

CRESCENTA VALLEY WATER DISTRICT

**2700 Foothill Boulevard
La Crescenta, California**

**Agenda for the
Adjourned Regular Meeting of the Board of Directors
of the Crescenta Valley Water District
to be held on March 18, 2014 at 7:00 p.m.**

Posted: March 14, 2014 at 3:00 p.m.

Any written materials distributed to the Board in connection with this agenda will be made available at the same time for public inspection at the District office located at the above address.

Call to Order and Determination of Quorum

Pledge of Allegiance

Adoption of Agenda

Public Comments

At this time the public shall have an opportunity to comment on any non-agenda item relevant to the subject matter jurisdiction of the Board. This opportunity is non-transferable and speakers are limited to one three (3) minute comment.

Foothill Municipal Water District Report

1. Report on activities at Foothill Municipal Water District.

Consent Calendar

1. Consideration and approval of Minutes of the Regular Meeting March 4, 2014.
2. Ratification of Disbursements for February 2014.
3. Consideration for attendance at the Water Education Foundation Executive Briefing and retirement celebration for Rita Sudman to be held March 26-27, 2014 in Sacramento, CA.

Action Calendar

The public shall have an opportunity to comment on any action item as each item is considered by the Board prior to action being taken. This opportunity is non-transferable and speakers are limited to one two (2) minute comment.

1. **Discussion on the Development of District Policy Concerning Cell Towers on District Properties** – Discussion updating the development of District policy regarding cell towers on District properties.
2. **14-Inch Water Main Replacement on the 3800 Block of Honolulu - Project E-937** – Consideration and motion to award a contract to Brkich Construction for the construction of 390 lineal feet of pipeline replacement on the 3800 Block of Honolulu Avenue at a cost of \$56,050, establish a contingency amount of \$5,600 (10% of contract) to cover the cost of unforeseen or additional work and to find said project exempt from the provisions of the California Environmental Quality Act (CEQA).
3. **Discussion of Preliminary Water and Wastewater Budgets FY 2014/15** – Discussion of the preliminary water and wastewater budgets for FY 2014/15.

Information Items

Written Communications to District

Staff Reports

Secretary-Treasurer

1. Cash and Investments –March 18, 2014.

General Manager

1. Administrative Report.

District Engineer

1. Water Production Report –March 1 – 16, 2014.
2. Report on Administrative and Field Operations.

Program Specialist

1. Report on Water Conservation issues.

Information Technology

1. Report of Information Technology issues.

Attorney

1. Report on legal and related matters relevant to the District.

Reports of Committees

Engineering Committee

1. Consideration of engineering issues affecting the District.

Finance Committee

1. Report of Finance Committee meeting held on March 14, 2014.

Employee Relations Committee

1. Consideration of employee relations issues affecting the District.

Policy Committee

1. Consideration of policy issues affecting the District.

Community Relations/Water Conservation Committee

1. Consideration of Community Relations/Water Conservation Committee.

Emergency Planning Committee

1. Consideration of emergency planning issues affecting the District.

Director's Oral Reports

Report on issues, meetings, or activities attended by Directors.

Closed Session

- **Conference with Labor Negotiators (§54957.6)**
 - District negotiators: Dennis Erdman and Ron Mitchell
- **Conference with Legal Counsel**
 - Initiation of litigation pursuant to paragraph (4) of subdivision (d) of Section 54956.9: One case.

Board Members' Request for Future Agenda Items

Adjournment

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CRESCENTA VALLEY WATER DISTRICT REGULAR MEETING, BOARD OF DIRECTORS

March 4, 2014

Pursuant to the order of the Board of Directors of the Crescenta Valley Water District, made at the Adjourned Regular Meeting of February 18, 2014, a Regular Meeting was held on March 4, 2014, at 7:00 p.m. at the District office at 2700 Foothill Blvd., La Crescenta, California, with President James D. Bodnar presiding.

At roll call, the following Directors and staff members were present:

Directors:	James D. Bodnar Kerry D. Erickson Kenneth R. Putnam Kathleen M. Ross Judy L. Tejeda
Attorney:	Roland Trinh
General Manager:	Dennis A. Erdman
Secretary-Treasurer:	Ron L. Mitchell
District Engineer:	David S. Gould
Others Present:	Mark Hass, IT Manager Wendy Holloway, Customer Accounts Supervisor Larry Byers, Plant Superintendent Dennis Maxwell, Maintenance Supervisor

PLEDGE OF ALLEGIANCE

President Bodnar opened the meeting by asking Director Putnam to lead the Board and staff in reciting the Pledge of Allegiance.

ADOPTION OF AGENDA

It was moved by Director Tejeda, seconded by Director Ross and carried by a 5-0 vote that the Agenda for the Regular Meeting of March 4, 2014 be adopted as presented.

PUBLIC COMMENT – Marti Marshall from Crescenta Commons came to thank the Board for providing water for the Boy Scout project that will begin on March 9, 2014 and should be completed by March 23, 2014.

FOOTHILL MUNICIPAL WATER DISTRICT REPORT – Mr. Erdman reported that FMWD made a presentation regarding the drought to the La Canada City Council on March 3, 2014, and has been invited to make the same presentation at the CVTC meeting and has offered CVWD to do a joint presentation at the March 20, 2014 meeting.

CONSENT CALENDAR

It was moved by Director Ross, seconded by Director Tejeda and carried by a 5-0 vote to approve the Minutes of the Adjourned Regular Board Meeting held on February 18, 2014.

Authorize attendance by members of the Board and staff at the ACWA Spring Conference to be held May 6-9, 2014 in Monterey, CA. Director Tejeda and Director Erickson said that they would like to attend.

ACTION CALENDAR

Nominations for LAFCO Special District Representative and Alternate Representative Candidates – Director Bodnar opened the discussion by asking if any of the Directors would like to be nominated. The Board unanimously supported Director Bodnar to run for Alternate Representative if he chooses to. After more discussion, Director Bodnar chose not to run for the position and no action was taken.

INFORMATION ITEMS – Lagerlof, Senecal, Gosney & Kruse memorandum summarizing the San Diego County Water Authority versus MWD lawsuit decision and update on Morgan versus Imperial Irrigation District. MWD: News release regarding same subject as above.

WRITTEN COMMUNICATIONS TO DISTRICT – None
REPORTS OF PERSONNEL

SECRETARY-TREASURER – Mr. Mitchell provided the Summary of Cash and Investment report which contained the following items:

Investment Portfolio Summary – as of March 4, 2014:

Cash Accounts	\$521,018
Great Pacific Securities	\$39,772
Bond Debt Service Fund Acct	\$324,774
Local Agency Investment Fund	\$1,741,806
Federal Farm Credit (78)	\$479,540
Federal Farm Credit (81)	\$937,600
Federal Farm Credit (83)	\$495,705
Federal Farm Credit (86)	\$928,740
Federal Farm Credit (87)	\$494,125
US Treasury (92)	\$927,810
US Treasury (93)	\$927,810
Federal Farm Credit (94)	\$911,190
Federal Farm Credit (95)	\$558,168

MTBE Contingency Funds

Local Agency Investment Fund	\$2,666,961
Great Pacific Securities	\$4,683,662
Federal Farm Credit (M-3) SOLD	
Federal Farm Credit (M-4)	\$961,510

US Treasury (M-5)	\$494,065
Federal Farm Credit (M-6) SOLD	
US Treasury (M-7)	
US Treasury (M-8)	
US Treasury (M-9)	
Federal Farm Credit (M-10)	

Fund Balances at December 31, 2013

Water	\$14,735,945.95
Wastewater	\$4,470,006.25

Mr. Mitchell reported having sold Federal Farm Credits M-3, M-6, M-10 that netted the District a gain of \$7,438.

GENERAL MANAGER – Mr. Erdman reported that on Thursday February 27, CVWD crews responded to a sewer overflow at the intersection of Foothill Blvd. and Briggs Avenue. It appears the blockage was swimming pool plaster which was illegally deposited into the sewer. The blockage was cleared using the District's Vactor and the area was disinfected according to standard procedures. Staff removed several buckets of the plaster from the area being cleaned and details related to this incident are still under investigation. The Los Angeles County Sheriff's Department assisted with traffic control on Foothill Blvd. during CVWD's work to clear the stoppage. Also the CVTC hosted a "State of the Community" question and answer session in February 20th. Mr. Erdman said that he answered questions concerning the drought, local water supply outlook, conservation programs, and rates and charges and three of the Board members were present. After the meeting, Vickere Murphy from State Senator Carol Liu's office introduced herself and requested a tour of the District which was done the following week. Ms. Murphy is a CVWD Customer. This month, seven (7) CVWD staff members are celebrating employee anniversaries – Wendy Holloway (32 years), Raymond Dodge and Cory Whitman (21 years), Pam Leddy (12 years), Christy Scott (11 years), Ricardo Sandoval (10 years), and Mark Hass (8 years). As of February 27, we have worked 109 days without a lost time accident.

DISTRICT ENGINEER

Water Production – For the period of February 1 through February 28, 2014, water production averaged 97.1 million gallons per day, which is **10.8% more** than the daily average production of the same period in 2013. This is **12.2% more** from the daily average production of the previous five years.

Rainfall: February 2014	3.79"
Season-to-date:	5.83"

Administrative and Field Operations – Mr. Gould provided a memorandum and discussed the following:

Rainfall Update – 3.79" for February 2014. Rainfall total for 2013-14 is 5.83".

Report on Engineering:

CIP Projects – Pipeline – 3000 & 3100 Block of Paraiso Way – 3100 Block of Paraiso Way – 100% complete. 4900 Block of Cloud – 100% complete. 3000 Block Paraiso Way – 50% complete. Pipeline – 3800 Block of Honolulu Avenue – Design 100%

complete – ordering 14-inch steel pipe – meeting with Brkich Construction on change order. Well Rehabilitation, E-934 – Well 12 – Chemical treatment. Well 9 – pump installed 2/24; back in service 3/14. Well 11 – pull pump 3/17. Ocean View Chlorination Project – Developing new bid proposals. FMWD Board meeting – March 17, 2014. Edmund #1 Roof – Pre-construction meeting – March 20, 2014. Ordunio – wall – under design. Oak Creek MCC – under design.

Crescent Valley County Park - Local Groundwater Assistance Grant – Met with LA County on runoff flow gauges. AMEC – design for runoff flow gauge installation.

Glendale – Rockhaven Well – working with GWP on negotiations.

FMWD Issues – No report.

ULARA – No report.

Water Meter Replacement Program – Start FY 13/14 Water Meter Replacement Program – replaced 600 meters to date.

Report on Administrative and Field Operations:

Well Status – Current well capacity – Feb 1 – Feb 28- 2.2 MGD. Well 12 – Out of service since September 9, 2013. Well 9 – Out of service since January 15, 2014. Well 14 – installed a new pressure control valve.

Booster Pumps – No Report.

Glenwood Nitrate Plant – No Report.

Water Quality – No Report.

Mills Plant – No Report.

Reservoirs/Booster Stations – Edmund #1 – Out of service until roof replacement completed in May 2014.

MTBE Update – MTBE levels in Wells below 1ppb.

Field Maintenance and Operations update for February 17 – February 28, 2014

Water lateral leaks & repairs

- 2129 La Canada Crest
- 4639 La Crescenta
- 3159 Los Olivos

Water Main Leaks – No Report.

Fire Hydrant Replacement – No Report.

Developer Projects – No Report.

Valve Replacement – Valve replacement on Ramsdell next to CVHS set for March 17 – 21, 2014.

General Maintenance – Continuing with Valve Exercising Program.

SCADA/Telemetry System – No Report.

Sewer Maintenance – Sewer overflow – Foothill & Briggs – Dennis Maxwell to report.

PROGRAM SPECIALIST – Mr. Erdman reported for Ms. Scott and said that she met today with the Foothill Agencies, Burbank, Glendale, Pasadena regarding the drought measures, and it will remain in a voluntary status and not go to mandatory status.

INFORMATION TECHNOLOGY – Mr. Hass reported that he is in the final phases of the SCADA and the Customer Service projects. Starting preliminary phases of capital projects of the telemetry and SCADA. Over the next 6 to 7 months there will be more to report on.

ATTORNEY – Mr. Trinh reported on the San Diego County Water Authority (SDCWA) versus Metropolitan Water District (MWD) case saying that a 3-part tentative ruling was issued with 2 in favor of SDCWA. In general terms, the court held that MWD improperly calculated its systems access rate and system power rate and its assessment to wheelers, and also that it improperly included conservation and local water costs as transportation costs. Legal counsel will continue to follow and watch the case to see how it may impact the District's purchase of imported water, and report to the Board at a later date.

REPORTS OF COMMITTEES

Engineering Committee – Director Erickson reported that the Committee had not met; however a meeting will be scheduled as needed.

Finance Committee – Director Putnam reported that the Committee met on February 25th at 8:00 a.m. regarding the FY 2014/15 Water and Wastewater Budgets. The Committee reviewed the initial tables and asked questions regarding water production figures for fiscal year 2014/15 and the next 2-3 years. The Committee also suggested that staff could average the costs from the City of Los Angeles for wastewater charges over the next 5 years. Staff provided the preliminary water and wastewater rate adjustments that would be necessary to meet the target reserve levels over the next 5 years. Staff asked all members of the Board to review the schedules, especially related to the O & M expenses, and give any feedback in the next few days so they can be incorporated into the revisions that will be reviewed by the Committee when they meet again on March 14, 2014 at 8:00 a.m.

Employee Relations Committee – Director Bodnar reported that the Committee had not met; however a meeting will be scheduled as needed.

Policy Committee – Director Ross reported that the Committee met on March 4th at 10:00 a.m. and discussed the issue of cell towers at CVWD property sites. There were three members of the community at the meeting. This will be agenized at the next Board meeting.

Community Relations/Water Conservation Committee – Director Tejeda reported that the Committee had not met; however a meeting will be scheduled as needed.

Emergency Planning Committee – Director Bodnar reported that the Committee had not met; however a meeting will be scheduled as needed.

DIRECTORS ORAL REPORTS

Director Ross reported that a customer was complaining to her regarding rate charges for large families. She would like to take a look at our rates in relations to large families and adult children moving back into the parent's home that is impacting the tier charges.

Director Erickson reported that his neighbor spotted a bobcat below his property and the next day saw a bobcat with a deer carcass. He read a Newspress article commenting on building condos and how we should be conserving water. The water usage per person is between 80 to 100 gallons per day. (National Average). He also reported that there is a monitoring tap just down the street from him, and he has noticed that at times some CVWD staff attaches a hose and directs the water to the plants nearby while flushing out the system, and at other times they let the water run down the street. He noticed that last week in the LA Times, CalPERS is going to increase their rates. Also there was a gentleman complaining about water used for irrigation and that LA should think about possibly installing irrigation meters at properties so the water use can be monitored.

Director Bodnar reported that he attended the CVTC forum on February 20th, and on February 28th the Finance Committee meeting. He also reported that he received 2 community comments, one was on the water service for the Boy Scout project which has been resolved, and the other was on educating the community regarding grey water. We need to check on the regulations of grey water, and will report on this at a future meeting.

Director Tejeda reported that she attended the JPIA HR Group workshop with Ron and Christy. It was suggested at the meeting that the District's employment application forms be updated every 2 years due to other things that become emphasized like domestic violence. Employers must provide reasonable accommodations to victims from stalkers. Use interns for projects and pay them minimum wage. Military Veterans are now a protected class from discrimination.

Director Putnam reported that he attended the CVTC State of the Community meeting and that Dennis Erdman answered many questions. There were only 3 or so other from the public other than Directors in attendance by the time this item was reached on the CVTC agenda.

CLOSED SESSION

No reportable Action.

ADJOURNMENT

There being no other business to come before the Board, at 9:30 p.m., it was moved by Director Ross, seconded by Director Tejeda that the meeting be adjourned to March 18, 2014 at 7:00 p.m.

APPROVED

James D. Bodnar
President

Ron L. Mitchell
Secretary-Treasurer

CASH DISBURSEMENTS LIST

FEBRUARY 2014



<u>Check#</u>	<u>Check Date</u>	<u>Payable To</u>	<u>Purpose</u>	<u>Water Amount</u>	<u>Wastewater Amount</u>
Fund: 01 Water					
0	2/21	Southern California Edison Co.	Power purchased 02/2014	20,526.64	263.48
29322	2/4	ACV Systems, LLC	6" Cla-Val pressure valve	3,433.50	
29323	2/4	Anawalt Lumber & Materials Co.	Misc supplies 01/2014	381.89	42.73
29324	2/4	Arrowhead Mountain Spring Water	Distilled water	57.06	
29325	2/4	Regino Avalos	Cost to remove oleanders from Well #11	375.00	
29326	2/4	AW Direct, Inc	Unit #33 led work lights		377.21
29327	2/4	BC Laboratories, Inc	Water analysis	1,008.50	
29328	2/4	BC Laboratories, Inc	Water analysis	1,941.00	
29329	2/4	Bonnors Equipment Rentals	Misc rental 01/2014	147.44	49.14
29330	2/4	CA Dept. of Public Health-OCP	Treatment certification - Bryan Jones	80.00	
29331	2/4	CA Dept. of Public Health-OCP	Grade D3 certification - Jim Halaszynski	90.00	
29332	2/4	CA Dept. of Public Health-OCP	Grade T2 certification renewal - Halaszynski	60.00	
29333	2/4	California Water Environment	Membership renewal for Morgen DuRose	111.00	37.00
29334	2/4	CalPers	Employee contributions 01/2014	22,604.85	15,069.90
29335	2/4	Charter Communications	Fiber optic, cable for Glenwood, Mills, Office 01/2014	3,662.11	1,220.69
29336	2/4	Choice Pest Control	Monthly service Well #9	180.00	84.00
29337	2/4	Colonial Life & Accidents Ins.	Employee paid insurance	183.61	
29338	2/4	DataProse Inc.	Printing & Postage Controls 1-4	1,450.72	1,450.72
29339	2/4	Eurofins Eaton Analytical Inc.	Water analysis	442.00	
29340	2/4	Full Source, LLC	Fire retardant uniform pants & shirts - R. Dodge	331.95	110.64
29341	2/4	Harper & Associates Eng, Inc	E-936 Roof replacement Edmund #1	6,500.00	
29342	2/4	Hamid Javadi	Turf rebate	800.00	
29343	2/4	Ken Daniels Automotive, Inc	Front brakes for unit #38	232.42	77.48
29344	2/4	L.A. County Dept. Public Works	Excavation permit	264.00	
29345	2/4	Dennis A. Maxwell, Jr	Reimbursement safety boots	105.28	35.09
29346	2/4	McCall's Meter Sales & Service	Field test 45 large meters	11,250.00	
29347	2/4	Microflex Corporation	Four boxes of laytex gloves for sewer crews		531.26

<u>Check#</u>	<u>Check Date</u>	<u>Payable To</u>	<u>Purpose</u>	<u>Water Amount</u>	<u>Wastewater Amount</u>
29348	2/4	Mimecast North America, Inc.	E-mail security	150.00	50.00
29349	2/4	National Notary Association	Membership renewal Ron Mitchell	134.25	44.75
29350	2/4	Neopost USA, Inc	Annual postage ACH fee	25.00	25.00
29351	2/4	New Image Landscape & Design	Monthly maintenance	1,002.50	177.50
29352	2/4	O'Reilly Auto Parts	Misc parts for 01/2014	139.39	8.31
29353	2/4	Office Depot - Credit Plan	Misc office supplies 01/2014	443.92	443.91
29354	2/4	Orchard Supply Hardware	Misc hardware 01/2014	459.30	236.17
29355	2/4	Paper Cuts, Inc	Paper shredding	26.88	26.87
29356	2/4	Paveco Construction Inc	list 74T - various paving locations	8,501.90	
29357	2/4	Plumbers Depot Inc	Unit #31 - Repairs on valves & camlocks		332.88
29358	2/4	Quest Diagnostics	Pre-employment physical	6.50	2.16
29359	2/4	Pedro Roman	Refund Check	18.13	
29360	2/4	Scotty's & Sons, Inc	Replace rechargeable battery used various power tools	81.73	81.72
29362	2/4	Stemar Equipment & Supply Co.	5/8"x30' rope and 300 large burlap bags	235.56	235.56
29363	2/4	Sully-Miller Contracting Co.	Cold mix	641.64	
29364	2/4	The Gas Company	Gas purchased main office 01/2014	140.21	46.74
29365	2/4	Tri County Pump Company, Inc.	Well 1 Rehabilitation	2,503.47	
29366	2/4	UPS	Shipping charges plant	6.80	6.80
29367	2/4	Vision Service Plan Co-(CA)	Group vision insurance for 02/2014	254.75	169.83
29368	2/4	Vulcan Materials Company	Cold mix	555.00	
29369	2/4	Waste Management - Sun Valley	Disposal service plant	581.83	193.95
29370	2/4	Mark Welling	Turf rebate	800.00	
29371	2/4	Western Water Works	Air combo valves for Well #8 & Well #14; 16-gate valves; flanges; 8 fire hydrants; couplings & tees	34,299.85	
29372	2/4	Tyler Smith	Wash/clean service trucks in 12/2013	547.50	182.50
29373	2/5	Downey Brand Attorneys LLP	ULARA Legal Expense	6,137.48	
29374	2/5	Christy Joana Scott	Health Reimbursement	255.84	170.56
29375	2/12	AAmco Transmissions Corp.	Unit #10 - 4 new shocks; Unit #1 -front brakes & oil change	957.09	319.02
29376	2/12	ABC Auto Electric	Repair signals on Unit #27	71.25	23.75
29377	2/12	Ameripride Uniform Services, Inc	Uniform rentals 01/2014	608.01	202.67
29378	2/12	ARC	Repairs to Bond Plotter	277.10	92.37
29379	2/12	Auto Hutch	Repairs Unit #7 - front hubs & bearings	633.94	211.31
29380	2/12	AVAYA Financial Services	Land line phone lease	380.69	126.89
29381	2/12	BC Laboratories, Inc	Water analysis	1,664.00	

Check#	Check Date	Payable To	Purpose	Water Amount	Wastewater Amount
29382	2/12	Cargill, Inc - Salt Division	24.74 tons bulk solar salt	2,890.27	
29383	2/12	Cash-Petty Cash	Misc. Admin.	299.25	99.75
29384	2/12	Charles Z. Fedak & Company	Progress billing for audit	362.50	362.50
29385	2/12	City of Glendale Water & Power	Power purchased 01/2014	33,799.97	12.40
29386	2/12	Crescenta Valley Tow Service	Tow Unit #5 to repair shop	60.00	20.00
29387	2/12	Diversified Inspections/ITL Inc	Boom Truck Inspection - #Unit 16	385.50	128.50
29388	2/12	Do-it Center	Misc hardware 01/2014	141.75	78.79
29389	2/12	Eurofins Eaton Analytical Inc.	Water analysis	296.00	
29390	2/12	First Choice	Coffee service plant	104.98	104.97
29391	2/12	Grainger	20- mini ball valves for sample stations	338.34	
29392	2/12	Great America Leasing Corp.	Kyocera Copier leasing	434.91	434.91
29393	2/12	LA Dept Water and Power	Power purchased 01/2014	45.97	
29394	2/12	LaBelle Marvin Inc.	E-911 - Professional service for Santa Carlotta paving	1,940.00	
29395	2/12	Landscape Warehouse III, Inc.	Repair irrigation at Encinal & Pennsylvania	101.87	
29396	2/12	McCall's Meter Sales & Service	Well #14 - 6" flowmeter	3,428.15	
29397	2/12	New Pig Corp.	All purpose wipes	96.15	32.06
29398	2/12	Newegg, Inc.	Computer hardware	83.53	27.84
29399	2/12	Plumbers Depot Inc	Unit #31 - Nozzle extensions, disconnects & couplings		837.07
29400	2/12	PMC Engineering LLC	Transmitter - Well #1	3,206.19	
29401	2/12	Priority Mailing Systems, LLC	Annual fee for postage machine	212.00	212.00
29402	2/12	Ramco	Crushed misc base	1,683.12	
29403	2/12	Rassac Air Systems	Maintenance for Glenwood	356.25	118.75
29404	2/12	Scotty's & Sons, Inc	Misc. air fittings	265.61	88.53
29405	2/12	Shell	Gas purchased 01/2014	1,958.89	652.96
29406	2/12	Stemar Equipment & Supply Co.	Plugs for overflow trailer - Unit #32		11.25
29407	2/12	Sully-Miller Contracting Co.	Cold mix	636.04	
29408	2/12	The Gas Company	Gas purchased Glenwood	133.23	44.41
29409	2/12	Underground Service Alert/SC	Underground notification	127.12	42.38
29410	2/12	Univar USA Inc	1347 gal.bleach/Mills/Glenwood	2,239.94	
29411	2/12	Water Well Redevelopers Inc	E-934 Well #9 rehabilitation	750.00	
29412	2/12	Western Water Works	6" Ring gaskets; nipples; elbows; flanges	1,512.53	
29413	2/13	Hoag Consulting, LLC	Services 10/29/13 to 1/7/14 for Rockhaven Well	2,145.00	
29414	2/21	AAmco Transmissions Corp.	Repairs to Unit #10 -Oil change, transmission fluid, radiator hoses & collant, replace belts & front brakes	793.42	264.47
29415	2/21	Abe's Security Systems, Inc	Misc keys	24.26	24.26

<u>Check#</u>	<u>Check Date</u>	<u>Payable To</u>	<u>Purpose</u>	<u>Water Amount</u>	<u>Wastewater Amount</u>
29416	2/21	ACWA/JPIA	Health insurance for 03/2014	33,986.04	22,657.36
29417	2/21	ADS, LLC	Monthly monitoring		1,015.00
29418	2/21	Aflac	Employee paid insurance	1,074.53	
29419	2/21	Airgas USA, LLC	Monthly cylinder rental	461.20	461.19
29420	2/21	All American Landscape Co.	Main office pruning and replanting	3,195.00	285.00
29421	2/21	ARC	Plans & specs for E-936 Edmund #1 Roof	1,217.83	269.78
29422	2/21	Associated Soils Engineering	E-921 Main replacement Paraiso Way	390.00	
29423	2/21	AT&T	PRI usage 02/2014 -Glenwood, Office & Mills	2,304.39	735.94
29424	2/21	AT&T Mobility	Cell phone service	1,635.35	545.10
29425	2/21	Cannon	E-931 MCC at Oak Creek	9,551.93	
29426	2/21	Capital One Commercial	Misc supplies	278.09	278.07
29427	2/21	City of Glendale Water & Power	Water usage charge Flood meter for Glenale Intertie		185.45
29428	2/21	DataProse Inc.	Postage & printing for Controls 1-4	712.06	712.05
29429	2/21	Eurofins Eaton Analytical Inc.	Water Analysis	162.00	
29430	2/21	Foothill Municipal Water	Water delivery	243,760.67	
29431	2/21	Eric Geller	Turf rebate	1,600.00	
29432	2/21	Harper & Associates Eng, Inc	E-936 Edmund No. 1 Reservoir roof	1,940.00	93.95
29433	2/21	Home Depot Credit Services	Misc hardware 01-2014	2.19	
29434	2/21	Hutchinson & Bloodgood	Compcon consulting 01/2014	135.00	45.00
29435	2/21	Industrial Tool Box	Safety Gloves	260.54	86.84
29436	2/21	Perlette Jura	Refund Check	127.26	
29437	2/21	Orbel Keshishian	Refund Check	51.28	
29438	2/21	LA Dept Water and Power	Power purchased 02/2014	47.52	
29439	2/21	Lagerlof, Senecal, Gosney & Kr	Legal Services 01/2014	3,170.00	1,250.00
29440	2/21	Lagerlof, Senecal, Gosney & Kr	Public Water Agencies Group	336.19	112.06
29441	2/21	Layne Christensen Co	E-925 Mills B motor replacement	16,618.45	
29442	2/21	Lincoln Financial Group	Life and Dental insurance 03/2014	2,824.76	1,883.17
29443	2/21	Jeannine Marvin	Turf rebate	1,600.00	
29444	2/21	McMaster-Carr Supply Co	4"street markers 37895T12	282.11	
29445	2/21	New Image Landscape & Design	Monthly landscape	1,002.50	177.50
29446	2/21	Newegg, Inc.	4 -UPS batteries and 6 - I/O cards	1,557.22	
29447	2/21	Levi Nicolas	Refund Check	17.95	
29448	2/21	Rafigh Ohanian	Refund Check	58.72	
29449	2/21	Paveco Construction Inc	List 74X - various paving locations	10,783.01	
29450	2/21	Plumbers Depot Inc	Cable tow & lifting straps		108.69

<u>Check#</u>	<u>Check Date</u>	<u>Payable To</u>	<u>Purpose</u>	<u>Water Amount</u>	<u>Wastewater Amount</u>
29451	2/21	Red Wing Shoe Store	Safety boots for Alex Sandoval	131.25	43.75
29452	2/21	ReQuest Chemical & Safety	8 gal. hand cleaner	271.41	271.41
29453	2/21	Serge's Automotive	Unit #23A - shocks/coils/overhaul kit front	1,193.32	397.77
29454	2/21	Star Brite Bldg. Maintenance Inc	Janitorial service 02/2014	618.75	206.25
29455	2/21	Robert Stauffer	Refund Check	103.57	
29456	2/21	Toro's Lawnmower & Garden	2 quarts of B/C oil	7.19	60.61
29457	2/21	Trench Shoring Company	Cost for a pump for hydraulic shoring	1,393.35	
29458	2/21	Univar USA Inc	1255 total gal/Mills/Glenwood	2,156.82	
29459	2/21	UPS	Shipping charges plant	24.26	24.25
29460	2/21	Water Wise Consulting, Inc	Water audit for 2203 Crescent	175.00	
29461	2/21	Wells Fargo Card Services	Erdman: Fortune magazine subscription renewal	50.03	20.06
29462	2/21	Wells Fargo Card Services	Gould: AWWA Spring Conf. registration (Gould & Byers); AWWA water & wastewater rate survey	792.73	249.25
29463	2/21	Wells Fargo Card Services	Hass: Montly recurring charges; SCADA supplies; software; hardware for sewer camera van	357.42	428.08
29464	2/21	Wells Fargo Card Services	Mitchell: Notary filing fees; bathroom fan for Glenwood Plant; lunch & parking at COBRA seminar	241.26	80.43
29465	2/21	David & Cori Wiseman	Refund Check	344.92	
29466	2/21	Wilfried Zogg	Turf rebate	1,200.00	
29467	2/25	CA Dept. of Public Health-OCP	Grade T-1 renewal for Rob Wood	55.00	
Total for Fund:01 Water				\$ 549,873.29	\$ 59,042.37
GRAND TOTAL OF DISBURSEMENTS				\$ 608,915.66	

PAYROLL REPORT
February-14

Directors	\$	1,530
Office Regular Payroll	\$	120,909
Office OT	\$	400
Vacation Cash Out	\$	6,098
Plant Regular Payroll	\$	95,795
Plant OT and Standby	\$	12,197
Employer Payroll Taxes	\$	18,121
Payroll Service Charges	\$	345
Total	\$	<u>255,395</u>

Mark Your Calendar for Rita's Retirement Celebration!

Longtime Executive Director
Rita Schmidt Sudman is retiring after
34 years of leading the Water Education Foundation.
The nonprofit Foundation is highly respected for its
dedication to impartial education about key water issues
in California and the Southwest.



*The Board of Directors and
the Staff of the Water Education
Foundation invite you to*

*Join us for a Reception
celebrating Rita's distinguished
career and visionary leadership*

Wednesday, March 26, 2014

The Vizcaya Inn

2019 21st Street • Sacramento, CA

Reception begins at 5 p.m. Program to follow.

Sponsorships are welcome as the Board and Staff work to ensure **Rita's vision for continuing broad-based education for future generations** – in the classroom through the renowned Project WET (Water Education for Teachers) curriculum and in the digital age through the Foundation's free online learning programs such as *Aquaformia* and *Aquapedia*.

And make plans to attend the Foundation's next-day, **March 27, 2014 Executive Briefing in Sacramento**. This day-long event will offer you the opportunity to hear the latest news from the top stakeholders and policymakers on issues related to the Bay-Delta, Colorado River and more.

Individual tickets are \$35.00 each. Call Diana Farmer, 916-444-6240, to purchase your ticket.

Visit www.watereducation.org for more details

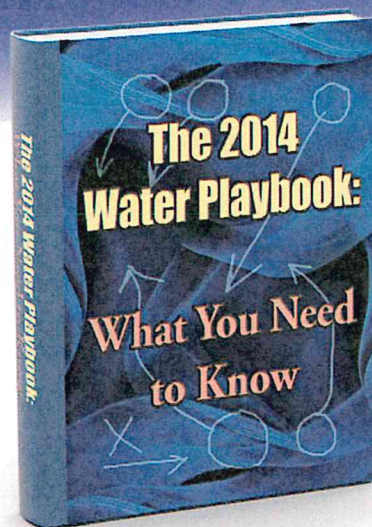
Water Education Foundation's

**31st
ANNUAL**

EXECUTIVE BRIEFING

**Thursday,
March 27, 2014**

Red Lion Hotel
Woodlake/Sacramento
500 Leisure Lane
Sacramento, CA



At this one-day event, top policymakers and leading stakeholders will provide you with the crucial information you need on:

- **The BDCP: Is it Ripe for a Solution?**
- **California Groundwater: Tapping Out**
- **Will There Be a Water Bond on Your 2014 Ballot?**
- **The Colorado River Drought: Increasing the Odds of an Official Shortage. What Then?**
- **Watershed Management from the Sierra to the Delta**

Make sure you arrive in Sacramento March 26 so you can attend Rita Schmidt Sudman's evening Retirement Reception:

Wednesday, March 26, 2014

*The Vizcaya Inn
2019 21st Street • Sacramento, CA
Reception begins at 5 p.m. Program to follow.
Tickets: \$35.00 each*

Time and Place

Thursday, March 27, 8:45 a.m. – 4:30 p.m. (Registration begins at 8 a.m.) at the Red Lion Woodlake/Sacramento Hotel, 500 Leisure Lane, Sacramento.

Registration

On-site registration and check-in begins at 8 a.m. The presentations begin at 8:45. The Briefing will adjourn at 4:30 p.m. to a hosted reception. A limited number of scholarships are available.

Hotel Reservations

The Foundation has secured a limited number of rooms at the rate of \$84 per night (plus tax) for the night of March 26. Call 916-922-2020 to reserve a room; make sure to mention the Water Education Foundation for the special rate.

Cancellation policy

Full refunds (less a \$25 administrative charge) will be given if written notice is received by 5 p.m. March 21, 2014. Substitutions may be made at any time.

Top speakers include:

- California DWR Director **Mark Cowin** on the BDCP, drought and other topics
- **Jerry Meral** discussing the BDCP in his new role at the Natural Heritage Institute
- Assembly Member **Anthony Rendon** (D-Lakewood), Chair, Assembly Water, Parks and Wildlife Committee on the potential for a **water bond**
- California Water Foundation Executive Director **Lester Snow** will moderate the tapping out groundwater panel
- The **Paso Robles groundwater overdraft problem** will be discussed by Paavo Ogren, Director of the San Luis Obispo's County Department of Public Works

Call the Foundation, 916-444-6240, for complete information on this exciting event or visit our web site, www.watereducation.org/conferences

*Featuring a silent auction to benefit the Foundation's Water Leaders Program.
Be prepared to bid on some fabulous items!*

Register Online at www.watereducation.org/conferences
or use the form on the other side of this sheet

Water Education Foundation's

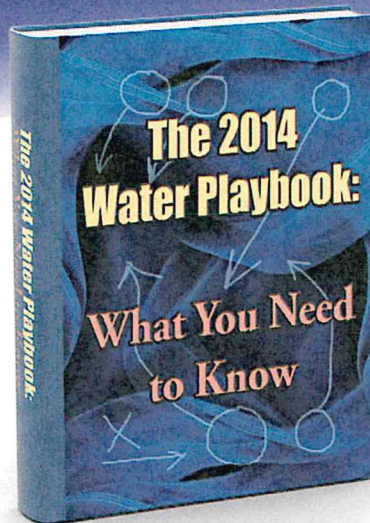


EXECUTIVE BRIEFING

March 27, 2014

Red Lion Hotel Woodlake/Sacramento
500 Leisure Lane, Sacramento, CA

A briefing for water district managers and board members, state and federal agency officials, city and county government officials, farmers, environmentalists, attorneys, consultants, engineers, business executives and public interest groups.



Your Executive Briefing invite

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Water Education
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EXECUTIVE BRIEFING

Registration

Online registration is available at www.watereducation.org/conferences
Faxed reservations will be accepted with purchase orders or credit cards.

Name(s) _____
Job Title(s) _____
Organization _____
Address _____
Email _____
City _____ State _____ Zip _____
Phone _____

Enclosed is my registration fee:

☐ \$275 (WEF major contributor of \$100 or more)

☐ \$375 (Non-contributor)

☐ \$35 Sign me up for Rita's March 26 reception

Lunch choice: ☐ Beef ☐ Chicken ☐ Vegetarian

Purchase order # _____

☐ Mastercard ☐ Visa ☐ American Express

Credit card number _____ Exp. date ____/____/____

Signature (must be signed to process credit card order) _____

Return form with payment to: Water Education Foundation, 717 K Street, Suite 317, Sacramento, CA 95814 • FAX: 916/448-7699

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 1
March 18, 2014

To: Honorable President and Members of the Board of Directors
From: Christy J. Scott, Program Specialist
Subject: Discussion on the Development of District Policy Concerning Cell Towers on District Properties

ACTION ITEM:

1. **Discussion on the Development of District Policy Concerning Cell Towers on District Properties –**
Consideration and motion to develop a cell tower policy that would establish a minimum distance from residential properties and institute a notification plan upon consideration of any future cell towers.

BACKGROUND

At the March 19, 2013 meeting of the CVWD Board of Directors, the topic of AT&T's desire to lease a portion of land at the District's Oak Creek reservoir was discussed. The Board took no formal action at that time, but directed the General Manager to bring this proposed project to the attention of the Crescenta Valley Town Council. The proposed project was announced in a report given at the March 21, 2013 meeting of the CVTC. Council members were advised that the matter would be on the District's agenda on April 2, 2013 and Council and public were invited to comment.

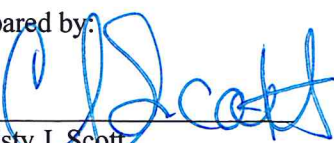
In April 2013, The CVWD Board Directors approved for AT&T, through their agent Mr. Jerry Ambrose, to pursue a lease of a 600 to 800 square foot portion of the District's property adjacent to the Oak Creek Reservoir. The site would include an antenna and a small building to house the transformers and communication related equipment and be surrounded by a fence for security purposes. AT&T had the responsibility for performing the permit procurement and community relations portions of this work. Documents the District signed for AT&T to begin permit processing were subject to revocation at any time by the District and did not convey approval of the project. Following the County's notification to the residents surrounding the site, the District received written complaints as well as public comments against the project and specifically the placement of a cell tower in a residential area. Subsequently, AT&T withdrew from the proposed project.

Following AT&T's withdrawal, residents from the Cloud Avenue Area requested that the District not consider any future cell tower projects at this location. This matter was referred to the Policy Committee. The Committee met on March 4th 2014, and the minutes from that meeting are included in the Board Package.

DISCUSSION:

At the Policy Committee meeting, attendees discussed a Cell Tower Policy be brought to the full Board that would include a minimum distance from any residential home for any cell phone tower located on District property. Also, the policy would include a notification practice to be initiated at the beginning of any future investigation that would include a large sign at the proposed location and a direct mailing to any resident within 1,000 feet of a proposed cell tower location.

Prepared by:



Christy J. Scott
Program Specialist

Submitted by:



Dennis A. Erdman, P.E.
General Manager

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 2
March 18, 2014

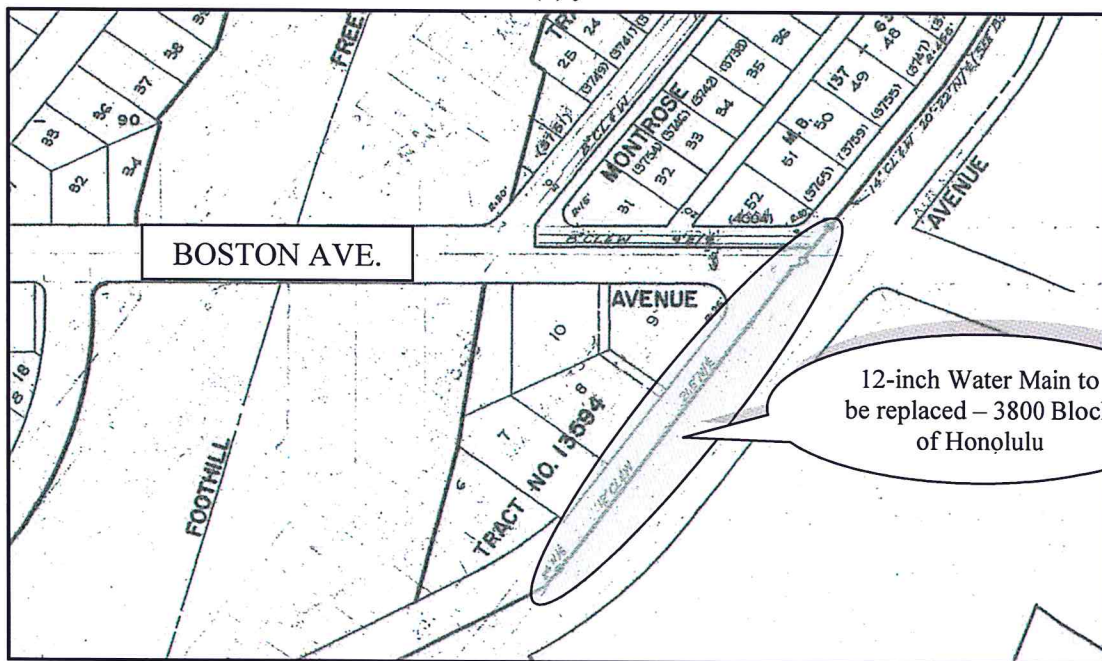
To: Honorable President and Members of the Board of Directors
From: David S. Gould, P.E. – District Engineer
Subject: 14-Inch Water Main Replacement on the 3800 Block of Honolulu Avenue – Award of Contract, Project E-937

ACTION ITEM:

1. **14-Inch Water Main Replacement on the 3800 Block of Honolulu - Project E-937** – Consideration and motion to award a contract to Brkich Construction for the construction of 390 lineal feet of pipeline replacement on the 3800 Block of Honolulu Avenue at a cost of \$56,050, establish a contingency amount of \$5,600 (10% of contract) to cover the cost of unforeseen or additional work, and to find said project exempt from the provisions of the California Environmental Quality Act (CEQA).

BACKGROUND

The City of Glendale, Department of Public Works has awarded a contract for a pavement resurfacing project on the 3800 Block of Honolulu Avenue between Boston Avenue and Lowell Avenue. The project is scheduled to begin in June or July 2014 and completed by the end of 2014. The City of Glendale has a moratorium where no utility work is allowed within the street for at least three (3) years or until the end of 2017.



CVWD has an existing 12-inch and 14-inch water main within Honolulu Avenue that feeds Ordunio Reservoir. The 12-inch water main, which is about 400 feet long, was installed in 1954 and the 14-inch water main was installed in 1969. The section of 12-inch pipe was scheduled to be replaced in FY 15/16 due to it being undersized, the age of the pipe, and two (2) major leaks in 2011.

DISCUSSION:

Staff discussed with the Engineering Committee about replacing the 12-inch water main before the street is resurfaced due to the age of the pipeline and the possibility of another leak occurring during construction.

Glendale's street resurfacing project includes grinding 1-½ inches of asphalt before placing with new rubberized asphalt. The grinding operation could lead to additional leaks due to the vibration, and those leaks would have to be repaired during construction. Staff also discussed it could meet with Brkich Construction on a possible change order to the existing contract such that this work could follow after the project on Paraiso Way is completed.

The Engineering Committee agreed with staff's recommendation to replace the pipeline, to meet with Brkich Construction about a possible change order, and to use existing CIP funds for the improvement.

Staff has completed the design of the pipeline replacement project and met with Brkich Construction on the cost for the change order to perform this work. The table below shows the breakdown of costs for the project that includes additional items to replace the existing valves in addition to traffic control.

ITEM	DESCRIPTION	QUANTITY	UNIT	AMOUNT
1	Excavation and backfill	390	LF	\$ 70.00
2	14" CML & CMC Steel Pipe	390	LF	\$ 25.00
3	Install 14" Butterfly Valves	3	EA	\$ 3,000.00
4	Traffic Control	1	LS	\$ 10,000.00
	Total			\$ 56,050.00

The cost proposed by Brkich Construction is 25% less than staff's estimate of \$75,000. Staff has been working well with Brkich over the last six (6) weeks at the Paraiso Way Project.

RECOMMENDATION:

It is staff's recommendation to award the contract for a change order for the subject project to Brkich Construction at a cost of \$56,050.

A pre-construction meeting will be set as soon as the contract is awarded, the agreement is signed, and insurance documents have been delivered. We anticipate construction beginning early April 2014 and concluding in May 2014, which meets the City of Glendale's schedule for the pavement replacement project. Ms. Christina Olmedo will be the project manager and Mr. Cory Whitman will be the field inspector.

Staff will send out letters to residents informing them of the upcoming construction, posting a description of the project and a construction schedule on CVWD's website, and sending out a press release to the local newspaper about the upcoming project.

Environmental Review:

Staff is requesting that the Board find this project to be exempt from the California Environmental Quality Act (CEQA) pursuant to Section 15301 of the CEQA Guidelines. This exemption covers the repair of existing facilities involving negligible or no expansion of existing use.

Funding Availability:

There are sufficient funds available in the following account for the project:

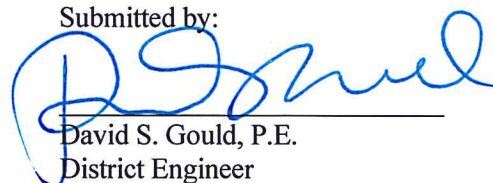
Account Description	Amount
FY 13/14 Water CIP- Water Distribution – Pipeline Replacement	\$625,000
Amount for Previous Approved	<\$595,000>
Amount Remaining in – Water Distribution – Pipeline Replacement	\$30,000
Amount transferred from Eagle Canyon – Booster B & Mills Aeration Tower Replacement	\$125,000
Revised Budget for Water Distribution – Pipeline Replacement	\$155,000
Contractor Cost	<\$56,050>
Unforeseen or additional work	<\$5,600>
Additional costs such as material purchase by CVWD, soils engineer, engineering & inspection labor costs	<\$47,350>
Total Cost	<\$109,000>
Amount Remaining in Water CIP – Distribution System – Pipeline Replacement	\$46,000

Prepared by:



Christina Olmedo
Assistant Engineer

Submitted by:



David S. Gould, P.E.
District Engineer

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 3
March 18, 2014

To: Honorable President and Members of the Board of Directors
From: Ron L. Mitchell – Secretary-Treasurer
Subject: Discussion of FY 2014/15 Water and Wastewater Budgets

ACTION ITEM:

Discussion of FY 2014/15 Water and Wastewater Budgets – Discussion on upcoming FY 2014/15 Water and Wastewater Budgets and determination of the desired level of capital improvements.

INTRODUCTION:

Staff prepared the first draft of the FY 2014/15 Water and Wastewater budgets based on our best assumptions and the Board's direction to increase expenditures for upgrades and maintenance of the District facilities at a moderate pace over the next few years, and maintain current staffing levels among other items. In addition, the Board has previously directed staff to fund CIP at \$2M every year starting in FY 2013/14 and increasing after five (5) years to meet goals of improving the system reliability.

At the March 4, 2014 Board meeting, staff provided the preliminary budget information to all Directors and asked that they review the proposed expenditures for O & M, Capital Outlay and Capital Improvement projects and give feedback so it could be included in the new Cash Flow Models that would be provided to the Finance Committee for their March 14, 2014 meeting. Staff did not receive any comments from members of the Board.

Staff has included in this package a copy of the Finance Committee memorandum for the February 28th meeting that showed the original assumptions made for the first draft of the Cash Flow Models along with a copy of the Finance Committee memorandum for the March 14th meeting. This includes a complete Water Cash Flow Model and Wastewater Cash Flow Model with changes outlined and discussion that include updated projections for revenues, expenses and CIP for the next 5 fiscal years. The changes to the various tables from the version presented on March 4th have been highlighted in yellow so you can easily see where the changes are in the models.

Staff has prepared the preliminary budget using the financial model that presents the District's budget in a large integrated spreadsheet. The advantage of this approach is that changes to the spreadsheet can be made to individual variables and the model will translate the changes through the entire model giving instant feedback on how the changes impact the results, including rate changes needed to support the proposed expenditures.

As with any model, the results are only as good as the numbers that form the input. Management staff has provided their best estimates of anticipated costs for the multitude of budget categories which make up the final numbers. The assumptions for escalation in costs, changes in charges from utility providers, suppliers, contractors, insurance companies and the many other suppliers of goods and services we use are detailed in the notes that accompany the WB-9 and WWB-7 charts that we will be reviewing. (WB-9 is the water budget summary spread sheet and WWB-7 is the wastewater budget summary spread sheet.)

In accordance with the general guidance provided by the Board, the direction these budgets are intended to lead us toward an operating budget that produces sufficient revenue each year to support operations, capital projects and infrastructure replacement. These improvements need to occur at a rate that allows the District to maintain adequate and reliable water and sewer service to the customers.

In general terms, CVWD should aim to spend a minimum of \$2 million per year in present dollars on infrastructure upgrades.

DISCUSSION:

WATER BUDGET:

FY 2014/15 Water Budget – The following is a discussion of major budget categories which were utilized to create the FY 2014/15 Water Budget for Revenue and Operation and Maintenance expenses:

Revenues – Based upon 4,500 AF of water sales, less shrinkage, for FY 2014-15 and decreasing to 4,400 AF for FY 2015/16 through FY 2017/18. Staff estimated that water demand will level out at 4,400 ac-ft per year and then generally increase by 100 ac-ft per year thereafter.

The rate increases shown in the Water Cashflow Model are such that the increase in the fixed service charges equal to percentages recommended for commodity charges. The FMWD commodity charge will remain the same and the anticipated interest income from investments, and other miscellaneous sources of funds are also estimated in the model.

Labor and Benefits – Includes a 1.3% COLA for fiscal year 2014/15, 1.8% COLA for fiscal year 2015/16 and continues to increase by .5% for years 2016/17 through 2018/19; merit increases for employees not currently at top step of salary scale; continued payment of the 7% EMPC and projected increases to PERS contributions based upon latest actuarial projections; projected 4% increases annually to health/dental costs with a 1% change to Life and LTD; a slight reduction to worker's compensation insurance rates from 1.77% to 1.75% for the FY 2014/15 through 2016/17, and then decreases to 1.5% for the next two FY; no change to the management group self-insurance coverage.

The District has realized savings in the actual Labor & Benefits expense compared to what was budgeted for the last two fiscal years due to:

- 1) Extended employee absences from medical leave or worker compensation injuries
- 2) Not filling the open I T Tech position until the middle of this FY

This year staff continues to budget \$150,000 of labor to be transferred to capital improvements as part of the project management to administer our \$2M per year CIP program.

Purchased Water and Power Costs – MWD indicated that there will be a 3.7% increase in treated water costs for 2015, which has been factored into the overall FMWD cost for purchased water. In addition, staff has included the projected costs provided by FMWD in their proposed budget for M&O and CIP costs. However, staff is anticipating that the overall FMWD costs will decrease in FY 2014/15 due to reduced water production.

Power costs are approximately 3% higher in anticipation of an 8% - 10% rate increase from SCE and a 5% - 10% rate increase from GWP and lower water production.

Operations & Maintenance Expenses – Maintenance and operating expenses are estimated to be approximately 9% higher in FY 2014/15 and to generally increase by 2% from 2015/16 through 2018/19 to meet the goal of a moderate pace for systems/facilities improvements.

Areas of increased spending in this year's water budget include repairs to the Glenwood Plant such as new roofs on the carports and the main building. The budget also reflects the continuation of the water meter replacement program, which is replacing 1,000 meters per year. This will be the third year of the four year project to replace all meters 20 years and older.

A result of the water meter replacement program is that a number of water service laterals will also need to be replaced; additional funding has been included to replace at least 60 water services by outside contractors.

The budget also includes enhanced funding for the water conservation program in anticipation of the statewide drought.

Staff has included additional expense for Administrative Consultants to evaluate requests from Board members for projects such as solar power, recycled water, and strategic planning. Included in this package is a spreadsheet that outlines projects by fiscal year with the approximate cost for each study.

Capital Outlay & Equipment – Staff is planning to replace the existing valve turning equipment and truck (Unit 24), which was purchased in 1998; continued replacement and upgrades to the District's computer network hardware and software, including its financial software; purchase of a used 70kW emergency electrical generator, and seismic upgrades to the District's main office.

Capital Improvements – The District has transitioned from bond financing to a Pay-As-You-Go funding for its Capital Improvements Projects program. The Board has set a CIP level of \$2M per year for replacing aging infrastructure and to make necessary improvements to the water system.

In FY 2013/14, staff anticipates completing either the construction or design of 15 projects and 5 remaining projects will carry over into FY 2014/15. In FY 2014/15, staff has a number of high priority projects such as well rehabilitation, re-coating of the roof at Oak Creek Reservoir, pipeline replacement, replacement of the electrical motor control center at Oak Creek Reservoir, rehabilitation of the surge tank at Glenwood, continuation of the replacement of the SCADA system, and installation of seismic sensors and valve actuators at 2 reservoir sites.

Proposed Water Rates – Staff is recommending a water rate increase of approximately 6% for FY 2014/15 and additional increases of approximately 8% for the fiscal years 2015/16 thru FY 2017/18 in order to match reserves with target levels. These are shown in Table WB-9 of the Water Cash Flow Model. In addition, staff is recommending that the set points for tiers 1, 2, and 3 be revised to meet revenue requirements for single family residents and this is shown in the spreadsheet provided along with another spreadsheet that shows the cost per unit of water billed with the proposed rate increase and set point structure.

WASTEWATER BUDGET

FY 2014-15 Wastewater Budget – The following is a discussion of major budget categories that were utilized to create the FY 2014-15 Wastewater Budget for Revenue and Operations and Maintenance Expenses.

Revenues – Based upon 7,989 EDU's and planning for minimal growth over the next few years. This information, utilized by staff and confirmed in the cost-of-service study, was used to calculate the expected revenues from Residential, Commercial, and Schools customers.

City of Los Angeles Treatment & Disposal Costs – Based upon the updated five year projections provided by the City of Los Angeles (LA), the LA treatment & disposal costs will be increasing over the next five (5) years. In previous fiscal years, LA actual costs were less than the updated projections. This will have an adverse effect on the overall rates which is shown in the updated cash flow model. Per recommendation of the Finance Committee, staff has averaged the costs for the five year projection period and used this figure to smooth the impact over the periods covered in the model.

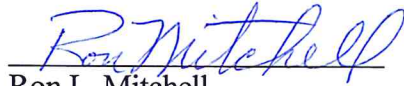
Operations & Maintenance – Overall the O & M expenses are only slightly higher than the prior FY 2013/14 budget and are primarily due to increases in Labor & Benefits as outlined in the FY 2014/15 Water Budget section of this memo and increase to expenditures for Administrative Consultants discussed above in the Water section.

Capital Improvement and Capital Outlay – Funds to replace Unit 24, continuation of the upgrades to manholes and sewer main rehabilitation; software and computer systems upgrades, and office equipment and tools.

Proposed Wastewater Rates – Staff is recommending moderate wastewater rate increases of approximately 4.5% for FY 2014/15 through 2018/19 primarily due to the increased City of Los Angeles cost projections.

Thank you.

Prepared by:



Ron L. Mitchell
Secretary-Treasurer

Attachments:

Submitted by:



Dennis Erdman
General Manager

Residential Bi-monthly Bill
(3/4" Meter with Average Usage in Bi-monthly Period)
for Overall 6.0% Increase

Bi-monthly Usage	Ex. 3/4" Meter Service Charge	Ex. Bi-monthly Water Service Charge	Ex. Water Usage Charge Rate	Water Usage Charge	Ex. Water Bill	New 3/4" Meter Service Charge	New Bi-monthly Water Service Charge	New Water Usage Charge Rate	Water Usage Charge	New Water Bill	Bi-Monthly Increase	Effective Percentage Increase on Bi-Monthly Water Bill
0	\$17.10	\$34.20	\$4.12	\$0.00	\$34.20	\$18.12	\$36.25	\$4.37	\$0.00	\$36.25	\$2.05	6.0%
1	\$17.10	\$34.20	\$4.12	\$4.12	\$38.32	\$18.12	\$36.25	\$4.37	\$4.37	\$40.62	\$2.30	6.0%
2	\$17.10	\$34.20	\$4.12	\$8.24	\$42.44	\$18.12	\$36.25	\$4.37	\$8.74	\$44.99	\$2.55	6.0%
3	\$17.10	\$34.20	\$4.12	\$12.36	\$46.56	\$18.12	\$36.25	\$4.37	\$13.11	\$49.36	\$2.80	6.0%
4	\$17.10	\$34.20	\$4.12	\$16.48	\$50.68	\$18.12	\$36.25	\$4.37	\$17.48	\$53.73	\$3.05	6.0%
5	\$17.10	\$34.20	\$4.12	\$20.60	\$54.80	\$18.12	\$36.25	\$4.37	\$21.85	\$58.10	\$3.30	6.0%
6	\$17.10	\$34.20	\$4.12	\$24.72	\$58.92	\$18.12	\$36.25	\$4.37	\$26.22	\$62.47	\$3.55	6.0%
7	\$17.10	\$34.20	\$4.12	\$28.84	\$63.04	\$18.12	\$36.25	\$4.37	\$30.59	\$66.84	\$3.80	6.0%
8	\$17.10	\$34.20	\$4.12	\$32.96	\$67.16	\$18.12	\$36.25	\$5.65	\$36.24	\$72.49	\$5.33	7.9%
9	\$17.10	\$34.20	\$4.12	\$37.08	\$71.28	\$18.12	\$36.25	\$5.65	\$41.89	\$78.14	\$6.86	9.6%
10	\$17.10	\$34.20	\$4.12	\$41.20	\$75.40	\$18.12	\$36.25	\$5.65	\$47.54	\$83.79	\$8.39	11.1%
11	\$17.10	\$34.20	\$5.33	\$46.53	\$80.74	\$18.12	\$36.25	\$5.65	\$53.19	\$89.44	\$8.70	10.8%
12	\$17.10	\$34.20	\$5.33	\$51.86	\$86.07	\$18.12	\$36.25	\$5.65	\$58.84	\$95.09	\$9.02	10.5%
13	\$17.10	\$34.20	\$5.33	\$57.19	\$91.40	\$18.12	\$36.25	\$5.65	\$64.49	\$100.74	\$9.34	10.2%
14	\$17.10	\$34.20	\$5.33	\$62.53	\$96.73	\$18.12	\$36.25	\$5.65	\$70.14	\$106.39	\$9.66	10.0%
15	\$17.10	\$34.20	\$5.33	\$67.86	\$102.06	\$18.12	\$36.25	\$5.65	\$75.79	\$112.04	\$9.98	9.8%
16	\$17.10	\$34.20	\$5.33	\$73.19	\$107.39	\$18.12	\$36.25	\$5.65	\$81.44	\$117.69	\$10.30	9.6%
17	\$17.10	\$34.20	\$5.33	\$78.52	\$112.72	\$18.12	\$36.25	\$5.65	\$87.09	\$123.34	\$10.62	9.4%
18	\$17.10	\$34.20	\$5.33	\$83.85	\$118.05	\$18.12	\$36.25	\$5.65	\$92.74	\$128.99	\$10.94	9.3%
19	\$17.10	\$34.20	\$5.33	\$89.18	\$123.39	\$18.12	\$36.25	\$5.65	\$98.39	\$134.64	\$11.25	9.1%
20	\$17.10	\$34.20	\$5.33	\$94.51	\$128.72	\$18.12	\$36.25	\$5.65	\$104.04	\$140.29	\$11.57	9.0%
21	\$17.10	\$34.20	\$5.33	\$99.84	\$134.05	\$18.12	\$36.25	\$5.65	\$109.69	\$145.94	\$11.89	8.9%
22	\$17.10	\$34.20	\$5.33	\$105.18	\$139.38	\$18.12	\$36.25	\$5.65	\$115.34	\$151.59	\$12.21	8.8%
23	\$17.10	\$34.20	\$5.33	\$110.51	\$144.71	\$18.12	\$36.25	\$5.65	\$120.99	\$157.24	\$12.53	8.7%
24	\$17.10	\$34.20	\$5.33	\$115.84	\$150.04	\$18.12	\$36.25	\$5.65	\$126.64	\$162.89	\$12.85	8.6%
25	\$17.10	\$34.20	\$5.33	\$121.17	\$155.37	\$18.12	\$36.25	\$5.65	\$132.29	\$168.54	\$13.17	8.5%
26	\$17.10	\$34.20	\$5.33	\$126.50	\$160.70	\$18.12	\$36.25	\$5.65	\$137.94	\$174.19	\$13.49	8.4%
27	\$17.10	\$34.20	\$5.33	\$131.83	\$166.04	\$18.12	\$36.25	\$5.65	\$143.59	\$179.84	\$13.80	8.3%
28	\$17.10	\$34.20	\$5.33	\$137.16	\$171.37	\$18.12	\$36.25	\$5.65	\$149.24	\$185.49	\$14.12	8.2%
29	\$17.10	\$34.20	\$5.33	\$142.49	\$176.70	\$18.12	\$36.25	\$5.65	\$154.89	\$191.14	\$14.44	8.2%
30	\$17.10	\$34.20	\$5.33	\$147.83	\$182.03	\$18.12	\$36.25	\$5.65	\$160.54	\$196.79	\$14.76	8.1%
31	\$17.10	\$34.20	\$5.33	\$153.16	\$187.36	\$18.12	\$36.25	\$5.65	\$166.19	\$202.44	\$15.08	8.0%
32	\$17.10	\$34.20	\$5.33	\$158.49	\$192.69	\$18.12	\$36.25	\$5.65	\$171.84	\$208.09	\$15.40	8.0%
33	\$17.10	\$34.20	\$5.33	\$163.82	\$198.02	\$18.12	\$36.25	\$8.05	\$179.89	\$216.14	\$18.12	9.1%
34	\$17.10	\$34.20	\$7.60	\$171.42	\$205.62	\$18.12	\$36.25	\$8.05	\$187.94	\$224.19	\$18.57	9.0%
35	\$17.10	\$34.20	\$7.60	\$179.02	\$213.22	\$18.12	\$36.25	\$8.05	\$195.99	\$232.24	\$19.02	8.9%
36	\$17.10	\$34.20	\$7.60	\$186.62	\$220.82	\$18.12	\$36.25	\$8.05	\$204.04	\$240.29	\$19.47	8.8%
37	\$17.10	\$34.20	\$7.60	\$194.22	\$228.42	\$18.12	\$36.25	\$8.05	\$212.09	\$248.34	\$19.92	8.7%
38	\$17.10	\$34.20	\$7.60	\$201.82	\$236.02	\$18.12	\$36.25	\$8.05	\$220.14	\$256.39	\$20.37	8.6%
39	\$17.10	\$34.20	\$7.60	\$209.42	\$243.62	\$18.12	\$36.25	\$8.05	\$228.19	\$264.44	\$20.82	8.5%
40	\$17.10	\$34.20	\$7.60	\$217.02	\$251.22	\$18.12	\$36.25	\$8.05	\$236.24	\$272.49	\$21.27	8.5%

Residential Bi-monthly Bill
(3/4" Meter with Average Usage in Bi-monthly Period)
for Overall 6.0% Increase

Bi-monthly Usage	Ex. 3/4" Meter Service Charge	Ex. Bi-monthly Water Service Charge	Ex. Water Usage Charge Rate	Water Usage Charge	Ex. Water Bill	New 3/4" Meter Service Charge	New Bi-monthly Water Service Charge	New Water Usage Charge Rate	Water Usage Charge	New Water Bill	Bi-Monthly Increase	Effective Percentage Increase on Bi-Monthly Water Bill
41	\$17.10	\$34.20	\$7.60	\$224.62	\$258.82	\$18.12	\$36.25	\$8.05	\$244.29	\$280.54	\$21.72	8.4%
42	\$17.10	\$34.20	\$7.60	\$232.22	\$266.42	\$18.12	\$36.25	\$8.05	\$252.34	\$288.59	\$22.17	8.3%
43	\$17.10	\$34.20	\$7.60	\$239.82	\$274.02	\$18.12	\$36.25	\$8.05	\$260.39	\$296.64	\$22.62	8.3%
44	\$17.10	\$34.20	\$7.60	\$247.42	\$281.62	\$18.12	\$36.25	\$8.05	\$268.44	\$304.69	\$23.07	8.2%
45	\$17.10	\$34.20	\$7.60	\$255.02	\$289.22	\$18.12	\$36.25	\$8.05	\$276.49	\$312.74	\$23.52	8.1%
46	\$17.10	\$34.20	\$7.60	\$262.62	\$296.82	\$18.12	\$36.25	\$8.05	\$284.54	\$320.79	\$23.97	8.1%
47	\$17.10	\$34.20	\$7.60	\$270.22	\$304.42	\$18.12	\$36.25	\$8.05	\$292.59	\$328.84	\$24.42	8.0%
48	\$17.10	\$34.20	\$7.60	\$277.82	\$312.02	\$18.12	\$36.25	\$8.05	\$300.64	\$336.89	\$24.87	8.0%
49	\$17.10	\$34.20	\$7.60	\$285.42	\$319.62	\$18.12	\$36.25	\$8.05	\$308.69	\$344.94	\$25.32	7.9%
50	\$17.10	\$34.20	\$7.60	\$293.02	\$327.22	\$18.12	\$36.25	\$8.05	\$316.74	\$352.99	\$25.77	7.9%
51	\$17.10	\$34.20	\$10.19	\$303.21	\$337.41	\$18.12	\$36.25	\$10.80	\$327.54	\$363.79	\$26.38	7.8%
52	\$17.10	\$34.20	\$10.19	\$313.40	\$347.60	\$18.12	\$36.25	\$10.80	\$349.14	\$385.39	\$37.79	10.9%
53	\$17.10	\$34.20	\$10.19	\$323.59	\$357.79	\$18.12	\$36.25	\$10.80	\$359.94	\$396.19	\$38.40	10.7%
54	\$17.10	\$34.20	\$10.19	\$333.78	\$367.98	\$18.12	\$36.25	\$10.80	\$370.74	\$406.99	\$39.01	10.6%
55	\$17.10	\$34.20	\$10.19	\$343.97	\$378.17	\$18.12	\$36.25	\$10.80	\$381.54	\$417.79	\$39.62	10.5%
56	\$17.10	\$34.20	\$10.19	\$354.16	\$388.36	\$18.12	\$36.25	\$10.80	\$392.34	\$428.59	\$40.23	10.4%
57	\$17.10	\$34.20	\$10.19	\$364.35	\$398.55	\$18.12	\$36.25	\$10.80	\$403.14	\$439.39	\$40.84	10.2%
58	\$17.10	\$34.20	\$10.19	\$374.54	\$408.74	\$18.12	\$36.25	\$10.80	\$413.94	\$450.19	\$41.45	10.1%
59	\$17.10	\$34.20	\$10.19	\$384.73	\$418.93	\$18.12	\$36.25	\$10.80	\$424.74	\$460.99	\$42.06	10.0%
60	\$17.10	\$34.20	\$10.19	\$394.92	\$429.12	\$18.12	\$36.25	\$10.80	\$435.54	\$471.79	\$42.67	9.9%
61	\$17.10	\$34.20	\$10.19	\$405.11	\$439.31	\$18.12	\$36.25	\$10.80	\$446.34	\$482.59	\$43.28	9.9%
62	\$17.10	\$34.20	\$10.19	\$415.30	\$449.50	\$18.12	\$36.25	\$10.80	\$457.14	\$493.39	\$43.89	9.8%
63	\$17.10	\$34.20	\$10.19	\$425.49	\$459.69	\$18.12	\$36.25	\$10.80	\$467.94	\$504.19	\$44.50	9.7%
64	\$17.10	\$34.20	\$10.19	\$435.68	\$469.88	\$18.12	\$36.25	\$10.80	\$478.74	\$514.99	\$45.11	9.6%
65	\$17.10	\$34.20	\$10.19	\$445.87	\$480.07	\$18.12	\$36.25	\$10.80	\$489.54	\$525.79	\$45.72	9.5%
66	\$17.10	\$34.20	\$10.19	\$456.06	\$490.26	\$18.12	\$36.25	\$10.80	\$500.34	\$536.59	\$46.33	9.4%
67	\$17.10	\$34.20	\$10.19	\$466.25	\$500.45	\$18.12	\$36.25	\$10.80	\$511.14	\$547.39	\$46.94	9.4%
68	\$17.10	\$34.20	\$10.19	\$476.44	\$510.64	\$18.12	\$36.25	\$10.80	\$521.94	\$558.19	\$47.55	9.3%
69	\$17.10	\$34.20	\$10.19	\$486.63	\$520.83	\$18.12	\$36.25	\$10.80	\$532.74	\$568.99	\$48.16	9.2%
70	\$17.10	\$34.20	\$10.19	\$496.82	\$531.02	\$18.12	\$36.25	\$10.80	\$543.54	\$579.79	\$48.77	9.2%
71	\$17.10	\$34.20	\$10.19	\$507.01	\$541.21	\$18.12	\$36.25	\$10.80	\$554.34	\$590.59	\$49.38	9.1%
72	\$17.10	\$34.20	\$10.19	\$517.20	\$551.40	\$18.12	\$36.25	\$10.80	\$565.14	\$601.39	\$49.99	9.1%
73	\$17.10	\$34.20	\$10.19	\$527.39	\$561.59	\$18.12	\$36.25	\$10.80	\$575.94	\$612.19	\$50.60	9.0%
74	\$17.10	\$34.20	\$10.19	\$537.58	\$571.78	\$18.12	\$36.25	\$10.80	\$586.74	\$622.99	\$51.21	9.0%
75	\$17.10	\$34.20	\$10.19	\$547.77	\$581.97	\$18.12	\$36.25	\$10.80	\$597.54	\$633.79	\$51.82	8.9%

Table Water Budget WB - 1 Projected Water Customers - FY 14/15- Preliminary V2

Water Meter Size	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
3/4 inch	7,032	6,927	6,930	6,953	6,956	6,959	6,962	6,965	6,968
1 inch	800	806	812	807	810	813	816	819	822
1-1/2 inch	144	142	143	142	143	144	145	146	147
2 inch	66	64	64	64	65	66	67	68	69
3 inch	26	24	24	24	24	24	24	24	24
4 inch	2	2	2	2	2	2	2	2	2
6 inch	0	0	0	0	0	0	0	0	0
8 inch	0	0	0	0	0	0	0	0	0
10 inch	0	0	0	0	0	0	0	0	0
Total water services	8,070	7,965 ⁽¹⁾	7,975	7,992	8,000	8,008	8,016	8,024	8,032
Projected No. of Account Annual Increase	5	(105)	10	27	8	8	8	8	8
Projected Percent of Account Annual Increase	0.06%	-1.30%	0.13%	0.34%	0.10%	0.10%	0.10%	0.10%	0.10%

Note:

1. Number of accounts reduced during internal audit of water accounts in FY 12/13

Wastewater Budget Table WWB-1 Projected Wastewater Accounts - FY 14/15 - Preliminary V2

Wastewater Accounts	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
Residential Units - EDU⁽¹⁾									
Single Family	5,278	5,238	5,240	5,271	5,273	5,275	5,277	5,279	5,281
Multi-family	2,605	2,570	2,570	2,546	2,548	2,550	2,552	2,554	2,556
Total Residential Units - EDU⁽¹⁾	7,883	7,808	7,810	7,817	7,821	7,825	7,829	7,833	7,837
Total No. of Accounts - Commercial	176	166	166	166	167	167	167	167	167
Total No. of Accounts - School	6	6	6	6	6	6	6	6	6
Total EDUs	8,065	7,980⁽²⁾	7,982	7,989	7,994	7,998	8,002	8,006	8,010
Projected No. of Account Annual Increase	13	(85)	2	2	5	4	4	4	4
Projected Percent of Account Annual Increase	0.16%	-0.76%	0.03%	0.03%	0.06%	0.05%	0.05%	0.05%	0.05%

Note:

- EDU = Equivalent Dwelling Units
- Number of Connection reduced during audit of Wastewater accounts for the 2012 Volume-Based Wastewater Study

Wastewater Budget Table WWB-2 Revenues - FY 14/15 - Preliminary V2

	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
Wastewater User and Standby Charge Revenues									
Single family dwelling unit	\$ 2,730,151	\$ 2,928,381	\$ 2,028,000	\$ 3,270,000	\$ 2,136,000	\$ 2,231,000	\$ 2,327,000	\$ 2,423,000	\$ 2,519,000
Multiple family dwelling			\$ 995,000		\$ 1,032,000	\$ 1,079,000	\$ 1,125,000	\$ 1,172,000	\$ 1,219,000
Total School charges			\$ 93,000		\$ 95,000	\$ 100,000	\$ 105,000	\$ 111,000	\$ 117,000
Total Commercial user charges			\$ 219,000		\$ 251,000	\$ 280,000	\$ 274,000	\$ 284,000	\$ 294,000
Sewer Service Discount			\$ (150,000)		\$ (150,000)	\$ (150,000)	\$ (150,000)	\$ (150,000)	\$ (150,000)
Total user charge revenues	\$ 2,730,151	\$ 2,928,381	\$ 3,185,000	\$ 3,270,000	\$ 3,364,000	\$ 3,540,000	\$ 3,681,000	\$ 3,840,000	\$ 3,999,000
Permit/Connection Fees/Misc.									
Sewer Permits	\$ 3,000	\$ 1,500	\$ 5,000	\$ 2,000	\$ 6,000	\$ 6,000	\$ 7,000	\$ 7,000	\$ 7,000
Late Fees	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -		
Sewer Connection Fee (CVWD)	\$ 2,254	\$ 59,914	\$ 9,000	\$ 15,000	\$ 11,000	\$ 13,000	\$ 15,000	\$ 15,000	\$ 15,000
Sewer Connection Fee (Admin Fee)	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -		
Misc. Revenue	\$ 10,503	\$ 13,776	\$ 7,000	\$ 1,000	\$ 8,000	\$ 9,000	\$ 10,000	\$ 10,000	\$ 10,000
Rental Properties Income	\$ 2,400	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500
Total Permit/Connection Fees/Misc.	\$ 18,157	\$ 82,690	\$ 28,500	\$ 25,500	\$ 32,500	\$ 35,500	\$ 39,500	\$ 39,500	\$ 39,500
Interest Earned	\$ 30	\$ 47,781	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500
Total Revenue	\$ 2,748,338	\$ 3,058,851	\$ 3,214,000	\$ 3,296,000	\$ 3,397,000	\$ 3,576,000	\$ 3,721,000	\$ 3,880,000	\$ 4,039,000

Wastewater Budget Table WWB-3 City of Los Angeles O & M and Capital Expense - FY 14/15 - Preliminary V2

					1	2	3	4	5
Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
City of Los Angeles Projection O & M	\$ 358,521	\$ 494,963	\$ 736,900	\$ 474,804	\$ 719,280	\$ 719,280	\$ 719,280	\$ 719,280	\$ 719,280
City of Los Angeles Projection Capital	\$ 258,882	\$ 370,089	\$ 684,400	\$ 493,924	\$ 1,006,020	\$ 1,006,020	\$ 1,006,020	\$ 1,006,020	\$ 1,006,020
City of Los Angeles Projection Total	\$ 754,403	\$ 865,052	\$ 1,421,300	\$ 926,312	\$ 1,725,300	\$ 1,725,300	\$ 1,725,300	\$ 1,725,300	\$ 1,725,300

Notes:

1. Source for FY 2014-15: City of Los Angeles - Amalgamated System Sewer Service Charges (ASSSC) include both capital and O&M charges dated 1/17/14
2. Projected FY 2013/14 includes City of LA Reconciliation Charge for FY 2011/12 of <\$452,572> & FY 12/13 of <\$42,416>

Wastewater Budget Table WWB - 4 Operation and Maintenance Expenses - FY 14/15 - Preliminary V2

Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
TREATMENT AND DISPOSAL CHARGES									
Los Angeles ASSSC	\$ 754,403	\$ 865,052	\$ 1,421,300	\$ 926,312	\$ 1,725,300	\$ 1,725,300	\$ 1,725,300	\$ 1,725,300	\$ 1,725,300
Los Angeles ASSS Facilities Charges	\$ 3,347	\$ 33,400	\$ 35,000	\$ 27,600	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000
TOTAL TREATMENT AND DISPOSAL CHARGES	\$ 757,750	\$ 898,452	\$ 1,456,300	\$ 953,912	\$ 1,760,300	\$ 1,760,300	\$ 1,760,300	\$ 1,760,300	\$ 1,760,300
COMPENSATION AND BENEFITS									
Director Fees	\$ 8,109	\$ 8,280	\$ 8,100	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 9,000
Labor									
Officer Salaries	\$ 136,435	\$ 139,364	\$ 147,400	\$ 144,000	\$ 154,000	\$ 157,000	\$ 160,000	\$ 164,000	\$ 168,000
Administrative Services Labor	\$ 223,022	\$ 221,670	\$ 235,600	\$ 220,000	\$ 281,000	\$ 289,000	\$ 301,000	\$ 311,000	\$ 321,000
Administrative Services Labor - OT	\$ 6,367	\$ 7,491	\$ 3,850	\$ 7,500	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
Engineering Department Labor	\$ 112,079	\$ 90,099	\$ 133,200	\$ 114,500	\$ 144,000	\$ 149,000	\$ 153,000	\$ 158,000	\$ 162,000
Engineering Department Labor-OT	\$ 317	\$ 846	\$ 250	\$ 500	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
Plant - Office Labor	\$ 50,756	\$ 56,922	\$ 77,800	\$ 63,000	\$ 79,000	\$ 80,000	\$ 82,000	\$ 84,000	\$ 86,000
Plant - Office Labor-OT	\$ 272	\$ 75	\$ 167	\$ 200	\$ -	\$ -	\$ -	\$ -	\$ -
Maintenance Workers Labor	\$ 141,079	\$ 94,700	\$ 204,700	\$ 150,000	\$ 197,000	\$ 203,000	\$ 218,000	\$ 226,000	\$ 234,000
Maintenance Workers Labor-OT	\$ 16,827	\$ 11,025	\$ 11,300	\$ 16,000	\$ 11,000	\$ 11,000	\$ 12,000	\$ 12,000	\$ 12,000
Standby Pay	\$ 14,326	\$ 14,944	\$ 15,300	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 16,000	\$ 16,000
Auto Allowance	\$ 10,200	\$ 8,825	\$ 8,700	\$ 8,700	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000
Labor Transfer to Capital	\$ (29,043)	\$ (6,778)	\$ (4,833)	\$ (5,000)	\$ (5,000)	\$ (5,000)	\$ (5,000)	\$ (5,000)	\$ (5,000)
Labor Total	\$ 690,746	\$ 654,241	\$ 841,534	\$ 742,400	\$ 900,000	\$ 923,000	\$ 960,000	\$ 990,000	\$ 1,019,000
Sick and Vacation - Office	\$ 41,507	\$ 43,762	\$ 42,900	\$ 45,000	\$ 44,000	\$ 46,000	\$ 47,000	\$ 48,000	\$ 50,000
Sick and Vacation - Plant	\$ 27,672	\$ 29,174	\$ 28,600	\$ 30,000	\$ 30,000	\$ 30,000	\$ 31,000	\$ 32,000	\$ 33,000
Taxes - Payroll (Total Employees)	\$ 82,846	\$ 79,514	\$ 86,600	\$ 76,000	\$ 89,000	\$ 90,000	\$ 94,000	\$ 96,000	\$ 98,000
PERS Retirement (Total Employees)	\$ 160,958	\$ 172,093	\$ 181,500	\$ 174,000	\$ 195,000	\$ 210,000	\$ 223,000	\$ 235,000	\$ 247,000
Interest Expense - CalPERS Pension Side Fund	\$ 23,388	\$ 12,788	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Workers' Compensation - Office	\$ 13,990	\$ 12,755	\$ 11,000	\$ 9,000	\$ 9,600	\$ 10,000	\$ 10,000	\$ 9,000	\$ 9,000
Workers' Compensation - Plant	\$ 55,308	\$ 55,640	\$ 49,100	\$ 38,000	\$ 41,000	\$ 43,000	\$ 44,000	\$ 39,000	\$ 41,000
Health and Dental and Vision - Office	\$ 75,521	\$ 70,832	\$ 82,100	\$ 78,000	\$ 87,000	\$ 89,000	\$ 91,000	\$ 92,000	\$ 94,000
Life & Disability Insurance - Office	\$ 4,750	\$ 4,864	\$ 5,500	\$ 5,500	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
Health and Dental and Vision - Plant	\$ 91,750	\$ 99,082	\$ 93,400	\$ 86,000	\$ 95,000	\$ 98,000	\$ 99,000	\$ 101,000	\$ 103,000
Life & Disability Insurance - Plant	\$ 1,581	\$ 467	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Self Insurance	\$ 9,296	\$ 6,932	\$ 8,700	\$ 8,700	\$ 8,700	\$ 8,500	\$ 9,000	\$ 9,000	\$ 9,000
Retiree - Health Care Expense	\$ 49,936	\$ 52,371	\$ 54,700	\$ 59,000	\$ 62,000	\$ 63,000	\$ 64,000	\$ 65,000	\$ 67,000
Compensation Total	\$ 638,503	\$ 640,274	\$ 644,100	\$ 609,200	\$ 667,300	\$ 693,500	\$ 718,000	\$ 732,000	\$ 757,000
TOTAL COMPENSATION AND BENEFITS	\$ 1,329,249	\$ 1,294,515	\$ 1,485,634	\$ 1,351,600	\$ 1,567,300	\$ 1,616,500	\$ 1,678,000	\$ 1,722,000	\$ 1,776,000
PLANT OPERATING EXPENSES									
Power - Lift Station	\$ 834	\$ 720	\$ 700	\$ 700	\$ 700	\$ 700	\$ 750	\$ 800	\$ 850
Glenwood - Utilities	\$ 2,544	\$ 2,575	\$ 4,000	\$ 3,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 6,000
Glenwood - Phone	\$ 10,441	\$ 6,280	\$ 9,500	\$ 11,000	\$ 10,500	\$ 11,000	\$ 11,000	\$ 12,000	\$ 12,000
Glenwood - Cell Phones	\$ 2,513	\$ 2,319	\$ 2,800	\$ 2,200	\$ 3,000	\$ 3,200	\$ 3,000	\$ 4,000	\$ 4,000
Glenwood - Plant Maintenance	\$ 4,074	\$ 3,829	\$ 3,750	\$ 3,750	\$ 8,400	\$ 8,500	\$ 9,000	\$ 9,000	\$ 10,000
Glenwood - Landscape	\$ 1,482	\$ 1,568	\$ 2,000	\$ 1,500	\$ 2,300	\$ 2,500	\$ 3,000	\$ 3,000	\$ 3,000
Telemetrying & Signal System	\$ 3,978	\$ 4,855	\$ 2,800	\$ 2,800	\$ 4,000	\$ 4,500	\$ 5,000	\$ 6,000	\$ 6,000
SCADA Hardware	\$ -	\$ -	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,500	\$ 3,000	\$ 4,000	\$ 4,000
SCADA Software	\$ -	\$ -	\$ 4,750	\$ 4,750	\$ 3,700	\$ 4,000	\$ 4,000	\$ 5,000	\$ 5,000
SCADA Phone Lines & Radio	\$ -	\$ -	\$ 1,300	\$ 1,300	\$ 1,700	\$ 2,000	\$ 2,000	\$ 3,000	\$ 3,000
Glenwood - Uniforms	\$ 2,955	\$ 2,568	\$ 3,300	\$ 2,600	\$ 3,000	\$ 3,200	\$ 3,000	\$ 4,000	\$ 4,000
Glenwood - Safety and Security System	\$ 5,169	\$ 11,662	\$ 5,000	\$ 7,000	\$ 6,000	\$ 6,300	\$ 7,000	\$ 7,000	\$ 7,000
Training - Plant	\$ 1,089	\$ 3,171	\$ 2,350	\$ 2,400	\$ 2,700	\$ 2,800	\$ 3,000	\$ 3,000	\$ 3,000
Office Supplies & Misc Expenses - Plant	\$ -	\$ -	\$ 2,000	\$ 6,000	\$ 6,000	\$ 6,500	\$ 7,000	\$ 7,000	\$ 7,000
Tools and Equipment Maintenance	\$ 19,627	\$ 27,015	\$ 5,000	\$ 16,000	\$ 15,000	\$ 23,500	\$ 25,000	\$ 26,000	\$ 27,000
Taxes - Property	\$ 5,647	\$ 3,959	\$ 3,750	\$ 3,750	\$ 4,000	\$ 4,200	\$ 4,000	\$ 5,000	\$ 5,000
Education Reimbursement/Cert. - WW	\$ 464	\$ -	\$ 2,000	\$ 2,000	\$ 3,000	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500
TOTAL PLANT OPERATING EXPENSES	\$ 60,817	\$ 70,521	\$ 57,000	\$ 72,750	\$ 81,000	\$ 91,900	\$ 96,250	\$ 105,300	\$ 108,350

Wastewater Budget Table WWB - 4 Operation and Maintenance Expenses - FY 14/15 - Preliminary V2

Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
COLLECTION SYSTEM EXPENSE									
Sewer Flow Monitoring Expense	\$ 14,440	\$ 14,440	\$ 20,000	\$ 24,000	\$ 21,000	\$ 21,000	\$ 21,500	\$ 22,000	\$ 22,500
Pipelines - Maintenance	\$ 7,259	\$ 601	\$ 8,000	\$ 10,000	\$ 9,000	\$ 10,000	\$ 11,000	\$ 12,000	\$ 13,000
Sewer Interceptor - Maintenance	\$ 2,859	\$ 33	\$ 3,000	\$ 3,000	\$ 7,000	\$ 4,000	\$ 8,000	\$ 8,000	\$ 8,000
Sewer Lift Station - Maintenance	\$ 3,113	\$ 2,557	\$ 5,000	\$ 5,000	\$ 6,000	\$ 6,000	\$ 6,500	\$ 7,000	\$ 7,500
Auto/Truck - Maintenance	\$ 31,519	\$ 31,619	\$ 20,000	\$ 35,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000
Auto/Truck - Gas	\$ 8,216	\$ 7,616	\$ 8,500	\$ 8,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 10,000	\$ 10,000
Auto/Truck - Diesel	\$ 6,190	\$ 5,221	\$ 5,400	\$ 5,500	\$ 5,800	\$ 6,000	\$ 6,000	\$ 6,000	\$ 7,000
Sewer Camera Van Inspection	\$ 1,800	\$ 2,740	\$ 1,500	\$ 1,000	\$ 1,500	\$ 2,000	\$ 2,500	\$ 3,000	\$ 3,000
TOTAL COLLECTION SYSTEM EXPENSE	\$ 75,396	\$ 64,827	\$ 71,400	\$ 91,500	\$ 76,300	\$ 75,000	\$ 81,500	\$ 85,000	\$ 88,000
GENERAL AND ADMINISTRATIVE EXPENSES									
Engineering Department	\$ 4,234	\$ 4,060	\$ 4,250	\$ 4,500	\$ 5,000	\$ 5,500	\$ 6,000	\$ 7,000	\$ 7,000
Accounting - Audit	\$ 16,677	\$ 7,428	\$ 12,500	\$ 12,500	\$ 13,000	\$ 13,500	\$ 14,000	\$ 14,500	\$ 15,000
Legal Consulting Fees	\$ 14,122	\$ 14,289	\$ 16,000	\$ 12,000	\$ 14,000	\$ 17,000	\$ 15,000	\$ 15,000	\$ 15,000
Administrative Consultants	\$ 44,131	\$ 16,251	\$ 15,000	\$ 17,000	\$ 25,000	\$ 35,000	\$ -	\$ 2,500	\$ -
General Insurance (General Liability, Property, Fidelity)	\$ 33,975	\$ 44,394	\$ 50,000	\$ 47,000	\$ 53,000	\$ 56,000	\$ 59,000	\$ 62,000	\$ 65,000
Office Maintenance	\$ 2,949	\$ 4,147	\$ 3,250	\$ 3,000	\$ 3,300	\$ 4,000	\$ 4,000	\$ 4,000	\$ 5,000
Landscape Maintenance - Office	\$ 1,467	\$ 3,214	\$ 2,000	\$ 1,500	\$ 2,200	\$ 2,500	\$ 3,000	\$ 3,000	\$ 3,000
Office Supplies & Misc Expenses	\$ 4,863	\$ 13,898	\$ 4,000	\$ 6,000	\$ 2,000	\$ 2,500	\$ 6,000	\$ 6,100	\$ 6,200
Computers Hardware	\$ 7,285	\$ 5,468	\$ 8,500	\$ 8,500	\$ 8,500	\$ 9,000	\$ 9,000	\$ 10,000	\$ 10,000
Computer Software	\$ 17,895	\$ 2,892	\$ 12,500	\$ 12,500	\$ 13,000	\$ 10,000	\$ 13,000	\$ 13,000	\$ 14,000
Computer Software Maintenance/License	\$ 15,018	\$ 7,718	\$ 6,000	\$ 6,000	\$ 6,500	\$ 7,000	\$ 7,000	\$ 7,000	\$ 8,000
Utilities - Office	\$ 4,696	\$ 4,909	\$ 6,000	\$ 6,000	\$ 6,500	\$ 6,500	\$ 7,000	\$ 7,000	\$ 7,000
Phones and Communications - Office	\$ 9,978	\$ 13,243	\$ 9,500	\$ 8,000	\$ 10,000	\$ 10,000	\$ 11,000	\$ 11,000	\$ 11,000
Cell Phones - Office	\$ 5,914	\$ 5,164	\$ 5,750	\$ 5,200	\$ 5,500	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
Printing, Postage, Stationery, Copier Maintenance	\$ 38,481	\$ 45,132	\$ 39,500	\$ 30,000	\$ 40,500	\$ 42,000	\$ 42,500	\$ 43,500	\$ 44,500
Election Expense	\$ 38,923	\$ -	\$ 40,000	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ 60,000	\$ -
Uncollectible Accounts	\$ 2,322	\$ -	\$ 1,700	\$ 1,700	\$ 1,500	\$ 1,500	\$ 1,000	\$ 3,000	\$ 3,000
Training - Office	\$ 3,607	\$ 2,954	\$ 4,250	\$ 2,000	\$ 3,300	\$ 3,500	\$ 4,000	\$ 4,000	\$ 4,000
Conferences and Seminars - Office	\$ 3,739	\$ 2,103	\$ 4,250	\$ 4,000	\$ 4,700	\$ 5,000	\$ 5,000	\$ 7,000	\$ 7,000
Board of Directors - Conferences and Seminars	\$ 688	\$ 573	\$ 500	\$ 500	\$ 700	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
Misc Administration - Office	\$ 2,086	\$ 1,136	\$ 1,350	\$ 1,100	\$ 1,700	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000
Membership Renewals/Subscriptions	\$ 5,312	\$ 7,611	\$ 6,500	\$ 9,000	\$ 8,500	\$ 9,000	\$ 9,000	\$ 9,000	\$ 10,000
Board of Directors - Misc Administration	\$ 465	\$ 654	\$ 500	\$ 500	\$ 400	\$ 500	\$ 1,000	\$ 1,000	\$ 1,000
Bank Charges	\$ 8,218	\$ 9,486	\$ 11,500	\$ 10,000	\$ 12,000	\$ 12,500	\$ 13,000	\$ 13,500	\$ 14,000
Rental Properties Expense	\$ 4,065	\$ 38	\$ 850	\$ 1,250	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
GENERAL AND ADMINISTRATIVE EXPENSES	\$ 291,110	\$ 216,762	\$ 266,150	\$ 259,750	\$ 241,800	\$ 312,500	\$ 239,500	\$ 313,100	\$ 259,700
TOTAL WASTEWATER SYSTEM EXPENSE (W/O LA Treatment Costs)	\$ 1,756,572	\$ 1,646,625	\$ 1,880,184	\$ 1,775,600	\$ 1,966,400	\$ 2,095,900	\$ 2,095,250	\$ 2,225,400	\$ 2,232,050
TOTAL WASTEWATER SYSTEM EXPENSE (W/O LA Treatment & Labor Costs)	\$ 427,323	\$ 352,110	\$ 394,550	\$ 424,000	\$ 399,100	\$ 479,400	\$ 417,250	\$ 503,400	\$ 456,050

Wastewater Budget Table WWB - 5 Reserve Targets - FY 14/15 - Preliminary V2

Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
Rate stabilization (a)	\$ 412,251	\$ 502,087	\$ 482,100	\$ 494,400	\$ 509,550	\$ 536,400	\$ 558,150	\$ 582,000	\$ 605,850
Emergency reserves (b)	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000
Depreciation (reserves for replacements)	\$ 700,000	\$ 750,000	\$ 800,000	\$ 800,000	\$ 850,000	\$ 900,000	\$ 950,000	\$ 1,000,000	\$ 1,050,000
Working cash (c)	\$ 290,000	\$ 270,000	\$ 310,000	\$ 300,000	\$ 330,000	\$ 350,000	\$ 350,000	\$ 370,000	\$ 370,000
Total Target WW Reserves	\$ 2,152,251	\$ 2,272,087	\$ 2,342,100	\$ 2,344,400	\$ 2,439,550	\$ 2,536,400	\$ 2,608,150	\$ 2,702,000	\$ 2,775,850

Note:

Cash reserves target is per 6/30/03 policy in Annual Financial Statement

a. Rate stabilization reserve target equals 15 percent of sewer sales

b. The emergency reserve is set at \$750,000.

c. The working cash level is set at two months of O&M expenses.

Wastewater Budget Table WWB-6 CIP & Capital Outlay - FY 14/15 - Preliminary V2

Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
1. Collections Systems	\$ 224,495	\$ 32,688	\$ 35,000	\$ 12,920	\$ 55,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000
2. Interceptor System	\$ 3,447	\$ -	\$ 2,000	\$ -	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000
3. Lift Station/ Diverter Valve	\$ 25,421	\$ 2,377	\$ 3,000	\$ -	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
4. Technology (Sewer Projects Only)	\$ -	\$ 10,720	\$ 5,000	\$ -	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
5. Public Safety/Emergency Response	\$ -	\$ -	\$ 40,000	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ -
6. Facilities & Planning	\$ -	\$ -	\$ 20,000	\$ -	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000
7. Misc. Sewer Projects	\$ 31,182	\$ -	\$ -	\$ -	\$ 30,000	\$ 4,450	\$ 4,200	\$ 3,500	\$ 3,500
Total CIP Projects	\$ 284,545	\$ 45,785	\$ 105,000	\$ 12,920	\$ 125,000	\$ 109,450	\$ 109,200	\$ 108,500	\$ 108,500
Capital Outlay									
Software (Spring Brook) - Fixed Assets			\$ 3,750	\$ -	\$ 3,750				
Spring Brook Software - Payroll Module						\$ 6,250			
Spring Brook Software - Work Order Module							\$ 8,750		
Spring Brook Software - Project Management Module								\$ 5,000	
Spring Brook Software - Extend Budget Module									\$ 5,000
Upgrade SCADA Equipment			\$ 16,500	\$ -	\$ 6,600	\$ 6,600	\$ 6,600	\$ 6,600	\$ 6,600
Upgrade Computer Hardware			\$ 5,000	\$ -	\$ 6,600	\$ 6,600	\$ 6,600	\$ 6,600	\$ 6,600
Main Office - Roof			\$ 10,000	\$ -	\$ 10,000	\$ 3,300	\$ 3,300	\$ 3,300	\$ 3,300
Main Office - Seismic Upgrades			\$ 17,000	\$ -	\$ 17,000				
Main Office - Upgrades			\$ 1,700	\$ -	\$ 2,050				
Equipment Outlay									
Emergency Generator - 70 kW (Field)			\$ 5,000	\$ -	\$ 5,000				
Sewer Cover Transmitter			\$ 10,000	\$ -	\$ 10,000				
Sewer Vactor Truck (3-year payback)						\$ 75,000	\$ 75,000	\$ 75,000	
Vehicle Replacement - Unit 5 (25% Sewer)			\$ 10,000	\$ 9,985					
Vehicle Replacement - Unit 7 (25% Sewer)			\$ 7,000	\$ 5,959					
Vehicle Replacement - Unit 12 (25% Sewer)			\$ 6,750	\$ 5,356					
Annual Vehicle Replacement					\$ 22,500	\$ 18,300	\$ 18,300	\$ 25,000	\$ 25,000
Total CO Projects	\$ -	\$ -	\$ 101,200	\$ 21,300	\$ 83,500	\$ 116,050	\$ 118,550	\$ 121,500	\$ 46,500
Total CIP & CO Projects	\$ 284,545	\$ 45,785	\$ 206,200	\$ 34,220	\$ 208,500	\$ 225,500	\$ 227,750	\$ 230,000	\$ 155,000

Wastewater Budget Table WWB - 7 Sources and Applications of Funds - FY 14/15 - Preliminary V2

Budget	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
REVENUE									
Projected user charges	\$ 2,730,151	\$ 2,928,381	\$ 3,185,000	\$ 3,270,000	\$ 3,364,000	\$ 3,540,000	\$ 3,681,000	\$ 3,840,000	\$ 3,999,000
Total permit/connection fee	\$ 18,157	\$ 82,690	\$ 28,500	\$ 25,500	\$ 32,500	\$ 35,500	\$ 39,500	\$ 39,500	\$ 39,500
Transfer from MTBE for PERS Side Fund	\$ -	\$ 288,397	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest earnings	\$ 30	\$ 47,781	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500
TOTAL REVENUE	\$ 2,748,338	\$ 3,347,248	\$ 3,214,000	\$ 3,296,000	\$ 3,397,000	\$ 3,576,000	\$ 3,721,000	\$ 3,880,000	\$ 4,039,000
EXPENSE									
City of LA Sewer Service Charges	\$ 757,750	\$ 898,452	\$ 1,456,300	\$ 953,912	\$ 1,760,300	\$ 1,760,300	\$ 1,760,300	\$ 1,760,300	\$ 1,760,300
Sewer Labor & Benefits	\$ 1,329,249	\$ 1,294,515	\$ 1,486,000	\$ 1,351,600	\$ 1,567,300	\$ 1,616,500	\$ 1,678,000	\$ 1,722,000	\$ 1,776,000
Sewer O & M Expense	\$ 427,323	\$ 352,110	\$ 406,800	\$ 424,000	\$ 399,100	\$ 479,400	\$ 417,250	\$ 503,400	\$ 456,050
Sewer CIP & CO Expense	\$ 284,545	\$ 45,785	\$ 251,200	\$ 34,220	\$ 208,500	\$ 225,500	\$ 227,750	\$ 230,000	\$ 155,000
PERS Side Fund	\$ -	\$ 288,397	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL EXPENSE	\$ 2,798,867	\$ 2,879,260	\$ 3,600,300	\$ 2,763,732	\$ 3,935,200	\$ 4,081,700	\$ 4,083,300	\$ 4,215,700	\$ 4,147,350
Additions (reductions) to cash	\$ (50,529)	\$ 467,989	\$ (386,300)	\$ 532,268	\$ (538,200)	\$ (505,700)	\$ (362,300)	\$ (335,700)	\$ (108,350)
Effective date of Wastewater rates	1/1/12	7/1/12	7/1/13	7/1/13	7/1/14	7/1/15	7/1/16	7/1/17	7/1/18
Rate increase	0%	8.2%	8.4%	8.4%	4.7%	4.4%	4.3%	4.1%	3.9%
User Charge (monthly EDUs)	\$ 27.50	\$ 29.75	\$ 32.25	\$ 32.25	\$ 33.75	\$ 35.25	\$ 36.75	\$ 38.25	\$ 39.75
Commercial - Monthly Cost	\$ 1.70	\$ 1.80	\$ 2.00	\$ 2.00	\$ 2.10	\$ 2.20	\$ 2.30	\$ 2.40	\$ 2.50
Commercial - \$/Unit	\$ 4.55	\$ 4.90	\$ 5.30	\$ 5.30	\$ 5.50	\$ 5.70	\$ 5.90	\$ 6.10	\$ 6.30
Secondary School - Quantity Charge per 100 ADA	\$ 132.10	\$ 142.90	\$ 154.90	\$ 154.90	\$ 162.10	\$ 169.30	\$ 176.50	\$ 183.70	\$ 190.90
Primary School - Quantity Charge per 100 ADA	\$ 66.00	\$ 71.40	\$ 77.40	\$ 77.40	\$ 81.00	\$ 84.60	\$ 88.20	\$ 91.80	\$ 95.40
Customer Revenue EDUs									
FY beginning Wastewater Reserves	\$ 3,554,860	\$ 3,504,331	\$ 3,972,320	\$ 3,972,320	\$ 4,504,588	\$ 3,966,388	\$ 3,460,688	\$ 3,098,388	\$ 2,762,688
Additions (reductions)	\$ (50,529)	\$ 467,989	\$ (386,300)	\$ 532,268	\$ (538,200)	\$ (505,700)	\$ (362,300)	\$ (335,700)	\$ (108,350)
FY ending Wastewater Reserves	\$ 3,504,331	\$ 3,972,320	\$ 3,586,020	\$ 4,504,588	\$ 3,966,388	\$ 3,460,688	\$ 3,098,388	\$ 2,762,688	\$ 2,654,338
TOTAL TARGET WASTERWATER CASH RESERVES	\$ 2,152,251	\$ 2,272,087	\$ 2,342,100	\$ 2,344,400	\$ 2,439,550	\$ 2,536,400	\$ 2,608,150	\$ 2,702,000	\$ 2,775,850
Above (below) target	\$ 1,352,081	\$ 1,700,233	\$ 1,243,920	\$ 2,160,188	\$ 1,526,838	\$ 924,288	\$ 490,238	\$ 60,688	\$ (121,512)
Legend Blue - Recorded Revenues & Expenses Brown - Previous Year Budget & Projected Black - Budget Revenues & Expenses Green - Forcast Revenues & Expenses									

Crescenta Valley Water District

Budget - FY 14/15 - Preliminary V2

Wastewater Expense vs. Revenue Summary

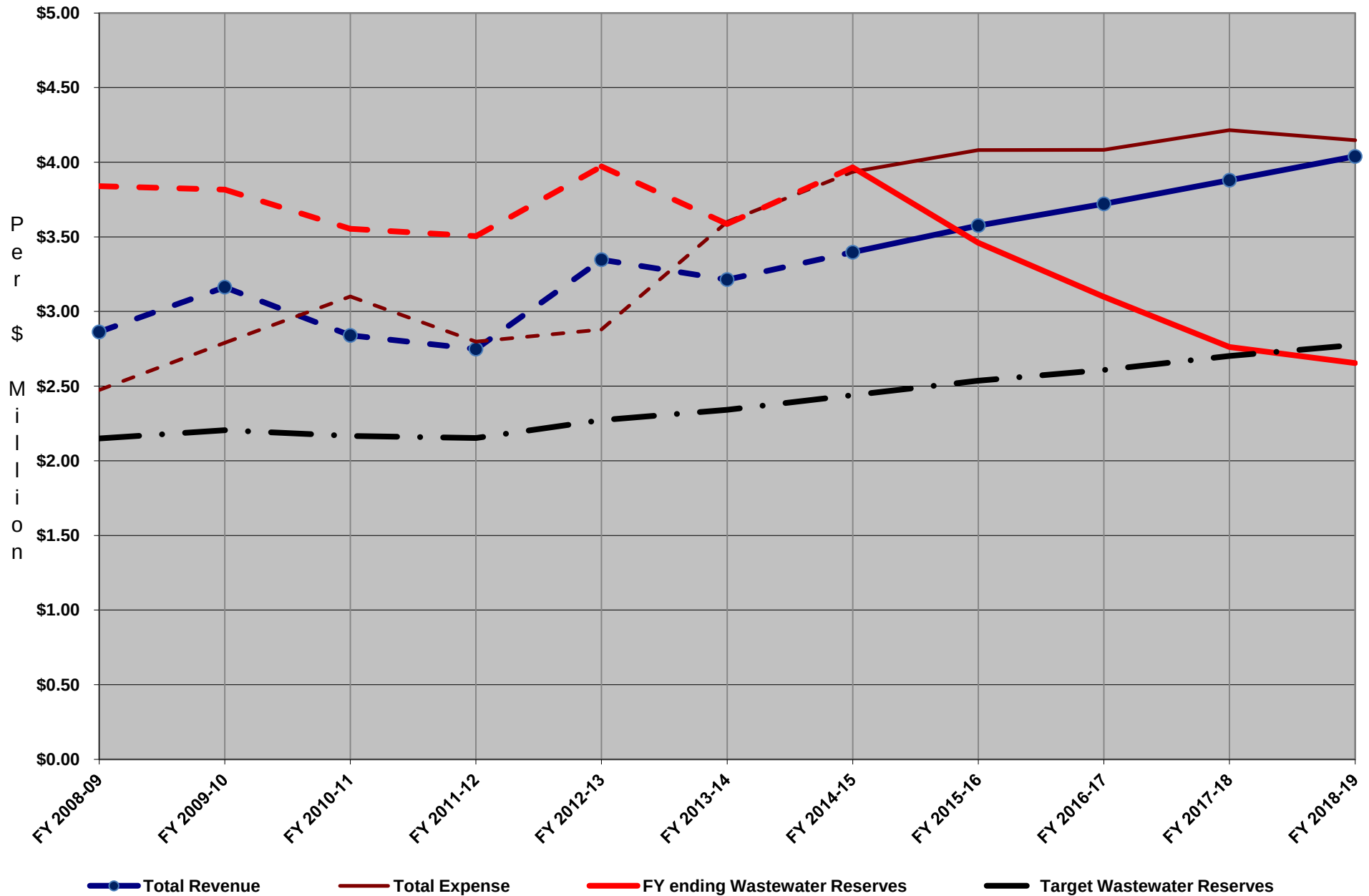


Table Water Budget - WB-2 Water Production and Costs - FY 14/15 - Preliminary V2

Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
Well Production (Verdugo Basin)	3,099	3,076	3,100	2,589	2,600	2,850	2,950	3,125	3,290
Foothill MWD Purchases	1,460	1,582	1,550	2,136	1,900	1,550	1,450	1,275	1,210
Total Production ⁽¹⁾⁽²⁾	4,559	4,658	4,650	4,725	4,500	4,400	4,400	4,400	4,500
Shrinkage (percent) ⁽³⁾	10%	8%	8%	8%	8%	8%	8%	8%	8%
Less Shrinkage (ac-ft)	475	373	372	378	360	352	352	352	360
Total billable consumption (sales)	4,084	4,285	4,278	4,347	4,140	4,048	4,048	4,048	4,140
FMWD Purchased Water	1,460	1,582	1,550	2,136	1,900	1,550	1,450	1,275	1,210
FMWD Unit Charge (\$/ac-ft)	\$ 1,391	\$ 1,418	\$ 1,529	\$ 1,351	\$ 1,438	\$ 1,575	\$ 1,685	\$ 1,847	\$ 1,974
FMWD Cost	\$ 2,030,628	\$2,233,668	\$2,369,346	\$2,885,167	\$2,732,149	\$2,440,725	\$2,443,532	\$2,354,334	\$2,388,036
Cost Increase/Decrease from FMWD Unit Charge	\$ (40)	\$ 27	\$ 111	\$ (67)	\$ 87	\$ 137	\$ 111	\$ 161	\$ 127
Percent FMWD Cost Increase/Decrease	-8.08%	10.00%	5.73%	29.17%	-5.30%	-10.67%	0.12%	-3.65%	1.43%

Notes:

1. All quantities are in acre-feet (ac-ft).
2. Projected Total Production for FY 14/15 at 4,500 ac-ft, decrease by 100 ac-ft till FY 15/16; hold at 4,400 ac-ft until FY 18/19
3. Shrinkage (water loss) anticipated to decreased from 10% to 8% due to water meter replacement program
4. FMWD Cost based on FMWD's Preliminary Budget dated 3/12/14

Water Budget Table WB-3 Sources of Water Funds - FY 14/15 - Preliminary V2

Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
Sources of Funds - Variable Sources									
Water Sales - Consumers	\$ 5,969,499	\$ 6,859,371	\$ 7,430,000	\$ 7,950,100	\$ 7,621,000	\$ 8,045,000	\$ 8,704,000	\$ 9,364,000	\$ 9,981,000
<i>Water Sales - CVWD</i>	\$ 3,363,545	\$ 4,300,707	\$ 4,782,000	\$ 5,116,740	\$ 5,058,000	\$ 5,539,000	\$ 6,198,000	\$ 6,858,000	\$ 7,418,000
<i>Water Sale - FMWD</i>	\$ 2,605,954	\$ 2,558,664	\$ 2,648,000	\$ 2,833,360	\$ 2,563,000	\$ 2,506,000	\$ 2,506,000	\$ 2,506,000	\$ 2,563,000
Interest Earned - Water	\$ 77,947	\$ 76,308	\$ 50,000	\$ 95,000	\$ 75,000	\$ 77,000	\$ 79,000	\$ 81,000	\$ 83,000
Interest Earned - MTBE Reserve Fund	\$ -	\$ -	\$ -	\$ 50,000	\$ 139,000	\$ 138,000	\$ 135,000	\$ 134,000	\$ 133,000
Subtotal variable sources	\$ 6,047,446	\$ 6,935,679	\$ 7,480,000	\$ 8,095,100	\$ 7,835,000	\$ 8,260,000	\$ 8,918,000	\$ 9,579,000	\$ 10,197,000
Sources of Funds - Stable Sources									
Water Sales - Service Charge	\$ 1,614,286	\$ 1,633,352	\$ 1,724,000	\$ 1,733,000	\$ 1,833,000	\$ 1,981,000	\$ 2,146,000	\$ 2,312,000	\$ 2,413,000
Fire Service Meter Charge	\$ 31,063	\$ 29,785	\$ 32,000	\$ 32,000	\$ 34,000	\$ 38,000	\$ 41,000	\$ 45,000	\$ 48,000
Late Fees/Fire Hydrant Flow/Backflow Tests	\$ 50,257	\$ 70,322	\$ 52,000	\$ 71,000	\$ 75,000	\$ 78,000	\$ 81,000	\$ 84,000	\$ 87,000
Other Income - Water	\$ 3,396	\$ -	\$ 5,000	\$ 3,000	\$ 6,000	\$ 7,000	\$ 8,000	\$ 9,000	\$ 10,000
Rental Property Income	\$ 7,200	\$ 22,500	\$ 22,500	\$ 20,200	\$ 22,500	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
Sundry Income	\$ -	\$ -	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500
Subtotal - Stable Sources	\$ 1,706,202	\$ 1,755,959	\$ 1,836,000	\$ 1,859,700	\$ 1,971,000	\$ 2,129,500	\$ 2,301,500	\$ 2,475,500	\$ 2,583,500
Sources of Funds - CIP Sources									
Water Systems Connect Fee	\$ 1,163	\$ 92,717	\$ 75,000	\$ 40,000	\$ 55,000	\$ 60,000	\$ 65,000	\$ 70,000	\$ 75,000
Meter Installation/Hydrant Charges	\$ 41,089	\$ 64,019	\$ 35,000	\$ 35,000	\$ 40,000	\$ 50,000	\$ 60,000	\$ 70,000	\$ 80,000
Other Income - Water/Grants	\$ -	\$ 39,938	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal CIP Sources	\$ 42,252	\$ 196,674	\$ 110,000	\$ 75,000	\$ 95,000	\$ 110,000	\$ 125,000	\$ 140,000	\$ 155,000
TOTAL SOURCE OF FUNDS	\$ 7,795,900	\$ 8,888,312	\$ 9,426,000	\$ 10,029,800	\$ 9,901,000	\$ 10,499,500	\$ 11,344,500	\$ 12,194,500	\$ 12,935,500

Water Budget Table WB-4 - Summary of Water O & M Expenses - FY 14/15 - Preliminary V2									
Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
EXPENSE									
COMPENSATION AND BENEFITS									
Director Fees	\$ 8,109	\$ 8,280	\$ 8,100	\$ 7,500	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000
Labor									
Officer Salaries	\$ 136,435	\$ 139,364	\$ 147,800	\$ 144,000	\$ 154,000	\$ 157,000	\$ 160,000	\$ 164,000	\$ 168,000
Administrative Services Labor	\$ 291,545	\$ 290,254	\$ 353,600	\$ 295,000	\$ 362,000	\$ 370,000	\$ 386,000	\$ 398,000	\$ 411,000
Administrative Services Labor - OT	\$ 6,367	\$ 7,491	\$ 5,700	\$ 5,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000
Engineering Department Labor	\$ 336,565	\$ 272,986	\$ 410,700	\$ 345,000	\$ 431,000	\$ 446,000	\$ 459,000	\$ 473,000	\$ 485,000
Engineering Department Labor-OT	\$ 952	\$ 2,537	\$ 750	\$ 3,500	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
Plant - Office Labor	\$ 164,335	\$ 197,971	\$ 233,900	\$ 210,000	\$ 237,000	\$ 241,000	\$ 247,000	\$ 252,000	\$ 257,000
Plant - Office Labor-OT	\$ 815	\$ 224	\$ -	\$ 300	\$ -	\$ -	\$ -	\$ -	\$ -
System Operators Labor	\$ 265,118	\$ 288,492	\$ 320,900	\$ 290,000	\$ 325,000	\$ 331,000	\$ 339,000	\$ 346,000	\$ 354,000
System Operators Labor-OT	\$ 24,041	\$ 16,124	\$ 17,900	\$ 21,000	\$ 21,000	\$ 22,000	\$ 22,000	\$ 23,000	\$ 24,000
Utility Workers Labor	\$ 313,024	\$ 332,102	\$ 388,100	\$ 305,000	\$ 388,000	\$ 400,000	\$ 412,000	\$ 425,000	\$ 437,000
Utility Workers Labor-OT	\$ 22,455	\$ 19,166	\$ 18,100	\$ 28,000	\$ 30,000	\$ 30,000	\$ 31,000	\$ 32,000	\$ 33,000
Standby Pay	\$ 42,979	\$ 44,831	\$ 46,000	\$ 45,000	\$ 46,000	\$ 46,000	\$ 46,000	\$ 47,000	\$ 48,500
Auto Allowance	\$ 10,200	\$ 8,825	\$ 8,700	\$ 8,700	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000
Labor Transfer to Capital	\$ (104,378)	\$ (118,267)	\$ (150,000)	\$ (85,000)	\$ (150,000)	\$ (150,000)	\$ (150,000)	\$ (150,000)	\$ (150,000)
Labor Total	\$ 1,622,940	\$ 1,628,647	\$ 1,810,250	\$ 1,623,000	\$ 1,872,000	\$ 1,921,000	\$ 1,980,000	\$ 2,038,000	\$ 2,095,500
Sick and Vacation - Office	\$ 124,521	\$ 131,286	\$ 129,400	\$ 135,000	\$ 133,000	\$ 137,000	\$ 141,000	\$ 145,000	\$ 149,000
Sick and Vacation - Plant	\$ 83,014	\$ 87,524	\$ 86,300	\$ 90,000	\$ 89,000	\$ 91,000	\$ 94,000	\$ 97,000	\$ 100,000
Taxes - Payroll (Total Employees)	\$ 124,260	\$ 119,407	\$ 130,900	\$ 117,000	\$ 134,000	\$ 137,000	\$ 141,000	\$ 144,000	\$ 147,000
PERS Retirement (Total Employees)	\$ 240,621	\$ 257,323	\$ 272,800	\$ 260,000	\$ 293,000	\$ 315,000	\$ 335,000	\$ 353,000	\$ 371,000
Interest Expense - CalPERS Pension Side Fund	\$ 35,083	\$ 19,182	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Workers' Compensation - Office	\$ 18,816	\$ 18,996	\$ 16,500	\$ 16,000	\$ 14,000	\$ 15,000	\$ 15,000	\$ 13,000	\$ 13,000
Workers' Compensation - Plant	\$ 85,132	\$ 83,596	\$ 74,500	\$ 72,000	\$ 62,000	\$ 64,000	\$ 66,000	\$ 58,000	\$ 61,000
Health and Dental and Vision - Office	\$ 113,530	\$ 106,352	\$ 123,200	\$ 123,000	\$ 131,000	\$ 133,000	\$ 136,000	\$ 138,000	\$ 141,000
Life & Disability Insurance - Office & Plant	\$ 7,223	\$ 7,995	\$ 8,200	\$ 8,200	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000
Health and Dental and Vision - Plant	\$ 137,853	\$ 148,810	\$ 140,100	\$ 140,000	\$ 143,000	\$ 146,000	\$ 148,000	\$ 151,000	\$ 154,000
Life & Disability Insurance - Plant	\$ 2,540	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Self Insurance	\$ 15,309	\$ 11,497	\$ 13,100	\$ 13,100	\$ 13,000	\$ 13,000	\$ 13,000	\$ 13,000	\$ 13,000
Retiree - Health Care Expense	\$ 74,905	\$ 78,557	\$ 80,700	\$ 87,000	\$ 92,000	\$ 94,000	\$ 96,000	\$ 98,000	\$ 100,000
Compensation Total	\$ 1,062,807	\$ 1,070,527	\$ 1,075,700	\$ 1,061,300	\$ 1,113,000	\$ 1,154,000	\$ 1,194,000	\$ 1,219,000	\$ 1,258,000
TOTAL COMPENSATION AND BENEFITS	\$ 2,685,747	\$ 2,699,174	\$ 2,885,950	\$ 2,684,300	\$ 2,985,000	\$ 3,075,000	\$ 3,174,000	\$ 3,257,000	\$ 3,353,500
PLANT - WATER OPERATION									
Taxes - Property	\$ 16,940	\$ 11,877	\$ 11,500	\$ 11,500	\$ 12,000	\$ 12,500	\$ 13,000	\$ 13,500	\$ 14,000
Glenwood - Plant Maintenance	\$ 11,287	\$ 11,487	\$ 11,000	\$ 11,000	\$ 25,000	\$ 26,000	\$ 27,000	\$ 28,000	\$ 29,000
Glenwood - Landscape	\$ 4,446	\$ 4,703	\$ 6,000	\$ 5,000	\$ 7,000	\$ 7,500	\$ 7,500	\$ 8,000	\$ 8,500
Office Supplies & Misc Expenses - Plant	\$ -	\$ -	\$ 6,000	\$ 8,000	\$ 6,000	\$ 6,500	\$ 7,000	\$ 7,000	\$ 7,000
Glenwood - Utilities	\$ 9,268	\$ 12,660	\$ 12,000	\$ 14,300	\$ 15,000	\$ 15,000	\$ 16,000	\$ 16,000	\$ 17,000
Glenwood - Phone	\$ 29,954	\$ 23,986	\$ 29,000	\$ 31,600	\$ 32,000	\$ 33,000	\$ 34,000	\$ 35,000	\$ 36,000
Glenwood - Cell Phones	\$ 7,538	\$ 7,274	\$ 8,500	\$ 8,000	\$ 9,000	\$ 9,500	\$ 10,000	\$ 10,500	\$ 11,500
Training - Plant	\$ 5,476	\$ 11,839	\$ 7,000	\$ 8,000	\$ 8,000	\$ 8,500	\$ 9,000	\$ 9,500	\$ 10,000
Education Reimbursement/Certifications	\$ 4,016	\$ -	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000
Glenwood - Safety and Security System	\$ 14,800	\$ 29,820	\$ 15,000	\$ 17,000	\$ 18,000	\$ 19,000	\$ 19,500	\$ 20,000	\$ 20,500
Glenwood - Uniforms	\$ 8,484	\$ 7,704	\$ 10,000	\$ 8,500	\$ 9,000	\$ 9,500	\$ 10,000	\$ 10,500	\$ 11,000
Permit & Assessment Fees	\$ 1,165	\$ 1,174	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,500	\$ 2,500	\$ 2,500	\$ 3,000
Tools and Equipment Maintenance	\$ 15,907	\$ 24,662	\$ 15,000	\$ 15,000	\$ 22,000	\$ 23,500	\$ 25,000	\$ 26,000	\$ 27,000
Nitrate Plant Maintenance	\$ 96,620	\$ 60,678	\$ 80,000	\$ 60,000	\$ 75,000	\$ 80,000	\$ 85,000	\$ 90,000	\$ 95,000
SCADA - Telemetry & Signal	\$ 8,582	\$ 17,979	\$ 8,500	\$ 8,500	\$ 12,000	\$ 13,500	\$ 15,000	\$ 16,500	\$ 17,500
SCADA Hardware	\$ 4,485	\$ 6,864	\$ 6,000	\$ 4,000	\$ 6,000	\$ 7,500	\$ 9,000	\$ 10,500	\$ 11,500

Water Budget Table WB-4 - Summary of Water O & M Expenses - FY 14/15 - Preliminary V2

Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
SCADA Software	\$ -	\$ 6,499	\$ 14,000	\$ 6,000	\$ 11,000	\$ 12,000	\$ 13,000	\$ 14,000	\$ 15,000
SCADA - Communications	\$ 21,783	\$ 1,298	\$ 4,000	\$ 3,000	\$ 5,000	\$ 6,000	\$ 7,000	\$ 8,000	\$ 9,000
Lab & Sampling	\$ 52,735	\$ 67,473	\$ 92,000	\$ 70,000	\$ 70,000	\$ 72,000	\$ 74,000	\$ 76,000	\$ 78,000
Lab & Sampling - MTBE see TBL WB-8A	\$ 89,208	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Chlorine & Treatment	\$ 58,445	\$ 55,488	\$ 55,000	\$ 65,000	\$ 70,000	\$ 75,000	\$ 77,000	\$ 79,000	\$ 81,000
TOTAL PLANT WATER OPERATION	\$ 461,139	\$ 363,465	\$ 396,500	\$ 360,400	\$ 418,000	\$ 443,000	\$ 464,500	\$ 484,500	\$ 505,500
DISTRIBUTION SYSTEM EXPENSES									
Backflow Expense	\$ 547	\$ 927	\$ 1,000	\$ 500	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,500
Pipelines - Maintenance	\$ 38,832	\$ 34,235	\$ 50,000	\$ 40,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
Pipelines - Paving	\$ 20,760	\$ 17,518	\$ 27,000	\$ 10,000	\$ 15,000	\$ 16,000	\$ 17,000	\$ 18,000	\$ 19,000
Pipelines - Fire Hydrant & Fire Service Repair/Replace	\$ 10,771	\$ 4,656	\$ 26,000	\$ 5,500	\$ 25,000	\$ 27,000	\$ 29,000	\$ 31,000	\$ 33,000
Pipelines - Leak Detection/Leak Repair	\$ 290	\$ 4,309	\$ 25,000	\$ 5,000	\$ 25,000	\$ 27,000	\$ 29,000	\$ 30,000	\$ 31,000
Pipelines - Trench Plate Rentals	\$ 1,443	\$ 1,592	\$ 1,000	\$ 500	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
Pipelines - Water Sampling Stations	\$ -	\$ -	\$ -	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500
Pipelines - Valves	\$ 661	\$ 2,932	\$ 20,000	\$ 10,000	\$ 15,000	\$ 16,000	\$ 17,000	\$ 18,000	\$ 19,000
Reservoir - Maintenance	\$ 46,353	\$ 46,021	\$ 94,000	\$ 75,000	\$ 75,000	\$ 78,000	\$ 81,000	\$ 84,000	\$ 87,000
Reservoir - Landscape	\$ 42,678	\$ 17,598	\$ 24,000	\$ 22,000	\$ 25,000	\$ 26,000	\$ 27,000	\$ 28,000	\$ 29,000
Meters - Maintenance	\$ 101,446	\$ 283,329	\$ 255,000	\$ 290,000	\$ 275,000	\$ 275,000	\$ 215,000	\$ 215,000	\$ 216,000
Meters - Paving	\$ 197,718	\$ 92,116	\$ 190,000	\$ 262,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 255,000
Meters - Repair/Replacement/Upgrade	\$ 23,753	\$ 13,921	\$ 32,000	\$ 15,000	\$ 20,000	\$ 22,000	\$ 23,000	\$ 24,000	\$ 25,000
Meters - Lateral Leaks	\$ 40,777	\$ 58,347	\$ 40,000	\$ 80,000	\$ 150,000	\$ 100,000	\$ 75,000	\$ 60,000	\$ 61,000
Meters - Trench Plate Rentals	\$ 609	\$ -	\$ 1,000	\$ 6,000	\$ 2,000	\$ 2,000	\$ 1,000	\$ 1,000	\$ 1,000
Meters - D-jobs	\$ -	\$ -	\$ -	\$ 7,000	\$ 7,500	\$ 8,000	\$ 8,000	\$ 8,000	\$ 9,000
Wells - Maintenance	\$ 25,273	\$ 19,656	\$ 28,000	\$ 23,000	\$ 30,000	\$ 32,000	\$ 33,000	\$ 34,000	\$ 37,000
Wells - Landscape	\$ 2,593	\$ 13,510	\$ 13,000	\$ 8,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000
Wells - Rent	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300
Booster Pump - Maintenance	\$ 46,807	\$ 42,838	\$ 60,000	\$ 55,000	\$ 65,000	\$ 75,000	\$ 80,000	\$ 83,000	\$ 85,000
Emergency Generators	\$ 6,766	\$ 10,947	\$ 7,500	\$ 12,000	\$ 13,000	\$ 13,000	\$ 13,500	\$ 14,000	\$ 14,500
Auto/Truck - Maintenance	\$ 53,919	\$ 46,487	\$ 30,000	\$ 45,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 51,000
Auto/Truck - Gas	\$ 24,650	\$ 22,849	\$ 26,000	\$ 25,000	\$ 27,000	\$ 27,500	\$ 28,000	\$ 28,500	\$ 29,000
Auto/Truck - Diesel	\$ 18,571	\$ 15,664	\$ 16,000	\$ 17,000	\$ 17,500	\$ 18,000	\$ 18,500	\$ 19,000	\$ 19,500
TOTAL DISTRIBUTION SYSTEM EXPENSES	\$ 705,517	\$ 749,752	\$ 966,800	\$ 1,014,300	\$ 1,149,800	\$ 1,125,300	\$ 1,057,800	\$ 1,058,300	\$ 1,084,300
GENERAL AND ADMINISTRATIVE EXPENSES									
General Liability Insurance	\$ 33,975	\$ 44,394	\$ 50,000	\$ 46,000	\$ 53,000	\$ 56,000	\$ 59,000	\$ 62,000	\$ 65,000
Accounting - Audit	\$ 16,677	\$ 7,428	\$ 12,500	\$ 12,500	\$ 13,000	\$ 13,500	\$ 14,000	\$ 14,500	\$ 15,000
Legal Consulting Fees	\$ 44,250	\$ 47,314	\$ 48,500	\$ 40,000	\$ 42,000	\$ 43,000	\$ 44,000	\$ 45,000	\$ 46,000
Administrative Consultants	\$ 54,202	\$ 64,705	\$ 45,000	\$ 33,000	\$ 140,000	\$ 118,000	\$ 130,000	\$ 130,000	\$ 255,000
Election Expense	\$ 38,923	\$ -	\$ 40,000	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ 60,000	\$ -
Office Maintenance	\$ 9,250	\$ 12,390	\$ 10,000	\$ 7,500	\$ 10,000	\$ 11,000	\$ 12,000	\$ 13,000	\$ 14,000
Landscape Maintenance - Office	\$ 4,401	\$ 9,643	\$ 6,000	\$ 5,000	\$ 5,500	\$ 6,000	\$ 6,500	\$ 7,000	\$ 7,500
Office Supplies & Misc Expenses - Office	\$ 5,244	\$ 3,905	\$ 4,000	\$ 5,500	\$ 5,500	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
Computer Hardware	\$ 7,286	\$ 16,431	\$ 25,000	\$ 25,000	\$ 26,000	\$ 27,000	\$ 28,000	\$ 30,000	\$ 31,000
Computer Software	\$ 21,172	\$ 15,368	\$ 37,500	\$ 37,500	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 41,000
Computer Software Maintenance/Licenses	\$ 15,018	\$ 22,229	\$ 18,000	\$ 18,000	\$ 20,000	\$ 20,000	\$ 21,000	\$ 22,000	\$ 23,000
Utilities - Office	\$ 14,762	\$ 16,383	\$ 18,000	\$ 18,500	\$ 19,000	\$ 19,000	\$ 20,000	\$ 21,000	\$ 21,500
Phones and Communications - Office	\$ 29,935	\$ 34,585	\$ 29,000	\$ 26,000	\$ 30,000	\$ 31,000	\$ 32,000	\$ 33,000	\$ 34,000
Cell Phones - Office	\$ 16,943	\$ 15,284	\$ 17,500	\$ 15,500	\$ 16,500	\$ 17,000	\$ 17,500	\$ 18,000	\$ 18,500
Printing, Postage, Stationery, Copier Maint.	\$ 38,478	\$ 47,394	\$ 39,500	\$ 33,000	\$ 40,500	\$ 41,500	\$ 42,500	\$ 43,500	\$ 44,500
Uncollectible Accounts-Water	\$ 19,528	\$ -	\$ 5,000	\$ 2,500	\$ 3,000	\$ 3,500	\$ 4,000	\$ 9,000	\$ 9,500
Water System Fees (DHS, RWQCB, LAFCO, Misc)	\$ 37,946	\$ 36,217	\$ 65,000	\$ 70,000	\$ 80,000	\$ 81,000	\$ 82,000	\$ 83,000	\$ 84,000
Engineering Department	\$ 12,617	\$ 12,356	\$ 13,000	\$ 12,500	\$ 15,000	\$ 16,000	\$ 17,000	\$ 18,000	\$ 19,000
Water Conservation	\$ 23,636	\$ 35,580	\$ 56,000	\$ 42,000	\$ 60,000	\$ 61,000	\$ 62,000	\$ 63,000	\$ 64,000

Water Budget Table WB-4 - Summary of Water O & M Expenses - FY 14/15 - Preliminary V2

Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
Pipeline/Advertising - Water Conservation	\$ 550	\$ -	\$ 10,000	\$ 5,000	\$ 15,000	\$ 13,000	\$ 13,000	\$ 13,000	\$ 13,000
Turf Rebates - Water Conservation	\$ 13,825	\$ 13,649	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
Washer & Toilet Rebates - Water Conservation	\$ 9,368	\$ 5,325	\$ 13,000	\$ 2,500	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
Community Outreach	\$ -	\$ -	\$ 15,000	\$ 7,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000
Training - Office	\$ 13,671	\$ 12,006	\$ 13,000	\$ 8,000	\$ 10,000	\$ 10,000	\$ 10,500	\$ 11,000	\$ 11,500
Conferences and Seminars - Office	\$ 11,872	\$ 9,137	\$ 13,000	\$ 10,000	\$ 14,000	\$ 15,000	\$ 16,000	\$ 17,000	\$ 18,000
Board of Directors - Conferences and Seminars	\$ 2,063	\$ 1,685	\$ 1,500	\$ 1,500	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,200
Misc Administration - Office	\$ 5,814	\$ 4,266	\$ 4,000	\$ 1,500	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
Board of Directors - Misc Administration	\$ 1,405	\$ 1,710	\$ 1,500	\$ 1,200	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500
Membership Renewals/Subscriptions	\$ 15,637	\$ 21,889	\$ 20,000	\$ 23,000	\$ 25,000	\$ 26,000	\$ 27,000	\$ 28,000	\$ 29,000
Interest Expense	\$ -	\$ -	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000
Bank Charges	\$ 9,780	\$ 11,082	\$ 11,500	\$ 11,000	\$ 12,000	\$ 12,500	\$ 13,000	\$ 13,500	\$ 14,000
Rental Property	\$ 12,196	\$ 113	\$ 2,500	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
TOTAL GENERAL AND ADMINISTRATIVE EXPENSES	\$ 540,606	\$ 523,420	\$ 691,500	\$ 608,700	\$ 761,500	\$ 803,500	\$ 783,500	\$ 867,000	\$ 950,700
Emergency Operations	\$ 7,175	\$ -	\$ 5,000	\$ -	\$ 3,000	\$ 3,000	\$ 3,000	\$ 4,000	\$ 5,000
FIRE & DEBRIS RECOVERY	\$ 7,175	\$ -	\$ 5,000	\$ -	\$ 3,000	\$ 3,000	\$ 3,000	\$ 4,000	\$ 5,000
TOTAL EXPENSE	\$ 4,400,184	\$ 4,335,811	\$ 4,945,750	\$ 4,667,700	\$ 5,317,300	\$ 5,449,800	\$ 5,482,800	\$ 5,670,800	\$ 5,899,000
Total O & M Expense (w/o Labor & Benefits)	\$ 1,714,437	\$ 1,636,637	\$ 2,059,800	\$ 1,983,400	\$ 2,332,300	\$ 2,374,800	\$ 2,308,800	\$ 2,413,800	\$ 2,545,500

Water Budget Table WB-5 Water - Purchase Water & Power - FY 14/15 - Preliminary V2

Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
Purchased water (ac-ft)	1,453	1,582	1,550	2,136	1,900	1,550	1,450	1,275	1,210
Projected FMWD Cost	\$ 2,055,274	\$ 2,233,668	\$ 2,369,346	\$ 2,885,167	\$ 2,732,149	\$ 2,440,725	\$ 2,443,532	\$ 2,354,334	\$ 2,388,036
Purchased Power Cost	\$ 623,262	\$ 636,754	\$ 670,000	\$ 658,200	\$ 678,000	\$ 704,000	\$ 725,000	\$ 743,000	\$ 761,000
SCE	\$ 270,296	\$ 261,107	\$ 265,000	\$ 285,400	\$ 293,962	\$ 302,781	\$ 311,864	\$ 319,661	\$ 327,652
Glendale	\$ 352,966	\$ 391,207	\$ 420,000	\$ 377,800	\$ 389,134	\$ 400,808	\$ 412,832	\$ 423,153	\$ 433,732
Constellation Credit	\$ -	\$ (15,561)	\$ (15,000)	\$ (5,000)	\$ (5,000)	\$ -	\$ -	\$ -	\$ -
% Increase/Decrease - Import Water	-7.0%	8.7%	6.1%	29.2%	-5.3%	-10.7%	0.1%	-3.7%	1.4%
% Increase/Decrease - Power Cost	-3.0%	2.2%	5.2%	3.4%	3.0%	3.0%	3.0%	2.5%	2.5%
Power cost/ac-ft	\$137	\$133	\$144	\$139	\$151	\$160	\$165	\$169	\$169

Water Budget Table WB - 6 Water Capital Outlay & Equipment - FY 14/15 - Preliminary V2

Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
Software (Spring Brook) - Fixed Assets			\$ 11,250	\$ -	\$ 11,250				
Spring Brook Software - Payroll Module						\$ 18,750			
Spring Brook Software - Work Order Module							\$ 26,250		
Spring Brook Software - Project Management Module								\$ 15,000	
Spring Brook Software - Extend Budget Module									\$ 15,000
Software (Document/Billing Process Design)		\$ 18,693	\$ -	\$ 1,528					
Upgrade SCADA Equipment (SCADA 1A & 1B)		\$ 61	\$ 49,500	\$ 29,255	\$ -	\$ -	\$ -	\$ -	\$ -
Upgrade Computer Hardware		\$ 17,257	\$ 15,000	\$ 14,952	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000
Main Office - Roof			\$ 30,000	\$ -	\$ 30,000				
Main Office - Seismic Upgrades			\$ 50,000	\$ -	\$ 50,000				
Main Office - Upgrades			\$ 5,000	\$ -	\$ -	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000
Purchase 2857 Sycamore Avenue	\$ 317,709								
Misc.			\$ -	\$ -	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
CO Total	\$ 317,709	\$ 36,011	\$ 160,750	\$ 45,735	\$ 116,250	\$ 53,750	\$ 61,250	\$ 50,000	\$ 50,000
Capital - Equipment									
Water Quality - Nitrate Analyzer - Encinal		\$ 31,372							
Water Quality - Nitrate Analyzer - Mills		\$ 31,372							
Water Quality - 5 Chlorine Analyzers			\$ 25,000	\$ 32,495					
Emergency Generators - Portable	\$ 15,660	\$ 44,565							
Emergency Generator - 70 kW (Field)			\$ 15,000	\$ -	\$ 15,750				
New Backhoe Compactor Attachment	\$ 13,648								
Vehicle Replacement - Unit 20		\$ 95,706							
Go 4 Interceptor II		\$ 20,620							
Hydraulic Hammer for Unit #21		\$ 8,131							
Hydro-Excavator Unit		\$ 20,165							
Vehicle Replacement - Unit 5 (75% Water/25% Sewer)			\$ 30,000	\$ 29,955					
Vehicle Replacement - Unit 7 (75% Water/25% Sewer)			\$ 21,000	\$ 17,878					
Vehicle Replacement - Unit 12 (75% Water/25% Sewer)			\$ 20,250	\$ 16,087					
Vehicle Replacement - Unit 24 (Includes Valve Turning Equip.)					\$ 67,500				
Vehicle Replacement - Annual						\$ 55,000	\$ 55,000	\$ 75,000	\$ 75,000
CE Total	\$ 29,308	\$ 251,931	\$ 111,250	\$ 96,415	\$ 83,250	\$ 55,000	\$ 55,000	\$ 75,000	\$ 75,000
CO & CE - Total	\$ 347,018	\$ 287,942	\$ 272,000	\$ 142,150	\$ 199,500	\$ 108,750	\$ 116,250	\$ 125,000	\$ 125,000

Water Budget Table WB -7 Water - Capital Improvement Projects - FY 14/15 - Preliminary V2

Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
Water Supply	\$ 88,884	\$ 221,186	\$ 800,000	\$ 622,000	\$ 600,000	\$ 795,000	\$ 75,000	\$ 50,000	\$ 125,000
Water Storage	\$ -	\$ -	\$ 150,000	\$ 380,000	\$ -	\$ 250,000	\$ 275,000	\$ 300,000	\$ 165,000
Water Distribution	\$ 426,223	\$ 760,964	\$ 915,000	\$ 794,000	\$ 1,183,000	\$ 652,500	\$ 1,235,000	\$ 1,457,500	\$ 1,402,500
Water Treatment	\$ 392,054	\$ -	\$ 75,000	\$ -	\$ 43,000	\$ -	\$ -	\$ 47,500	\$ 47,500
Technology	\$ 121,028	\$ 16,000	\$ 175,000	\$ 84,000	\$ 174,000	\$ 225,000	\$ 320,000	\$ -	\$ -
Public Safety/Emergency Response	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 77,500	\$ 95,000	\$ 95,000	\$ -
Facilities & Planning	\$ 91,300	\$ 14,331	\$ 85,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 260,000
Total CIP	\$ 1,119,489	\$ 1,012,481	\$ 2,200,000	\$ 1,880,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000

Water Budget Table WB - 8 Water Reserve Targets - FY 14/15 - Preliminary V2

Description	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
Rate stabilization (a)	\$ 1,492,000	\$ 1,715,000	\$ 1,858,000	\$ 1,888,000	\$ 1,905,000	\$ 2,011,000	\$ 2,176,000	\$ 2,341,000	\$ 2,495,000
Emergency fund (b)	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000
Labor & benefits	\$ 2,685,747	\$ 2,699,174	\$ 2,886,000	\$ 2,687,000	\$ 2,985,000	\$ 3,075,000	\$ 3,174,000	\$ 3,257,000	\$ 3,353,500
Power	\$ 623,262	\$ 636,754	\$ 670,000	\$ 658,200	\$ 678,000	\$ 704,000	\$ 725,000	\$ 743,000	\$ 761,000
Operating expenses	\$ 1,714,437	\$ 1,541,048	\$ 2,060,000	\$ 1,830,000	\$ 2,332,300	\$ 2,374,800	\$ 2,308,800	\$ 2,413,800	\$ 2,545,500
O & M Costs	\$ 5,023,446	\$ 4,876,975	\$ 5,616,000	\$ 5,175,200	\$ 5,995,300	\$ 6,153,800	\$ 6,207,800	\$ 6,413,800	\$ 6,660,000
Working cash (c)	\$ 837,241	\$ 812,829	\$ 936,000	\$ 862,533	\$ 999,217	\$ 1,025,633	\$ 1,034,633	\$ 1,068,967	\$ 1,110,000
Total target cash reserves	\$ 3,079,000	\$ 3,278,000	\$ 3,544,000	\$ 3,501,000	\$ 3,654,000	\$ 3,787,000	\$ 3,961,000	\$ 4,160,000	\$ 4,355,000

Note:

- a. Rate stabilization reserves are based on 25 percent of total water commodity sales
- b. Emergency reserves equal \$750,000.
- c. Working cash is based on two months of O&M less purchased water

Water Budget Table WB - 8A MTBE Fund Reserve - FY 14/15 - Preliminary V2

Description	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
MTBE - Income								
MTBE Settlement	\$ 6,595,233	\$ 6,837,072	\$ 6,837,072	\$ -	\$ -	\$ -	\$ -	\$ -
MTBE - Interest Income (Included in Table WB-3)(a)	\$ -	\$ -	\$ 50,000	\$ 138,609	\$ 137,617	\$ 135,425	\$ 134,433	\$ 133,441
Total Income	\$ 6,595,233	\$ 6,837,072	\$ 6,837,072	\$ -	\$ -	\$ -	\$ -	\$ -
MTBE - Expense								
Reimbursement to CVWD General Fund	\$ 3,815,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Lab Expense	\$ 70,533	\$ 75,000	\$ 75,000	\$ 75,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
Labor Expense	\$ -	\$ -	\$ -	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000
Administrative Consultant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000	\$ -	\$ -
Transfer of PERS Side Fund to Water/Wastewater Fund	\$ 720,992	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expense	\$ 4,607,225	\$ 75,000	\$ 75,000	\$ 87,000	\$ 62,000	\$ 137,000	\$ 62,000	\$ 62,000
Increase (Decrease) to Fund	\$ 1,988,008	\$ 6,762,072	\$ 6,762,072	\$ (87,000)	\$ (62,000)	\$ (137,000)	\$ (62,000)	\$ (62,000)
MTBE Reserve Fund								
FY Begin Available MTBE Reserve Funds	\$ 6,595,233	\$ 1,988,008	\$ 1,988,008	\$ 8,750,080	\$ 8,663,080	\$ 8,601,080	\$ 8,464,080	\$ 8,402,080
FY End Available MTBE Reserve Funds	\$ 1,988,008	\$ 8,750,080	\$ 8,750,080	\$ 8,663,080	\$ 8,601,080	\$ 8,464,080	\$ 8,402,080	\$ 8,340,080

Note:

- a. Interest Income based on 1% annual rate of return on investment

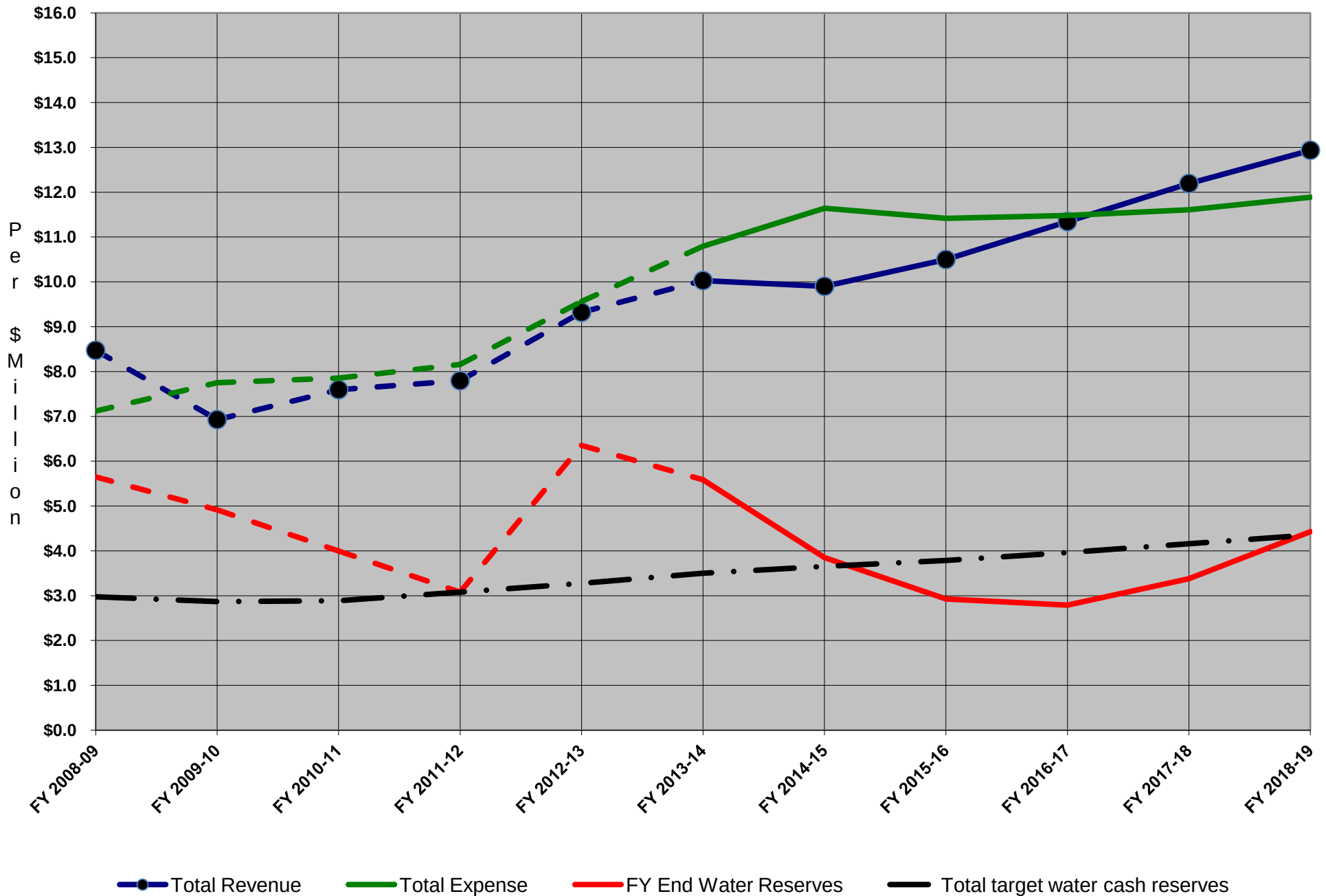
Water Budget Table WB-9 - Total Sources - FY 14/15 - Preliminary V2

FY 14/15 - Preliminary	Recorded FY 2011-12	Recorded FY 2012-13	Budget FY 2013-14	Projected FY 2013-14	Budget FY 2014-15	Forecast FY 2015-16	Forecast FY 2016-17	Forecast FY 2017-18	Forecast FY 2018-19
REVENUE									
Service Readiness Charge Revenue	\$ 1,614,286	\$ 1,633,352	\$ 1,724,000	\$ 1,733,000	\$ 1,833,000	\$ 1,981,000	\$ 2,146,000	\$ 2,312,000	\$ 2,413,000
Metered sales of water (CVWD Costs)	\$ 3,363,545	\$ 4,300,707	\$ 4,782,000	\$ 5,116,740	\$ 5,058,000	\$ 5,539,000	\$ 6,198,000	\$ 6,858,000	\$ 7,418,000
Required metered sales of water (FMWD Costs)	\$ 2,605,954	\$ 2,558,664	\$ 2,648,000	\$ 2,833,360	\$ 2,563,000	\$ 2,506,000	\$ 2,506,000	\$ 2,506,000	\$ 2,563,000
Interest Income - Water Reserves	\$ 77,947	\$ 76,308	\$ 50,000	\$ 95,000	\$ 75,000	\$ 77,000	\$ 79,000	\$ 81,000	\$ 83,000
Interest Income - MTBE Reserves	\$ -	\$ -	\$ -	\$ 50,000	\$ 139,000	\$ 138,000	\$ 135,000	\$ 134,000	\$ 133,000
Source of Funds - Other Sources	\$ 91,916	\$ 122,607	\$ 112,000	\$ 103,000	\$ 138,000	\$ 148,500	\$ 155,500	\$ 163,500	\$ 170,500
Sources of Funds - CIP Sources	\$ 42,252	\$ 196,674	\$ 110,000	\$ 98,700	\$ 95,000	\$ 110,000	\$ 125,000	\$ 140,000	\$ 155,000
Transfer from MTBE Fund for PERS Side Fund	\$ -	\$ 432,595	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL REVENUE	\$ 7,795,900	\$ 9,320,907	\$ 9,426,000	\$ 10,029,800	\$ 9,901,000	\$ 10,499,500	\$ 11,344,500	\$ 12,194,500	\$ 12,935,500
OPERATIONS & MAINTENANCE (O & M) EXPENSE									
Labor & Benefits	\$ 2,685,747	\$ 2,699,174	\$ 2,886,000	\$ 2,687,000	\$ 2,985,000	\$ 3,075,000	\$ 3,174,000	\$ 3,257,000	\$ 3,353,500
Purchased Water	\$ 2,030,628	\$ 2,233,668	\$ 2,369,000	\$ 2,885,000	\$ 2,732,000	\$ 2,441,000	\$ 2,444,000	\$ 2,354,000	\$ 2,388,000
Power	\$ 623,262	\$ 636,754	\$ 670,000	\$ 658,200	\$ 678,000	\$ 704,000	\$ 725,000	\$ 743,000	\$ 761,000
Operating expenses	\$ 1,714,437	\$ 1,541,048	\$ 2,060,000	\$ 1,830,000	\$ 2,332,300	\$ 2,374,800	\$ 2,308,800	\$ 2,413,800	\$ 2,545,500
Total O & M Expense	\$ 7,054,074	\$ 7,110,643	\$ 7,985,000	\$ 8,060,200	\$ 8,727,300	\$ 8,594,800	\$ 8,651,800	\$ 8,767,800	\$ 9,048,000
Debt Service (principal & interest)	\$ 613,738	\$ 616,038	\$ 612,400	\$ 612,400	\$ 614,000	\$ 614,000	\$ 614,000	\$ 614,000	\$ 614,000
Total O & M Expense + Debt Service	\$ 7,667,812	\$ 7,726,681	\$ 8,597,400	\$ 8,672,600	\$ 9,341,300	\$ 9,208,800	\$ 9,265,800	\$ 9,381,800	\$ 9,662,000
Cash Available for Capital - [Revenue - (Total O & M Expense + Debt Service)]	\$ 128,088	\$ 1,594,227	\$ 828,600	\$ 1,357,200	\$ 559,700	\$ 1,290,700	\$ 2,078,700	\$ 2,812,700	\$ 3,273,500
CAPITAL OUTLAY, LIABILITIES and CAPITAL									
Capital Outlay & Equipment	\$ 347,018	\$ 287,942	\$ 272,000	\$ 142,150	\$ 200,000	\$ 109,000	\$ 116,000	\$ 125,000	\$ 125,000
PERS Side Fund	\$ 115,000	\$ 432,595	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Future Liability (OPEB)	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
Capital Improvements (pay-as-you-go)	\$ 28,238	\$ 1,012,481	\$ 2,200,000	\$ 1,880,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000
Total - Capital Outlay, CIP, CIP Fund & Future Liability	\$ 490,256	\$ 1,833,018	\$ 2,572,000	\$ 2,122,150	\$ 2,300,000	\$ 2,209,000	\$ 2,216,000	\$ 2,225,000	\$ 2,225,000
INCREASE (DECREASE) TO CASH	\$ (362,168)	\$ (544,087)	\$ (1,743,400)	\$ (764,950)	\$ (1,740,300)	\$ (918,300)	\$ (137,300)	\$ 587,700	\$ 1,048,500
FY begin available Water Reserves	\$ 3,997,181	\$ 3,080,907	\$ 6,352,520	\$ 6,352,520	\$ 5,587,570	\$ 3,847,270	\$ 2,928,971	\$ 2,791,671	\$ 3,379,372
Recovery of MTBE Costs from Settlement		\$ 3,815,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FY End Water Reserves	\$ 3,080,907	\$ 6,352,520	\$ 4,609,120	\$ 5,587,570	\$ 3,847,270	\$ 2,928,971	\$ 2,791,671	\$ 3,379,372	\$ 4,427,872
TOTAL TARGET WATER CASH RESERVES	\$ 3,079,000	\$ 3,278,000	\$ 3,544,000	\$ 3,501,000	\$ 3,654,000	\$ 3,787,000	\$ 3,961,000	\$ 4,160,000	\$ 4,355,000
Above or (below) Target Reserves	\$ 1,907	\$ 3,074,520	\$ 1,065,120	\$ 2,086,570	\$ 193,270	\$ (858,029)	\$ (1,169,329)	\$ (780,628)	\$ 72,872
Effective date of water rates	1/1/12	7/1/12	7/1/13	7/1/13	7/1/14	7/1/15	7/1/16	7/1/17	7/1/18
Projected Rate Increase for Service Charge	8.2%	3.1%	5.6%	5.6%	6.0%	8.0%	8.2%	7.6%	4.2%
Service rates (\$/month for 3/4" meter)	\$ 15.70	\$ 16.20	\$ 17.10	\$ 17.10	\$ 18.10	\$ 19.50	\$ 21.10	\$ 22.70	\$ 23.70
Projected Rate Increase for Quantity Charge	8.2%	3.1%	5.6%	5.6%	6.0%	8.0%	8.2%	7.6%	4.2%
Quantity Charge: (\$/kgal)	\$ 4.90	\$ 5.05	\$ 5.33	\$ 5.33	\$ 5.65	\$ 6.10	\$ 6.60	\$ 7.10	\$ 7.40
FMWD Quantity Charge: (\$/kgal)	\$ 1.90	\$ 1.90	\$ 1.90	\$ 1.90	\$ 1.90	\$ 1.90	\$ 1.90	\$ 1.90	\$ 1.90
CVWD Quantity Charge: (\$/kgal)	\$ 3.00	\$ 3.15	\$ 3.43	\$ 3.43	\$ 3.75	\$ 4.20	\$ 4.70	\$ 5.20	\$ 5.50

Crescenta Valley Water District

Budget - FY 14/15 - - Preliminary V2

Water Expense vs. Revenue Summary



Capital Improvement Project Program FY 14/15 Budget - Preliminary		Projected FY 13/14	Budget FY 14/15	Forecast FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19
1. Water Supply							
A. Groundwater							
i. Well Rehabilitation							
	Well 1 Rehabilitation	\$ 59,328					
	Well 5 Rehabilitation	\$ 110,900					
	Well 8 Rehabilitation	\$ 70,300					
	Well 9 Rehabilitation	\$ 55,800					
	Well 11 Rehabilitation	\$ 55,800					
	Well 12 Rehabilitation	\$ 61,300					
	Well 7 Rehabilitation		\$ 75,000				
	Well 14 Rehabilitation		\$ 50,000				
	Well 6 Rehabilitation			\$ 35,000			
	Well 10 Rehabilitation				\$ 75,000		
	Well 14 Rehabilitation					\$ 50,000	
	Well 12 Rehabilitation						\$ 75,000
	Well 15 Rehabilitation						\$ 50,000
ii. New Wells							
	Rockhaven Well - Equipment & Pipeline - Design		\$ 85,000				
	Rockhaven Well - Equipment & Pipeline - Construction			\$ 760,000			
iii. Studies							
B. Imported Water							
	CVWD/LADWP Interconnection (Phase 1)	\$ 66,000	\$ 125,000				
	Ocean View Pipeline & Chlorination Station (Phase 2)	\$ 92,000	\$ 210,000				
	New PCV at Berkshire Station (Phase 3)						
	Upgrade Emergency Pump at P1 (Phase 3)		\$ -				
C. Groundwater Basin Recharge							
	Storm Water Recharge Study	\$ 50,500	\$ 55,000				
D. Recycled Water System							
i. Recycled Water							
ii. Membrane Bioreactor Technology							
E. Demand Management							
WS Total		\$ 621,928	\$ 600,000	\$ 795,000	\$ 75,000	\$ 50,000	\$ 125,000

Capital Improvement Project Program FY 14/15 Budget - Preliminary	Projected FY 13/14	Budget FY 14/15	Forecast FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19
2. Water Storage						
A. Reservoir Rehabilitation						
i. Roof/Vents Rehabilitation						
Edmund #1 - Roof/Air Vents	\$ 380,000					
Oak Creek #1 - Roof/Air Vents	\$ -	\$ -	\$ 250,000			
Oak Creek #2 - Roof/Air Vents				\$ 225,000		
Rosemont - Roof/Air Vents					\$ 225,000	
Markridge - Air Vents					\$ 15,000	\$ 75,000
Goss Canyon - Roof/Air Vents						\$ 15,000
Edmund #2 - Roof/Air Vents						\$ 75,000
ii. Steel Reservoir Re-Coating						
iii. Concrete Reservoir Rehabilitation						
Encinal Reservoir - Concrete Rehabilitation				\$ 50,000		
iv. Corrosion Protection						
Cathodic Protection - Replacement					\$ 60,000	
B. Reservoir Water Quality						
i. Water Mixing System						
iv. Replace common inlet and outlet piping						
C. New Reservoir Water Storage						
WS Total	\$ 380,000	\$ -	\$ 250,000	\$ 275,000	\$ 300,000	\$ 165,000
3. Water Distribution						
A. Pipeline Replacement						
3000 & 3100 Block - Paraiso Way - 1,400 LF	\$ 326,550					
4950 Block - Cloud - 300 LF	\$ 85,600					
4900 Block - Ramsdell - 600 LF	\$ 191,900					
2800 Block - Prospect - 600 LF	\$ -					
3800 Block - Honolulu Blvd - 450 LF	\$ 110,000					
2900 Block - Paraiso Way - 800 LF		\$ 200,000				
2900 Block - Santa Carlotta - 800 LF		\$ 200,000				
4900 Block - Glenwood - 600 LF		\$ 150,000				
2800 Block - Prospect - 600 LF		\$ 150,000				
4400 Block - Glenwood - 200 LF		\$ 50,000				

Capital Improvement Project Program FY 14/15 Budget - Preliminary	Projected FY 13/14	Budget FY 14/15	Forecast FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19
2600 Block - Harmony Place - 450 LF			\$ 112,500			
3900 Block - Park Place - 300 LF			\$ 75,000			
2900 Block - Mary Avenue - 800 LF			\$ 200,000			
2700 Block - Brookhill Avenue - 700 LF			\$ 175,000			
3000 - 3300 Blocks - Brookhill Avenue - 3,320 LF				\$ 830,000		
3200 Block - Park Vista - 300 LF					\$ 75,000	
3200 & 3300 Block - Foothill Blvd - 1,950 LF					\$ 487,500	
4400 Block - Cloud Ave - 300 LF					\$ 75,000	
3100 Block - Community - 800 LF					\$ 200,000	
2200 Block - Honolulu Ave - 750 LF						\$ 187,500
4900 Block - El Sereno - 350 LF						\$ 87,500
2400 Block - Foothill - 500 LF						\$ 125,000
2700 Block - Paraiso Way - 200 LF						\$ 50,000
2800 Block - Los Olivos - 850 LF						\$ 212,500
2100 Block - La Canada Crest - 800 LF						\$ 200,000
B. New Pipelines						
C. Booster Pump System						
i. Annual Pump /Motor Replacement						
Encinal - Booster A & Oak Creek - Booster "C"	\$ 20,535					
Encinal - Booster A		\$ 35,000				
Glenwood - Booster 33			\$ 35,000			
1 - Boosters				\$ 30,000		
2 - Boosters					\$ 70,000	
2 - Boosters						\$ 70,000
ii. Pump Station Upgrade						
Mills Plant - Aeration Tower Rehabilitation	\$ -	\$ 35,000				
Upgrade - Paschall Booster Station inlet piping & valves					\$ 150,000	
iii. VFD Pump Upgrade						
iv. MCC Replacement						
MCC upgrade at Oak Creek	\$ 57,500	\$ 300,000				
MCC upgrade at Paschall			\$ 60,000	\$ 300,000		
MCC upgrade at Goss Canyon				\$ 75,000	\$ 250,000	
MCC upgrade at Ocean View					\$ 75,000	\$ 275,000
MCC upgrade at Edmund #2						\$ 75,000

Capital Improvement Project Program FY 14/15 Budget - Preliminary	Projected FY 13/14	Budget FY 14/15	Forecast FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19
D. Pressure Reducing Stations						
<i>PRS - Zone 9 to Zone 6</i>						\$ 120,000
E. Miscellaneous Projects						
i. Water Surge Control						
<i>Rehabilitation Surge Tanks at Glenwood</i>		\$ 28,000				
<i>Rehabilitation Surge Tank at Paschall</i>					\$ 75,000	
ii. Street/Utility/ Meter Adjustment & Upgrade						
iii. Misc						
<i>Repairs to Ramsdell Mixing Station</i>	\$ -	\$ 35,000				
WD Total	\$ 792,085	\$ 1,183,000	\$ 657,500	\$ 1,235,000	\$ 1,457,500	\$ 1,402,500
4. Water Treatment						
A. Nitrate Removal						
i. Glenwood						
ii. Mills						
iii. Ordunio						
<i>Ion Exchange Plant at Ordunio - Design</i>						\$ 47,500
B. Chlorine Disinfection						
<i>New Chlorination Station at Markridge Reservoir</i>	\$ -	\$ 43,000				
<i>New Chlorine Analyzers</i>					\$ 47,500	
C. Convert to Chloramines						
D. New Federal and State Regulations						
E. Water Quality Studies						
WT Total	\$ -	\$ 43,000	\$ -	\$ -	\$ 47,500	\$ 47,500
5. Technology						
A. Automated Meter Reading (AMR) System						
B. Supervisory Control and Data Acquisition (SCADA) System						
<i>SCADA RTU Replacement (35 sites) - Design</i>	\$ 20,000	\$ 25,000	\$ 25,000	\$ 25,000		
<i>SCADA RTU Replacement (35 sites) - Equipment & Integration</i>	\$ 45,000	\$ 149,000	\$ 200,000	\$ 295,000		
C. Graphical Information System (GIS)						
<i>Update GIS System</i>	\$ 19,100					
TECH Total	\$ 84,100	\$ 174,000	\$ 225,000	\$ 320,000	\$ -	\$ -

Capital Improvement Project Program FY 14/15 Budget - Preliminary	Projected FY 13/14	Budget FY 14/15	Forecast FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19
6. Public Safety/Emergency Response						
A. Emergency Electrical Generators						
B. Water Storage						
Seismic Sensors & Valve Actuators - Dunsmore & Pickens					\$ 45,000	
Seismic Sensors & Valve Actuators - Cresta Heights & Ordunio			\$ 72,500			
Seismic Sensors & Valve Actuators - Oak Creek				\$ 95,000		
C. Security						
D. Miscellaneous						
SF/ER Total	\$ -	\$ -	\$ 72,500	\$ 95,000	\$ 45,000	\$ -
7. Facilities & Planning						
A. Main Office						
B. Glenwood Plant						
C. Mills Plant						
D. Reservoir Site Improvements						
Roof Replacement at Old Encinal	\$ 1,887				\$ 100,000	
Pickens - Access Road Improvements						\$ 125,000
Goss Canyon - Site Improvements						\$ 135,000
5. Misc. Properties						
6. District Planning						
F & P Total	\$ 1,887	\$ -	\$ -	\$ -	\$ 100,000	\$ 260,000
Capital Improvement Projects - Total	\$ 1,880,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000
Budget Amount in Cashflow Model	\$ 2,646,500	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000
Amount over/under Budget	\$ 766,500	\$ -	\$ -	\$ -	\$ -	\$ -

CVWD - Proposed Studies

Studies		1	2	3	4	5	6	7	8	9	10
	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24
Main Office Seismic Assessment	X										
GIS - Update	X	X	X	X	X	X	X	X	X	X	X
Reservoir Site Topo Boundary Survey		X	X	X	X	X	X	X	X	X	X
Hydraulic Study		X		X		X		X		X	
Grant Proposals	X	X	X	X	X	X	X	X	X	X	X
Recycled Water Master Plan		X									
Solar Power Study		X									
Strategic Planning		X									
Source Water Protection Plan			X								
Urban Water Management Plan			X					X			
Wastewater Volume Based Rate Study			X								
Reservoir Water Quality & Mixing System Study				X							
Water Well Replacement Study				X							
Water Quality - Chlorine/THM Study				X							
Surge Analysis Study				X							
Water Budget & Rate Study					X						
Cathodic Protection Inspection & Study					X						
Power/TOU/Operational Study						X					
Facilities Assessment						X					
Water Master Plan Update						X					
Reservoir Interior/Exterior Coating Inspection							X				
Update Groundwater Flow Model							X				
Fixed Asset Study								X			
CMMS Study								X			
Bench-Marking Study									X		
Wastewater Master Plan										X	
LAFCO/Overlap Area Study with GWP											X
Total	3	7	6	8	5	7	5	7	4	5	4
Non-recurring Studies	0	3	3	4	2	3	2	3	1	1	1

Admin. Consultants - Estimated Cost for All Proposed Studies

FY 14/15 Administration Consultants

Project Name	Water	Sewer	Total		
GIS - Update	\$5,000	\$5,000	\$10,000	50%	50%
Reservoir Site Topo Boundary Survey - Oak Creek	\$15,000	\$0	\$15,000	100%	0%
Hydraulic Study	\$5,000	\$0	\$5,000	100%	0%
Grant Proposals	\$20,000	\$0	\$20,000	100%	0%
Recycled Water Master Plan	\$60,000	\$0	\$60,000	100%	0%
Solar Power Study	\$15,000	\$0	\$15,000	100%	0%
Strategic Planning	\$20,000	\$20,000	\$40,000	50%	50%
Total	\$140,000	\$25,000	\$165,000		

FY 15/16 Administration Consultants

Project Name	Water	Sewer	Total		
GIS - Update	\$5,000	\$5,000	\$10,000	50%	50%
Reservoir Site Topo Boundary Survey - Paschall	\$7,500	\$0	\$7,500	100%	0%
Grant Proposals	\$20,000	\$0	\$20,000	100%	0%
Source Water Protection Plan	\$35,000	\$0	\$35,000	100%	0%
Urban Water Management Plan	\$50,000	\$0	\$50,000	100%	0%
Wastewater Volume Based Rate Study	\$0	\$30,000	\$30,000	0%	100%
Total	\$117,500	\$35,000	\$152,500		

FY 16/17 Administration Consultants

Project Name	Water	Sewer	Total		
GIS - Update	\$5,000	\$5,000	\$10,000	50%	50%
Reservoir Site Topo Boundary Survey - Goss Canyon	\$15,000	\$0	\$15,000	100%	0%
Hydraulic Study	\$5,000	\$0	\$5,000	100%	0%
Grant Proposals	\$20,000	\$0	\$20,000	100%	0%
Reservoir Water Quality & Mixing System Study	\$75,000	\$0	\$75,000	100%	0%
Water Well Replacement Study	\$75,000	\$0	\$75,000	100%	0%
Water Quality - Chlorine/THM Study	\$75,000	\$0	\$75,000	100%	0%
Surge Analysis Study	\$75,000	\$0	\$75,000	100%	0%
Total	\$345,000	\$5,000	\$350,000		

FY 17/18 Administration Consultants

Project Name	Water	Sewer	Total		
GIS - Update	\$5,000	\$5,000	\$10,000	50%	50%
Reservoir Site Topo Boundary Survey - Rosemont	\$15,000	\$0	\$15,000	100%	0%
Grant Proposals	\$20,000	\$0	\$20,000	100%	0%
Water Budget & Rate Study	\$125,000	\$0	\$125,000	100%	0%
Cathodic Protection Inspection & Study	\$60,000	\$0	\$60,000	100%	0%
Total	\$225,000	\$5,000	\$230,000		

FY 18/19 Administration Consultants

Project Name	Water	Sewer	Total		
GIS - Update	\$5,000	\$5,000	\$10,000	50%	50%
Reservoir Site Topo Boundary Survey - Cresta Hts	\$15,000	\$0	\$15,000	100%	0%
Grant Proposals	\$20,000	\$0	\$20,000	100%	0%
Power/TOU/Operational Study	\$50,000	\$0	\$50,000	100%	0%
Facilities Assessment	\$75,000	\$0	\$75,000	100%	0%
Water Master Plan Update	\$250,000	\$0	\$250,000	100%	0%
Total	\$415,000	\$5,000	\$420,000		

Admin. Consultants - Cost for Proposed Studies included in the FY 14/15 Water and Wastewater Budget

FY 14/15 Administration Consultants

Project Name	Water	Sewer	Total		
GIS - Update	\$5,000	\$5,000	\$10,000	50%	50%
Reservoir Site Topo Boundary Survey - Oak Creek	\$15,000	\$0	\$15,000	100%	0%
Hydraulic Study	\$5,000	\$0	\$5,000	100%	0%
Grant Proposals	\$20,000	\$0	\$20,000	100%	0%
Recycled Water Master Plan	\$60,000	\$0	\$60,000	100%	0%
Solar Power Study	\$15,000	\$0	\$15,000	100%	0%
Strategic Planning	\$20,000	\$20,000	\$40,000	50%	50%
Total	\$140,000	\$25,000	\$165,000		

FY 15/16 Administration Consultants

Project Name	Water	Sewer	Total		
GIS - Update	\$5,000	\$5,000	\$10,000	50%	50%
Reservoir Site Topo Boundary Survey - Paschall	\$7,500	\$0	\$7,500	100%	0%
Grant Proposals	\$20,000	\$0	\$20,000	100%	0%
Source Water Protection Plan	\$35,000	\$0	\$35,000	100%	0%
Urban Water Management Plan	\$50,000	\$0	\$50,000	100%	0%
Wastewater Volume Based Rate Study	\$0	\$30,000	\$30,000	0%	100%
Total	\$117,500	\$35,000	\$152,500		

FY 16/17 Administration Consultants

Project Name	Water	Sewer	Total		
GIS - Update	\$0	\$0	\$0	50%	50%
Reservoir Site Topo Boundary Survey - Goss Canyon	\$0	\$0	\$0	100%	0%
Hydraulic Study	\$0	\$0	\$0	100%	0%
Grant Proposals	\$20,000	\$0	\$20,000	100%	0%
Reservoir Water Quality & Mixing System Study	\$75,000	\$0	\$75,000	100%	0%
Water Well Replacement Study	\$0	\$0	\$0	100%	0%
Water Quality - Chlorine/THM Study	\$35,000	\$0	\$35,000	100%	0%
Surge Analysis Study	\$0	\$0	\$0	100%	0%
Total	\$130,000	\$0	\$130,000		

FY 17/18 Administration Consultants

Project Name	Water	Sewer	Total		
GIS - Update	\$2,500	\$2,500	\$5,000	50%	50%
Reservoir Site Topo Boundary Survey - Rosemont	\$2,500	\$0	\$2,500	100%	0%
Grant Proposals	\$0	\$0	\$0	100%	0%
Water Budget & Rate Study	\$125,000	\$0	\$125,000	100%	0%
Cathodic Protection Inspection & Study	\$0	\$0	\$0	100%	0%
Total	\$130,000	\$2,500	\$132,500		

FY 18/19 Administration Consultants

Project Name	Water	Sewer	Total		
GIS - Update	\$0	\$0	\$0	50%	50%
Reservoir Site Topo Boundary Survey - Cresta Hts	\$5,000	\$0	\$5,000	100%	0%
Grant Proposals	\$0	\$0	\$0	100%	0%
Power/TOU/Operational Study	\$0	\$0	\$0	100%	0%
Facilities Assessment	\$0	\$0	\$0	100%	0%
Water Master Plan Update	\$250,000	\$0	\$250,000	100%	0%
Total	\$255,000	\$0	\$255,000		

Memorandum

DATE: March 13, 2014

TO: Board of Directors

FROM: Dennis A. Erdman

RE: General Manager's Report 

CC: Management Staff

Weather conditions have not changed as we move toward the first day of spring and without significant precipitation, California is facing serious water shortage throughout the state. In the southern California region, drought planning and contingency measures which have been taken over the last decade have provided a cushion to the severe drought conditions being felt elsewhere in the state. At the meeting of the Quad Cities Conservation Group last week, the consensus of opinion was that drought management measures locally should remain at the "voluntary" stage. A month from now, when the committee meets again, if there hasn't been any significant increase in local rainfall, the committee would discuss whether to recommend moving to a higher status in the drought alert programs of the various agencies. As the CVWD staff prepares the 2014-15 budget for review by the Board of Directors, options for increasing the District's conservation and drought management efforts will be presented. Please see Christy Scott's report in this agenda packet for more details on the drought.

The program the Board authorized to upgrade and service CVWD's wells is continuing and should be completed by summer. However, as staff has regularly reported, groundwater levels continue to decline and the wells become less productive. The water needed to make up for what we are not pumping will need to come from FMWD and the budget estimates for next year reflect a greater annual purchase of imported water than in past years.

David Gould has made several presentations recently to FMWD and the member agencies on the District's project to have an emergency connection with LADWP and be able to feed some of this water east through the FMWD system in the event of an emergency. FMWD endorses the project and the managers of the agencies have also indicated their approval. This will be an agenda item for FMWD Board action on March 17.

We've received information that Steve Dulay, our meter reader, is ready to return to duty later this month after an extended medical leave absence. As of the date of this memo, CVWD has worked 124 days without a lost time accident.

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

To: Honorable President and Members of the Board of Directors

March 18th, 2014

From: Christy J. Scott – Program Specialist

Subject: Graywater Regulations

Introduction:

Graywater, defined by the California Health and Safety Code ([Section 17922.12a](#)) is “untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes.” The Code also specifies what household sources can provide grey water: bathtubs, showers, bathroom washbasins, clothes washing machines, and laundry tubs. Any wastewater coming from kitchen sinks or dishwashers cannot be classified as graywater in California.

Background:

On January 27, 2010, the State of California finalized the graywater regulations for Chapter 16A “Non-potable Water Reuse Systems” into the 2007 California Plumbing Code (CPC). The emergency graywater regulations were enacted to help residents of California conserve water by facilitating greater reuse of laundry, shower water, and similar sources for irrigation. In addition, by making compliance easy, the State hopes to reduce the number of non-compliant graywater systems. Graywater system must comply with the 2007 CPC and other codes enacted by your local municipality or water purveyor.

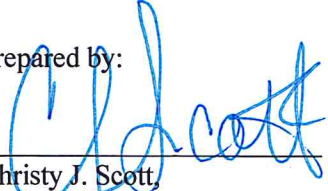
To date, LA County and the City of Glendale have simply adopted Chapter 16A without any further requirements for the use of Graywater in a residential setting. (Regulations Attached). Specifically, Appendix G, entitled “Graywater Systems” as well as Part I of Chapter 16A, subtitled “Graywater Systems”, have been adopted by Cities and Counties throughout California. Whereas Appendix G establishes broad standards for the use of graywater plumbing systems, Part I of Chapter 16A establishes more specific standards that are applicable only to residential homes.

While Chapter 16A does provide a method to utilize graywater from clothes washer systems without a permit, it should be noted that graywater is only approved for use in sub-surface landscape irrigation systems AND with adherence to all the guidelines attached.

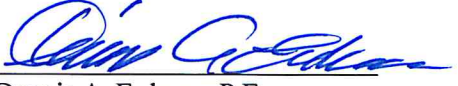
Rebates:

Graywater systems are currently not rebated by Metropolitan Water District of Southern California (MWD) or any of their member or retail agencies. There are a few agencies in northern California who are providing rebates for washing machine graywater systems. MWD did say that they would consider a Graywater trial program with funds from the monies allocated to FMWD during the next fiscal year. Staff will complete additional research on the feasibility of this program for CVWD.

Prepared by:


Christy J. Scott
Program Specialist

Submitted by:


Dennis A. Erdman, P.E.
General Manager

CHAPTER 16A
NONPOTABLE WATER REUSE SYSTEMS

Part I

Intent

This part is applicable to occupancies under the authority of the Department of Housing and Community Development as specified in Section 108.2.1.1 and is intended to:

- 1. Conserve water by facilitating greater reuse of laundry, shower, lavatory and similar sources of discharge for irrigation and/or indoor use.*
- 2. Reduce the number of non-compliant graywater systems by making legal compliance easily achievable.*
- 3. Provide guidance for avoiding potentially unhealthful conditions.*
- 4. Provide an alternative way to relieve stress on a private sewage disposal system by diverting the graywater.*

1601A.0 Graywater Systems – General.

(A) Except as otherwise provided for in this chapter, the provisions of this code shall be applicable to gray water installation. *The provisions of this part shall apply to the construction, alteration, discharge, use, and repair of graywater systems. The graywater system shall not be connected to any potable water system without an air gap or other physical device which prevents backflow and shall not cause the ponding or runoff of graywater. A city, county, or city and county or other local government may, after a public hearing and enactment of an ordinance or resolution, further restrict or prohibit the use of graywater systems. For additional information, see Health and Safety Code Section 18941.7.*

(B) *The type of system shall be determined by the location, discharge capacity, soil type, and ground water level. The system shall be designed to handle graywater discharged from the building and may include tank(s) and other appurtenances necessary to ensure proper function of the system.*

Note: *It is not the intent of this section to require that all graywater must be handled by an irrigation field or disposal field. It is acceptable for excess graywater to be diverted to the building sewer through the overflow required pursuant to Section 1609A.O (E).*

(C) No graywater system or part thereof shall be located on any lot other than the lot that is the site of the building or structure that discharges the graywater, nor shall any graywater system or part thereof be located at any point having less than the minimum distances indicated in Table 16A-1.

Exception: *When there exists a lawfully recorded perpetual and exclusive covenant to an easement appurtenant and right-of-way between adjoining land-owners of two or more contiguous lots to discharge graywater from one lot to an adjoining lot.*

(D) No construction permit for any graywater system shall be issued until a plot plan with appropriate data satisfactory to the *Enforcing Agency* has been submitted and approved. When there is insufficient lot area or inappropriate soil conditions to *prevent the ponding or runoff* of the graywater, as determined by the *Enforcing Agency*, no graywater system shall be allowed.

Exception: *A construction permit shall not be required for a clothes washer system which does not require cutting of the existing plumbing piping provided it is in compliance with Section 1603A.1.1.*

(E) *All graywater systems shall be designed to allow the user to direct the flow to either the irrigation or disposal field or the building sewer. The means of changing the direction of the graywater shall be clearly labeled and readily accessible to the user.*

(F) *Water used to wash diapers or similarly soiled or infectious garments or other prohibited contents shall be diverted by the user to the building sewer.*

(G) *Graywater shall not be used in spray irrigation, allowed to pond or runoff and shall not be discharged directly into or reach any storm sewer system or any surface body of water.*

(H) Human contact with graywater or the soil irrigated by graywater shall be minimized and avoided, except as required to maintain the graywater system. The discharge point of any graywater irrigation or disposal field shall be covered by at least (2) inches (51 mm) of mulch, rock, or soil, or a solid shield to minimize the possibility of human contact.

(I) Graywater shall not be used to irrigate root crops or edible parts of food crops that touch the soil.

1602A.0 Definitions.

Clothes Washer System. A graywater system utilizing only a single domestic clothes washing machine in a one- or two-family dwelling.

Complex System. Graywater systems that discharge over 250 gallons (947 L) per day.

Disposal Field. An intended destination for graywater including but not limited to a mulch basin or receiving landscape feature, graywater leach field, or other approved method of disposal.

Graywater. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines, and laundry tubs, but does not include wastewater from kitchen sinks or dishwashers.

Graywater System. A system designed to collect graywater and transport it out of the structure for distribution in an Irrigation or Disposal Field. A graywater system may include tanks, valves, filters, pumps or other appurtenances along with piping and receiving landscape.

Irrigation Field. An intended destination for graywater in the receiving landscape including but not limited to a drip irrigation system, mulch basin, or other approved method of dispersal for irrigation purposes.

Mulch. Organic waste material including but not limited to leaves, prunings, straw, pulled weeds and wood chips. Mulch shall be permeable enough to allow rapid infiltration of graywater.

Mulch Basin. A type of irrigation or disposal field filled with mulch or other approved permeable material of sufficient depth, length and width to prevent ponding or runoff. A mulch basin may include a basin around a tree, a trough along a row of plants or other shapes necessary for irrigation or disposal.

Receiving Landscape. Includes features such as soil, basins, swales, mulch, and plants.

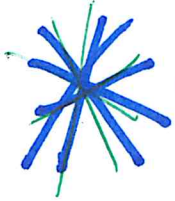
Simple System. A graywater system serving a one- or two-family dwelling with a discharge of 250 gallons (947 L) per day or less. Simple systems exceed a clothes washer system.

Treated Graywater. Nonpotable water collected and treated on-site suitable for direct beneficial use.

1603A.0 Permit.

A written construction permit shall be obtained from the Enforcing Agency prior to the erection, construction, reconstruction, installation, relocation or alteration of any graywater system that requires a permit.

Exception: A construction permit shall not be required for a clothes washer system which does not require cutting of the existing plumbing piping provided it is in compliance with Section 1603A.1.1.



1603A.1 System Requirements.

1603A.1.1 Clothes Washer System. A clothes washer system in compliance with all of the following is exempt from the construction permit specified in Section 108.4.1 and may be installed or altered without a construction permit:

1. If required, notification has been provided to the Enforcing Agency regarding the proposed location and installation of a graywater irrigation or disposal system.

Note: A city, county, or city and county or other local government may, after a public hearing and enactment of an ordinance or resolution, further restrict or prohibit the use of graywater systems. For additional information, see Health and Safety Code Section 18941.7.

2. The design shall allow the user to direct the flow to the irrigation or disposal field or the building sewer. The direction control of the graywater shall be clearly labeled and readily accessible to the user.
3. The installation, change, alteration or repair of the system does not include a potable water connection or a pump and does not affect other building, plumbing, electrical or mechanical components including structural features, egress, fire-life safety, sanitation, potable water supply piping or accessibility.

Note: The pump in a clothes washer shall not be considered part of the graywater system.
4. The graywater shall be contained on the site where it is generated.
5. Graywater shall be directed to and contained within an irrigation or disposal field.
6. Ponding or runoff is prohibited and shall be considered a nuisance.
7. Graywater may be released above the ground surface provided at least two (2) inches (51 mm) of mulch, rock, or soil, or a solid shield covers the release point. Other methods which provide equivalent separation are also acceptable.
8. Graywater systems shall be designed to minimize contact with humans and domestic pets.
9. Water used to wash diapers or similarly soiled or infectious garments shall not be used and shall be diverted to the building sewer.
10. Graywater shall not contain hazardous chemicals derived from activities such as cleaning car parts, washing greasy or oily rags, or disposing of waste solutions from home photo labs or similar hobbyist or home occupational activities.
11. Exemption from construction permit requirements of this code shall not be deemed to grant authorization for any graywater system to be installed in a manner that violates other provisions of this code or any other laws or ordinances of the Enforcing Agency.
12. An operation and maintenance manual shall be provided. Directions shall indicate the manual is to remain with the building throughout the life of the system and indicate that upon change of ownership or occupancy, the new owner or tenant shall be notified the structure contains a graywater system.

1603A.1.2 Simple System. Simple systems exceed a clothes washer system and shall comply with the following:

1. The discharge capacity of a graywater system shall be determined by Section 1606A.0. Simple systems have a discharge capacity of 250 gallons (947 L) per day or less.
2. Simple systems shall require a construction permit, unless exempted from a construction permit by the Enforcing Agency. The Enforcing Agency shall consult with any public water system (as defined in Health and Safety Code, Section 116275) providing drinking water to the dwelling before allowing and exemption from a construction permit.
3. The design of simple systems shall be acceptable to the Enforcing Agency and shall meet generally accepted graywater system design criteria.

1603A.1.3 Complex System. Any graywater system that is not a clothes washer system or simple system shall comply with the following:

1. The discharge capacity of a graywater system shall be determined by Section 1606A.0. Complex systems have a discharge capacity over 250 gallons (947 L) per day.
2. Complex systems shall require a construction permit, unless exempted from a construction permit by the Enforcing Agency. The Enforcing Agency shall consult with any public water system (as defined in Health and Safety Code, Section 116275) providing drinking water to the dwelling before allowing and exemption from a construction permit.
3. A complex system shall be designed by a person who can demonstrate competence to the satisfaction of the Enforcing Agency.

Table 1603A.1.4 – Construction Permit Requirements

Type of System	Permit Requirements
Clothes Washer System	No construction permit required if conditions in Section 1603A.1.1 are met.
Simple System	Permit and plans required unless exempted by Enforcing Agency.
Complex System	Permit and plans required unless exempted by Enforcing Agency.
Treated Graywater	Permit and plans required unless exempted by Enforcing Agency.

1604A.0 Drawings and Specifications.

Graywater systems for which a construction permit is required may be subject to submittal of plans and details of the proposed graywater system necessary to ensure compliance with the requirements of this chapter. Identification of the groundwater level and soil absorption qualities at the site shall be included in the plans or provided to the Enforcing Agency.

Exception: The Enforcing Agency may waive the requirement for identification of groundwater level and/or soil absorption qualities based on knowledge of local conditions.

1604A.1 Groundwater Depth. Verification of ground water levels which exceed three (3) vertical feet (915 mm) from the deepest irrigation or disposal point of the proposed graywater system shall not be required.

Note: The absence of groundwater in a test hole three (3) vertical feet (915 mm) below the deepest irrigation or disposal point shall be sufficient to satisfy this section unless seasonal high groundwater levels have been documented to rise to within this area.

1605A.0 Inspection and Testing.

(A) Inspection. A graywater system for which a construction permit is required shall be subject to inspection by the Enforcing Agency and such construction or work shall remain accessible and exposed for inspection purposes until approved.

At the time of final inspection, an operation and maintenance manual shall be provided. Directions shall indicate the manual is to remain with the building throughout the life of the system and upon change of ownership, the new owner shall be notified the structure contains a graywater system

(B) Testing.

- (1) Tanks shall be filled with water to the overflow line prior to and during inspection. Seams and joints shall be left exposed, and the tank shall remain watertight.
- (2) A flow test shall be performed through the system to the point of graywater irrigation or disposal. Lines and components shall be watertight.

1606A.0 Procedure for Estimating Graywater Discharge.

(A) Single Family Dwellings and Multi-Family Dwellings. The graywater discharge for single family and multi-family dwellings shall be calculated by estimates of graywater use based on water use records, calculations of local daily per person interior water use, or the following procedure:

1. The number of occupants of each dwelling unit shall be calculated as follows:

First Bedroom	2 occupants
Each additional bedroom	1 occupant

2. The estimated graywater flows of each occupant shall be calculated as follows:

Showers, bathtubs and wash basins	25 GPD (95 LPD)/occupant
Laundry	15 GPD (57 LPD)/occupant

3. The total number of occupants shall be multiplied by the applicable estimated graywater discharge as provided above and the type of fixtures connected to the graywater system.

(B) Daily Discharge – Graywater systems using tanks shall be designed to minimize the amount of time graywater is held in the tank and shall be sized to distribute the total amount of estimated graywater on a daily basis.

Exception: Treated graywater systems when approved by the Enforcing Agency.

1607A.0 Required Area of Irrigation or Disposal Fields. Irrigation or disposal fields may have one or more valved zones. Each zone must be of adequate size to receive the graywater anticipated in that zone. No irrigation or disposal field shall extend within three (3) vertical feet (915 mm) of the highest known seasonal groundwater, or to a depth where graywater contaminates the groundwater, ocean water or surface water. The applicant shall supply evidence of groundwater depth to the satisfaction of the Enforcing Agency.

Note: The absence of groundwater in a test hole three (3) vertical feet (915 mm) below the deepest irrigation or disposal point shall be sufficient to satisfy this section unless seasonal high groundwater levels have been documented to rise to within this area.

1608A.0 Determination of Maximum Absorption Capacity.

(A) Wherever practicable, *irrigation or disposal* field size shall be computed from Table 16A-2.

(B) In order to determine the absorption quantities of questionable soils other than those listed in Table 16A-2, the proposed site may be subjected to percolation tests acceptable to the *Enforcing Agency*.

Exception: *Irrigation fields in compliance with Section 1611A.2, which only utilize drip type emitters.*

(C) When a percolation test is required, no graywater system shall be permitted if the test shows the absorption capacity of the soil is *unable to accommodate the intended discharge of the proposed graywater system*.

Exception: *The Enforcing Agency may waive the requirement for percolation tests based on knowledge of local conditions or accept other testing methods.*

1609A.0 Tank Construction.

(A) *When system design includes a tank, specifications for the tank shall be submitted to the Enforcing Agency for approval. Such plans shall show all dimensions and other pertinent data.*

(B) Tanks shall be constructed of solid, durable materials not subject to excessive corrosion or decay and shall be water-tight.

(C) Each tank shall be vented as required by Chapter 9 of this code, *shall be sealed against vermin and mosquitoes, and have an access opening to allow for inspection and cleaning.*

(D) Each tank shall have its rated capacity permanently marked on the unit. In addition, a sign stating "GRAYWATER IRRIGATION SYSTEM, CAUTION — UNSAFE WATER" shall be permanently marked on the holding tank.

(E) Each tank shall have an *overflow drain*. The overflow drain shall have a permanent connection to the building drain or building sewer, upstream of septic tanks, if any. The overflow drain shall not be equipped with a shutoff valve.

(F) The overflow *drain* shall not be less in size than the inlet pipe. The vent size shall be determined based on the total graywater fixture units as outlined in Table 7-5 of this code. Unions or equally effective fittings shall be provided for all piping connected to the holding tank.

(G) Each tank shall be structurally designed to withstand all anticipated earth or other loads. *Tank covers shall be capable of supporting an earth load of not less than three hundred (300) pounds per square foot (1,464.7 kg/m²) when the tank is used for underground installation.*

(H) *The overflow system must be designed so that the tank overflow will gravity drain to the existing sewer line or septic tank. The tank shall be protected against sewer line backflow by a backwater valve.*

(I) *An overflow drain and backwater valve is not required on a clothes washer system.*

1610A.0 Graywater Systems.

Graywater systems shall comply with Sections 1610A.1 through 1610A.3.

1610A.1 Pipe Materials. Graywater pipe, valves and fittings shall conform to the requirements of Sections 604.0, 605.0 and 606.0.

1610A.2 Identification. *Graywater distribution piping upstream of any connection to an irrigation or disposal field or a distribution valve shall be identified with the words "CAUTION: NONPOTABLE WATER, DO NOT DRINK." Marking shall be at intervals not to exceed five (5) feet (1,524 mm).*

1610A.3 Valves. All valves shall be accessible. A backwater valve installed pursuant to this code shall be provided on all tank drain connections to the sanitary drain or sewer piping.

1611A.0 Irrigation, Disposal Field and Mulch Basin Construction.

Irrigation fields, disposal fields and mulch basins used in graywater systems shall comply with this section. Graywater systems may contain either a irrigation field or a disposal field or a combination of both. This section is not intended to prevent the use of other methods of graywater irrigation or disposal approved by the Enforcing Agency.

1611A.1 Mulch Basin *A mulch basin may be used as an irrigation or disposal field. Mulch basins shall be sized in accordance with Table 16A-2 and of sufficient depth, length and width to prevent ponding or runoff during the graywater surge of a clothes washer, bathtub or shower. Mulch must be replenished as required due to decomposition of organic matter. Mulch basins will require periodic maintenance, reshaping or removal of dirt to maintain surge capacity and to accommodate plant growth and prevent ponding or runoff,*

1611A.2 Irrigation Field. *The provisions of this section are not intended to prevent the use of any appropriate material, appliance, installation, device, design or method of construction. If an alternate design is not available, the following provisions may be used as guidance in the design of a graywater irrigation field:*

(1) Filters used in graywater irrigation systems shall be as specified by the manufacturer's installation instructions for the design flow rate and intended use. The filter backwash and flush discharge shall be contained and disposed of into the building sewer system, septic tank or, with approval of the Enforcing Agency, a separate mini-leachfield sized to accept all the backwash and flush discharge water. Filter backwash water and flush water shall not be used for any purpose. Sanitary procedures shall be followed when handling filter backwash and flush discharge or graywater.

(2) Emitters shall be designed to resist root intrusion and shall be of a design recommended by the manufacturer for the intended graywater flow and use. For emitter ratings, refer to Irrigation Equipment Performance Report, Drip Emitters and Micro-Sprinklers, Center for Irrigation Technology, California State University, 5730 N. Chestnut Avenue, Fresno, California 93740-0018.

(3) Each irrigation zone shall be designed to include no less than the number of emitters specified in Table 16A-3, or through a procedure designated by the Enforcing Agency. Minimum spacing between emitters in any direction shall be sufficient to prevent surfacing or runoff.

(4) The system design shall provide user controls, such as valves, switches, timers and other controllers, as appropriate, to rotate the distribution of graywater between irrigation zones.

(5) All drip irrigation supply lines shall be polyethylene tubing or PVC Class 200 pipe or better and Schedule 40 fittings. All joints shall be properly solvent-cemented, inspected and pressure tested at 40 psi (276 kPa), and shown to be drip tight for five minutes, before burial. All supply piping shall be covered to a minimum depth of two (2) inches (51 mm) of mulch or soil. Drip feeder lines can be poly or flexible PVC tubing and shall be covered to a minimum depth of two (2) inches (51 mm) of mulch or soil.

(6) Where pressure at the discharge side of the pump exceeds 20 psi (138 kPa), a pressure-reducing valve able to maintain downstream pressure no greater than 20 psi (138 kPa) shall be installed downstream from the pump and before any emission device.

(7) Each irrigation zone shall include a flush valve/antisiphon valve to prevent back siphonage of water and soil.

1611A.3 Disposal Field. *The provisions of this section are not intended to prevent the use of any appropriate material, appliance, installation, device, design or method of construction. If an alternate design is not available the following provisions may be used as guidance in the design of a graywater disposal field:*

(A) *Disposal systems shall be not less than three (3) inches (80 mm) in cross sectional dimension and shall be constructed of perforated high-density polyethylene pipe, perforated ABS pipe, perforated PVC pipe, leaching chambers or other approved materials, provided that sufficient openings are available for distribution of the graywater into the trench area. Material, construction, and perforation shall be in compliance with the appropriate absorption fields drainage standards and shall be approved by the Enforcing Agency.*

- (B) Filter material, clean stone, gravel, slag, or similar filter material acceptable to the *Enforcing Agency*, varying in size from three-quarter (3/4) inch (19.1 mm) to two and one-half (2-1/2) inches (64 mm) shall be placed in the trench to the depth and grade required by this section. The perforated section shall be laid on the filter material in an approved manner. The perforated section shall then be covered with filter material to the minimum depth required by this section. The filter material shall then be covered with untreated building paper, straw, or similar porous material to prevent closure of voids with earth backfill. No earth backfill shall be placed over the filter material cover until after inspection and acceptance.

Exception. *Manufactured leaching chambers shall be installed in compliance with the manufacturer's installation instructions.*

- (C) *Disposal* fields shall be constructed as follows:

(See chart below)

	Minimum	Maximum
Number of drain lines per valved zone ¹	1	—
Length of each perforated line ¹	—	100 ft. (30,840 mm)
Bottom width of trench ¹	12 in. (305 mm)	24 in. (610 mm)
Spacing of lines, center to center ¹	4 ft. (1219 mm)	—
Depth of earth cover of lines	2 in. (51 mm)	—
Depth of filter material cover of lines	2 in. (51 mm)	—
Depth of filter material beneath lines ¹	3 in. (76 mm)	—
Grade of perforated lines	level	3 in./100 ft. (2 mm/m)

¹ *Manufactured leaching chambers shall be installed in compliance with the manufacturer's installation instructions.*

- (D) When necessary on sloping ground to prevent excessive line slopes, disposal lines shall be stepped or installed on the contour lines of the slope. The lines between each horizontal leaching section shall be made with approved water-tight joints and installed on natural or unfilled ground.

1612A.0 Special Provisions

- (A) Other collection and distribution systems shall be permitted by the local *Enforcing Agency*, as allowed by Section 108.7 of this code.
- (B) Nothing contained in this chapter shall be construed to prevent a city, county, or city and county or other local government from, after a public hearing and enactment of an ordinance or resolution, further restricting or prohibiting the use of graywater systems. For additional information, see Health and Safety Code Section 18941.7.
- (C) Graywater stub-out plumbing may be allowed for future connection prior to the installation of irrigation lines and landscaping. Stub-out shall be permanently marked "GRAYWATER STUB-OUT, CAUTION — UNSAFE WATER".

Table 16A -1 Location of Graywater System

Minimum Horizontal Distance Required From:	Tank	Irrigation Field	Disposal Field
	Feet/mm	Feet/mm	Feet/mm
<i>Building structures¹</i>	5 (1,524 mm) ²	2 (610 mm)	5 (1,524 mm)
<i>Property line adjoining private property</i>	5 (1,524 mm)	1.5 feet (458 mm)	5 (1,524 mm)
<i>Water supply wells³</i>	50 (15,240 mm)	100 (30,480 mm)	100 (30,480 mm)
<i>Streams and lakes³</i>	50 (15,240 mm)	100 (30,480 mm) ^{4,5}	100 (30,480 mm) ⁴
<i>Sewage pits or cesspools</i>	5 (1,524 mm)	5 (1,524 mm)	5 (1,524 mm)
<i>Sewage disposal field</i>	5 (1,524 mm)	4 (1,219 mm) ⁶	4 (1,219 mm) ⁶
<i>Septic tank</i>	0 (0)	5 (1,524 mm)	5 (1,524 mm)
<i>Onsite domestic water service line</i>	5 (1,524 mm)	0 (0 mm)	0 (0 mm)
<i>Pressurized public water main</i>	10 (3,048 mm)	10 (3,048 mm) ⁷	10 (3,048 mm) ⁷

¹ Building structures does not include porches and steps, whether covered or uncovered, breezeways, roofed porte cocheres, roofed patios, carports, covered walks, covered driveways, and similar structures or appurtenances.

² Underground tanks shall not be located within a 45 degree angle from the bottom of the foundation, or they shall be designed to address the surcharge imposed by the structure. The distance may be reduced to six (6) inches (153 mm) for aboveground tanks when first approved by the Enforcing Agency.

³ Where special hazards are involved, the distance required shall be increased as directed by the Enforcing Agency.

⁴ These minimum clear horizontal distances shall also apply between the irrigation or disposal field and the ocean mean higher hightide line.

⁵ The minimum horizontal distance may be reduced to 50 feet (15,240 mm) for irrigation fields utilizing graywater which has been filtered prior to entering the distribution piping.

⁶ Plus two (2) feet (610 mm) for each additional foot of depth in excess of one (1) foot (305 mm) below the bottom of the drain line.

⁷ For parallel construction or crossings, approval by the Enforcing Agency shall be required.

Table 16A-2 Design Criteria of Six Typical Soils

Type of Soil	Square Feet	Gallons	Square Meters	Liters
	Minimum square feet of irrigation/leaching area per 100 gallons of estimated graywater discharge per day	Maximum absorption capacity in gallons per square foot of irrigation/leaching area for a 24-hour period	Minimum square meters of irrigation/leaching area per liter of estimated graywater discharge per day	Maximum absorption capacity in liters per square meter of irrigation/leaching area for a 24-hour period
<i>Coarse sand or gravel</i>	20	5.0	0.005	203.7
<i>Fine sand</i>	25	4.0	0.006	162.9
<i>Sandy loam</i>	40	2.5	0.010	101.8
<i>Sandy clay</i>	60	1.7	0.015	69.2
<i>Clay with considerable sand or gravel</i>	90	1.1	0.022	44.8
<i>Clay with small amounts of sand or gravel</i>	120	0.8	0.030	32.6

Table 16A-3 Subsurface Drip Design Criteria of Six Typical Soils

Type of Soil	Maximum emitter discharge (gal/day)	Minimum number of emitters per gpd of graywater production
1.Sand	1.8	0.6
2.Sandy loam	1.4	0.7
3.Loam	1.2	0.9
4.Clay loam	0.9	1.1
5.Silty clay	0.6	1.6
6.Clay	0.5	2.0

Use the daily graywater flow calculated in Section 1606A.0 to determine the number of emitters per line.

1612A.1 Indoor Use of Treated Graywater.

Graywater shall not be allowed for indoor use, such as flushing toilets and urinals, unless treated by an on-site water treatment system approved by the Enforcing Agency. For the purposes of this section, graywater treated by an on-site water treatment system shall be considered "Treated Graywater". Treated graywater and treated graywater systems shall comply with the provisions of this code except as otherwise provided in this chapter and all of the following:

- (1) The treated graywater shall have a separate tank sized to minimize the length of time it is retained.
- (2) A maintenance and operation manual for the treatment system shall be kept at the location of the system.
- (3) Treated graywater intended for use indoors shall meet the California Department of Public Health statewide uniform criteria for disinfected tertiary recycled water as provided in California Code of Regulations, Title 22 Section 60301.230.
- (4) The treated graywater system shall be installed, inspected and tested as specified for reclaimed water systems in Sections 1618.0 and 1620.0.

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17921, 17922 and 19990.

Reference: Health and Safety Code Sections 17922.12 and 18941.7.

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

To: Honorable President and Members of the Board of Directors
From: Christy J. Scott
Subject: Discussion of the Water Conservation Alert System

March 18, 2014

BACKGROUND:

On Friday, January 17th, Governor Brown declared a statewide drought emergency and asked all Californians to reduce their water use by 20 percent. On Tuesday, January 21st, the FMWD agencies met and discussed the current water conservation alert status. At their Tuesday, January 21st Board meetings, the CVWD and FMWD Board of Directors approved to move their respective districts' alert status from "Blue Alert" to "Green Alert" status.

The District is currently operating in Color Code "Green", which is the Increased Voluntary Conservation Alert. For your review, the water conservation alert stages are attached.

UPDATE:

At the end of January, the State Water Project Allocation was reduced to "0", the first time in its 54-year history. The 'zero allotment' policy will be reevaluated on a month-to-month basis and the amount of available water could be increased with additional rain and snow.

Metropolitan Water District of Southern California (MWD) and Southern California agencies and businesses have accomplished substantial savings through conservation with an estimated 900,000 acre feet of water conserved over the past 20 years, enough water for 1.8 million families for an entire year. That coupled with the \$10 billion dollars in regional capital projects such as Diamond Valley Lake and local reliability projects such as the Ground Water Replenishment System places Southern California in a better position than other areas of the state. Still, MWD will be drawing reserves from groundwater banks in the San Joaquin Valley, fallowing farmland in the Palo Verde Valley, and drawing from local reservoirs such as Diamond Valley Lake. This year MWD expects to withdraw 1 million acre feet out of its available 2.4 million acre feet of storage.

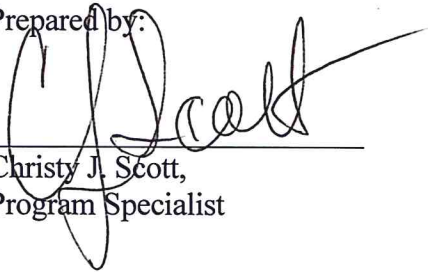
On Tuesday, March 4th, 2014 the Quad Cities Conservation Group, since renamed the Water Efficiency Team (WET), met in Glendale. Representatives from Glendale Water and Power, Burbank Water and Power, CVWD, Foothill Municipal Water District, Pasadena Water and Power, and the City of South Pasadena were in attendance. The group discussed unified messaging, classes, and advertisement campaigns. All of the attendees are currently in voluntary conservation. None of the attendees felt that their respective governing bodies would be leaning towards mandatory conservation until such time that MWD invokes an allocation or the Governor calls for mandatory conservation.

MWD has informed member agencies that it will not consider an allocation until April of 2015 unless the Governor calls for mandatory conservation.

Conclusion:

Staff will continue to assess the District's overall water supply picture and which level of conservation alert is necessary. The WET group will meet again in April, after the review date for the State Water Project Allocation, to discuss each agency's decisions regarding conservation planning and messaging. Should the Governor declare mandatory conservation and MWD impose an allocation, the District will move to "Orange Alert" upon the approval of the General Manager, as stated in the adopted in the Policy. It should be noted that following the substantial decrease in water sales during the last MWD allocation, the Board changed the water conservation alert status "Orange Alert" to allow for watering 3-days per week instead of 2-Days per week as it was originally written.

Prepared by:


Christy J. Scott,
Program Specialist

Submitted by:


Dennis Erdman
General Manager

BE IT FURTHER RESOLVED, Crescenta Valley Water District urges the following water usage to all of its customers:

1. To reduce the amount of turf and install new drought tolerant landscaping, low-water using trees and plants, and efficient irrigation systems including but not limited to ET controllers, drip irrigation, and “high efficiency sprinkler heads”.
2. To wash only full loads of dishes or clothes in automatic washers, and do not allow indoor faucets to run continuously.
3. To turn water system off when leaving property unoccupied for an extended period of time.
4. To use covers to minimize the evaporation of water from outdoor swimming pools, wading pools or spas when they are not in use.

WATER CONSERVATION ALERT SYSTEM

When a water conservation alert system is implemented by direction of the General Manager, the following measures to reduce water consumption will be required for all water users within CVWD.

- a. Color Code **“Blue”** is defined as the Normal Water Conservation Alert, Foothill Municipal Water District can meet all Member Agency demands. Standard water conservation applies as defined in Appendix G of the Rules and Regulations.
- b. Color Code **“Green”** is defined as an Increased Voluntary Conservation Alert, some supplies have been impacted and customers should increase efforts to conserve by following strict water conservation practices indoors and limiting outdoor water use to odd or even days, based on ending number of customer address.
- c. Color Code **“Yellow”** is defined as an Extraordinary Conservation Alert, when Metropolitan Water District of Southern California is pulling water from most of its storage programs to meet demands. Extraordinary conservation is called for from customers. Customers are requested to minimize indoor water use and water outdoors no more than three (3) days per week. Outdoor irrigation will be permitted only on Tuesday, Thursday, and Saturday.
- d. Color Code **“Orange”** is defined as a Rationing Conservation Alert, when Metropolitan Water District of Southern California has implemented its allocation plan to its member agencies. Customers are requested to minimize indoor water use and severely limit outdoor water use as follows:
 1. Residential and commercial landscape irrigation is limited to no more than two (2) days per week. Outdoor irrigation will be permitted only on Tuesday and Saturday. Watering limits are seven (7) minutes per watering station.

Exemption: Public use areas owned and/or operated by School Districts are exempt from watering days, and public use areas greater than 4,000 square feet are exempt from watering days so long as best management practices are applied by all.
 2. The filling, refilling or adding of water to indoor and outdoor pools, wading pools, or spas is prohibited. Exemptions: Commercial Repairs mandated by the Federal Virginia Graeme Baker Act, or adding water for the prevention of equipment failure is permissible, however, the District strongly urges that a cover be used to prevent evaporation and thereby reducing the frequency of refilling.
 3. The use of water to clean, maintain, fill, or refill decorative fountains or similar structures is prohibited. Exemptions: Adding water for the prevention of equipment failure is permissible.

4. Vehicle washing is restricted to the use of a hand-held bucket and quick rinses using a hose with a positive shut-off nozzle.
 5. Fix leaks within 48 hours.
- e. Color Code **"Red"** is defined as a Critical Water Conservation Alert, when water supplies are only available for health and safety needs. Customers are required to minimize indoor water use and curtail all outdoor water use. Fix any leaks within 24 hours.

Notification of the Water Conservation Alert System status on any given day shall be visibly posted at the exterior of the District's Administration Office (2700 Foothill Blvd., La Crescenta) and other accessible locations throughout the District service area where allowed. At least one direct mailing shall be made to all water customer accounts, with notification and explanation of the alert system. Newspaper coverage will also be used to disseminate alert system status and water conservation updates.

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

Minutes for the
Meeting of the Policy Committee
of the Crescenta Valley Water District
held on Tuesday, March 4th 2014 at 10:00 a.m.

DATE: March 12, 2014
TO: Policy Committee Meeting File
FROM: Christy J. Scott, Program Specialist

Following is a summary of the Policy Committee Meeting held at 10:00 am on March 4th, 2014 at the CVWD main office, and was attended by the following:

Director Kathy Ross - Committee Chairperson	CVWD
Director Judy Tejeda - Committee Member	CVWD
Dennis Erdman – General Manager	CVWD
Ron Mitchell – Secretary -Treasurer	CVWD
Christy Scott – Program Specialist	CVWD

For this meeting, the committee members were provided with letters from two residents in the Cloud Avenue area regarding a policy on cell phone towers. Those letters are attached.

1. Discussion regarding a policy on cell phone towers in the District

Staff presented committee members with letters addressing the request of residents from the Cloud Avenue area for the CVWD Board to adopt a policy that the District will not consider any future cell phone towers proposals on its properties in residential areas.

The public present addressed the committee on their concerns of cell phone towers in residential areas and also the communication of the proposed AT&T project in general. Discussion followed outlining the residents feelings that they were not informed by the District and that the notification performed by the County was inadequate and came too late in the process. Staff informed the public that the District did inform the town council of the proposed project and location at the very beginning of the process.

Staff and Committee members discussed ideas of language for a policy to be brought to the Board that would included a minimum distance of 500 feet from residential areas of any cell tower located on District property, and a notification practice at the beginning of the process that would include a large sign at the proposed location and a direct mailing to any resident within 1,000 feet of a proposed cell tower location.

Adjourned: 11:20 a.m.

Christy Scott

From: Karin Kim [karinkim.esq@gmail.com]
Sent: Wednesday, February 26, 2014 11:56 AM
To: Christy Scott
Cc: Scott and Marilyn Tyler; Richard Lyans; Rick Whitlow; Carol or Peter Schaller; Benjamin Kim
Subject: Policy Committee Meeting 3/4/14 (COMMENT)

Dear Christy:

Below is a comment we would like the Policy Committee members to consider during the upcoming meeting on March 4, 2014, at 10:00 a.m.

We will have several members of our community present at the meeting. If you could distribute the agenda when it is ready to everyone copied on this email, we would greatly appreciate it.

Thank you, Christy.

Best regards,

Karin

Dear Ms. Ross and Ms. Tejada:

We, the neighbors and customers of the Crescenta Valley Water District (CVWD), respectfully request that the Policy Committee consider the following policy for adoption by the CVWD:

The CVWD will not consider any further inquiries or applications for the placement of a cell tower at its property at 5041 Cloud Avenue, La Crescenta 91214.

Our community invested a great amount of time and energy to oppose the construction of the proposed AT&T cell tower on the Cloud Avenue property. The overwhelming majority of residents opposed the proposed cell tower at this site. This particular property is surrounded by single-family homes and is located in a neighborhood that is prone to high winds and susceptible to fires. The potential financial impact and health and safety concerns are detrimental and severe. This is true for those of us living in the neighborhood, as well as for the CVWD, who could be held legally liable for any losses and/or health and safety issues that may arise. After hearing the opposition from neighbors, AT&T quickly withdrew its application.

Based on the points raised during the various public meetings regarding this issue, the zoning restrictions placed on this property, the developing medical research linking living in close proximity to cell towers to medical conditions such as cancer, the potential liability

the CVWD may incur, and the strong public opposition to the construction of a cell tower on this property, the CVWD should adopt a policy going forward that it will not consider any other cell tower proposals on this property. Without adopting this policy, the efforts of the community and the results of opposing AT&T'S application will be short-lived. We would like to know that the CVWD considered this issue, listened to the public outcry against a cell tower at this property, and took positive action to assure its customers and neighbors that no future cell towers at this property will be considered.

Sincerely,

Karin Kim (on behalf of myself and the neighbors surrounding 5041 Cloud Ave., La Crescenta)

DATE: March 4, 2014
TO: CVWD Policy Committee
CVWD Board of Directors
FROM: Marilyn Imura Tyler
A Concerned Resident of La Crescenta
SUBJ: Adopting A Policy On Cell Phone Towers in the District

I would like the Crescenta Valley Water District to adopt a policy that goes further than resident Karin Kim's suggested policy. I would like the Crescenta Valley Water District to adopt a policy that it will NOT permit the construction of cell towers on ANY of its properties. I believe this is the correct policy for Crescenta Valley Water District for several reasons. First, the mission of the Crescenta Valley Water District is to provide "high quality water and wastewater services." The mission statement says nothing about providing adequate cellphone coverage to the community---let's leave it that way.

Second, whenever the Crescenta Valley Water District considers placing a cell tower on one of its properties, the resulting uproar jeopardizes the positive relationship that CVWD has with the community.

You have two examples of this. The current example of the proposed AT&T cell tower on your Cloud Ave. property.

The earlier example from 2006 when CVWD entered negotiations with T-Mobile on a proposed cell tower near Shields Reservoir in La Crescenta. According to the Glendale News-Press, after a FIVE HOUR CVWD board meeting where residents asked questions and expressed their concerns, the water district board of directors decided to cease negotiations with T-Mobile.

Negotiations ceased because, in the words of Kathy Ross, CVWD board president at the time, "...the Board members did not feel that the business case for leasing the reservoir site to T-Mobile warranted going forward with something that could harm our positive relationship with our community given the controversy over cell phone towers in La Crescenta."

THE BUSINESS CASE FOR LEASING THE RESERVOIR SITE DID NOT WARRANT GOING FORWARD WITH SOMETHING THAT COULD HARM OUR POSITIVE RELATIONSHIP WITH OUR COMMUNITY GIVEN THE CONTROVERSY OVER CELL PHONE TOWERS IN LA CRESCENTA.

The "controversy over cell phone towers in La Crescenta" has not gone away. It was there in 2006, it is there right now, in 2014. How many more examples do you need? Please do not continue to jeopardize your relationship with the community. Please do not get into the business of being concerned with cell phone coverage. Please adopt a policy of NO CELL TOWERS ON ANY CVWD PROPERTY.