACTUAL 2015	ORIGINAL BUDGET 2015	ADJUSTMENTS 2015	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-03-4000-000 Salaries	\$ 813,470	\$ 809,000		\$ (4,470)	100.55%
1-03-4000-100 Overtime	5,172	6,750		1,578	76.63%
Subtotal (Salaries)	<u>\$ 818,643</u>	<u>\$ 815,750</u>		<u>\$ (2,893)</u>	<u>100.35%</u>
Employee Benefits					
1-03-4005-000 Payroll Taxes	62,068	61,000		(1,068)	101.75%
1-03-4010-000 Health Insurance	139,686	154,500		14,814	90.41%
1-03-4015-000 PERS	116,943	142,000		25,057	82.35%
Subtotal (Benefits)	<u>\$ 318,698</u>	<u>\$ 357,500</u>	<u>\$ -</u>	<u>\$ 38,802</u>	<u>89.15%</u>
Total Personnel Expenses	<u><u>\$ 1,137,340</u></u>	<u><u>\$ 1,173,250</u></u>	<u><u>\$ -</u></u>	<u><u>\$ 35,910</u></u>	<u><u>96.94%</u></u>
OPERATING EXPENSES:					
1-03-4155-000 Contracted Services	54,639	61,500		6,861	88.84%
1-03-4165-000 Memberships/Subscriptions	2,065	2,000		(65)	103.25%
1-03-4250-000 General Materials & Supplies	2,297	2,500		203	91.88%
1-03-8100-100 Computer Software - Maint. & Support*	9,406	13,500	(1,600)	4,094	69.68%
Subtotal Operating Expenses	<u>\$ 68,407</u>	<u>\$ 79,500</u>	<u>\$ (1,600)</u>	<u>\$ 11,093</u>	<u>86.05%</u>
Total Departmental Expenses	<u><u>\$ 1,205,748</u></u>	<u><u>\$ 1,252,750</u></u>	<u><u>\$ (1,600)</u></u>	<u><u>\$ 47,002</u></u>	<u><u>96.25%</u></u>

\* Budget adjustments by General Manager per Appendix A

**Palmdale Water District**  
**2015 Facilities Budget**  
For the Twelve Months Ending Thursday, December 31, 2015

	YTD ACTUAL 2015	ORIGINAL BUDGET 2015	ADJUSTMENTS 2015	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-04-4000-000 Salaries	\$ 1,907,672	\$ 2,049,000		\$ 141,328	93.10%
1-04-4000-100 Overtime	90,716	65,000		(25,716)	139.56%
Subtotal (Salaries)	<u>\$ 1,998,388</u>	<u>\$ 2,114,000</u>	\$ -	<u>\$ 115,612</u>	<u>94.53%</u>
Employee Benefits					
1-04-4005-000 Payroll Taxes	154,694	157,000		2,306	98.53%
1-04-4010-000 Health Insurance	434,173	466,000		31,827	93.17%
1-04-4015-000 PERS	280,495	362,000		81,505	77.48%
Subtotal (Benefits)	<u>\$ 869,362</u>	<u>\$ 985,000</u>	\$ -	<u>\$ 115,638</u>	<u>88.26%</u>
Total Personnel Expenses	<u><u>\$ 2,867,750</u></u>	<u><u>\$ 3,099,000</u></u>	<u><u>\$ -</u></u>	<u><u>\$ 231,250</u></u>	<u><u>92.54%</u></u>
OPERATING EXPENSES:					
1-04-4155-000 Contracted Services	\$ 131,118	\$ 125,000		\$ (6,118)	104.89%
1-04-4175-000 Permits-Dams	3,508	50,000		46,492	7.02%
1-04-4215-100 Natural Gas - Wells & Boosters	194,965	236,000		41,035	82.61%
1-04-4215-200 Natural Gas - Buildings	7,434	9,000		1,566	82.60%
1-04-4220-100 Electricity - Wells & Boosters	1,587,473	1,515,000		(72,473)	104.78%
1-04-4220-200 Electricity - Buildings	86,925	75,000		(11,925)	115.90%
1-04-4225-000 Maint. & Repair - Vehicles	30,313	40,000		9,687	75.78%
1-04-4230-100 Maint. & Rep. Office Building	9,861	15,000		5,139	65.74%
1-04-4235-110 Maint. & Rep. Equipment	5,365	6,500		1,135	82.54%
1-04-4235-400 Maint. & Rep. Operations - Wells	89,857	75,000		(14,857)	119.81%
1-04-4235-405 Maint. & Rep. Operations - Boosters	30,841	50,000		19,159	61.68%
1-04-4235-410 Maint. & Rep. Operations - Shop Bldgs	1,560	10,000		8,440	15.60%
1-04-4235-415 Maint. & Rep. Operations - Facilities	22,642	15,000		(7,642)	150.94%
1-04-4235-420 Maint. & Rep. Operations - Water Lines	222,562	240,000		17,438	92.73%
1-04-4235-425 Maint. & Rep. Operations - Littlerock Dam	-	15,000		15,000	0.00%
1-04-4235-430 Maint. & Rep. Operations - Palmdale Dam	1,160	7,500		6,340	15.47%
1-04-4235-435 Maint. & Rep. Operations - Palmdale Canal	3,823	10,000		6,177	38.23%
1-04-4235-440 Maint. & Rep. Operations - Large Meters**	3,504	-	7,870	4,366	44.53%
1-04-4235-445 Maint. & Rep. Operations - Telemetry	6,160	2,250		(3,910)	273.76%
1-04-4235-450 Maint. & Rep. Operations - Hypo Generators	2,426	12,000		9,574	20.21%
1-04-4235-455 Maint. & Rep. Operations - Heavy Equipment	46,202	35,000		(11,202)	132.01%
1-04-4235-460 Maint. & Rep. Operations - Storage Reservoirs	2,615	5,000		2,385	52.29%
1-04-4235-470 Maint. & Rep. Operations - Meters Exchanges**	119,540	-	211,950	92,410	56.40%
1-04-4250-100 General Supplies - Hot Tapping Program	5,549	-		(5,549)	
1-04-4270-300 Telecommunication - Other	3,707	2,750		(957)	134.82%
1-04-4300-200 Testing - Large Meters**	14,385	-	10,955	(3,430)	131.31%
1-04-4300-300 Testing - Edison Testing	-	6,000		6,000	0.00%
1-04-6000-000 Waste Disposal	17,072	25,000		7,928	68.29%
1-04-6100-100 Fuel and Lube - Vehicle	83,938	130,000		46,062	64.57%
1-04-6100-200 Fuel and Lube - Machinery	33,619	43,000		9,381	78.18%
1-04-6200-000 Uniforms	27,451	22,500		(4,951)	122.01%
1-04-6300-100 Supplies - General	53,445	47,500		(5,945)	112.52%
1-04-6300-200 Supplies - Hypo Generators	2,114	6,500		4,386	32.52%
1-04-6300-300 Supplies - Electrical	283	3,000		2,717	9.45%
1-04-6300-400 Supplies - Telemetry	5,161	5,000		(161)	103.23%
1-04-6300-800 Supplies - Construction Materials	43,356	35,000		(8,356)	123.87%
1-04-6400-000 Tools	20,149	12,000		(8,149)	167.91%
1-04-7000-100 Leases -Equipment	15,280	12,500		(2,780)	122.24%
Subtotal Operating Expenses	<u>\$ 2,935,362</u>	<u>\$ 2,899,000</u>	<u>\$ 230,775</u>	<u>\$ 194,413</u>	<u>93.79%</u>
Total Departmental Expenses	<u><u>\$ 5,803,112</u></u>	<u><u>\$ 5,998,000</u></u>	<u><u>\$ 230,775</u></u>	<u><u>\$ 425,663</u></u>	<u><u>93.17%</u></u>

\*\* Budget adjustment by Board action 04/08/15

**Palmdale Water District**  
**2015 Operation Budget**  
For the Twelve Months Ending Thursday, December 31, 2015

	YTD ACTUAL 2015	ORIGINAL BUDGET 2015	ADJUSTMENTS 2015	ADJUSTED BUDGET REMAINING	PERCENT USED
<b>Personnel Budget:</b>					
1-05-4000-000 Salaries	\$ 1,067,180	\$ 1,104,500		\$ 37,320	96.62%
1-05-4000-100 Overtime	63,447	53,750		(9,697)	118.04%
Subtotal (Salaries)	\$ 1,130,627	\$ 1,158,250	\$ -	\$ 27,623	97.62%
<b>Employee Benefits</b>					
1-05-4005-000 Payroll Taxes	85,764	90,750		4,986	94.51%
1-05-4010-000 Health Insurance	206,300	200,000		(6,300)	103.15%
1-05-4015-000 PERS	160,289	203,000		42,711	78.96%
Subtotal (Benefits)	\$ 452,353	\$ 493,750	\$ -	\$ 41,397	91.62%
Total Personnel Expenses	\$ 1,582,980	\$ 1,652,000	\$ -	\$ 69,020	95.82%
<b>OPERATING EXPENSES:</b>					
1-05-4155-000 Contracted Services*	\$ 82,234	\$ 67,500	\$ 12,200	\$ (2,534)	103.18%
1-05-4175-000 Permits	22,967	40,000		17,033	57.42%
1-05-4215-200 Natural Gas - WTP	1,451	3,000		1,549	48.36%
1-05-4220-200 Electricity - WTP	147,115	125,000		(22,115)	117.69%
1-05-4230-110 Maint. & Rep. - Office Equipment	-	500		500	0.00%
1-05-4235-110 Maint. & Rep. Operations - Equipment	15,489	11,500		(3,989)	134.69%
1-05-4235-410 Maint. & Rep. Operations - Shop Bldgs	1,316	6,000		4,684	21.93%
1-05-4235-415 Maint. & Rep. Operations - Facilities	88,490	45,000		(43,490)	196.64%
1-05-4235-450 Maint. & Rep. Operations - Hypo Generator	17,250	18,000		750	95.84%
1-05-4235-500 Maint. & Rep. Operations - Wind Turbine*	7,887	6,000	5,000	3,113	71.70%
1-05-4236-000 Palmdale Lake Management*	30,104	15,000	10,000	(5,104)	120.41%
1-05-6000-000 Waste Disposal	11,899	14,000		2,101	85.00%
1-05-6200-000 Uniforms	15,886	12,000		(3,886)	132.38%
1-05-6300-100 Supplies - General	8,987	15,000		6,013	59.91%
1-05-6300-600 Supplies - Lab	37,050	35,000		(2,050)	105.86%
1-05-6300-700 Outside Lab Work	70,965	64,000		(6,965)	110.88%
1-05-6400-000 Tools	9,610	6,500		(3,110)	147.84%
1-05-6500-000 Chemicals*	384,384	485,000	(27,200)	73,416	83.96%
1-05-7000-100 Leases -Equipment	1,157	3,000		1,843	38.58%
Subtotal Operating Expenses	\$ 954,241	\$ 972,000	\$ -	\$ 17,759	98.17%
Total Departmental Expenses	\$ 2,537,222	\$ 2,624,000	\$ -	\$ 86,778	96.69%

\* Budget adjustments by General Manager per Appendix A

**Palmdale Water District  
2015 Finance Budget**  
For the Twelve Months Ending Thursday, December 31, 2015

	YTD ACTUAL 2015	ORIGINAL BUDGET 2015	ADJUSTMENTS 2015	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-06-4000-000 Salaries**	\$ 800,725	\$ 1,546,000	\$ (727,000)	\$ 18,275	97.77%
1-06-4000-100 Overtime**	4,124	19,000	(13,500)	1,376	74.97%
Subtotal (Salaries)	<u>\$ 804,849</u>	<u>\$ 1,565,000</u>	<u>\$ (740,500)</u>	<u>\$ 19,651</u>	<u>97.62%</u>
Employee Benefits					
1-06-4005-000 Payroll Taxes**	58,773	118,500	(54,000)	5,727	91.12%
1-06-4010-000 Health Insurance**	137,350	316,000	(173,000)	5,650	96.05%
1-06-4015-000 PERS**	137,756	297,000	(132,000)	27,244	83.49%
Subtotal (Benefits)	<u>\$ 333,878</u>	<u>\$ 731,500</u>	<u>\$ (359,000)</u>	<u>\$ 38,622</u>	<u>89.63%</u>
Total Personnel Expenses	<u>\$ 1,138,727</u>	<u>\$ 2,296,500</u>	<u>\$ (1,099,500)</u>	<u>\$ 58,273</u>	<u>95.13%</u>
OPERATING EXPENSES:					
1-06-4155-000 Contracted Services **	\$ 13,222	\$ 24,750	\$ (16,950)	\$ (5,422)	169.51%
1-06-4155-100 Contracted Services - Infosend	221,470	205,000		(16,470)	108.03%
1-06-4165-000 Memberships/Subscriptions	110	500		390	22.00%
1-06-4230-110 Maintenance & Repair - Office Equipment**	-	1,000	(500)	500	0.00%
1-06-4235-440 Maint. & Rep. Operations - Large Meters**	2,129	10,000	(7,870)	1	99.97%
1-06-4235-470 Maint. & Rep. Operations - Meter Exchanges**	138,045	350,000	(211,950)	5	100.00%
1-06-4250-000 General Material & Supplies**	2,111	6,000	(1,500)	2,389	46.91%
1-06-4260-000 Business Forms**	10,213	10,000	(3,500)	(3,713)	157.12%
1-06-4270-100 Telecommunication - Office	18,200	12,000		(6,200)	151.67%
1-06-4270-200 Telecommunication - Cellular Stipend	18,320	17,000		(1,320)	107.76%
1-06-4300-200 Testing - Large Meter Testing**	4,044	15,000	(10,955)	1	99.98%
1-06-7000-100 Leases - Equipment	2,565	3,000		435	85.48%
Subtotal Operating Expenses	<u>\$ 430,428</u>	<u>\$ 654,250</u>	<u>\$ (253,225)</u>	<u>\$ (29,403)</u>	<u>107.33%</u>
Total Departmental Expenses	<u>\$ 1,569,155</u>	<u>\$ 2,950,750</u>	<u>\$ (1,352,725)</u>	<u>\$ 28,870</u>	<u>98.19%</u>

\*\* Budget adjustment by Board action 04/08/15

**Palmdale Water District**  
**2015 Water Conservation Budget**  
For the Twelve Months Ending Thursday, December 31, 2015

	YTD ACTUAL 2015	ORIGINAL BUDGET 2015	ADJUSTMENTS 2015	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-07-4000-000 Salaries	\$ 179,187	\$ 175,000		\$ (4,187)	102.39%
1-07-4000-100 Overtime	812	1,000		188	81.21%
Subtotal (Salaries)	<u>\$ 179,999</u>	<u>\$ 176,000</u>		<u>\$ (3,999)</u>	<u>102.27%</u>
Employee Benefits					
1-07-4005-000 Payroll Taxes	13,830	13,500		(330)	102.44%
1-07-4010-000 Health Insurance	37,211	38,000		789	97.92%
1-07-4015-000 PERS	16,408	20,000		3,592	82.04%
Subtotal (Benefits)	<u>\$ 67,449</u>	<u>\$ 71,500</u>	<u>\$ -</u>	<u>\$ 4,051</u>	<u>94.33%</u>
Total Personnel Expenses	<u><u>\$ 247,449</u></u>	<u><u>\$ 247,500</u></u>	<u><u>\$ -</u></u>	<u><u>\$ (137)</u></u>	<u><u>99.98%</u></u>
OPERATING EXPENSES:					
1-07-4190-300 Public Relations - Landscape Workshop/Training	\$ 98	\$ 1,000		\$ 902	9.75%
1-07-4190-400 Public Relations - Contests	602	1,000		398	60.19%
1-07-4190-500 Public Relations - Education Programs	-	2,500		2,500	0.00%
1-07-4190-700 Public Relations -General Media	37,343	25,000		(12,343)	149.37%
1-07-4190-900 Public Relations - Other	44,616	2,000		(42,616)	2230.79%
1-07-4500-000 Drought Enforcement	4,735	-		(4,735)	
1-07-6300-100 Supplies - Misc.	3,376	5,000		1,624	67.52%
Subtotal Operating Expenses	<u>\$ 90,769</u>	<u>\$ 36,500</u>	<u>\$ -</u>	<u>\$ (54,269)</u>	<u>248.68%</u>
Total Departmental Expenses	<u><u>\$ 338,218</u></u>	<u><u>\$ 284,000</u></u>	<u><u>\$ -</u></u>	<u><u>\$ (54,406)</u></u>	<u><u>119.09%</u></u>

**Palmdale Water District**  
**2015 Human Resources Budget**  
For the Twelve Months Ending Thursday, December 31, 2015

	YTD ACTUAL 2015	ORIGINAL BUDGET 2015	ADJUSTMENTS 2015	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-08-4000-000 Salaries***	\$ 156,266	\$ 101,000	\$ 57,220	1,954	98.76%
Employee Benefits					
1-08-4005-000 Payroll Taxes	11,999	7,750		(4,249)	154.82%
1-08-4010-000 Health Insurance	17,698	18,000		302	98.32%
1-08-4015-000 PERS	7,073	6,500		(573)	108.82%
Subtotal (Benefits)	<u>\$ 36,770</u>	<u>\$ 32,250</u>	<u>\$ -</u>	<u>\$ (4,520)</u>	<u>114.02%</u>
Total Personnel Expenses	<u>\$ 193,036</u>	<u>\$ 133,250</u>	<u>\$ 57,220</u>	<u>\$ (2,566)</u>	<u>101.35%</u>
OPERATING EXPENSES:					
1-08-4050-000 Staff Travel	\$ 36,944	\$ 25,250		\$ (11,694)	146.31%
1-08-4060-000 Staff Conferences & Seminars	20,796	20,500		(296)	101.44%
1-08-4070-000 Employee Expense	58,709	40,000		(18,709)	146.77%
1-08-4095-000 Employee Recruitment	1,847	3,000		1,153	61.58%
1-08-4100-000 Employee Retention	15,774	20,000		4,226	78.87%
1-08-4105-000 Employee Relations	2,727	3,500		773	77.91%
1-08-4110-000 Consultants	-	1,000		1,000	0.00%
1-08-4120-100 Training-Safety	40,551	30,000	5,000	(5,551)	115.86%
1-08-4120-200 Training-Speciality	20,008	26,000	(5,000)	992	95.27%
1-08-4121-000 Safety Program	200	1,000		800	20.02%
1-08-4165-000 Membership/Subscriptions	964	1,600		636	60.25%
1-08-4165-100 HR/Safety Publications	336	1,000		664	33.58%
1-08-6300-500 Supplies - Safety	20,563	20,000		(563)	102.82%
Subtotal Operating Expenses	<u>\$ 219,419</u>	<u>\$ 192,850</u>	<u>\$ -</u>	<u>\$ (26,569)</u>	<u>113.78%</u>
Total Departmental Expenses	<u>\$ 412,455</u>	<u>\$ 326,100</u>	<u>\$ 57,220</u>	<u>\$ (29,135)</u>	<u>107.60%</u>

\*\*\* Budget adjustment by Board action 11/26/14 & 08/12/15

**Palmdale Water District**  
**2015 Information Technology Budget**  
For the Twelve Months Ending Thursday, December 31, 2015

	YTD ACTUAL 2015	ORIGINAL BUDGET 2015	ADJUSTMENTS 2015	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-09-4000-000 Salaries	\$ 224,583	\$ 221,500		\$ (3,083)	101.39%
1-09-4000-100 Overtime	3,292	2,500		(792)	131.67%
Subtotal (Salaries)	<u>\$ 227,875</u>	<u>\$ 224,000</u>		<u>\$ (3,875)</u>	<u>101.73%</u>
Employee Benefits					
1-09-4005-000 Payroll Taxes	16,373	17,000		627	96.31%
1-09-4010-000 Health Insurance	37,293	37,500		207	99.45%
1-09-4015-000 PERS	36,972	44,000		7,028	84.03%
Subtotal (Benefits)	<u>\$ 90,638</u>	<u>\$ 98,500</u>	<u>\$ -</u>	<u>\$ 7,862</u>	<u>92.02%</u>
Total Personnel Expenses	<u><u>\$ 318,513</u></u>	<u><u>\$ 322,500</u></u>	<u><u>\$ -</u></u>	<u><u>\$ 4,779</u></u>	<u><u>98.76%</u></u>
OPERATING EXPENSES:					
1-09-4155-000 Contracted Services	\$ 107,360	\$ 125,000		\$ 17,640	85.89%
1-09-4165-000 Memberships/Subscriptions	1,410	1,000		(410)	141.00%
1-09-4270-000 Telecommunications	74,931	77,750		2,819	96.37%
1-09-8000-100 Computer Equipment - Computers	17,426	20,000		2,574	87.13%
1-09-8000-200 Computer Equipment - Laptops*	6,549	5,000	1,600	51	99.22%
1-09-8000-300 Computer Equipment - Monitors	-	2,000		2,000	0.00%
1-09-8000-500 Computer Equipment - Toner Cartridges	1,494	3,000		1,506	49.79%
1-09-8000-550 Computer Equipment - Telephony	362	2,500		2,138	14.48%
1-09-8000-600 Computer Equipment - Other	15,713	20,000		4,287	78.57%
1-09-8100-100 Computer Software - Maint. and Support	60,616	44,000		(16,616)	137.76%
1-09-8100-140 Computer Software - Starnik	108,675	110,000		1,325	98.80%
1-09-8100-150 Computer Software - Dynamics GP Support	46,580	36,000		(10,580)	129.39%
1-09-8100-200 Computer Software - Software and Upgrades	12,869	14,000		1,131	91.92%
Subtotal Operating Expenses	<u>\$ 453,985</u>	<u>\$ 460,250</u>	<u>\$ 1,600</u>	<u>\$ 7,865</u>	<u>98.30%</u>
Total Departmental Expenses	<u><u>\$ 772,498</u></u>	<u><u>\$ 782,750</u></u>	<u><u>\$ 1,600</u></u>	<u><u>\$ 12,644</u></u>	<u><u>98.49%</u></u>

\* Budget adjustments by General Manager per Appendix A

**Palmdale Water District**  
**2015 Customer Care Budget**  
For the Twelve Months Ending Thursday, December 31, 2015

	YTD ACTUAL 2015	ORIGINAL BUDGET 2015	ADJUSTMENTS 2015	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-10-4000-000 Salaries**	\$ 760,523	\$ -	\$ 727,000	\$ (33,523)	104.61%
1-10-4000-100 Overtime**	7,206	-	13,500	6,294	53.38%
Subtotal (Salaries)	<u>\$ 767,730</u>	<u>\$ -</u>	<u>\$ 740,500</u>	<u>\$ (27,230)</u>	<u>103.68%</u>
Employee Benefits					
1-10-4005-000 Payroll Taxes**	61,283	-	54,000	(7,283)	113.49%
1-10-4010-000 Health Insurance**	179,858	-	173,000	(6,858)	103.96%
1-10-4015-000 PERS**	115,204	-	132,000	16,796	87.28%
Subtotal (Benefits)	<u>\$ 356,345</u>	<u>\$ -</u>	<u>\$ 359,000</u>	<u>\$ 2,655</u>	<u>99.26%</u>
Total Personnel Expenses	<u><u>\$ 1,124,075</u></u>	<u><u>\$ -</u></u>	<u><u>\$ 1,099,500</u></u>	<u><u>\$ (24,575)</u></u>	<u><u>102.24%</u></u>
OPERATING EXPENSES:					
1-10-4155-000 Contracted Services**	\$ 18,091	\$ -	\$ 16,950	\$ (1,141)	106.73%
1-10-4230-110 Maintenance & Repair-Office Equipment**	-	-	500	500	0.00%
1-10-4250-000 General Material & Supplies**	5,973	-	1,500	(4,473)	398.17%
1-10-4260-000 Business Forms**	1,471	-	3,500	2,029	42.03%
Subtotal Operating Expenses	<u>\$ 25,535</u>	<u>\$ -</u>	<u>\$ 22,450</u>	<u>\$ (3,085)</u>	<u>113.74%</u>
Total Departmental Expenses	<u><u>\$ 1,149,610</u></u>	<u><u>\$ -</u></u>	<u><u>\$ 1,121,950</u></u>	<u><u>\$ (27,660)</u></u>	<u><u>102.47%</u></u>

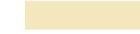
\*\* Budget adjustment by Board action 04/08/15

**Palmdale Water District**  
**2016 Capital Project Expenses**  
**February 3, 2016**

**AGENDA ITEM NO. 7.3**

Committed Contracts (Actual / Projected Expenses)																		
Project Title	Project Type	Contract	Vendor/Contractor/Consultant	Jan - Nov, 2015	Dec, 2015	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2016 Total
Upper Amargosa Recharge Project - WRB Fund Carry-over	Water Supply and Groundwater Management	1,250,000	City of Palmdale / AVEK / WW40	-	-												918,263	918,263
PRGRRP - Financial Model	Water Supply Project / Planning	29,000	PFM, Inc.	-	-		20,000	9,000										29,000
2015 Urban Water Management Plan	Planning / Regulatory	64,380	Kennedy/Jenks Consultants	-	4,186	10,456	12,000	12,000	12,000	13,738								60,194
Water System Master Plan Update	Water System Infrastructure Planning	196,043	MHW	141,860	-	20,904	16,639	16,640										54,183
Hydrologic and Energy Database	Water Supply and Demand Management	67,000	DCSE	65,970	-		1,030											1,030
Tank Maintenance Program (Year 3 of 5)	Asset Management - Preventative Maintenance	330,000	Superior Tank Solutions	-	-		320,000											320,000
Security Improvements Project	Asset Management - Equipment Replacement	288,445	Siemens	205,283	-	36,716	23,223	23,223										83,162
Security Improvements Project - Eng.	Asset Management - Equipment Replacement	58,730	Exante360	31,938	-		4,482											4,482
Dredging & Lake Outlet Repairs	Asset Management - Equipment Replacement	40,599	Parker / Layne	-	-		40,599											40,599
Well No. 15 - Rehabilitation	Asset Management - Equipment Replacement	154,000	Layne	-	-	17,621	136,379											154,000
Well No. 30 - Rehabilitation	Asset Management - Equipment Replacement	59,000	Layne	-	-		59,000											59,000
Well No. 22 - Rehabilitation	Asset Management - Equipment Replacement	36,000	Layne					36,000										36,000
Water Main Replacement - Tierra Subida Ave. (Paving)	Asset Management - Infrastructure Replacement	28,712	RBC	-	-		28,712											28,712
Emergency Repairs on Well 18/19 Tank	Asset Management - Infrastructure Repairs	57,850	Superior Tank Solutions	-	57,850													-
Drainage Improvements @ WTP	Asset Management - Site Improvements	50,000	TBD	-	-			50,000										50,000
Office Space for Electronic Tech.	Work Flow and Communication Improvements	30,000	TBD	-	-			30,000										30,000
Valve Exercising Truck	Equipment Replacement	119,219	Wondries / CTEC	-	-			119,219										119,219
New Vehicle	Equipment Replacement	30,000	Wondries	-	-		30,000											30,000
Fleet Lighting Improvements	Safety	30,000	PWD	1,500	-			1,500	2,500	6,000								10,000
ARC Flash	Safety	137,500	Carollo	-	-	6,020	26,296	26,296	26,296	26,296	26,296							137,500
AC Pipe Disposal	Safety / Regulatory Compliance	26,875	Alliance	-	26,875													-
Lobby Design	Customer Service Improvement / Feasibility Design	56,600	ITZEN	49,344	-	4,650	2,606											7,256
<b>Subtotal</b>		<b>1,860,953</b>		<b>495,895</b>	<b>88,911</b>	<b>96,367</b>	<b>720,966</b>	<b>323,878</b>	<b>40,796</b>	<b>46,034</b>	<b>26,296</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>918,263</b>	<b>2,172,600</b>

Water Quality Fee Funded Projects																		
Project Title	Project Type	Contract	Vendor/Contractor/Consultant	Jan - Nov, 2015	Dec, 2015	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2016 Total
GAC Replacement - WTP	Water Quality Improvement / Regulatory	TBD	Calgon Carbon	\$ 573,109			\$ 300,000				\$ 190,000			\$ 190,000		\$ 190,000		\$ 870,000
GAC Replacement - WTP AC1230CX Reactivated	Water Quality Improvement / Regulatory	190,000	Evoqua	\$ 298,286					\$ 190,000									\$ 190,000
GAC Replacement - Underground Booster	Water Quality Improvement / Regulatory	62,730	Evoqua			\$ 62,730												\$ 62,730
<b>Subtotal</b>		<b>252,730</b>		<b>\$ 871,395</b>	<b>\$-</b>	<b>\$ 62,730</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ 190,000</b>	<b>\$ -</b>	<b>\$ 190,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 190,000</b>	<b>\$ -</b>	<b>\$ 190,000</b>	<b>\$ -</b>	<b>\$ 1,122,730</b>

 = Approved for Payment

# Water Revenue Bond - Series 2013A

Updated: February 3, 2016

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	\$ 1,279,793	\$ 1,136,566	\$ 485,000	\$ (79,793)
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	\$ 645,443	\$ 515,884	\$ -	\$ 329,557
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	\$ 93,380	\$ 433,263	\$ -
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	\$ 1,037,401	\$ -	\$ (1,530,000)
<b>Totals:</b>			\$ 8,500,000	\$ 9,418,263	\$ 7,496,259	\$ 918,263	\$ (918,263)

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	Spe. 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

**PALMDALE WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** February 3, 2016 **February 10, 2016**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Mr. Jon M. Pernula, Water and Energy Resources Director  
**VIA:** Mr. Dennis D. LaMoreaux, General Manager  
**RE:** ***AGENDA ITEM NO. 7.4 – CONSIDERATION AND POSSIBLE ACTION ON RESOLUTION NO. 16-5 DECLARING CONTINUED EMERGENCY WATER CONSERVATION RESTRICTIONS AND REAFFIRMING STATE WATER RESOURCES CONTROL BOARD REGULATIONS FOR THE PURPOSE OF ACHIEVING THE MANDATORY PRESCRIBED 28% REDUCTION IN POTABLE WATER USE AND EXTENDING STAGE 3 OF PALMDALE WATER DISTRICT’S URBAN WATER MANAGEMENT PLAN CALLING FOR MANDATORY CONSERVATION IN COMPLIANCE WITH THE STATE WATER RESOURCES CONTROL BOARD’S EMERGENCY REGULATION AS AMENDED ON FEBRUARY 2, 2016.***

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**Recommendation:**

Staff recommends the Board adopt Resolution No. 16-5 being a Resolution of the Board of Directors of the Palmdale Water District Declaring Continued Emergency Water Conservation Restrictions and Reaffirming State Water Resources Control Board (SWRCB) Regulations for the Purpose of Achieving the Mandatory Prescribed 28% Reduction in Potable Water Use and Extending Stage 3 of Palmdale Water District’s Urban Water Management Plan Calling for Mandatory Conservation in Compliance With the State Water Resources Control Board’s Emergency Regulation as Amended On February 2, 2016.

**Background:**

The 2015 water year was the fourth consecutive dry year and delivered historically low snowpack. Water resources and reserves have dwindled throughout the state to historically low levels. While 2016 is off to a good start with several El Nino generated storms, California’s reservoirs are in a state of recovery and conservation must continue until water storage returns to normal levels. In response to the drought, the District urged our customers to cooperate in water use efficiency efforts, declared emergency conservation restrictions, and adopted State Water Resources Control Board Regulations on delivery and consumption of water for public use in order to help lower overall water demand. Through public notices, staff outreach, adopting fines for water waste, and increased conservation enforcement, the District was hoping to offset shortages through reduced water use. The District recognizes the past efforts of our customers in exceeding the state required 20% reduction by year 2020 but have yet to realize sufficient additional reductions in water use during the declared emergency.

February 3, 2016

With continuing concerns over the depleted surface and ground water throughout California, the Governor has issued an executive order extending the mandated 25% reduction in urban water use throughout the State when compared to 2013 usage. This order also reaffirms prior drought restrictions while allowing for adjustments to mandatory target adjustments. A qualifying climate adjustment will allow the District to change its target from 32% to 28% reduction of water use compared to 2013 usage.

In order to comply with the governor's order and with the State Board's amended regulations, District staff is recommending adoption of Resolution No. 16-5 and extension of Stage 3 mandatory conservation per our 2010 Urban Water Management Plan's Water Shortage Contingency Provision. This Resolution declares a continued water shortage emergency, extends mandatory water conservation restrictions, and complies with the State Water Resources Control Board's current regulations on the delivery and consumption of water for public use. The Resolution also conforms to our phase 3 Water Shortage Contingency Plan under our current Urban Water Management Plan (UWMP).

**Strategic Plan Initiative:**

This work is part of Strategic Initiative No. 1 – Water Resource Reliability

**Budget:**

Conservation resulting from extension of the Stage 3 Mandatory Conservation Restrictions may have a negative impact on revenues from decreased water sales.

**Supporting Documents:**

- Resolution No. 16-5
- Executive Order B-36-15
- SWRCB Extended Emergency Water Conservation Regulation Media Release

**PALMDALE WATER DISTRICT  
RESOLUTION NO. 16-5  
REVISING RESOLUTION NO. 15-14**

**RESOLUTION OF THE BOARD OF DIRECTORS  
OF PALMDALE WATER DISTRICT  
DECLARING CONTINUED EMERGENCY WATER CONSERVATION RESTRICTIONS  
AND REAFFIRMING STATE WATER RESOURCES CONTROL BOARD  
REGULATIONS FOR THE PURPOSE OF ACHIEVING THE MANDATORY  
PRESCRIBED 28% REDUCTION IN POTABLE WATER USE AND  
EXTENDING STAGE 3 OF PALMDALE WATER DISTRICT'S URBAN WATER  
MANAGEMENT PLAN CALLING FOR MANDATORY CONSERVATION IN  
COMPLIANCE WITH THE STATE WATER RESOURCES CONTROL BOARD'S  
EMERGENCY REGULATION AS AMENDED ON FEBRUARY 2, 2016**

**WHEREAS**, Palmdale Water District ("District") is a water district empowered to provide water service within District boundaries; and

**WHEREAS**, due to inadequate water storage, opposition to the development and construction of water supply facilities, and legal restrictions on the flow of State Water Project water to Southern California, California in general, and the Antelope Valley, in particular, is experiencing shortages in water supplies; and

**WHEREAS**, the early State Water Project allocation for 2016 has been established at a critically low 15% and deliveries have, therefore, been drastically curtailed in response to the inadequacy of water supplies; and

**WHEREAS**, groundwater supplies which provide a supplemental source of water to the District, are limited in nature, being subjected to increased demands, and now subject to legal rulings arising from a groundwater basin adjudication action that further limit the District groundwater supplies; and

**WHEREAS**, conservation of water by all District consumers that have not already conserved will help relieve the problems caused by the shortage in water supplies; and

**WHEREAS**, the District has attempted, through its public information program, to advise and alert the consumers to the serious nature of the water supply situation. Customers have made significant progress in water use efficiency from pre-2009 by exceeding the State required 20% reduction by the year 2020 under SBX 7-7; and

**WHEREAS**, on January 17, 2014, Governor Edmund G. Brown Jr. issued a Proclamation January 17, 2014 declaring a State of Emergency to exist in California due to severe drought conditions; and

**WHEREAS**, on April 25, 2014, Governor Edmund G. Brown Jr. further issued an Executive Order to strengthen the state’s ability to manage water and habitat effectively in drought conditions and called on all Californians to redouble their efforts to conserve water; and

**WHEREAS**, the District adopted Resolution No. 14-9 on May 14, 2014 urging heightened water conservation by customers in response to drought and the April 25, 2014 Governor’s Proclamation; and

**WHEREAS**, Water Code Section 1058.5 grants the State Water Resources Control Board the authority to adopt emergency regulations in certain drought years in order to: “prevent the waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion, of water, to promote water recycling or water conservation;” and

**WHEREAS**, on July 15, 2014, the State Water Resources Control Board adopted emergency water conservation regulations prohibiting all individuals from engaging in certain water use practices and would require mandatory conservation-related actions of public water suppliers during the current drought emergency; and

**WHEREAS**, on April 1, 2015, Governor Edmund G. Brown Jr. further issued an Executive Order to re-affirm the orders and provisions contained in the January 17, 2014 Proclamation, the April 25 Proclamation, and Executive Orders B-26-14 and B-28-14 and mandated further restrictions and programs for the purpose of achieving a statewide reduction in potable water use through February 28, 2016; and

**WHEREAS**, on May 5, 2015, the State Water Resource Control Board adopted Resolution 2015-0032, prescribing mandatory 32% conservation for Palmdale Water District from June 1, 2015-February 28, 2016 compared to the same months in 2013; and further affirmed the restrictions and programs specified in Executive Order B-29-15; and

**WHEREAS**, on November 13, 2015, Governor Edmund G. Brown Jr. further issued an Executive Order to extend the orders and the provisions of the January 17, 2014 Proclamation, his April 25, 2014 Proclamation, and Executive Orders B-26-14, B-28-14, and B-29- 15; and

**WHEREAS**, on February 2, 2016, the State Water Resource Control Board adopted a resolution extending and revising Emergency Conservation Regulations such that they shall carry through until October 31, 2016 and revisions for climate adjustments will reduce the District’s conservation target from 32% to 28%; and

**WHEREAS**, following the making of findings as required by law, the District has the power and authority to adopt mandatory water conservation measures within its boundaries pursuant to Part 5 of the Irrigation District Law, codified at Division 11 of the California Water Code; and

**WHEREAS**, the District is required to comply with State law, including regulations adopted by the State Water Resources Control Board (SWRCB), codified at Title 23 of the California Code of Regulations and is authorized pursuant thereto to implement its requirements; and

**WHEREAS**, the District desires to comply with the SWRCB emergency water conservation regulations and to continue the Stage 3 Water Shortage Emergency Plan contained in the District's 2010 Urban Water Management Plan, including mandatory water rationing which measures have been implemented; and

**WHEREAS**, the District's achieved conservation of 25.7% from June through December, 2015 is short of the 28% mandated goal, and the restrictions and fines set forth in revision to Resolution No. 15-9 shall be extended in order to improve the overall level of compliance with mandatory water restriction found herein.

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

**Section 1: Findings:** The Board of Directors of the District hereby finds and declares as follows:

1) On July 15, 2014, the State Water Resources Control Board issued mandatory Emergency Water Conservation Regulations prohibiting all individuals from engaging in certain water use practices and requiring the District to implement its mandatory water conservation measures.

2) The State Water Project water available to the District is a critically low (15%) allocation.

3) Continued production of water from the groundwater basin without proportionate recharge of the basin through stream runoff, rainfall, and snow melt could result in irreparable damage to the storage capacity of the basin aquifers and impair the long-term water delivery capability of the District.

4) Voluntary and mandatory water conservation measures have not resulted in the recommended 28% reduction in consumption.

5) At present, without supplemental supplies, the anticipated water available to the District is insufficient to meet anticipated demands.

6) Should existing drought conditions continue, or should the District lose its water production capacity, there may be insufficient water available for human consumption, sanitation and fire protection.

**Section 2: Extension of Stage 3 Water Shortage Emergency:** The Board of Directors of the District, in accordance with the foregoing findings, hereby determines and declares the existence of an emergency condition of water shortage within its service area and further determines and declares that the regulations and restrictions on delivery of water and consumption of water within its service area as hereinafter set forth are necessary, in the sound discretion of the Board of Directors of the District, to conserve the water supply for the greatest public benefit with particular regard to domestic use, sanitation, and fire protection.

**Section 3: Authorization to Implement Restrictions on Water Consumption:** The Board of Directors of the District hereby authorizes the General Manager of the District to take specific steps to meet water conservation goals, regulations, and restrictions on water consumption as hereinafter set forth.

**Section 4: Conservation Goal and Authorized Actions.** The conservation goal of the District and the State Water Board is a reduction in water use of twenty-eight percent (28%) when compared against usage in 2013, which goal is mandatory through October 31, 2016. The General Manager is authorized to implement Action 1 Paragraphs 1 through 11 of this Resolution to meet said conservation goal.

**Action 1. Mandatory Water Conservation Regulations.** The General Manager shall take all steps necessary to advise the District's customers of the following mandatory regulations and to enforce them in accordance with the District's existing Waste of Water Policy:

1. There shall be no hose washing of sidewalks, walkways, buildings, walls, patios, driveways, parking areas or other paved surfaces, or walls, except to eliminate conditions dangerous to public health or safety or when required as surface preparation for the application of architectural coating or painting.
2. Washing of motor vehicles, trailers, boats and other types of equipment shall be done only with a hand-held nozzle for quick rinses, except that washing may be done with reclaimed wastewater or by a commercial car wash using recycled water.
3. No water shall be used to clean, fill or maintain levels in decorative fountains, ponds, lakes or other similar aesthetic structures unless such water is part of a closed recycling system.
4. No restaurant, hotel, cafe, cafeteria or other public place where food is sold, served or offered for sale, shall serve drinking water to any customer unless expressly requested and shall display a notice to that effect.
5. All water users shall promptly repair all leaks from indoor and outdoor plumbing fixtures.
6. No lawn, landscape, or other turf area shall be watered more often than two (2) days per week nor during the hours between 10:00 a.m. and 6:00 p.m. Water days will be set as follows: Wednesdays and Saturdays only.
7. Irrigation with potable water of ornamental turf on public street medians is prohibited.

8. Irrigation with potable water outside of newly constructed homes and buildings not delivered by drip or microspray is prohibited.

*Exemptions:*

- a. No watering **hour restrictions** during the months of November, December, January, February, and March. Watering can occur between the hours of 6:00 a.m. and 6:00 p.m.
9. No water users shall cause or allow the water to run off landscape areas into adjoining streets, sidewalks, or other paved areas due to incorrectly directed or maintained sprinklers or excessive watering. If cited, random acts of vandalism will be considered in any appeal.
  10. No water shall be applied to outdoor landscapes during and within 48 hours of measurable rainfall.
  11. The owner and manager of every hotel, motel, inn, guest house, bed and breakfast facility, and short-term commercial lodging shall post a notice of such shortage and any necessary compliance measures.
  12. Commercial nurseries, golf courses, parks, school yards, and other public open space, and landscaped areas shall be prohibited from watering lawn, landscaping, and other turf areas more often than two (2) days per week (Wednesdays and Saturdays) and between the hours of 6:00 a.m. and 6:00 p.m. except that there shall be no restriction on watering utilizing reclaimed water or where public use requires a modified and approved watering schedule.

*Exemptions:*

- a. Athletic field watering can occur between the hours of 6:00 p.m. and 10:00 a.m. the following morning.
  - b. No watering hour restrictions during the months of November, December, January, February, and March. Watering can occur between the hours of 6:00 a.m. and 6:00 p.m.
  - c. Watering schedules must be adhered to at all times. The District requires advance written notice of any maintenance activities requiring water use between the hours of 6:00 a.m. and 6:00 p.m.
13. The use of water from fire hydrants shall be limited to fire fighting and related activities and other uses of water for municipal purposes shall be limited to activities necessary to maintain the public health, safety, and welfare. Ongoing water system improvement projects are also exempt

under this section and may continue to use construction meters in accordance with standard District policy.

**Action 2: Mandatory Water Rationing:** Upon specific authorization by the Board of Directors, the General Manager shall implement a phased water rationing to protect the water supply of the District and to guarantee adequate supply for domestic use, sanitation, and fire protection as follows:

1. Stage 3: Water Rationing: An over thirty percent (30%) reduction in water deliveries to all District customers.

**Action 3: Extension of Drought Surcharge:** Upon specific authorization by the Board of Directors, the General Manager shall implement a phased drought surcharge to cover costs due to lost revenue during mandatory water cutbacks.

1. Stage 1: Drought Surcharge: A 45 cent surcharge on all non-essential usage tiers. The Stage 1 Drought Surcharge as implemented June 1, 2015. (Tiers 2-6)

**Section 5: Duration of Water Emergency:** The regulations, restrictions, and actions set forth herein shall take full force and effect immediately upon authorization by the Board of Directors and shall remain in full force and effect through October 31, 2016 or until otherwise directed by the SWRCB.

**Section 6: Appeal:** Decisions made by the District under the regulations set forth in this Resolution may be appealed by consumers in accordance with the procedure set forth in the District Rules and Regulations.

**Section 7: Violation:** A violation of the regulations and restrictions set forth herein will result in progressive warnings, fines, or result in the discontinuance of service to consumers willfully violating the conservation measures set forth herein or such other penalty or restriction as may be allowed by law. The Stage 3 fines under Water Shortage Emergency Plan (2010 UWMP) will be set as follows:

1. First violation will result in a fine of \$50.
2. Second violation will result in fine of \$250.
3. Third violation will result in a fine of \$500.
4. Fourth violation will result in discontinuance of service.

**Section 8: Severability:** If any portion of this Resolution is found to be unconstitutional or invalid, the District hereby declares that it would have enacted the remainder of this Resolution regardless of the absence of any such valid part.

**Section 9: Effective Date:** This Resolution shall take effect immediately.

**BE IT FURTHER RESOLVED,** that the Board of Directors finds that the provisions of this Resolution are exempt from the provisions of the California Environmental Quality Act as an action to

mitigate emergency conditions and as a rate setting measure pursuant to Public Resources Code §21080(b)(4) and (8).

**PASSED AND ADOPTED** at a regular meeting of the Board of Directors of Palmdale Water District held on February 10, 2016.

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President, Board of Directors  
Palmdale Water District

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Secretary, Board of Directors  
Palmdale Water District

APPROVED AS TO FORM:

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Aleshire & Wynder, LLP  
District Legal Counsel

**Executive Department**  
**State of California**

**EXECUTIVE ORDER B-36-15**

**WHEREAS** on January 17, 2014, I proclaimed a State of Emergency throughout the State of California due to severe drought conditions, which persist after four years; and

**WHEREAS** California is experiencing a range of extreme weather events such that the state must simultaneously prepare for a fifth year of drought and the possibility of major winter storms driven by the warming trend in the Pacific Ocean known as El Niño; and

**WHEREAS** the ongoing drought continues to affect water supplies, agriculture, businesses, and communities, and is further stressing California's fish and wildlife; and

**WHEREAS** wildfires have damaged critical infrastructure, including power plants, and hundreds of thousands of acres are and continue to be vulnerable to debris and mudslides due to scarring from significant wildfires in recent years; and

**WHEREAS** the magnitude of the severe drought conditions and wildfires continues to present threats beyond the control of the services, personnel, equipment, and facilities of any single local government and require the combined forces of a mutual aid region or regions to combat; and

**WHEREAS** under the provisions of section 8558(b) of the Government Code, I find that conditions of extreme peril to the safety of persons and property continue to exist in California due to water shortage, drought conditions, and wildfires; and

**WHEREAS** under the provisions of section 8571 of the Government Code, I find that strict compliance with various statutes and regulations specified in this order would prevent, hinder, or delay the mitigation of the effects of the drought and wildfires.

**NOW, THEREFORE, I, EDMUND G. BROWN JR.,** Governor of the State of California, in accordance with the authority vested in me by the Constitution and statutes of the State of California, in particular sections 8567 and 8571 of the Government Code, do hereby issue this Executive Order, effective immediately.

**IT IS HEREBY ORDERED THAT:**

1. The orders and provisions contained in my January 17, 2014 Proclamation, my April 25, 2014 Proclamation, and Executive Orders B-26-14, B-28-14, and B-29-15 remain in full force and effect except as modified herein.

2. To demonstrate the feasibility of projects that can use available high water flows to recharge local groundwater while minimizing flooding risks, the State Water Resources Control Board and California Regional Water Quality Control Boards shall prioritize temporary water right permits, water quality certifications, waste discharge requirements, and conditional waivers of waste discharge requirements to accelerate approvals for projects that enhance the ability of a local or state agency to capture high precipitation events this winter and spring for local storage or recharge, consistent with water rights priorities and protections for fish and wildlife.
3. If drought conditions persist through January 2016, the Water Board shall extend until October 31, 2016, restrictions to achieve a statewide reduction in urban potable water usage. The Water Board shall consider modifying its existing restrictions to address uses of potable and non-potable water, as well as to incorporate insights gained from existing restrictions. The California Public Utilities Commission is requested to take similar action with respect to investor-owned utilities providing water services.
4. Of the \$15 million appropriated in Item 3940-101-0679 of the Budget Act of 2015, the State Water Resources Control Board shall use up to \$5 million for permanent solutions that provide safer, cleaner, and more reliable drinking water to households served by water systems serving less than 15 drinking water connections or households served by domestic wells or other individual water supplies. The Water Board shall prioritize funds to public agencies and other entities eligible for funding under Water Code section 13442, but the Water Board may provide direct assistance to well owners without water for alternative safe drinking water supplies, if an entity eligible under Water Code section 13442 is unable or unwilling to provide assistance.
5. The Energy Commission shall expedite the processing of all applications or petitions for amendments to power plant certifications issued by the Energy Commission for the purpose of remediating any wildfire damage and to restore power plant operation by authorizing emergency construction activities including demolition, alteration, replacement, repair or reconstruction necessary for power plant operation. Title 20, section 1769 of the California Code of Regulations is hereby waived for any such petition, and the Executive Director of the Energy Commission shall approve such petitions as he deems necessary. The Energy Commission shall give timely notice to all relevant local, regional, and state agencies of any petition subject to this directive, and shall post on its website any such petition.

6. For purposes of carrying out directives in this Executive Order, Division 13 (commencing with section 21000) of the Public Resources Code and regulations adopted pursuant to that Division are hereby suspended. This suspension applies to any actions taken by state agencies, and for actions taken by local agencies where the state agency with primary responsibility for implementing the directive concurs that local action is required, as well as for any necessary permits or approvals required to complete these actions. This suspension, and those specified in paragraph 26 of Executive Order B-29-15 and any similar suspension specified in any of the orders listed in Paragraph 1 shall remain in effect until the drought state of emergency, or wildfire state of emergency with respect to directive 16, is terminated.
7. For purposes of carrying out directive 5, Chapter 3.5 (commencing with section 11340) of Part 1 of Division 3 of the Government Code is suspended for the development and adoption of regulations or guidelines needed to carry out the provisions in this Order.

This Executive Order is not intended to, and does not, create any rights or benefits, substantive or procedural, enforceable at law or in equity, against the State of California, its agencies, departments, entities, officers, employees, or any other person.

**I FURTHER DIRECT** that as soon as hereafter possible, this order be filed in the Office of the Secretary of State and that widespread publicity and notice be given of this order.

**IN WITNESS WHEREOF** I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 13th day of November 2015.

  
EDMUND G. BROWN JR.  
Governor of California

**ATTEST:**

\_\_\_\_\_  
ALEX PADILLA  
Secretary of State



# Media Release

## State Water Board Adopts Extended Emergency Water Conservation Regulation

***Extended Regulation Gives More Flexibility to Water Suppliers to Meet Conservation Targets***

**FOR IMMEDIATE RELEASE**  
**Feb. 2, 2016**

**Contact:** George Kostyrko  
[gkostyrko@waterboards.ca.gov](mailto:gkostyrko@waterboards.ca.gov)

**SACRAMENTO** – With California still experiencing severe drought despite recent rains, the State Water Resources Control Board (State Water Board) today adopted an extended and revised [emergency regulation](#) to ensure that urban water conservation continues in 2016.

The regulation extends restrictions on urban water use through October 2016 while providing urban water suppliers more flexibility in meeting their conservation requirements. It also directs staff to report back on additional flexibility once more complete water supply information is known in April. The action follows Governor Edmund G. Brown Jr.'s Nov. 13, 2015, [Executive Order](#) directing the State Water Board to extend the emergency water conservation regulation should drought conditions persist through January 2016.

“After four years of extreme drought, there is still a need for Californians to keep up their stellar conservation practices,” said Felicia Marcus, chair of the State Water Resources Control Board. “This updated regulation acknowledges that need, while making adjustments in response to feedback from water suppliers and others. If we continue to receive a lot of rain and snow in February and March, we may scale back the conservation requirements further, drop them, or move to another approach.”

Under the revised regulation, statewide water conservation is expected to exceed 20 percent compared to 2013 water use. The revised regulation responds to calls for greater consideration of certain factors that influence water use in different parts of the state, including hotter-than-average climate, population growth, and significant investments in new local, drought resilient water sources such as wastewater reuse and desalination.

Due to the severity of the water deficits over the past four years, many of California's reservoirs and groundwater basins remain [depleted](#), and the need for continued water conservation persists. Today's action serves as the fourth iteration of the emergency regulation since the State Water Board first instituted statewide conservation requirements in July 2014.

C A L I F O R N I A   E N V I R O N M E N T A L   P R O T E C T I O N   A G E N C Y



STATE WATER RESOURCES CONTROL BOARD

1001 I Street, Sacramento, CA 95814 • Mailing Address: P.O. Box 100, Sacramento, CA 95812-0100 • [www.waterboards.ca.gov](http://www.waterboards.ca.gov)



The State Water Board will continue to track water conservation efforts for each of the state's urban water suppliers (those with more than 3,000 connections) on a monthly basis. Compliance with individual water supplier conservation requirements will continue to be based on cumulative savings since June 2015. Cumulative tracking means that conservation savings will be added together from one month to the next, including conservation achieved under the Board's May 5, 2015, emergency regulation, and compared to the amount of water used during the same months in 2013.

## **Summary of Conservation Regulation Adjustments**

The updated emergency regulation continues to specify how much water communities must conserve based on their residential gallons per capita per day (R-GPCD) data (from July through September 2014), and provides recognition for certain factors affecting water use, along with other changes detailed below:

- Credits and adjustments to urban water suppliers' conservation standards are now available. They range from 2 percentage points to a maximum of 8 percentage points. In some cases, water suppliers are automatically credited based on conditions in their service areas. In other cases, water suppliers must supply specific information to support and determine the size of an adjustment.
- The regulation provides credits in three ways:
  - 1) Considering the differences in climate affecting different parts of the state;
  - 2) Providing a mechanism to reflect water-efficient growth experienced by urban areas; and
  - 3) Recognizing significant investments made by suppliers toward creating new, local, drought-resilient sources of potable water supply.
- The regulation creates penalties for homeowners' associations or community service organizations that block, stifle or threaten homeowners from reducing or eliminating the watering of vegetation or lawns during a declared drought emergency in violation of existing law.

This regulation extends the original framework that has resulted in a statewide water conservation rate of 25.5 percent over a seven-month period, according to [December conservation](#) data released earlier today. Even assuming all of the 400-plus water agencies receive the applicable credits offered in this regulation, the statewide cumulative conservation rate is still projected to exceed 20 percent.

"We expect a savings rate greater than 20 percent, but perhaps not quite achieving the prior call for 25 percent," said Marcus. "We anticipated this might occur with any tweaks to our existing regulation. This regulation should still allow this state to save more than 1 million acre-feet of water through October 2016 – which is enough water to serve an average of two million California families. While we are hopeful that we are turning the corner on this drought, the

truth is that it's just too soon tell. Any additional water we can conserve to today will serve us well tomorrow if the drought continues.”

For additional information and examples of how the credits would be calculated and applied, please see the fact [sheet](#).

## **Next Steps**

The regulation will now be submitted to the Office of Administrative Law, which will review and approve or deny the regulation. If approved by the Office of Administrative Law, the regulation will take effect immediately and remain in effect for 270 days from the approval date.

For more information, please visit the [Emergency Water Conservation](#) website.

To learn more about the state's drought response, visit [Drought.CA.Gov](#).

Every Californian should take steps to conserve water. Find out how at [SaveOurWater.com](#).

###

**PALMDALE WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** February 3, 2016 **February 10, 2016**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Mr. Dennis D. LaMoreaux, General Manager  
**RE:** *AGENDA ITEM NO. 7.5 – CONSIDERATION AND POSSIBLE ACTION  
ON SPECIAL DISTRICT LOCAL AGENCY FORMATION  
COMMISSION (LAFCO) REPRESENTATIVE.*

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The Palmdale Water District is entitled to cast one vote for a Special District Representative on the Local Agency Formation Commission (LAFCO). The candidates are as follows, and candidate statements are attached.

- Harold Bissner III, Water District Director, San Gabriel Valley Mosquito & Vector Control District
- Donald L. Dear, Water District Director, West Basin Municipal Water District
- Melvin L. Matthews, Vice President/Director, Foothill Municipal Water District

**Supporting Documents:**

- Special District LAFCO Representative ballot and instructions
- Nomination forms and candidate statements

RECEIVED

DEC 30 2015

*Lagerlof Senecal  
Gosney & Kruse, LLP*

BY: \_\_\_\_\_



301 NORTH LAKE AVENUE, 10TH FLOOR  
PASADENA, CALIFORNIA 91101  
PHONE: (626) 793-9400 • FAX (626) 793-5900

William F. Kruse  
E-MAIL: WFKRUSE@lagerlof.com

TO: PRESIDING OFFICER OF EACH INDEPENDENT SPECIAL DISTRICT IN  
LOS ANGELES COUNTY

FROM: WILLIAM F. KRUSE

RE: BALLOT; SPECIAL DISTRICT LAFCO REPRESENTATIVE

DATE : DECEMBER 28, 2015

Enclosed is the Ballot and the supplementary materials submitted for each of the candidates for Special District LAFCO REPRESENTATIVE for the term expiring in May 2016. Nominations closed as of 5:00 p.m. on December 21, 2015.

Please vote for ONE candidate on the BALLOT. The marked ballot should be placed in the envelope marked "Ballot Envelope." Please write the name of your agency and sign your name on the outside of the ballot envelope and return the completed ballot by mail to:

**William F. Kruse, Esq.  
Lagerlof, Senecal, Gosney & Kruse, LLP  
301 N. Lake Avenue, 10th Floor  
Pasadena, CA 91101-5123.**

**No ballot will be counted if it is missing the name of the voting agency and the signature of the Presiding Officer on the ballot envelope.**

The candidate receiving the highest number of votes will be declared the special district representative to LAFCO. In the event of a tie, a new election will be held with only the two candidates who constituted a tie on the ballot.

**Ballots must be returned by 5:00 p.m. on April 8, 2016.**

WFK/pjc  
Enclosures

cc: Paul Novak, w/enc.

# BALLOT

## SPECIAL DISTRICT LAFCO REPRESENTATIVE

Please vote for no more than one candidate.

**HAROLD BISSNER III**

Occupation: Water District Director

Sponsor: San Gabriel Valley Mosquito & Vector Control District

**DONALD L. DEAR**

Occupation: Water District Director

Sponsor: West Basin Municipal Water District

**MELVIN L. MATTHEWS**

Occupation: Vice President/Director

Sponsor: Foothill Municipal Water District

NOMINATION  
OF  
INDEPENDENT SPECIAL DISTRICT REPRESENTATIVE  
TO THE  
LOS ANGELES COUNTY LOCAL AGENCY FORMATION COMMISSION

To: Independent Special District Selection Committee

From: SAN GABRIEL VALLEY MOSQUITO & VECTOR CONTROL DISTRICT

Date: DEC 17 2015

Name of Candidate: HAROLD BISSNER III

THE SAN GABRIEL VALLEY MOSQUITO & VECTOR CONTROL DISTRICT is pleased to nominate

HAROLD BISSNER III as a candidate for appointment as special district **REPRESENTATIVE** to the Los Angeles Local Agency Formation Commission. The nominee is an elected official or a member of the board of an independent special district appointed for a fixed term. For your consideration, we submit the following additional information together with a resume of the candidate's qualifications.

Elective office: MEMBER, BOARD OF TRUSTEES

Agency: SAN GABRIEL VALLEY MOSQUITO & VECTOR CONTROL DISTRICT

Type of Agency: INDEPENDENT SPECIAL DISTRICT

Term Expires: \_\_\_\_\_

Residence Address: 2271 MAIDEN LANE  
ALTADENA CA 91001

Telephone: 626 794 4435

PLEASE ATTACH RESUME OR CANDIDATE STATEMENT (limit one page)

SAN GABRIEL VALLEY MOSQUITO & VECTOR CONTROL DISTRICT  
(Name of Agency)

By: Kenn K. Fujita  
Its: KENN K FUJITA  
DISTRICT MANAGER

# Harold James Bissner III

---

2271 Maiden Lane  
Altadena, CA 91001  
P&F (626) 794-4435

[contractinginfo@sbcglobal.net](mailto:contractinginfo@sbcglobal.net)  
[www.systemsbuildingincorporated.com](http://www.systemsbuildingincorporated.com)

## Curriculum Vitae for Harold James Bissner III

- Vice President, of the San Gabriel Valley Mosquito and Vector Control District. Appointed by Mike Antonovich in 2012 to represent the interests of LA County residents. Assuming Presidents role in 2016
- Vice President of Sheriff's Support Group of Altadena; a 501 C 3 nonprofit fund raising organization. 2001 to current and Co-producer of their Community Summer Concert Series in Altadena
- Former Councilman in Altadena. 1997-2007. 2009-2015  
Corresponding Secretary 2010-2011. Vice Chair 2012-2013
- Former Chair of Altadena Land Use Committee. 2 years Chair & 12 year member
- Member of LA County Sheriffs Volunteer program 1997- Present
- Former member of the LA County Sheriff's Community Advisory Committee
- 2006 Altadena Outstanding Citizen of the Year cited for crime reduction efforts, volunteerism, and contributions of construction projects to community nonprofit events.
- President of Altadena Community Center Advisory Committee 2013-2015

1996-Current

**Forensic expert.** Consultant for manufacturing processes, property owner's common interest developments, private education & institutional and Home Owners Associations.

1984 – Current

**Systems Building Incorporated, Altadena, CA. President.**  
Involved in all aspects of running the Corporation.

Design/build construction of new facilities & refit existing for manufacturing/commercial/industrial/Institutional clientele. Facilities and landscape installations & maintenance for facilities.

Renovation of historic residences. Addition, remodel and new construction of single family homes.

Representative commercial projects:

- Baskin-Robbins. Retail, Production facilities, Corporate office expansion.
- Harman International/JBL. Wood mill production facility. Refit for revised production facility. 186,000 sq. ft.
- Harman lacquer facility 76,000 sq. ft.
- Relocation of Long Beach South Light House electric supply.
- Baskin Robbins. Pilot production facility.
- Vanderhoof Veterinary. Surgical training theatre.
- Flavor Forces, Inc. Production facility.
- Prison Industry Authority. Wood mill, Tehachapi

NOMINATION  
OF  
INDEPENDENT SPECIAL DISTRICT REPRESENTATIVE  
TO THE  
LOS ANGELES COUNTY LOCAL AGENCY FORMATION COMMISSION

To: Independent Special District Selection Committee

From: West Basin Municipal Water District

Date: 11/19/2015

Name of Candidate: Donald L. Dear

West Basin Municipal Water District

is pleased to nominate

Donald L. Dear

as a candidate for appointment as special

district **REPRESENTATIVE** to the Los Angeles Local Agency Formation Commission. The nominee is an elected official or a member of the board of an independent special district appointed for a fixed term. For your consideration, we submit the following additional information together with a resume of the candidate's qualifications.

Elective office: Director, West Basin Municipal Water District, Board of Directors

Agency: West Basin Municipal Water District

Type of Agency: Special District (Water Agency)

Term Expires: January 2017

Residence Address: 15433 Catalina Avenue

Gardena, CA 90247

Telephone: (310) 922-0117

PLEASE ATTACH RESUME OR CANDIDATE STATEMENT (limit one page)

West Basin Municipal Water District

(Name of Agency)

By: 

Its: \_\_\_\_\_

# DONALD L. DEAR

## BIOGRAPHY



Don Dear began his distinguished career in public service over 46 years ago. Don was first elected to the Gardena City Council in 1970. After 12 years of service on the Gardena City Council, he was elected Mayor of Gardena in 1982. He served as Mayor of Gardena for record breaking nine consecutive terms. He retired from his service to the City of Gardena in 2001 with 27 years service. Donald L. Dear was elected to the West Basin Municipal Water District Board of Directors in November 2000 to represent the Cities of Gardena, Hawthorne, Lawndale, and portions of El Camino Village. In September 2013, the West Basin Board appointed him as one of the Board's two representatives on the Metropolitan Water District of Southern California's Board of Directors. In 2004, 2008 and again in 2012, he was elected as one of the representatives for the Los Angeles County Independent Special Districts on the Local Agency Formation Commission of which he currently serves as 1<sup>st</sup> Vice President. In October 2011, the West Basin Board paid tribute to Director Dear's distinguished public service by naming their Carson Headquarters the Donald L. Dear Building.

Don's years of experience have given him a deep first-hand understanding of the roles, responsibilities and challenges facing local governmental institutions. In addition to his service as Council Member and Mayor of the City of Gardena, Don has served for 24 years as a Trustee of the Greater Los Angeles Vector Control District, and for 19 years on the Board of Directors for the Los Angeles County Sanitation District No. 5. He also served as President of the South Bay Cities Association (now known as South Bay Cities Council of Governments), on the Board of Directors of the Southern California Cities Joint Powers Consortium and is a member of the Sierra Club.

A former teacher at Stephen White Middle School in Carson for 38 years, he is well known and widely respected by his former students, colleagues and members of the community. In 1983 he was "Teacher of the Year" for Region A of the Los Angeles Unified School District. Dear's professional affiliations include his service as a member of the National Council for Social Studies, board member of the Political Action Council of Educators, and six terms of service as a member of the House of Representatives of the United Teachers of Los Angeles (UTLA). His civic affiliations include the Gardena High School Booster Club, Gardena Jaycees, Gardena Valley Friends of the Library, Gardena Valley Music Association, Gardena Valley Cultural Arts Corporation, Gardena Valley Red Cross, Gardena-Carson Family YMCA, Hollypark and Gardena Lions Club, Gardena Elks, El Nido Services, Association for Retarded Citizens - South Bay, Kiwanis Club of Gardena Valley, Hawaiian Community Center Association, Serra High School Advisory Board, the University of Southern California San Pedro Peninsula Trojan Club, and Harbor General Hospital Advisory Board.

Director Dear has also distinguished himself through his outstanding work with youth, not only as a noteworthy educator, but also for his 30 years of unselfish dedication as a coach for more than 70 teams in three sports through the Gardena Recreation Department Youth Sports Leagues.



17140 S. Avalon Blvd.  
Suite 210  
Carson, CA 90746  
310.217.2411  
[www.westbasin.org](http://www.westbasin.org)

BOARD OF DIRECTORS

Gloria D. Gray  
*President*

Carol W. Kwan  
*Vice President*

Harold C. Williams  
MSCE, P.E., DTM  
*Treasurer*

Scott Houston  
*Secretary*

Donald L. Dear

COMMITTED TO

*Water Reliability*

*Water Quality*

*Sound Financial and  
Resource Management*

*Customer Service*

*Environmental  
Stewardship*

November 19, 2015

NOV 23 2015

Presiding Officer  
Palmdale Water District  
2029 East Avenue Q  
Palmdale, CA 93550

Dear Presiding Officer:

I am thankful for the opportunity to represent you for the past four years on the Los Angeles County LAFCO Commission as your Independent Special Districts representative and am writing to ask you for your support again in my bid for re-election to the Commission.

As you know, Independent Special Districts are responsible for a significant portion of the County LAFCO budget and therefore have a great deal at stake in their daily operations. If re-elected, I will continue to fight on your behalf to control operating expenses.

Throughout my career, I have served more than 46 years in local and municipal government, including 27 years as a Council Member and Mayor of the City of Gardena, 22 years as a Trustee of the Greater Los Angeles Vector Control District and 19 years on the Board of Directors for the Los Angeles County Sanitation District. I have been an elected Board Member of the West Basin Municipal Water District since 2001 and am currently a Metropolitan Water District of Southern California Board Member as well. With this experience, comes a true understanding of the critical role independent special districts play in the services that protect and enhance the quality of life in our local communities and neighborhoods. I have included by candidate statement as well as my biography for your reference.

In closing, as the past four years have shown unprecedented economic challenges for our State and County, in the coming years we will continue to experience dwindling revenues. While maintaining perfect attendance during my current tenure on the Commission, I have thoroughly dedicated myself to maintaining a strong foundation of knowledge on the issues we face and I strongly believe that my experience uniquely qualifies me to represent the Independent Special Districts on the Commission in the future.

I hope I can count on your support in the upcoming Independent Special Districts election to the Los Angeles County LAFCO Commission. If you have any questions, please feel free to contact me at your convenience at (310) 704-0881.

Sincerely,

A handwritten signature in cursive script that reads "Donald L. Dear".

Donald L. Dear  
Past President, Board of Directors, Division V  
West Basin Municipal Water District  
LAFCO Independent Special District Representative

NOMINATION  
OF  
INDEPENDENT SPECIAL DISTRICT REPRESENTATIVE  
TO THE  
LOS ANGELES COUNTY LOCAL AGENCY FORMATION COMMISSION

To: Independent Special District Selection Committee

From: Foothill Municipal Water District

Date: November 16, 2015

Name of Candidate: Melvin L. Matthews

Foothill Municipal Water District

is pleased to nominate

Melvin L. Matthews

as a candidate for appointment as special

district **REPRESENTATIVE** to the Los Angeles Local Agency Formation Commission. The nominee is an elected official or a member of the board of an independent special district appointed for a fixed term. For your consideration, we submit the following additional information together with a resume of the candidate's qualifications.

Elective office: Vice President/Director

Agency: Foothill Municipal Water District

Type of Agency: Municipal Water District/Special District

Term Expires: 12-06-2018

Residence Address: 2121 Glen Springs Road

Pasadena, CA 91107

Telephone: (626) 622-9137

PLEASE ATTACH RESUME OR CANDIDATE STATEMENT (limit one page)

Foothill Municipal Water District

(Name of Agency)

By: Karen Oblak

Its: Treasurer

Melvin L. Matthews  
2121 Glen Springs Road  
Pasadena, CA 91107-1015  
Phone: 626-794-4167  
Mobile: 626-622-9137  
E-mail: melmatthews@outlook.com



Mel is the general manager of the Kinneloa Irrigation District, a water company serving the Kinneloa Ranch area east of Altadena and portions of the City of Pasadena. He has served in this position for eleven years. Before becoming general manager, he was elected to the Board of Directors of the Kinneloa Irrigation District in 1997 and served as chairman of the board or treasurer for seven years.

Mel is also concurrently serving as a director and vice-president on the board of the Foothill Municipal Water District. FWMD is a member of the Metropolitan Water District of Southern California and provides supplemental imported water to eight local water agencies. He also serves on the finance committee which oversees the financial matters of the district including the preparation of the budget.

Previously, Mel was in the cable television business for 32 years as founder and president of KTS Corporation and later with Charter Communications serving as the director of government and community relations after selling his cable systems to Charter in 1993.

Mel has extensive experience working on various projects and issues with the County of Los Angeles and cities as well as participating in community groups, homeowners' associations and service clubs. Mel has extensive education and experience in finance and has served as treasurer for many of these organizations.

Mel is active with the California Special Districts Association and the Association of California Water Agencies and has gained first-hand knowledge and experience of the issues and challenges facing special districts and public water agencies in providing services to the citizens of the County of Los Angeles and State of California.

Mel is a graduate of the University of California at Berkeley with a BS in Chemical Engineering. He has also earned a MBA in Operations Management from the Anderson Graduate School of Business at UCLA. He was born in Pasadena and still lives there with his wife, Donna. They have five children and ten grandchildren.

**PALMDALE WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** February 2, 2016 **February 10, 2016**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Mr. Dennis D. LaMoreaux, General Manager  
**RE:** *AGENDA ITEM NO. 7.6 – CONSIDERATION AND POSSIBLE ACTION  
TO RECONSIDER THE PALMDALE WATER DISTRICT’S NOMINEE  
TO FILL THE PUBLIC WATER SUPPLIER SEAT ON THE ANTELOPE  
VALLEY WATERMASTER BOARD OF DIRECTORS.*

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There are no staff reports or back-up materials for this item.



**PALMDALE WATER DISTRICT  
BOARD MEMORANDUM**

**DATE:** February 2, 2016 **February 10, 2016**  
**TO:** BOARD OF DIRECTORS **Board Meeting**  
**FROM:** Mr. Dennis D. LaMoreaux, General Manager  
**RE:** *AGENDA ITEM NO. 7.8 – CONSIDERATION AND POSSIBLE ACTION TO AUTHORIZE THE FORMATION OF AN AD HOC COMMITTEE TO CONSIDER AND POTENTIALLY RECOMMEND CHANGES TO ARTICLE 4 OF THE PALMDALE WATER DISTRICT’S RULES AND REGULATIONS.*

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There are no staff reports or back-up materials for this item.



**PRELIMINARY  
TECHNICAL  
PROGRAM**

# Building a Sustainable Future



**MARCH 21-24**

**SACRAMENTO  
CALIFORNIA**

**2016**

**CA-NV SECTION AWWA SPRING CONFERENCE  
SACRAMENTO CONVENTION CENTER**

## TUESDAY SESSIONS

### Session Number 1 - Safe Drinking Water Act Committee

2:00 PM - 2:30 PM

#### **United States Environmental Protection Agency (USEPA) Regulatory Update**

Bruce Macler, USEPA

An update on current events and trends in federal regulations.

2:30 PM - 3:00 PM

#### **AWWA Cyanotoxins Guidance**

Adam Carpenter, AWWA

An introduction to using AWWA's guidance on addressing potential cyanotoxin issues.

4:15 PM - 4:45 PM

#### **California ELAP Update**

Christine Sotelo, Environmental Laboratory Accreditation Program (ELAP)

An update on the California Environmental Laboratory Accreditation Program.

4:45 PM - 5:15 PM

#### **California MCL for 1,2,3-TCP**

Zach Rounds, Division of Drinking Water – California

An update on regulation of 1,2,3-TCP in California.

3:45 PM - 4:15 PM

#### **California Regulatory Update**

Mark Bartson, Division of Drinking Water – California

An update on current events and trends in California regulations.

### Session Number 2 - Water Loss Control

2:00 PM - 2:30 PM

#### **State to State: A Comparison of Water Loss Training & Technical Assistance Programs Across Multiple States**

Steve Cavanaugh, Cavanaugh & Associates

Participants in this session will learn about how different states have implemented successful water loss training & technical assistance programs, using different strategies.

2:30 PM - 3:00 PM

#### **A Water Loss Snapshot – Examining the Country's Water Audit Submissions**

Kate Gasner and Reinhard Sturm, Water Systems Optimization

This presentation will review the research's findings after examining more than 2,600 water audits from the likes of California, Georgia, Texas, Tennessee, Delaware and Wisconsin (twenty-four states will be involved). These water audits represent un-validated water audits since they have not been vetted or reviewed for reliability; however, these self-reported water audits can still provide a meaningful snapshot of national non-revenue water levels. The presentation will tackle two main subjects: Water Loss Regulations and Requirements By State and Nationwide Performance Indicator Summary.

3:45 PM - 4:15 PM

#### **Under Pressure: Managing Water Loss, Energy and Asset Life through Optimized Pressure in the Water Network**

Tory Wagoner, Cavanaugh & Associates

Participants in this session will learn about the 4 compelling benefits of optimizing pressure in our pipe networks.

## TUESDAY SESSIONS

### Session Number 3 - Energy

2:00 PM - 2:30 PM

#### **Developing an Energy Master Plan**

Suhail Malki, Los Angeles County Department of Public Works

As more finite resources are consumed each year, it is vital that public water utilities are able to provide high quality water in a cost-effective and environmentally responsible manner. One key element to maintaining an efficient water system is keeping energy costs, electrical consumption, and greenhouse gas (GHG) emissions to a minimum. We found that an energy master plan (EMP) is a practical next step in progress towards managing electrical costs and environmental concerns. The EMP, completed in June of 2015, provides an organized, systematic, and long-term strategy towards maintaining reasonable rates for its services. The EMP identifies a portfolio of 15 cost effective programs and projects to reduce future energy usage and costs, as well as reduce GHG emissions.

The process for developing this EMP includes the following: establishing a baseline/present state, forecasting future energy usage and costs, identifying projects that will reduce future energy usage and costs, evaluating and prioritizing these projects, and lastly, creating a project implementation schedule for these projects based on the priority order determined.

2:30 PM - 3:00 PM

#### **Development, Engineering, Design, Contracting, and Implementation of Electric Grid-Tied In-Conduit Pressure Reducing Turbine (PRT)**

Ahmet Tatlıoğlu, County of Los Angeles - DPW Waterworks Division and  
Narendra Amarnani, County of Los Angeles, Internal Services, Office of Sustainability

The Los Angeles County Waterworks Districts (WWD) in collaboration with the Los Angeles County, Internal Services Department's Office of Sustainability is scheduled to complete the installation of a 261 kW in-conduit Pressure Reducing Turbine (PRT) at the potable water distribution facility located in the city of Palmdale, California. The PRT will function in parallel with existing pressure reducing valves (PRV) to generate electricity that would significantly offset electricity costs associated with operating this facility. The PRT will control the water pressure drop, harvesting electricity, illustrating the interdependence of water and energy. The project demonstrates environmental stewardship of WWD by planning and investing in reliable, clean, and sustainable energy operations, resulting in shrinking carbon footprint by reducing greenhouse gas emissions up to 1.26 million pounds per year.

## TUESDAY SESSIONS

### Session Number 3 – Energy (continued)

3:45 PM - 4:15 PM

#### **California Public Utilities Commission Rulemaking To Promote Water-Energy Nexus Programs**

Representative TBD, California Public Utilities Commission

The California Public Utilities Commission (CPUC) developed an Order Instituting Rulemaking into Policies to Promote a Partnership Framework Between Energy Investor Owned Utilities (IOUs) and the Water Sector to Promote Water-Energy Nexus Programs. The final details of this Rulemaking will be discussed and how the CPUC envisions the future development of robust Water-Energy Nexus programs between California's IOU energy companies and the water sector. Attendees will learn how to engage their energy providers to help enhance their utility energy efficiencies.

4:15 PM - 4:45 PM

#### **Water Utilities Perspective to the CPUC Rulemaking To Promote Water-Energy Nexus Programs**

Jack Hawks, California Water Association

The California Public Utilities Commission (CPUC) developed an Order Instituting Rulemaking into Policies to Promote a Partnership Framework Between Energy Investor Owned Utilities (IOUs) and the Water Sector to Promote Water-Energy Nexus Programs. The final details of this Rulemaking will be discussed and how the CPUC envisions the future development of robust Water-Energy Nexus programs between California's IOU energy companies and the water sector. Attendees will learn how to engage their energy providers to help enhance their utility energy efficiencies.

4:45 PM - 5:15 PM

#### **Energy Companies Response to the Final California Public Utilities Commission (CPUC) Water-Energy Nexus Proceeding Decision**

The California Public Utilities Commission has now completed its Order Instituting Rulemaking into Policies to Promote a Partnership Framework Between Energy Investor Owned Utilities and the Water Sector to Promote Water-energy Nexus Programs. This presentation will provide insight into how Pacific Gas and Electric will be implementing the final decision and how water utilities can optimize their participation by reducing their energy needs by increasing their efficiencies in cooperation with PG&E.

### Session Number 4 – Advanced Water Treatment

2:00 PM - 3:00 PM

#### **Developing an Advanced Water Treatment Operator Certification Program--Issues & Progress**

Angela Cheung, Santa Clara Valley Water District and Erin Mackey, Brown & Caldwell

Participants in this session will learn about the technical and regulatory issues related to developing an advanced water treatment certification and the committee's progress on answering these questions.

## TUESDAY SESSIONS

### Session Number 5 - Water Management & Efficiency

3:45 PM - 4:15 PM

#### **Smart Infrastructure Solutions for Drought Mitigation**

Todd Stocker, Aclara

Participants in this session will learn how technology can be used to reduce non-revenue water loss and will focus on how data can be used in various stages of the water audit process to make operational improvements.

4:15 PM - 4:45 PM

#### **Case Studies for Water Management Strategies to Achieve Hex Cr Compliance**

Tim Williams, Kennedy/Jenks Consultants

This presentation will share various strategies that several water systems in California are taking to comply with the new Hex Chromium drinking water standard that many water agencies are facing.

4:45 PM - 5:15 PM

#### **Lake Don Pedro Community Services District - Developing a New Water Supply During the Drought Emergency**

Mike Vasquez, Kennedy/Jenks Consultants

Participants will learn about the District's journey in developing a new groundwater supply during California's drought emergency as the District's surface water source at the Lake McClure Barrett Cove intake dries up.

### Session Number 6 – Partnership for Safe Water

2:00 PM - 3:00 PM

#### **Partnership for Safe Water: Optimization Programs and Case Studies**

Panel Discussion to include: Cynthia Andrews-Tate – Long Beach Water Department, Robert Cheng – Coachella Valley Water District, Adam Feffer – San Jose Water Company, Hubert Lai – East Bay Municipal Utilities District, Barbara Martin – AWWA and Jessica Cullins – Modesto Irrigation District

This presentation will provide attendees with an overview of the Partnership for Safe Water program and how it relates to utility management principles, such as EUM, in addition to water quality. Case studies will share water treatment plant and distribution system lessons learned and success stories from local participating utilities including East Bay Municipal Utilities District, Long Beach Water Company, Modesto Irrigation District, and San Jose Water Company. Water quality data from utilities will be presented, demonstrating the program effectiveness.

## TUESDAY SESSIONS

### Session Number 7A - Source Water Quality

3:45 PM - 4:15 PM

#### **EPA Movement Toward an Adaptive Systems Approach to Source Water Management and Regulation of Cyanotoxins in Drinking Water**

H Kenneth Hudnell, Medora Corporation

Participants in this session will learn the likely near future for EPA's strategic plan to protect source waters from cyanobacteria and cyanotoxins, cyanotoxin monitoring requirements, and cyanotoxin regulation through maximum contaminant levels.

4:15 PM - 4:45 PM

#### **The Use of Bubble Aeration, Catalytic GAC, and Ion Exchange For Removal of Hydrogen Sulfide In Groundwater**

Kenny Chau, Hazen and Sawyer

Participants in this session will learn about the pilot performance of three non-conventional treatment processes comprising of a bubble aeration process, catalytic granular activated carbon (GAC), and ion exchange for sulfides removal and other constituents in challenging groundwater sources.

4:45 PM - 5:15 PM

#### **Algal Toxin Monitoring at San Francisco Public Utilities Commission Reservoir and Comparison of Bench-Test and Full-Scale Treatment Performance**

Gregg Olson, San Francisco Public Utilities Commission

How San Francisco Public Utilities Commission is monitoring algal toxins in a source water reservoir and how algal toxin bench tests and the AWWA calculator compare to full-scale treatment monitoring results.

### Session Number 7B - Water Treatment

2:00 PM - 2:30 PM

#### **Investigating Coagulant Aid Alternatives to polyDADMAC Polymers - Pilot Studies**

Rich Brown, Environmental Engineering & Technology, Inc.

Nitrosamines are potential carcinogenic agents in drinking water. Nitrosamines are occasionally present in some source waters. However, most nitrosamines in drinking water are formed by reaction of precursor material with chloramines in chloraminated water. Nitrosamine precursor material can be present in the source water (naturally occurring or contributed by upstream wastewater discharges) or it can be contributed by polyallyldimethylammonium chloride (polyDADMAC) or epichlorohydrin dimethylamine (epi-DMA) polymers used to enhance particle removal in drinking water. This research focused primarily on ways to reduce nitrosamine precursor material contributed by polyDADMAC, but any of these approaches can also be applied to situations where epi-DMA polymers are used.

2:30 PM - 3:00 PM

#### **The Effects of Bromide in Source Water on Residual Chlorine Analytical Methods**

Vadim Malkov, Hach Company

Drinking water utilities, primarily in drought-stricken Western US, more and more frequently utilize water reuse technologies. This source water, especially under influence of seawater in coastal regions contains higher concentrations of NOM and especially bromide, which may form alternate and unwanted products in reactions with oxidants, e.g. ozone and chlorine. The brominated species may also form in chloramination processes and create largely unknown and unexpected difference in results of analytical methods measuring residual disinfectant, specifically DPD and Indophenol.

## TUESDAY SESSIONS

### Session Number 7B - Water Treatment (cont'd)

3:45 PM - 4:15 PM

#### **Treatment for a Groundwater System with Trihalomethane Compliance and Naturally Occurring Ammonia**

Tarrah Henrie, Corona Environmental Consulting and Rick Joyner, Quad Knopf

Corona Environmental Consulting (Corona) was contracted to conduct a Total Trihalomethane (TTHM) mitigation study for a central valley city. Depending on the chlorine dose applied the TTHM concentration can be as high as twice the Maximum Contaminant Level (MCL). Corona identified additional water quality parameters that required further study to determine the optimal treatment approach. Several additional water quality challenges have been identified (e.g, ammonia, maintaining distribution system chlorine residual, color, total organic carbon (TOC), odor, arsenic, iron and manganese) whose presence complicated the evaluation.

4:15 PM - 4:45 PM

#### **When Performance Doesn't Match Design: Troubleshooting Operational Challenges at a Large Arsenic Treatment Facility**

Eli Townsend, Corona Environmental Consulting

Will learn problem solving techniques used to address discrepancies between design and performance using a ten year old arsenic treatment plant as the case study. The lessons learned may help other treatment facilities using coagulation/filtration for arsenic removal.

4:45 PM - 5:15 PM

#### **Nutrient Removal Optimization for Groundwater and Surface Water Remediation**

Amanda Scott, GE Analytical Instruments

EPA and public health concerns about nutrient levels in drinking water require water plants to improve treatment methods. Nitrogen-based compounds from run-off, fertilization, sewage, and industry pose year-round problems to utilities trying to meet regulated nitrogen limits. Due to heightened industrial, human, and farming waste, nitrates have been recorded in high concentrations in both surface water and groundwater. In particular, high nitrate levels have been found in California groundwater wells. Therefore, nitrogen removal is becoming an important step in water treatment. One such method, biological denitrification, uses bacteria in an anaerobic setting to feed off a

## TUESDAY SESSIONS

### Session Number 8 - Research

2:00 PM - 2:30 PM

#### **Premise Plumbing 101**

Marc Edwards, Virginia Polytechnic Institute & State University

Premise Plumbing 101 is for all conference attendees. They will learn about why building systems are important factors for water distribution water quality.

2:30 PM - 3:00 AM

#### **Hot and Cold Water Problems With Inorganics in Building Plumbing**

Marc Edwards, Virginia Polytechnic Institute & State University

Participants will learn about risk factors and solutions that commercial and private residences have identified to better manage building system water quality issues.

3:45 PM - 4:15 PM

#### **Are Green Buildings Going to Make You Blue?**

William Rhoads, Virginia Polytechnic Institute & State University

"Are Green Buildings Going to Make You Blue?" will examine design of green buildings and indications that multiple collateral consequences also need to be considered. The audience will have a better understanding of the state of science for "green buildi

4:15 PM - 4:45 PM

#### **Emerging Problems with Opportunistic Premise Plumbing Pathogens**

William Rhoads, Virginia Polytechnic Institute & State University

This talk will focus on technical aspects of the problems being identified within building plumbing systems and how these problems are being researched at Virginia Polytechnic Institute & State University.

4:45 PM - 5:15 PM

#### **Impacts on opportunistic pathogens in premise plumbing systems: plumbing conditions, water AOC and the microbiome**

Dongjuan Dai, Virginia Polytechnic Institute and State University

Emerging pathogens in distribution system water quality is a high priority for all water professionals. Virginia Tech has been working on possible affects of premise plumbing items for many years and will share that with conference attendees through this presentation.

## TUESDAY SESSIONS

### Session Number 9 - Operator

2:00 PM - 2:30 PM

#### **Surface Water Treatment Rules**

Kurt Souza, Division of Drinking Water - California

The presentation will take the audience through a brief history and evaluation of the regulations which govern surface water treatment. The participants will gain a better understanding of the regulations, how they pertain to each portion of a treatment facility, and how to optimize your treatment performance in order to produce pure, wholesome and potable water at all times and under all conditions. The presentation will include conditions from the original surface water treatment rule, the Long Term 1 and Long Term 2 Rules along with the Disinfection Byproducts Rule which always has an impact on surface water treatment. The Cryptosporidium Action Plan will also be mentioned as a tool for operators to optimize their treatment facility and set goals and critical control points within the treatment facility to ensure continuous compliance.

2:30 PM - 3:00 PM

#### **Impacts of Historic Drought on Water Treatment Processes**

Lei Hong, Santa Clara Water District

Participants in this session will learn about impacts of drought on the source water quality and corresponding treatment processes that were implemented at Santa Teresa Water Treatment plant to manage multiple competing constituents in the raw water.

3:45 PM - 4:15 PM

#### **Pre-oxidation and Coagulation Fundamentals**

Joe Drago, Kennedy/Jenks Consultants

The objective of this presentation is to provide operators with a better understanding of two key treatment processes, pre-oxidation and coagulation, which are essential to achieving water quality objectives in surface water treatment plants. These two initial processes have historically been used to condition suspended and colloidal particles (turbidity and microbial organisms), natural organic matter (NOM), color, taste and odor causing compounds, and inorganic contaminants (e.g., iron and manganese) for removal from surface water sources.

4:15 PM - 4:45 PM

#### **Pretreatment Process Fundamentals**

Craig Thompson, West Yost Associates

Attendees will learn how drinking water regulations and different source water characteristics impact pretreatment process selection and which oxidants, coagulants, and coagulant aids can be used to optimize pretreatment and other treatment systems' performance.

4:45 PM - 5:15 PM

#### **Fundamentals of Granular Media Filtration for Surface Water Treatment**

Gordon Williams, Ph.D., P.E. East Bay Municipal Utility District

Granular media filtration is the backbone process of traditional water treatment, providing an important barrier, removing particulates and pathogens. This presentation will provide an overview of the granular media filtration process geared for water treatment plant operators. Filtration design balances the tradeoffs of effluent quality versus minimizing filter head loss, maximizing filter run length, and ultimately the filter production capacity. This presentation will include understanding the components of the filter, basics of filtration theory, media selection, key trade-offs in filter design, filter backwashing, and understanding filter performance.

## WEDNESDAY SESSIONS

### Session 10 - Tanks, Reservoirs and Structures Committee

8:00 AM - 8:30 AM

#### **A Case Study: Permitting, Designing and Constructing a Pre-stressed Concrete Water Tank on California's Coast**

Quanxin Mao, SRT Consultants

This case study illustrates the level of effort, perseverance, flexibility, and innovation that water districts need to demonstrate to complete small to middle size construction projects on the environmentally protected California Coast.

8:30 AM - 9:00 AM

#### **AWWA Tank Standard D101**

Mark Griffin, Tank Industry Consultants

This presentation will give a brief overview of the AWWA Tank Standards, the standard development and revision process, and how tank owners and engineers can utilize the standards to obtain quality tank construction and rehabilitation projects and facilitate communication between all parties. The presentation will provide insight into what will and will not be included in the new D101 standard and how it will become a valuable tool for tank owners and operators nationwide.

9:00 AM - 9:30 AM

#### **Tips for a Successful Protective Coating Application Project in Water Treatment Structures**

Manny Najjar, V&A Engineering

This presentation will be an overview of recommended processes for gathering information before a project is started on a new or existing facility. Engineering staff and operations staff will learn about the different types of coatings and where they should be used within water treatment plants, transmission pipes, and storage tanks. Learn several tips for coating selection, coating longevity, and avoiding cost over runs.

10:30 AM - 12:00 PM

#### **Roof Construction Details for Asset Preservation of Welded Steel Storage Tanks**

Leslie Scott, Paso Robles Tank

This presentation will educate attendees on enhanced asset preservation strategies for new welded steel tanks and for refurbishment projects for existing welded steel tanks. There are certain aspects of tank design, tank construction details, and tank coating systems that can be improved using requirements that exceed the minimum requirements of the AWWA standards. The objective of this presentation is to identify those options available to owners and specifiers that will enhance the conditions for the application of protective coatings, improve corrosion protection of the roof and roof structure portions of the tank, reduce long-term maintenance requirements of these areas, and strengthen a utility's tank asset preservation program.

## WEDNESDAY SESSIONS

### Session 11 - Security and Emergency Planning

1:30 PM - 2:00 PM

#### **Developing a Customer Complaint Surveillance Program for Water Contamination Detection**

Sheila Garret, San Francisco Public Utilities  
Commission

Participants in this session will learn the process and steps used in developing a comprehensive consumer complaint collection and data management system, setting alert thresholds for event detection, and developing notification and response procedures. In June 2008, SFPUC received a grant from United States Environmental Protection Agency (EPA) to implement a pilot water security program. As part of the grant project, SFPUC developed a comprehensive consumer compliant surveillance program. The corner stone of the program is employing Inspectors quickly in the field to detect any unusual pattern of consumer compliant calls and improve detection and response to any potential water contamination event.

2:00 PM - 2:30 PM

#### **A Low Cost, Robust Emergency Water System** John Novitsky

The Fire Chief of the Woodside Fire Protection District, along with a citizen, have come up with an inexpensive way to make his 3 city fire district "self-sufficient". The Fire Chief does not want to be in the business of providing a water utility; he wants to be the first responder to emergencies.

In this presentation, we will examine the alternatives (\$/liter, bottled water, vs FEMA supplied vs locally produced), and show how putting a low cost, robust purification system into each CERPP neighborhood both reduces risk, and saves tons of money.

2:30 PM - 3:00 PM

#### **Multi-Agency Collaboration for Improved Seismic Resilience of Imported Water to Southern California**

David Clark and Craig Davis, Metropolitan Water  
District

Participants will learn how three major California water agencies are cooperating to improve the seismic resilience of imported water to southern California which will benefit over 18 million residents.

3:30 PM - 4:00 PM

#### **Asset and Perimeter Security**

Thomas M. Murphy, Heightened- Security Inc.

Participants will learn methods to secure all water authority perimeters and assets from vandalism, theft and terrorist activities.

4:00 PM - 4:30 PM

#### **Cyber Threats to Critical Infrastructure**

Ronald T. Williams, Talon Industries

Participants in this session will learn about the nature and scope of Cyber Threats to Critical Infrastructure industry/systems such as SCADA

4:30 PM - 5:00 PM

#### **Mutual Aid: The Challenges of Providing and Receiving Help**

Mary Ellen Carroll, San Francisco Public Utilities  
Commission

Participants will learn the challenges associated with providing and accepting mutual aid in a disaster, specific to a water utility. Participants will get an overview of the local, state and federal partners that provide mutual aid to utilities during and after a disaster, what their respective roles are, and why communication between these entities is critical.

## WEDNESDAY SESSIONS

### Session 12A - Environmental, Health & Safety

8:00 AM - 9:00 AM

#### **Screw Press Performance for WTP Solids Residuals Dewatering**

Sami Kader, Water Works Engineers

Participants in this session will learn about screw press operational theory, and considerations for practical application to water treatment plant residual solids handling.

9:00 AM - 9:30 AM

#### **Recycled Water Treatment Permitting 101**

Uzi Daniel, West Basin MWD

Recycled Water continues to play a larger role in the management of our water portfolios. Recycled Water can come in more than one common "Title 22" form as demonstrated by the West Basin Municipal Water District which is able to produce 5 types of recycled water. Permitting recycled water treatment and distribution has some specific nuisances in addition to common treatment plant practices. Some regulations are still unclear on how to classify recycled water treatment therefore, often toss both drinking water and wastewater regulations at them. This presentation should enlighten attendees to the basic permits required to treat and serve recycled water and include some of the specialty cases as well.

### Session 12B - Environmental, Health & Safety & Partnering with Operators Committee

10:00 AM - 11:00 AM

#### **Touch this BMP!**

Neil McQueen, McQueen Environmental Consulting

Participants will learn about the latest sediment removal and dechlorination BMPs that can be deployed during a range of real drinking water discharges. They'll also become familiar with EPA approved handheld meters for Total Chlorine Residual and Turbidity.

## WEDNESDAY SESSIONS

### Session 12C - Environmental, Health & Safety and Engineering & Construction

1:30 PM - 2:00 PM

#### **California's NPDES Storm Water Construction General Permit**

Russell Hansen, Central Valley Regional Water Board

Participants will learn about the current regulations, how the permit impacts new construction projects and possible future updates to these regulations with a discussion on areas the program could be improved.

2:00 PM - 2:30 PM

#### **Drinking Water System Discharges General Permit**

Renan Jauregui, California State Water Resources Control Board/Division of Water Quality

The National Pollutant Discharge Elimination System (NPDES) Program is a Federal Regulating Program established under the Clean Water Act Section 402. Its main objective is to restore and maintain the chemical, physical, and biological integrity of the nation's waters. The NPDES regulations prohibit the discharge of any pollutant from a point source to US waters unless the discharge is allowed by an NPDES permit. Participants in this session will learn what the NPDES program is, what is an NPDES Permit, why Drinking Water Systems may need the General NPDES Permit, How the General NPDES Permit benefits the Water Systems, what is required and how to comply with the General NPDES Permit.

2:30 PM - 3:00 PM

#### **NPDES in 2016: Are we better off?**

Brandy Hancocks, Golden State Water Company

In 2014, the California State Water Resources Control Board adopted the Statewide General National Pollutant Discharge Elimination System (NPDES) Permit for Discharges from Drinking Water Systems. Looking at 38 drinking water systems spread across 10 counties in California, this presentation will look for the winners and losers under this new permit while providing templates and checklists to ensure your utility is in compliance.

3:30 PM - 4:00 PM

#### **Statewide NPDES Discharge Enrollment For Drinking Water Systems - The Process, and Lessons Learned.**

Kim Gregory, California Water Service

Participants will learn about the process taken by California Water Service to complete enrollment applications to the State Water Resources Control Board for the Company's 57 systems. Discussion will cover what worked well in the enrollment process, as well as lessons learned overall.

4:00 PM - 5:00 PM

#### **Sharing Experiences Implementing the SWRCB Potable Discharge Permit**

Greg Buncab, East Bay Municipal Utility District

Participants will learn about East Bay Municipal Utility District's lessons learned and challenges as they work through the implementation of the SWRCB's potable discharge NPDES permit.

## WEDNESDAY SESSIONS

### Session 13 - Desalination & Water Reuse

8:00 AM - 8:30 AM

#### **Broad Application of Cost Effective ZLD Technology for Concentrate Management**

Brent Alspach, Arcadis

Participants will learn practical information about zero liquid discharge (ZLD) technology, including advantages and disadvantages, as well as an innovative examination of associated costs.

8:30 AM - 9:00 AM

#### **High Salinity Water Desalination Test Protocol for Ocean Water**

Peter Shen, IDE Technologies

Participants will learn about chemical analysis, permitting and operational approaches to manage high salinity concentrate at the Carlsbad Desalination Plant, the largest desalination plant in the western hemisphere as of December 2015

9:00 AM - 9:30 AM

#### **Resilient Water Supply Planning – Going from 100 Ideas to a Staged Water Supply Diversification Plan**

Heidi Luckenbach, City of Santa Cruz and Erin Mackey, Brown and Caldwell

Participants in this session will learn about how engineers can effectively address both technical and non-technical issues related to developing water supply and treatment capital projects with public involvement.

10:30 AM - 11:00 AM

#### **Surrogate Monitoring Performance for Pathogen Removal at the Silicon Valley Advanced Water Purification Center**

Jeannine Larabee, City of Santa Clara

Presentation attendees will learn about the use and research of several different online surrogates in the Silicon Valley Advanced Water Purification Center to detect pathogen breakthrough across microfiltration, reverse osmosis, and ultraviolet light processes. Results showing the sensitivity of each surrogate and the impact on advanced treatment processes and confidence in pathogen removal will be presented.

11:00 AM - 11:30 AM

#### **Big Data – The Use of Statistical Tools and Probability Distribution Functions to Predict DPR Performance**

Austa Parker, Carollo Engineers

Participants in this session will learn about work being performed as part of WaterReuse Research Foundation 14-16. This project focuses on the use of statistical tools to use online monitoring data from plants to understand what failures are occurring, how often they occur, and the extent to which water quality is compromised when a failure occurs. The potential health risks posed by these failures will be quantified.

11:30 AM - 12:00 PM

#### **Making NEWater – Living The Singapore Experience With Recycled Water.**

Melanie Tan, Kennedy/Jenks

Participants in this session will learn about living with recycled water - Melanie Tan grew up in Singapore and was the Plant Manager of the 21.5 MGD Bedok NEWater Factory. She will share her experience on running the facility, and what it feels like to live on a small island nation with recycled water as a major resource.

## WEDNESDAY SESSIONS

### Session 13 - Desalination & Water Reuse (cont'd)

1:30 PM - 2:00 PM

#### **Online THM Instrument Monitors Free Chlorine Use for Potable Reuse Applications**

Rick Bacon, Aqua Meteorology Systems

A case study of the Padre Dam Municipal Water District in Santee, California will be reviewed in the presentation; detailing the benefits of using an online THM monitor to measure DBP formation, aid the utility in evaluating their innovative free chlorine disinfection strategy, and ensuring the safety of potable reuse water produced at an 100,000 gpd Advanced Water Purification Demonstration Project.

2:00 PM - 2:30 PM

#### **A Multipronged Approach Kept Brentwood as a Green Spot in the State of Brown**

Casey Wichert, City of Brentwood

Participants will learn how foresight and planning, coupled with perseverance and adaptability, mitigated the effect of the drought on the quality of life in Brentwood

2:30 PM - 3:00 PM

#### **Development and Use of Numerical Groundwater Models for Recycled Water Planning and Permitting**

Brian Villalobos, Geoscience Support Services

Participants will learn how groundwater models are constructed and used to assess the impacts of adding treated wastewater to the groundwater aquifer through injection, surface spreading, or land application

3:30 PM - 4:00 PM

#### **Recycled Water Funding**

Ginger Bryant, Bryant & Associates and Pilar Quintana, The Onate Group

The presentation will provide an overview of both State and Federal funding assistance for Recycled Water and Desalination Projects and will review current opportunities in addition to those proposed in upcoming propositions and legislation. Also to be discussed are perspectives and thinking behind these potential new funding sources and how this information could help position your project for implementation funding assistance.

4:00 PM - 4:30 PM

#### **Development of a Framework for Direct Potable Reuse**

Jeff Mosher, National Water Research Institute

Participants in this session will learn about guidance for direct potable reuse (DPR). The framework is a starting point for a larger discussion of DPR regulations and addresses the wide range of topics to successfully implement DPR. This effort was funded by WaterReuse, with support from AWWA and WEF.

4:30 PM - 5:00 PM

#### **Operator Certification for Potable Reuse Facilities**

Erin Mackey, Brown and Caldwell

This paper will describe how the CA-NV Section AWWA is working to address the shortfalls in the existing Operator Certification Program and how all the parallel activities among the California PR Expert Panel on Potable Reuse, the DPR Advisory Group, and others must be integrated into the development of the ultimate program.

## WEDNESDAY SESSIONS

### Session 14A

8:00 AM - 8:30 AM

#### **Removal of Fecal Indicator Bacteria from Urban Stormwater Using Biochar Amended Biofilters: Effect of Biological Aging**

Nabiul Afrooz, ReNUWIt/Stanford University

Participants in this session will learn about the effect of natural organic matter and biofilm formation on pathogen removal efficiency of stormwater biofilters. We will discuss various mechanisms responsible for E. coli removal in porous media in light of clean bed filtration theory; quantification of biofilm growth in a stormwater biofilter; and distribution of retained bacteria in a biofiltration unit.

8:30 AM - 9:00 AM

#### **Fungal Degradation of the Urban Use Pesticide Fipronil**

Jordyn Wolfand, ReNUWIt/Stanford University

Participants in this session will learn about ongoing research about the use of white rot fungi to degrade the persistent and prevalent urban-use pesticide, fipronil. We will discuss the use of white rot fungi in remediation, the transformation of fipronil by fungi, and potential applications for stormwater treatment.

9:00 AM - 9:30 AM

#### **Cost-effective Strategies for Recharging Urban Groundwater With Stormwater and Recycled Water**

Negin Ashoori, ReNUWIt/Stanford University

This presentation discusses ongoing research to identify the most cost-effective strategies for recharging urban groundwater using a combination of stormwater and recycled water. We are developing a computational model that can estimate the costs (i.e., funding needs) and benefits (i.e., additional water recharged) associated with connecting recycled water production facilities to stormwater spreading basins. Designing a system to connect recycled water to spreading basins involves many variables and

typically does not have an obvious optimal solution; our model facilitates this design process by estimating the cost-effectiveness of different design scenarios and identifying the most cost-effective strategies. We are applying this model to a case study of Los Angeles to investigate how groundwater recharge with recycled water can be optimally implemented in a semi-arid city.

### Session 14B - Water Well Technology and Government Affairs

10:30 AM - 12:00 PM

#### **Sustainable Groundwater Management Act**

Steven Springhorn, DWR

90 minute panel discussion on the on SGMA -Basin Boundary Revisions, Groundwater Sustainability, Plan Regulations and the State Board Role.

## WEDNESDAY SESSIONS

### Session 15 - Meter Committee

1:30 PM - 3:00 PM

#### **Improving Water System Operations and Customer Service to the End User Through Use of an AMI Deployment. Actual Deployed Systems and Finding Will Be Reviewed**

Rich Sanders, Zenner USA

Participants in this session will learn management of key assets and resources is a critical topic among utility executives. From balancing the load on an electrical grid to managing water supplies, minimizing labor costs and maximizing ROI on infrastructure investments, utilities are actively seeking a smarter approach.

3:30 PM - 4:00 PM

#### **Why are Fixed Networks Challenging to Deploy?**

Michele Harvey, Badger Meter

Participants will learn why radio frequency is important to fixed network device performance, what factors affect radio frequency line-of-site performance as demonstrated with real world scenarios and how utilities can mitigate radio frequency challenges.

4:00 PM - 4:30 PM

#### **How Are Utilities Using Hourly Meter Reads to Find and Resolve Billing Disputes?**

Michele Harvey, Badger Meter

Participants will learn how mobile and fixed network meter reading system provide hourly meter reads to utilities and how utilities are using hourly meter reads to find and resolve billing disputes using actual utility examples.

### Session 16 - Water Treatment

8:00 AM - 8:30 AM

#### **1,2,3-TCP Occurrence, Sources, Regulatory Status, and Cost Recovery Strategies**

Todd Robins, Robins Borghei LLP

Participants in this session will learn everything they need to know about the groundwater contaminant 1,2,3-trichloropropane (TCP), including information about TCP's occurrence, health effects, sources, regulatory status, treatment options and cost-recovery strategies being pursued by dozens of affected utilities in California.

8:30 AM - 9:00 AM

#### **Why Is 1,2,3-Trichloropropane (TCP) So Prevalent In California's Central Valley?**

Ryan Alward, GEI Consultants

Participants will learn about TCP characteristics and hydrogeology of California's Central Valley as it relates to groundwater contamination from soil fumigants containing TCP. Learning outcomes: A better understanding of how California's hydrogeology plays a roll in the spatial distribution of TCP.

9:00 AM - 9:30 AM

#### **Lessons Learned From Full Scale 1,2,3-Trichloropropane (TCP) Treatment**

Stephanie Hearn, GEI Consultants

Participants in this session will learn about intricacies of treating for 1,2,3-trichloropropane (TCP). Full scale treatment systems installed at wells with fairly similar water quality have demonstrated significantly different performance. This presentation will highlight lessons learned from operating these systems.

## WEDNESDAY SESSIONS

### Session 16 - Water Treatment (cont'd)

10:30 AM - 11:00 AM

#### **Enhanced coconut-based carbons for 1,2,3-trichloropropane treatment**

Adam Redding, Evoqua Water Technologies

Participants in this session will learn about the use of enhanced coconut-based carbons for treating 1,2,3-trichloropropane (TCP) and methods for specifying carbons for TCP treatment.

11:00 AM - 11:30 AM

#### **Upgrading 25 Year Old Air-Fed Ozone System to Meet T&O**

Ali Sheikholeslami, East Bay Municipal Utility District

Participants will learn about East Bay Municipal Utility District efforts to upgrade from air-fed to oxygen-fed ozone systems at two of its water treatment plants (WTPs). The discussion will include design and operational challenges, process modifications and improvements, and control strategy changes.

11:30 AM - 12:00 PM

#### **California and Nevada are the Epicenter of Ozone Use in Water Treatment in North America**

Craig Thompson, West Yost Associates

The first use of ozone at a water treatment plant in the United States was in 1940. The use of ozone as part of water treatment has increased significantly since the early 1980s. California and Nevada account for over 40% of the water treatment capacity in the United States that uses ozone. The number and combined capacity of water treatment plants in California and Nevada that use ozone, and the reasons that ozone is part of the treatment process has evolved during the past 30 years. Participants will learn about ozone system trends and reasons that ozone is used to treat a wide range of source water supplies.

1:30 PM - 2:00 PM

#### **A Definitive Demonstration that Pipelines Can Provide Perfect Plug Flow Behavior**

Craig Thompson, West Yost Associates

Participants in this session will learn how a tracer study demonstrated that using a pipeline as a disinfection contactor can achieve perfect plug flow behavior for pipeline length to diameter ratios as low as 16 to 1 and as high as 190 to 1.

2:00 PM - 2:30 PM

#### **Verifying CT Compliance: Tracer Study Results Prove Hydraulic Efficiency of an Annular Raceway Contactor Designed within a Limited Footprint**

Jacquelyn Cho, San Francisco Public Utilities Commission

Participants in this session will learn about the San Francisco Public Utilities Commission's (SFPUC) treated water reservoir design that consists of an annular raceway chlorine contactor constructed around a treated water storage tank, and the tracer study performed to verify the chlorine contactor's hydraulic efficiency.

2:30 PM - 3:00 PM

#### **Chromium VI Treatment Research Update**

Robert Thompson, California Water Service

## WEDNESDAY SESSIONS

### Session 16 - Water Treatment (cont'd)

3:30 PM - 4:00 PM

#### **Building for the Future - California's Lower MCL for Hexavalent Chromium**

Scott Rogers, Indio Water Authority

This presentation will explore compliance planning for the new chromium-6 MCL, management of fast track projects, evaluation of Best Available Technology (BAT), design of ion exchange treatment facilities, coordination with regulators, equipment procurement and importance of construction management and lessons learned from the entire process.

4:00 PM - 4:30 PM

#### **Updating cost and performance for Cr(VI) Treatment Technologies**

Craig Gorman, Corona Environmental Consulting

This presentation will provide a comparative look at the three leading Cr(VI) technologies, with an emphasis on recent process advances that have resulted in the technologies becoming more cost effective. The presentation will describe the site constraints and water quality constituents that have an impact on the treatment performance and residuals management and provide insight that utilities should consider before selecting a treatment strategy. Finally, we will discuss the results and cost implications of side-by-side RCF and SBA-IX pilot testing conducted at a utility in northern California.

4:30 PM - 5:00 PM

#### **Minimizing Waste Brine Production from Ion-Exchange Plants Operated for Cr(VI) Removal from Groundwater**

Issam Najm, WQTS, Inc.

Participants will learn about the feasibility of brine reuse in IX plants to reduce waste brine disposal cost.

### Session 17 - Distribution System Water Quality

8:00 AM - 9:00 AM

#### **Best Practices of Unidirectional Flushing (UDF): Improve Water Quality and Reduce Customer Complaints**

Ramsey Hemaidan, Wachs Water Services/Pure Technologies

Join this audience and explore the essential steps to successfully creating and executing unidirectional flushing programs. Participants will gain new and valuable insight into the process by examining how two UDF programs overcame these challenges and achieved sustainable results.

9:00 AM - 9:30 AM

#### **Point Of Use; Recycle Water By The Homeowner**

Colter Andersen, Zone 7 Water Agency

10:30 AM - 11:30 AM

#### **Water Quality Improvements in Clearlake Using Partnership for Safe Water as a Benchmarking Tool**

Kate Martin, Golden State Water Company

This presentation will describe how the findings from the self-assessments performed have been applied at the Clearlake system to improve and optimize treatment plant and distribution system operations. The presenters will also describe how the changes implemented have improved water quality in the Clearlake system. Learning outcomes will include benefits gained from performing detailed self-assessments as part of the Partnership for Safe Water programs and how the Partnership's performance goals can be used as a benchmark to ultimately improve water quality.

## WEDNESDAY SESSIONS

### Session 17 - Distribution System Water Quality (cont'd)

11:30 AM - 12:00 PM

#### **Important Considerations Prior to Bringing Online a New Source Water**

Benjamin Klayman, Black & Veatch

Case studies will be presented highlighting challenges utilities have faced when integrating new water supplies into existing distribution systems without conducting proper due diligence first. Examples given will highlight both regulatory non-compliance (such as lead and copper rule, disinfection byproduct rule, and total coliform rule violations) issues, aesthetic concerns (such as taste and odor or discolored water, secondary MCL violations), and operational issues (such as excessive scaling).

1:30 PM - 2:00 PM

#### **Spray Aeration**

Guy Schott, State Water Resources Control Board, Division of Drinking Water

With the implementation of the Stage 2 DBP rule, many public water systems are finding it difficult to meet maximum contaminant levels for total trihalomethanes (TTHMs) at compliance monitoring locations. One post-treatment option for reducing TTHMs is spray aeration, in which water is sprayed through nozzles mounted in storage tanks. As water in the storage tank is recirculated through a specialized nozzle, TTHMs are volatilized and vented to atmosphere reducing dissolved TTHMs. Discussions will focus on spray nozzle characteristics, nozzle distance to water surface, tank operating volume, tank turnover and TTHM formation potential for determining the proper spray recirculation rate and air exchange rate for the reduction of TTHMs. Software (Excel) will be demonstrated for simple spray aeration designs incorporating empirical equations based on laboratory research (Journal AWWA, May 2014, Influence of selected variables on trihalomethanes removals by spray aeration).

2:00 PM - 2:30 PM

#### **Open System Aeration**

Kevin Chang, Los Angeles County Waterworks Division

Participants in this session will learn how the efficiency of Trihalomethane (THM) aeration is subject to normal operations in an open system, particularly with the observed distribution system in Palmdale, CA.

2:30 PM - 3:00 PM

#### **Aeration THM Reduction**

Charis Thompson, City of Santa Cruz

Participants will learn that THM mitigation strategies already being implemented or under review for implementation can be aided by the high frequency of rapid and reliable data on THM and THM Formation Potential levels available through online monitors.

### Session 17B - Management Development & Leadership

3:30 PM - 5:00 PM

#### **Women Leaders in the Industry**

Amanda Kimball, University of California at Davis

At this workshop you will hear from the woman who spearheaded the UC Davis census of women directors and highest-paid executives in California. This will be followed by a proaction cafe style discussion that will examine the current state of the industry for women and how to improve it.

## WEDNESDAY SESSIONS

### Session 18 - Research

8:00 AM - 8:30 AM

#### **Premise Plumbing Pathogens**

Jennifer Clancy, Corona Environmental Consulting

Participants in this session will learn about the microorganisms responsible for causing diseases - including Legionnaires' disease - due to degradation of water quality in building plumbing.

8:30 AM - 9:00 AM

#### **Development of a Risk Management Strategy for Legionella**

Mark W. LeChevallier, American Water

Factors contributing to increased risk, as well as best management practices, will be summarized. The results of this project will be invaluable in proactively addressing and mitigating potential risks from Legionella in drinking water and reclaimed water and will benefit water utilities, scientists, and public health regulators.

9:00 AM - 9:30 AM

#### **Legionella Reduction in Buildings after Conversion to Monochloramine**

June Weintraub, San Francisco Department of Public Health

Legionella presence was determined from repeat samples from 53 buildings before and after the municipal water utility switched from chlorine to monochloramine for residual disinfection. The results demonstrate the efficacy of monochloramine in controlling Legionella in hot water systems.

10:30 AM - 11:00 AM

#### **Our SCADA system is secure, right? Wrong**

Daniel Groves and Joel Cox, Arcadis

Participants in this session will learn about the top mistakes utilities make when addressing cyber security and how to avoid them.

11:00 AM - 12:00 PM

#### **Industrial Control System Security**

Curtis Horn, AECOM

We will cover best practices for assessing and limiting risk to industrial control systems. We will also go over fundamental cultural, organizational and business environment barriers to adopting such best practices and potential ways to overcome those barriers.

1:30 PM - 2:00 PM

#### **Removal of Cyanotoxins and MIB with Powdered Activated Carbon (PAC)**

Issam Najm, WQTS

Participants will learn about the effectiveness of different commercial PAC material at removing cyanotoxins and T&O chemicals from water under actual treatment conditions.

2:00 PM - 2:30 PM

#### **Addressing Cyber Security Concerns In The Age of Big Data**

Esteban Azagra, Arcadis

Participants in this section will learn how to implement best practices to fully leverage analytical and decision support tools that are becoming available to the industry, while protecting the IT infrastructure from cyber security risks.

2:30 PM - 3:00 PM

#### **Implementing an On-line Monitoring System**

Brandon Grissom, San Francisco Public Utilities Commission

This discussion will present lessons learned from San Francisco Public Utilities Commission (SFPUC) experience in implementing the SFPUC on-line monitoring system.

## WEDNESDAY SESSIONS

### Session 18 – Research (cont'd)

3:30 PM - 5:00 PM

#### **Automating Water Quality Management Using Cloud Computing**

Neno Duplan and Marian Carr, Locus Technologies

Participants will learn how to automate water quality management workflow process, from sample planning, field sample collection, chain of custody, laboratory management, data validation, EDD loading from the laboratory into a web-based system and reporting. The complete process is automated using cloud-computing.

### Session 19A - Financial Management & Communications

8:00 AM - 9:00 AM

#### **Water Budget Rates: Why & How**

Tom Ash, Inland Empire Utilities Agency

Participants will learn why water budget rates were developed, why they work for the agency and the customer, and what the impact has been for agencies

9:00 AM - 9:30 AM

#### **Educating Customers on Budget Based Tiered Rate Implementation and Individual Water Management"**

Meggan Valencia, Rancho California Water District

Participants will learn from IT and Public Affairs on how they worked together to implement Prop 218 rate structure changes through innovation and technology that enabled their customers to manage their water consumption data at their fingertips.

10:30 AM - 11:00 AM

#### **Managing the Media During Unpopular Large Water Rate Increases**

Damon Micalizzi, Yorba Linda Water District

How a new GM came to the conclusion that water rates must be doubled and the personal and threatening backlash the PIO and others managed from the public and media.

## WEDNESDAY SESSIONS

### Session 19B - Communications

11:00 AM - 11:30 AM

#### **Impact of the Drought on Outreach**

James Maughan, Division of Drinking Water – California

The drought has received extensive media coverage and virtually all California water districts have conducted some sort of outreach effort. Participants will learn from SWRCB representatives and Associated California Water Agencies on how the statewide campaign was developed, funded, coordinated and how this worked in conjunction with Prop 218 efforts throughout the state.

11:30 AM - 12:00 PM

#### **Avoiding the Water Catch 22**

Megan Yoo Schneider, Moulton Niguel Water District

Participants in this session will learn about potential opportunities to promote long-term water conservation and education that benefits the community as a whole. Discover the value of communicating, both internally and externally, to promote healthy long-term water operations and management.

1:30 PM - 2:00 PM

#### **Community Outreach for a New Community Water System**

Brian Shoener, Provost & Pritchard

The residents of a small community (41 residential units) obtain drinking water from private wells. Many of these wells have nitrate concentrations above the drinking water standards. Due to the current drought conditions in the State, at least eight of the private wells have gone dry. Participants will learn about some of the issues involved with keeping a small, rural community updated and informed as they go through the process of transitioning from private wells to a community water system.

2:00 PM - 2:30 PM

#### **Effective Public Engagement in Water Supply Diversification Planning**

Erin D. Mackey, Brown & Caldwell

Like many water agencies across the United States, the City of Santa Cruz, California (City) faces long-term shortfalls in meeting its water supply needs. This relatively small coastal City is home to the University of California, Santa Cruz, a premier research institution and educational hub in the process of expanding its mission and campus, as well as the Santa Cruz Beach Boardwalk, an oceanfront amusement park operating continuously since 1907. The Boardwalk draws in millions of tourists a year. Access to a limited range of water supply alternatives creates a problematic water supply. The recent drought in California has further highlighted the need for a more robust, diversified, drought-tolerant water supply portfolio. Historically, development of potential new supply approaches has been contentious. Santa Cruz has a very active, involved local community, so in beginning the process of planning to diversify its supply portfolio, the City of Santa Cruz developed and implemented a unique community outreach program. This process helped inform and guide the identification and evaluation of a wide range of water supply alternatives with the goal of developing a supply diversification plan that is technically feasible but simultaneously reflects consideration of public concerns, preferences and values.

## WEDNESDAY SESSIONS

### Session 19C - Financial Management

2:30 PM - 3:00 PM

#### **Energy Intensity From the Ground Up**

M. Lorraine White, GEI Consultants, Inc. and Kathleen Ave, Sacramento Municipal Utility District

This presentation presents results of a project that examined the water systems in the Sacramento Region to assess opportunities to reduce greenhouse gas (GHG) emissions for the Sacramento Municipal Utility District (SMUD). Readily available data and agency information was analyzed to determine energy intensities, load profiles and other baseline energy data for water systems in the Sacramento Region. Analyzing the drivers associated with the energy intensities, the study team found numerous opportunities to increase water and energy efficiency in the region lower associated GHGs. SMUD is using this information to leverage funding opportunities and better inform conservation, efficiency, and renewable program investment decisions.

3:30 PM - 4:30 PM

#### **Water Budget-Based Rate Structures in the Wake of San Juan**

Jonathan Cruz and Drew Atwater, Moulton Niguel Water District

How can water utilities ensure their existing rate structures are compliant with the newly clarified Proposition 218 requirements? How does an agency prove compliance? What recourse is there for those agencies who may have been in compliance previously and are no longer compliant under the new ruling? What rate structures are actually permitted? In the wake of the San Juan Capistrano rate case decision, many agencies are left wondering what options they have with regard to Proposition 218 compliance. Further compounding matters is the lack of consensus in public understanding of what the ruling actually stipulates. Given the lack of

consensus, navigating the post-San Juan ruling world can be difficult for agencies, if not impossible, without expert legal counsel. The goal of this presentation is to concisely summarize what rate structure assumptions have been declared legal vs. illegal according to the Superior Court ruling (per the published opinion) and the superior defensibility of a Water Budget-Based Rate Structure as demonstrated by a number of successful examples.

4:30 PM - 5:00 PM

#### **Brown Lawns and the Changing Landscape of California Water Rates: Next Steps?**

Greg Clumpner and Kim Boehler NBS Utility Rate Study Practice

Residential water users in California have responded in a significant, and probably unanticipated fashion to the extended drought and the plea from Governor Brown and local water officials to “conserve, conserve, conserve...”. This presentation will cover some of the “new” (and often amusing) suggestions being discussed in public debates about water rates. We will combine this with the most fundamental and simple rate-making principles that should be guiding the debate in crafting new and improved rate structures.

## WEDNESDAY SESSIONS

### Session 20A - Operator

8:00 AM - 9:30 AM

#### **Operator Roundtable**

Larry Lyford, Helix Water

Operators join to share the issues associated with the water industry. This is where you share your solutions and problems with others who may have already resolved the issues you may be having, This is a panel session made up industry professionals ready to help and share their years of experience gained in the water industry. This is a panel session made up industry professionals ready to help and share their years of experience gained in the water industry. We may discuss supervision, safety, coagulation, filtration, water shed issues, regulations new and revised, water quality and more.

10:30 AM - 11:00 AM

#### **FLASH MIXING, G, It is Important to Operators**

James Samples and Jaime Halter, City of Redding

Learning Outcome: How we diagnosed the problem and ultimately resolved the flash mixer issue to ensure Tilte 22, 64659 Reliability requirements are met. i.e. Standby replacement equipment available to assure continuous operation and control of unit process for coagulation, flocculation, and disinfection.

11:00 AM - 12:00 PM

#### **The First Line of Defense: Operator Tools and Resources for Watershed Spills**

Elissa Callman, City of Sacramento Department of Utilities

Participants will learn about valuable tools and resources for operators for protecting water treatment plants from hazardous spills in the upstream watersheds. This includes sharing about important internet links, examples of useful resources that can be developed, and operator training.

### Session 20B - Engineering & Construction

1:30 PM - 2:30 PM

#### **Constructing the Highest Pressure Tunnel in the World To Maintain Drinking Water Supply For 42 Million People**

Noah Hoefs, Southern Nevada Water Authority

What are the obstacles of tunneling under a lake? Come learn about Southern Nevada's challenges during construction of their Intake No. 3. Including a TBM drive through weak and highly fractured rock at 13.5 bars of pressure (a world record), the construction and placement of the intake structure under 250 feet of water, and driving the TBM into the intake structure.

2:30 PM - 3:00 PM

#### **Constructing Large Diameter Pipelines under Challenging Seismic Conditions**

Deborah Russell, Kennedy Jenks and Heather Manders, San Francisco Public Utilities Commission

Participants in this session will learn lessons from the construction of large-diameter pipelines under seismically challenging conditions. Design included unique solutions developed to withstand significant seismic loading. Construction challenges included routing through neighborhoods, construction during extreme rain events, and more.

3:30 PM - 4:00 PM

#### **Converting an Open Channel to a Pipeline to Reduce Water Losses Up To 50%**

Vance Cave, Kennedy Jenks and Erik Christeson, Amador Water Agency

Come learn how one agency came up with a solution to recover up to 50% of their water losses in a conveyance system by looked hard at opportunities to save water and finding one in the conversion of an existing 1870's water conveyance canal to a pipeline.

## WEDNESDAY SESSIONS

### Session 20B - Engineering & Construction – (cont'd)

4:00 PM - 4:30 PM

#### **Risk-Based Pipeline Replacement Candidate Selection**

Tara Sweet, East Bay Municipal Utility District

Starting in 2016 East Bay Municipal Utility District is taking a new approach to pipeline replacement candidate selection. We're saying so long to our cost-based algorithm and ushering in a new risk-based model coupled with better communication between Maintenance and Engineering.

4:30 PM - 5:00 PM

#### **The Journey, not the Destination: A Collaborative Approach to Pump Station Management**

Courtney Hall, West Yost & Associates

Participants will learn how a collaborative approach to pump station management can be used to develop a long-term rehab/replacement program. We will discuss which factors were used to develop a program for the City of Fairfield potable and raw water pump stations and how this can be applied to their own systems.

### Session 21 - Asset Management

8:00 AM - 9:00 AM

#### **Asset Management 101: Anatomy of an Asset Management Plan**

Gregory Baird, Aging Water Infrastructure

9:00 AM - 9:30 AM

#### **Water Distribution Asset Management Approach to Valves and Hydrants**

Ramsey Hemaidan, Pure Technologies, Ltd.

In this presentation we will share the proactive steps taken by some utilities to kick start their renewal program by teaming with experts in distribution system asset assessment and inventory. These programs produce immediate results by identifying gaps in system information and began the important process of documenting assets throughout the distribution system and improving operational intelligence. While this program is a "kick-start", and delivers meaningful, real results, the end game is to put in place, processes that will result in predictable and dependable system performance; a program that is well-defined, focused and will make a difference via real action - by DOING, rather than just studying the problem.

10:30 AM - 11:00 AM

#### **Asset Management - Ventura Regional Project**

Kurtis Warne, SEMS Technologies

Participants in this session will learn about the benefits Ventura Regional saw by implementing an asset management program. We will be discussing the improved accuracy they saw using mobile devices due to no longer having to rely on the operators memory to update them at the end of the day. They were able to automate their maintenance scheduling/planning of equipment. Lastly, we will be talking about how they were able to cut down on their rework due being able to know if the work actually got done or just "think" it got done, which in return they saw a reduction in there of work time.

## WEDNESDAY SESSIONS

11:00 AM - 12:00 PM

### **Solving Asset Management Challenges - The Significance of the Right of Way Profession in Asset Management Programs**

Fred W. Clark, Sr., Clark Land Resources, Inc.

Participants in this session will learn the importance of right of way in asset management for drinking water, waste water and other infrastructures. We will explain the variety of ways that right of way professionals can help facilitate the successful completion of public and private projects.

1:30 PM - 2:00 PM

### **Asset Management - Life Cycle**

Kurtis Warne, SEMS Technologies

Participants in this session will learn the definition of life-cycle and about each stage an assets/equipment goes through from procurement to retirement/disposal. Also, we will look at how we can make better purchasing decisions based on these life-cycle stages such as: when a particular asset is about to retire/expire, and preparing for replacement of the asset, or setting up ways to manage/support the asset with proper maintenance.

2:00 PM - 3:00 PM

### **Fitness For Continued Service: A Risk Management Approach To Assessing Corrosion Risk And Prioritizing Infrastructure Improvement**

Jeff Knauer, PE, Corrpro

Understanding the long-term effects of environmental and site-specific exposure factors on infrastructure integrity provides for the development of a consistent, system-wide evaluation and classification standard of an infrastructure risk factor associated with external corrosion. A number of non-destructive testing techniques can be leveraged to collect and consolidate data in order to facilitate decision making with respect to budgeting and planning for future repairs and/or replacements. Participants in this session will learn non-destructive

data collection and risk ranking techniques used to assess infrastructure fitness for continued service.

3:30 PM - 4:00 PM

### **Reactive to Active - Bringing Real-time Monitoring to the Heart of Water Utility Operations and Asset Management**

Cliff Jones, Syrinix

Participants in this session will learn how to use smart technologies as part of their operations, engineering and asset management tool box.

4:30 PM - 5:00 PM

### **San Jose Water Company Pipeline Consequence of Failure Methodology, Analysis, and Results**

Andy Yang, San Jose Water Company

Participants will learn how San Jose Water Company formulated a customized pipeline consequence of failure methodology using cutting edge hydraulic modeling and GIS spatial analysis tools to successfully obtain a pipeline criticality score for every pipe segment in its 2,400 mile long distribution system.

## THURSDAY SESSIONS

### Session 22 - Water Well Technology

8:00 AM - 8:30 AM

#### **Drilling Fluid Basics**

Ron Peterson, Halliburton

Participants will learn about the role of drilling additives in the construction of a water-supply well using reverse rotary drilling methods, how they might influence well development, yield, and efficiency, and why planning for potential use of additives is important.

8:30 AM - 9:00 AM

#### **Drilling Fluids from an Owner/Consultant Perspective**

Larry Ernst, Wood Rodgers

This talk will illustrate case histories to highlight properly designed and executed programs and well projects that have not been successful due to poorly executed drilling fluids programs. The intent of this talk is to help the participants with their future well projects.

9:00 AM - 9:30 AM

#### **Chemicals during Development to Address Fluids and Additives Used During Drilling**

Edd Schofield, Johnson Screens

10:00 AM - 10:30 AM

#### **Clean Water Act Coverage for Discharges from Supply Well Development/Rehabilitation**

Diana Messina, State Water Resources Control Board

Participants in this session will learn about Clean Water Act requirements and the new statewide permit that provides streamlined regulatory coverage of discharges from supply well development/rehabilitation projects to municipal storm drains and/or surface waters.

10:30 AM - 11:00 AM

#### **Water Well Game Changing Research: Chemical Rehabilitation**

Todd Eden, Herc Chem Tech

11:00 AM - 11:30 AM

#### **Water Well Asset Management**

Kevin Barnes, Utility Service Group

Properly designed water well asset management programs offer a more sustainable alternative to this traditional operational approach. An effective well asset management program can maintain an established production rate, consistent water quality and overall lower pumping costs over the life of the well while extending the useful service life

### Session 23 - Environmental, Health & Safety

8:00 AM - 8:30 AM

#### **Don't get Caught "Out of Compliance" on a Multi-Employer Worksite!**

Alexander Williams, California Water Service

"Multi-employer worksites with regards to OSHA/General Order compliance" The overview will allow attendees to understand the what, how and when of a multi-employer worksite. The examples of real cases involving multi-employer worksites receiving citations and what could have been done to prevent such cases.

8:30 AM - 9:00 AM

#### **Cal/OSHA Regulatory Update**

David Gee, Cal/OSHA Consultation Unit

Despite the numerous Occupational Safety and Health Laws that are already on the books, the regulatory landscape is always constantly changing with new laws added every month. This module will provide the attendee with an update and a basic understanding as to newly enacted safety and health regulations that affect members of the association.

## THURSDAY SESSIONS

### Session 23 - Environmental, Health & Safety (cont'd)

9:00 AM - 9:30 AM

#### **Trenching and Excavation Safety**

David Gee, Cal/OSHA Consultation Unit

Trenching and Excavation accidents and near misses rank amongst the top activities amongst construction where injuries and fatalities occur next to falls from elevated work areas and struck by equipment & materials. Trench safety is often one of the most overlooked, in terms of safety, in both private industries and self-performed government work. Learn how Cal/OSHA's requirement can help eliminate potential cave-ins and unexpected injuries that would lead to hidden costs and down time in your organization.

### Session 24 – Security & Emergency Planning

8:00 AM - 12:00 PM

#### **CalWARN Annual Meeting**

In coordination and support from the California – Nevada Section of AWWA and the California and Nevada Water/Wastewater Agency Response Networks, we would like to invite you to the 2016 Spring WARN Meeting and Exercise: CalWARN - Back to Basics! The agenda for CA and NV WARN Meeting is as follows: What's in an Agreement? WARN and Other Mutual Aid Agreements; Legal Gaps and Bridges in Mutual Aid Agreements; Disaster Dujour – What Have We Learned Recently?

### Session 25 - Water Treatment

8:00 AM - 8:30 AM

#### **Spinning Into Control: New 360 mgd Solids Handling Facilities for The City of Sacramento**

Thomas Gillogly, Carollo Engineers, Inc.

This presentation will review the previous solids handling systems, the challenges of the previous process to handle peak solids production events, and the development of the new handling system. Also reviewed will be the strategies to repurpose the existing solids lagoons to reduce the size of the centrifuge facilities and cost of the new systems by approximately \$45 million. The presentation will also highlight some of the construction and startup challenges and provide some operational observations associated with the new systems.

8:30 AM - 9:00 AM

#### **Sulfuric and Phosphoric and Citric, Oh My! - Neutralizing and Recycling Membrane Waste Cleaning Solutions**

Katie Belluomini, Carollo Engineers, Inc.

This presentation will discuss the challenges with neutralizing waste cleaning solutions. It will also discuss the automated batch treatment process that is used to easily neutralize the cleaning solutions and allow operators to keep up with the busy cleaning schedule.

9:00 AM - 9:30 AM

#### **San Juan Water District's Collaboration for Much Needed Floc/Sed Basin Improvements**

Tim Williams, Kennedy/Jenks Consultants

Participants will learn how San Juan Water District's operations, engineering and management collaborated to select the most optimal cost-effective improvements to replace 40+ year old flocculation and sedimentation process equipment at the 150 MGD Water Treatment Plant.

## THURSDAY SESSIONS

### Session 25 - Water Treatment (cont'd)

10:00 AM - 10:30 AM

#### **Dissolved Air Flotation Implementation for Pretreatment at Clear Lake**

Joe Ziemann, Water Works Engineers

Participants in this session will learn how Dissolved Air Flotation (DAF) clarification can be used for the effective pretreatment of algae-laden source waters and how the individual components of the system can be adapted to varying source waters and potable water treatment facilities.

### Session 26 - Research

10:30 AM - 11:00 AM

#### **Nitrate Treatment for Underprivileged Communities**

Dianna Jensen and Mike Waite, Ionex SG LLC

Participants in this session will learn about current work being done with underprivileged communities to treat nitrates in their groundwater with an affordable and sustainable project.

11:00 AM - 11:30 AM

#### **Mid-Century Climate Change Impacts on Water Supply to Southern California**

Brianna R. Pagan, University of California, Los Angeles

Participants in this session will learn about the most recent high resolution climate change projections and implications on water resources in the Western United States.

11:30 AM - 12:00 PM

#### **Driving the costs for Cr(vi) compliance down - process improvements explained**

Mike Waite, Ionex SG LLC

Over the last five years, we have been refining ion exchange treatment for Cr(VI) removal. This presentation will guide participants through the process improvement benefits and discuss the relevance of these to other emerging contaminants of concern.

### Session 27 - New Technologies

10:00 AM - 10:30 AM

#### **Three SCADA technologies that won't break the bank**

Henry Palechek, Helix Water District

The drought and the associated water conservation has placed significant economic pressure on water utilities. This presentation will look at how newer technologies can be phased in to an existing SCADA system providing for a more powerful, open and cost effective solution than ever before. The phasing in of technology mitigates risk and spreads the cost over time. Examples will be shown of how both large and small water districts are doing this type of newer technology deployment.

10:30 AM - 11:00 AM

#### **A Location Platform That Helps You Save Water**

Suzanne Timani, ESRI

Conserving water in California is a strategic priority for all water utilities. Yet conservation is complex. To conserve water in an appreciable way, your utility must focus on increasing water efficiency & reducing customer demand. Map-based visuals, spatial analytics, & collaboration capabilities help you deploy proven workflows, templates, & applications that save water. Such as: Improve Water Conservation; Reduce Water Loss; Proactively Optimize Field Operations; Manage Conservation through Reporting.

## THURSDAY SESSIONS

### Session 28 - Distribution System Water Quality

8:00 AM - 9:00 AM

#### **No Discharge flushing trucks and setting up a program to use them.**

Susan K Willis, San Jose Water Company

Participants in this session will learn about implementation challenges and successes of a mobile closed-loop main flushing system in San Jose, CA

### Session 29 - Engineering & Construction

9:00 AM - 9:30 AM

#### **Make Difficult Spot Repairs Using Composite Pipe Wrap**

Michael Hether, City of Napa

What do you do when you must make a spot repair to a thin-walled pipeline, but do not have enough wall thickness for welding? Come learn about City of Napa's experience using an alternative method, composite wrap, to make timely repairs.

10:00 AM - 10:30 AM

#### **Building a Pre-stressed Concrete Water Tank on California's Coast: Not as Easy as it Sounds** Quanxin (Nina) Mao, SRT Consultants

Come hear about the challenges in permitting, design, and construction of a 0.5 MG pre-stressed concrete water tank on the coast of northern California. Challenges included working with the California Coastal Commission, the project site being on a local ridge, working in an endangered species habitat area, and others.

### Session 29 - Engineering & Construction (cont'd)

10:30 AM - 11:30 AM

#### **Constructing the Highest Pressure Tunnel in the World To Maintain Drinking Water Supply For 42 Million People**

Noah Hoefs, Southern Nevada Water Authority

What are the obstacles of tunneling under a lake? Come learn about Southern Nevada's challenges during construction of their Intake No. 3. Including a TBM drive through weak and highly fractured rock at 13.5 bars of pressure (a world record), the construction and placement of the intake structure under 250 feet of water, and driving the TBM into the intake structure.

### Session 30 - Meter Committee

8:00 AM - 9:00 AM

#### **Water Loss Control, impacting your Non-Revenue Water through Large Meter Evaluation, Testing and Calibration**

Michael Simpson, M.E. Simpson Co., Inc.

An in depth exploration of the techniques of large meter evaluation, testing and calibration from an in the field, technical perspective as well as providing knowledge and information about the specific steps in calibration/repair of large meters.

9:00 AM - 9:30 AM

#### **East & West Coasts Go With the Flow-NYC & LADWP Large Meter Customer Profiling for Meter Selection Decision Making**

Kenneth Molli, Veolia North America

Better meter application decision can improve revenues and reduce future capital and operating costs. Learn how NYC Department of Environmental Protection and LA Department of Water & Power are using customer profiling techniques to improve application and meter management decisions.

## THURSDAY SESSIONS

### Session 30 - Meter Committee (cont'd)

10:00 AM - 10:30 AM

#### **Analysis of Water Losses**

Mark Carey, MC Engineering

Participants in this session will learn how to reduce Real and Apparent Losses within their water system and minimize non-revenue water.

### Session 31 - Backflow Committee

8:00 AM - 9:30 AM

#### **RP/DC operations and troubleshooting**

Sean Perry, Watts Water Technologies

This presentation will discuss the basic hydraulics of two types of backflow preventer assemblies. Reduced pressure principal and double check assemblies with a brief review of how detector assemblies work. Basic definitions related to backflow prevention and testing will be reviewed. Through the understanding of the hydraulics of backflow you will be able to leave this presentation with a better understanding of how they work and how to troubleshoot them.

10:00 AM - 10:30 AM

#### **A Day in the Life of a Backflow Tester**

Ben Bennett, Backflow Prevention Specialists, Inc.

There is a lot more to backflow assembly testing than just testing backflow assemblies. Administrative Authorities, employers, and customer expectations all must be met. Take a journey through a day in the life of a backflow assembly tester and see what is really expected from them on a daily basis after they receive their tester certification.

10:30 AM - 11:00 AM

#### **Navigating the Complexities of Recycled Water Use Site Requirements**

Thomas Deeds, City Of San Diego Public Utilities Department

Participants will be able to locate and put into effect the appropriate rules and regulations for specific recycled water uses such as irrigation, cooling towers, and dual plumbing, including engineering reports. We will also discuss customer transition solutions.

11:00 AM - 11:30 AM

#### **Recycled Water Shutdown Test Procedures/Issues**

Ben Bennett, Backflow Prevention Specialists

Recycled water services are being installed and put into use faster than ever. Discussion will review some of the procedures being used and some of the issues facing Cross Connection Specialists performing these inspections.

11:30 AM - 12:00 PM

#### **Backflow Hot Topics - Panel Discussion**

Ben Bennett, Backflow Prevention Specialists, Inc. Sean Perry, Watts Water Technologies Dan Scott, Backflow Technologies, Brad Scott, Backflow Technologies

Open discussion on current backflow industry and operation issues/concerns.

## THURSDAY SESSIONS

### Session 33 - Materials Performance

8:00 AM - 9:00 AM

#### **Carbon Fiber Reinforced Polymer in the Water Industry**

Steve Behrens, Composites Engineering & Design

Participants will learn about carbon fiber reinforced polymers(CFRP) and the evolution from a classified military asset to the use of CFRP to structurally strengthen PCCP, RCP, tanks, reservoirs, and other infrastructure.

9:00 AM - 9:30 AM

#### **The Value of Comprehensive Leak Detection: An Innovative Approach to Reducing Real Water Loss**

Ramsey Hemaïdan, Wachs Water Services/Pure Technologies

Participants will learn how implementing a comprehensive leak detection program and asset inventory process to identify and then remediate leaks on both large and small diameter mains can benefit their utility

## THURSDAY SESSIONS

### Session 33B - Pipeline Rehabilitation

10:00 AM - 10:30 AM

#### **Water Main Rehabilitation in American Canyon using Pipe Bursting**

George Mallakis, TT Technologies, Inc.

Attendees of this presentation will learn about the decision making process for pipeline rehabilitation that the City of American Canyon CA went through, as well as a review of construction sequencing, pipe material selection, and lessons learned.

10:30 AM - 11:00 AM

#### **Remediation of a 72" Drinking Water Line Coated with Asbestos**

Darrell Wagoner, The Trenton Corporation

Examining the factors that must be applied when making coatings decisions: Ease of Preparation, Ease of Application, Environmental Concerns, Total Cost and Performance of Material

11:00 AM - 11:30 AM

#### **Bypass Pumping**

Benjamin King, Rain for Rent

Participants will learn how to set up a safe, efficient bypass pumping. The workshop includes flow calculation and latest technology in temporary liquid handling.



OCCUPATION CODES (please check one):  WTR Water Utility  CTR Contractor  CNS Consultant  MFG Manufacturer  REF Manufacturer's Representative

STU Student  OPR Water Operator  DIS Distributor  EDU Educator  RES Research Laboratory  FED Federal Government  STA State Government

I am a speaker at this conference. Date \_\_\_\_\_ Time \_\_\_\_\_

Name (how you would like it to appear on your badge) \_\_\_\_\_

Title \_\_\_\_\_ Company \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Cell \_\_\_\_\_ Fax \_\_\_\_\_

Attendee Email \_\_\_\_\_ AWWA Member # \_\_\_\_\_

Type of Membership (check one)  Individual  Organization  Operator/Admin.  Utility  I am a CWEA/WateReuse Member\*(same rate as CA-NV AWWA Member)

Complimentary Spouse/Guest (If attending) \*Household members only. Does not include Water Industry Personnel. \_\_\_\_\_

Member Registration Fees	EARLY	PRE	ONSITE	Subtotals
	On or Before 2 / 12/ 16	On or Before 3 / 14/ 16	On or After 3 / 15/ 16	
<input type="checkbox"/> FULL REGISTRATION: Includes Volunteer Recognition Luncheon Competitions Lunch & Two Drink Tickets for Exhibitor Reception	\$445	\$495	\$545	\$ _____
<input type="checkbox"/> Tuesday One-Day : Includes Volunteer Recognition Lunch & Two Drink Tickets for Exhibitor Reception	\$225	\$275	\$315	\$ _____
<input type="checkbox"/> Wednesday One-Day : Includes Competitions Lunch & Exhibit Hall Entrance	\$225	\$275	\$315	\$ _____
<input type="checkbox"/> EDUCATION PACKAGE Wednesday/Thursday Includes Technical Sessions & Exhibit Hall Entrance	\$225 No Meals	\$275 No Meals	\$315 No Meals	\$ _____
<input type="checkbox"/> Thursday One-Day Includes Technical Sessions	\$149	\$149	\$149	\$ _____
<input type="checkbox"/> STUDENT - Must be full time Student/AWWA Student Member	FREE	FREE	FREE	\$ _____
<input type="checkbox"/> RETIREE REGISTRATION - Must be: 1) Retired from all gainful employment. 2) A member of AWWA for at least 15 years. 3) At least 60 years of age.	FREE No Meals	FREE No Meals	FREE No Meals	\$ FREE

**Lunches**

If not included with registration fee

Volunteer Luncheon ..... \$50

Competition Lunch ..... \$50

Subtotal \$ \_\_\_\_\_

**SPECIAL EVENTS**

Tues. Technical Tour ..... \$45

Wed. Technical Tour ..... \$45

Subtotal \$ \_\_\_\_\_

Regular Registration Fees (Non-Member Rates)	EARLY	PRE	ONSITE	Subtotals
	On or Before 2 / 12/ 16	On or Before 3 / 14/ 16	On or After 3 / 15/ 16	
<input type="checkbox"/> FULL REGISTRATION: Includes Volunteer Recognition Luncheon Competitions Lunch & Two Drink Tickets for Exhibitor Reception	\$495	\$545	\$595	\$ _____
<input type="checkbox"/> Tuesday One-Day : Includes Volunteer Recognition Lunch & Two Drink Tickets for Exhibitor Reception	\$275	\$325	\$375	\$ _____
<input type="checkbox"/> Wednesday One-Day : Includes Competitions Lunch & Exhibit Hall Entrance	\$275	\$325	\$375	\$ _____
<input type="checkbox"/> EDUCATION PACKAGE Wednesday/Thursday Includes Technical Sessions & Exhibit Hall Entrance	\$275 No Meals	\$325 No Meals	\$375 No Meals	\$ _____
<input type="checkbox"/> Thursday One-Day Includes Technical Sessions	\$149	\$149	\$149	\$ _____

**CONTACT HOURS**

FREE  
 (I am an individual, operator or administrative AWWA member)

\$20.00  
 (My utility/organization is an AWWA member or I am not an AWWA member)

**PAYMENT METHOD**

Check # \_\_\_\_\_ Payable to CA-NV AWWA (U.S. funds)

PO# \_\_\_\_\_ Must be accompanied by a physical copy of the PO

Credit Card:  Visa  MC  AMEX

Card No.: \_\_\_\_\_

Exp. Date: \_\_\_\_\_

Name on Card: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

Billing Zip Code: \_\_\_\_\_  
 Must be Zip Code in which your credit card statement is mailed

For copy of receipt, please write email address: \_\_\_\_\_

**PAYMENT INFORMATION**

Registration Total: \_\_\_\_\_ Special Events Total: \_\_\_\_\_

Meal Total: \_\_\_\_\_ Contact Hours: \_\_\_\_\_

Total Amount Due: \_\_\_\_\_

Refund requests must be submitted in writing to the Section office by March 1, 2016  
 NO Refunds granted after March 1, 2016. By submitting this form, you are consenting to having your photo taken at the event which may be used for future Section promotions. A \$50 administrative fee will be deducted from all refunds

PAYMENT & MAILING ADDRESS  
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## EDUCATIONAL TRACKS

Join more than 2,200 practitioners, providers and presenters at the California HR Conference® by Professionals In Human Resources Association.

Attendees are able to earn SHRM Professional Development Credits and HR Certification Institute (HRCI) Strategic Business Management, California, Global and General recertification credits. The concurrent sessions are presented by skilled and experienced speakers in Employment Law & Legislation, Business Management & Strategy, Talent Management, International HR, Diversity & Inclusion, Benefits & Compensation, and Personal & Leadership Development, as well as General HR.

Session details will be available in the session directory in June.

Organize your learning opportunities by track! Sessions that are specific to a particular topics will fall into one of the following tracks:

### EMPLOYMENT LAW & LEGISLATION

Constantly changing labor laws. Increasingly tougher privacy rules. New developments in federal policy. It's never been more important to keep pace with the latest HR laws and legislation. Help protect your company from liability and avoid legal risk before it arises by staying current with the latest changes in labor legislation. We offer a broad range of sessions presented by some of the top legal minds in the country. From federal legislative compliance, to HR legal issues specific to California, we help you stay on top of today's legislative priorities.

- Compliance
- California-Specific HR
- Legislative Update

## **BUSINESS ACUMEN & HR STRATEGY**

Strategic planning. Innovation. Business competencies. This conference track has them all. Today more than ever, companies rely on HR to play a key role in creating sound strategies to achieve their objectives. Here, you can learn from leading experts how to build a roadmap to your goals. Discover how strategic planning can maximize employee performance and create business value. Learn how to support your business case, measure results and gain buy-in from your C-suite. The focus areas are:

- Strategic Alignment
- Business Competencies
- Innovation
- Measurement

## **TALENT ACQUISITION & RETENTION**

Talent. Your company's greatest asset. HR's greatest challenge. One of the biggest challenges companies continue to face is retaining their best talent. Leading experts will share best practices during these sessions — so you can create an environment where your best people will thrive. Learn how to attract, recruit, manage and inspire A-list employees who can move your organization forward. Discover how to handle the most difficult HR situations with ease and engage employees to increase morale, productivity and retention. See how you can leverage the latest technology and techniques to find, train and retain the best workforce possible. The focus areas are:

- Recruiting & New Media
- Communication Strategies
- Engagement & Morale
- Workforce Planning

## **GLOBAL HR**

As the global market expands, so does the role of HR. In a global economy, where organizations and employees span countries and continents, keeping pace with international HR issues is not just important: it's ESSENTIAL. Today's HR leaders need to have a global mindset and understand how cross-cultural issues can impact their business. Experts from around the globe join us in Anaheim to share their ideas, experiences and successful practices. From managing diverse teams to communicating across the world to recruiting and cultivating foreign talent, you will learn how to leverage the strengths and overcome the challenges of an international workforce. The focus areas are:

- Global Compliance
- Global Talent Management
- Cross-Cultural Insights

## **DIVERSITY & INCLUSION**

Successful organizations need culturally competent employees who can cross borders and navigate different cultures. D&I strategies and tactics must be job-relevant, skills-specific, and assist team members in understanding current workforce and marketplace realities. Designed for HR professionals who want to increase their credibility in their organizations, are willing to be bold and deal with tough issues, and want comprehensive strategies for D&I success.

- Generational Differences
- Cross-Cultural Communication
- Unconscious Bias

## **TOTAL REWARDS**

Total rewards packages can attract and retain top talent. Or drive it away. As the economy recovers, benefits and compensation packages must keep pace. Yet health care and other costs are rising. So how do you compete without crossing the line from black into the red? From plan design to cost containment, learn how to leverage total rewards to achieve superior organizational performance. Leading experts will teach you how to implement sustainable rewards strategies — to remain competitive and increase employee satisfaction while steering clear of common issues that can get you and your company into trouble. The focus areas are:

- Employee Benefits
- Total Compensation
- Health Care
- Wellness

## **PERSONAL & LEADERSHIP DEVELOPMENT**

Today's HR leaders are strategic counselors who must be prepared for what's next. That means having the right set of tools, skills and traits to be an exceptional leader. Even the most experienced HR professionals benefit from continued skill development. This track will give you the opportunity to learn from experts on leadership, recertification, career advancement, and more. So whether your goals center on cultivating your company's employees or taking your own career to the next level, these sessions can help you achieve them. The focus areas are:

- Leadership
- Career Development
- Skill Enhancement

## **GENERAL SESSIONS**

The General Sessions track is a catch-all for fundamental concepts, such as recruiting, retention, and risk management, that do not specifically align with one of the existing tracks. These sessions will offer a broad overview of core competencies ideal for junior HR practitioners, or as a refresher course for more senior staff.