

BOARD OF DIRECTORS SAN LORENZO VALLEY WATER DISTRICT AGENDA October 1, 2015

MISSION STATEMENT: Our Mission is to provide our customers and future generations with reliable, safe and high quality water at an equitable price; to create and maintain outstanding service and community relations; to manage and protect the environmental health of the aquifers and watersheds; and to ensure the fiscal vitality of the San Lorenzo Valley Water District.

Notice is hereby given that a regular meeting of the Board of Directors of the San Lorenzo Valley Water District will be held on **Thursday, October 1, 2015 at 6:00 p.m.,** at the Operations Building, 13057 Highway 9, Boulder Creek, California.

In compliance with the requirements of Title II of the American Disabilities Act of 1990, the San Lorenzo Valley Water District requests that any person in need of any type of special equipment, assistance or accommodation(s) in order to communicate at the District's Public Meeting can contact the District Secretary's Office at (831) 430-4636 a minimum of 72 hours prior to the scheduled meeting.

Agenda documents, including materials related to an item on this agenda submitted to the Board of Directors after distribution of the agenda packet, are available for public inspection and may be reviewed at the office of the District Secretary, 13060 Highway 9, Boulder Creek, CA 95006 during normal business hours. Such documents are also available on the District website at <u>www.slvwd.com</u> subject to staff's ability to post the documents before the meeting.

- 1. Convene Meeting/Roll Call
- 2. Additions and Deletions to Agenda:

Additions to the Agenda, if any, may only be made in accordance with California Government Code Section 54954.2 (Ralph M. Brown Act) which includes, but is not limited to, additions for which the need to take action is declared to have arisen after the agenda was posted, as determined by a two-thirds vote of the Board of Directors (or if less than two-thirds of the members are present, a unanimous vote of those members present).

3. Adjournment to Closed Session:

At any time during the regular session, the Board may adjourn to Closed Session in compliance with, and as authorized by, California Government Code Section 54956.9 and Brown Act, Government Code Section 54950. Members of the public will be given the opportunity to address any scheduled item prior to adjourning to closed session.

 a. CONFERENCE WITH LEGAL COUNSEL-EXISTING LITIGATION Government Code Section 54956.9(d)(1) Case Number CV180394(a)-Bruce Holloway, Plaintiff, v. Terry Vierra; San Lorenzo Valley Water District; Showcase Realty Agents, Inc.; Gregory Dildine; Edwige Dildine; and Does 1 to 25, Defendants.

- b. CONFERENCE WITH LEGAL COUNSEL-ANTICIPATED LITIGATION Initiation of litigation pursuant to paragraph (4) of subdivision (d) of Government Code Section 54956.9 One potential case
- 4. Reconvene to Open Session at 7:00 p.m. (time-certain).
- 5. Report Actions Taken in Closed Session.
- 6. Minutes:
 - Minutes of Board of Directors Meeting of September 17, 2015 Consideration and possible action by the Board to approve minutes for the September 17, 2015 Board of Directors meeting.
- 7. Oral Communications:

This portion of the agenda is reserved for Oral Communications by the public for items which are not on the Agenda. Any person may address the Board of Directors at this time, on any subject that lies within the jurisdiction of the District. Normally, presentations must not exceed three (3) minutes in length, and individuals may only speak once during Oral Communications. No actions may be taken by the Board of Directors on any Oral Communications presented; however, the Board of Directors may request that the matter be placed on a future agenda. Please state your name and town/city of residence at the beginning of your statement for the record.

- 8. Written Communications: None
- 9. Consent Agenda: None
- 10. Unfinished Business:

Members of the public will be given the opportunity to address each scheduled item prior to Board action. The Chairperson of the Board may establish a time limit for members of the public to address the Board on agendum.

- a. INTERIM FUNDING AGREEMENT Discussion by the Board regarding Interim Funding.
- DISTRICT RESERVE POLICY Consideration and possible action by the Board regarding the District Reserve Policy.
- 11. New Business:

Members of the public will be given the opportunity to address each scheduled item prior to Board action. The Chairperson of the Board may establish a time limit for members of the public to address the Board on agendum.

- a. BILL LIST FOR PERIOD ENDING OCTOBER 1, 2015 Consideration and possible action by the Board to approve the Bill List Period ending October 1, 2015.
- b. ASSOCIATION OF CALIFORNIA WATER AGENCIES EVENTS Consideration and possible action by the Board regarding ACWA Events.
- 12. District Manager Reports: Information reports by the District Manager, Staff, Committee and Board of Directors.
 - a. MANAGER
 - Department Status Reports Receipt and consideration by the Board of Department Status Reports regarding ongoing projects and other activities.
 - (i) Admin/Engineering
 - (ii) Environmental None
 - b. COMMITTEE/DIRECTOR REPORTS:
 - (1) Finance Committee Minutes for 9.15.15-Oral Report
- 13. Informational Material:
 - a. SLV WATER DISTRICT FIXES UNDERGROUND LEAKS Press Banner 9.18.15
 - b. THE DAYS OF CHEAP WATER ARE OVER The Guardian.com
 - c. DRINKING WATER SYSTEMS IMPERILED AP 9.28.15
- 14. Adjournment

Certification of Posting

I hereby certify that on September 24, 2015 I posted a copy of the foregoing agenda in the outside display case at the District Office, 13060 Highway 9, Boulder Creek, California, said time being at least 72 hours in advance of the meeting of the Board of Directors of the San Lorenzo Valley Water District (Government Code Section 54954.2).

Executed at Boulder Creek, California on September 24, 2015

Holly B. Morrison, District Secretary San Lorenzo Valley

SAN LORENZO VALLEY WATER DISTRICT BOARD MEETING MINUTES September 17, 2015 6:00 p.m.

CONVENE MEETING/ROLL CALL:

President Bruce convened the meeting at 6:00 p.m.

Roll call showed Dirs. Baughman, Ratcliffe, Brown and Hammer were present. District Manager Lee, Director of Operations Rogers, and Legal Counsel Hynes were also present.

ADJOURNMENT TO CLOSED SESSION:

President Bruce adjourned to closed session at 6:02 p.m.

RECONVENE TO OPEN SESSION:

Pres. Bruce reconvened the meeting to open session at 7:00 p.m. and read the SLVWD Mission Statement.

Roll call showed President Bruce, Dirs. Baughman, Brown, Hammer and Ratcliffe were present. District Manager Lee, Director of Operations Rogers and Legal Counsel Hynes were also present.

REPORT ACTIONS TAKEN IN CLOSED SESSION:

President Bruce announced no reportable actions.

ADDITIONS AND DELETIONS TO AGENDA:

District Manager Lee noted that item 11e was added to the agenda on Monday, September 14, 2015.

MINUTES:

Director Brown made a motion to approve the minutes of the September 3, 2015.

ROLL CALL:

Ayes:	Hammer, Ratcliffe, Bruce, Baughman, Brown
Noes:	None
Abstain:	None
Absent:	None

ORAL COMMUNICATIONS:

Charlene DeBert, Boulder Creek, said that today is the 3rd anniversary of Rick Rogers coming to her property and being asked to leave. Ten days later he came back with the sheriff and had her arrested.

Bruce Holloway, Boulder Creek, reminded the Board that at a BoD meeting in February they agreed to revisit bi-monthly billing in September or October. He also asked if there is going to be billing in tenths of a unit.

WRITTEN COMMUNICATION: None

CONSENT AGENDA:

Director Ratcliffe made a motion to approve the Consent Agenda.

ROLL CALL:

Ayes:	Hammer, Bruce, Brown, Baughman, Ratcliffe
Noes:	None
Abstain:	None
Absent:	None

UNFINISHED BUSINESS:

ASSOCIATION OF CALIFORNIA WATER AGENCIES-REGION 5 BOARD ELECTION

President Bruce noted that this item was previously brought before the Board.

District Manager Lee pointed out that there is a local individual named on the Board.

Director Baughman said that he won't vote for the slate for philosophical reasons.

President Bruce agreed that the process could be improved by including information and platforms of the individuals running for the Board.

Director Ratcliffe said that this is an advocacy organization. The individuals are not necessarily experts on "water", they are good at meetings and legislation. She likes the regional variation.

Director Hammer said that he thinks we must vote. ACWA sees the value in these people and that's enough for him.

Director Brown agreed that the Board must vote.

Director Ratcliffe said that she would like more information in the future.

Director Hammer made a motion to vote for the slate as recommended by the ACWA nominating committee.

ROLL CALL:

Ayes:	Ratcliffe, Bruce, Brown, Baughman, Hammer
Noes:	None
Abstain:	None
Absent:	None

NEW BUSINESS:

BILL LIST FOR PERIOD ENDING SEPTEMBER 17, 2015

Director Brown questioned the TPB Investment check for \$354,877.

President Bruce questioned the \$39,798 amount for PG&E.

Bruce Holloway, Boulder Creek, said that he knows what the TPB Investment check is a semi-annual check due March 1st and September 1st.

Director Brown made a motion to accept the Bill List for September 17, 2015.

ROLL CALL:

Ayes:	Hammer, Bruce, Baughman, Ratcliffe, Brown
Noes:	None
Abstain:	None
Absent:	None

LEAK DETECTION- FINAL REPORT

Director of Operations Rogers explained the Leak Detection process and final report.

President Bruce said that she thinks this a very good program. If we are going to ask our customers to conserve, we should do the same.

Mr. Rogers added that this is also a water quality issue.

Director Hammer requested that staff estimate the cost of staff time and materials for this project.

Director Brown said that this program is a blueprint for pipeline replacement.

Director Baughman said that it is very cost effective. He questioned if this will it be done again in three years for the whole system.

Mr. Rogers said that he was surprised that very few leaks were found in Felton.

President Bruce requested that staff research the fiscal impact of the entire project and fiscal savings.

Bruce Holloway, Boulder Creek, said that this is a terrific program and Dir. of Ops Rogers deserves all of the credit.

John Fasolas, Felton, said that he was curious about a smaller leak detection program in some of the areas where more leaks are found.

Director Hammer made a motion to accept the Leak Detection Final Report.

ROLL CALL:

Ayes:	Ratcliffe, Bruce, Brown, Baughman, Hammer
Noes:	None
Abstain:	None
Absent:	None

RESOLUTION OF APPRECIATION FOR SOQUEL CREEK WATER DISTRICT

District Manager Lee described the appreciation of the comfortable chairs and tables.

Director Ratcliffe said that the most important difference the furniture makes is the fact that the Board can see each other.

Director Hammer made a motion to approve the Resolution of Appreciation for Soquel Creek Water District.

ROLL CALL:

Ayes:	Ratcliffe, Bruce, Brown, Baughman, Hammer
Noes:	None
Abstain:	None
Absent:	None

PIPELINE CONSTRUCTION CREW

Dist. Mgr. described a recent project where SLVWD crew was able to complete a pipeline project for \$80/lineal ft. A recent contracted crew cost \$125/lineal ft. The District is looking at the logistics of hiring a crew to lay pipe. It would be part of the CIP project and all of the costs would be capitalized to putting pipe in the ground.

President Bruce noted that fiscal impact was discussed but she would like to know the fiscal benefit.

Dir. Brown questioned if the District can do this on a temporary basis?

Dist. Mgr. Lee said that would be a contractor.

Dir. Baughman questioned if we can mesh this with the likely crew we will need for Lompico.

Dist. Mgr. Lee said that this will be in addition to the Lompico staff needed. This is for replacing pipeline only.

Dir. Brown questioned if grants will be available.

Dir. Hammer said that the District has let the system disintegrate. We need to do a cost of service study and a Prop 218 process to raise money to rebuild this system. The price of cheap water is a faulty system and we can't continue to cut costs.

Dir. Brown said that he would like to see this project quantified.

John Fasolas, Felton, said that he thinks this is a really good idea. The cost will come down with the establishment of a construction crew. He said that the government will be interested the fire protection component of this project.

Charlene DeBert, Boulder Creek, questioned how soon the hiring plan for this project will be.

Dist. Mgr. Lee said that there are several things that need to happen first; a staffing study, CIP Program in place, a cost of service study, a rate study, etc.

Pres. Bruce said that there will be a prudent and public process.

SHORT TERM CONSTRUCTION LOAN

Dist. Mgr. Lee said that the District is having some cash constraints due to construction projects. He and the Finance Manager have been looking into short term construction loans. Because we are a public agency there are restrictions to the kind of line of credit we are allowed; it can only be for one year, the interest rate is 4 - 41/2 percent. The District has been floating Scotts Valley's portion of the Intertie 2 construction costs. 25% of the project is the responsibility of the District, 25% is the responsibility of Scotts Valley and 50% is to be paid by the State. Scotts Valley W.D. and SLVWD have discussed preliminary terms of 1% for \$1 million for 1 year. But in case that does not go through he is asking the Board to approve a line of credit loan for up to \$1 million for up to 5% interest.

Dir. Brown noted that 5% is not the best rate, but if we need the money it has to be done.

Pres. Bruce noted that this is a line of credit, not cash.

Burce Holloway, Boulder Creek, said that he thought that 5% from a bank is high. He said he thinks that Santa Clara Valley Water District also has lots of money.

Dir. Baughman made a motion to approve a line of credit for \$1 million not to exceed 5% interest, and closing costs not exceed \$8,000 for a period not to exceed 1 year.

ROLL CALL: Ayes: Hammer, Ratcliffe, Bruce, Brown, Baughman Noes: None Abstain: None Absent: None

GENERAL MANAGER REPORTS:

District Manager Lee gave a brief explanation of the Finance Status Report.

Director of Operations Rogers shared highlights from the Operations Status Report.

COMMITTEE/DIRECTOR REPORTS:

Director Brown shared information from the 8.27.15 Finance Committee meeting.

President Bruce shared information from the 9.1.15 Facilities & Planning Committee meeting.

Director Ratcliffe shared information from the 9.8.15 Legislation Committee meeting.

ADJOURNMENT:

President Bruce adjourned the meeting at 8:56 p.m.

MEMO

To: Board of Directors

From: District Manager

- SUBJECT: DISCUSSION AND POSSIBLE ACTION REGARDING INTERIM FUNDING AGREEMENT
- DATE: OCTOBER 1, 2015

RECOMMENDATION

It is recommended that the Board of Directors receive information from staff and take action deemed necessary at tonight's meeting.

BACKGROUND

Due to the large dollar value of the Intertie projects (\$6M+) and the lag between issuing contractor checks and actually receiving Prop 50 reimbursement from the State, the District is faced with constrained cash flow for the next quarter. Staff began discussions with commercial banks on obtaining a bridge-loan to ensure cash on hand was sufficient to cover monthly expenses until the State Prop 50 reimbursement money is received.

While discussing the situation with our project partner, Scott's Valley Water District, their staff discussed the possibility of providing the interim funding through their existing reserves. On September 17 the Board authorized staff to finalize an interim funding agreement with Scotts Valley Water District.

A staff update will be provided at tonight's meeting.

STRATEGIC PLAN:

Element 5.0 - Fiscal Planning Element 7.0 - Strategic Partners

FISCAL IMPACT:

To be determined

MEMO

To: Board of Directors

From: District Manager

- SUBJECT: DISCUSSION AND POSSIBLE ACTION REGARDING DRAFT DISTRICT RESERVE POLICY
- DATE: OCTOBER 1, 2015

RECOMMENDATION

It is recommended that the Board of Directors review the attached draft Reserve Policy and take action as the Board deems appropriate.

BACKGROUND

At its regularly scheduled September 15, 2015 meeting the Finance Committee reviewed and recommended the attached draft reserve policy be moved to the full Board for consideration.

STRATEGIC PLAN:

Element 5.5 - Annual Review of Reserve Fund Policy

FISCAL IMPACT:

None

THE DISTRICT RESERVE FUND POLICY

Purpose of Reserve Policy

Adequate designations of reserve funds set aside for various legitimate purposes are critical to the successful and stable, short and long-term operation of the San Lorenzo Valley Water District (the "District").

Adequate reserves for the District operations ensure that customers experience both stable rates for service and the security that the District can respond to emergencies, especially regarding water and wastewater quality issues. Adequate reserves ensure that the District will at all times have sufficient funding available to meet its operating, capital and debt service cost obligations, together with future debt or capital obligations, as well as any unfunded mandates, including costly regulatory requirements.

The District manages its working capital in a manner that allows the District to fund costs consistent with its annually updated capital improvement program and budgeted financial plan, and that avoids significant rate fluctuations due to changes in cash flow requirements. The ability of the District to maintain reserve funds is a critical factor in providing reliable service, mitigating rate increases, and ensuring overall financial strength.

Annually, during the budget adoption process, the District Board should review and approve the appropriate levels and uses for reserve funds based upon the needs of the District.

This Reserve Fund Policy (the "Policy") was developed to clearly identify specific designated reserves and reserve funds. It is the intent of this Policy to clearly identify both reserve fund categories and purposes, and set target levels for reserves that are consistent with the District's mission statement, the uniqueness of the District, and the philosophy of the District's Board.

Fund Balance Classifications

The Governmental Accounting Standards Board (GASB) issued GASB Statement Number 54 (Statement 54), Fund Balance Reporting and Governmental Fund Type Definitions in February 2009. Statement 54 abandons the reserved and unreserved classifications of fund balance and replaces them with five new classifications: nonspendable, restricted, committed, assigned and unassigned.

<u>Nonspendable</u> – consists of assets that are inherently nonspendable in the current period either because of their form or because they must be maintained intact, including prepaid items, inventories, long-term portions of loans receivable, financial assets held for resale, and principal of endowments.

<u>Restricted</u> – consists of amounts that are subject to externally enforceable legal purpose restrictions imposed by creditors, grantors, contributors, or laws and regulations of other governments; or through constitutional provisions or enabling legislation.

1

<u>Committed</u> – consists of amounts that are subject to a purpose constraint imposed by a formal action of the government's highest level of decision-making authority before the end of the fiscal year, and that require the same level of formal action to remove the constraint.

<u>Assigned</u> – consists of amounts that are subject to a purpose constraint that represents an intended use established by the government's highest level of decision-making authority, or by their designated body or official. The purpose of the assignment must be narrower than the purpose of the general fund, and in funds other than the general fund, assigned fund balance represents the residual amount of fund balance.

<u>Unassigned</u> – represents the residual classification for the government's general fund, and could report a surplus or deficit. In funds other than the general fund, the unassigned classification should be used only to report a deficit balance resulting from overspending for specific purposes for which amounts had been restricted, committed, or assigned.

Designated Reserve Funds

Restricted - Debt Service Reserve Fund

The District requires that this fund be maintained at a level sufficient to fund any current debt covenant requirements. Whether funds are held by the debt trustee during the term of the debts or if it is held internally. These are to be used in the event that the District is unable to meet its required semi-annual debt service obligation. Debt covenant requirements will be updated on an as needed basis for any new or retired obligations.

Committed - Capital Reserve Fund

This fund pays for the replacement of existing facilities and equipment as it reaches the end of its useful life or for major repairs that extend the useful life of facilities. This fund will also cover any emergency repairs to insure a timely response by the District to natural disasters and/or other emergencies. This insures timely acquisition, replacement and upgrade of the District's water system infrastructure and capital assets.

Expenditures from this reserve fund which are subsequently recovered, either partially or fully, from FEMA, OES, insurance and/or any other sources, said revenue shall be utilized solely for the purpose of refunding the Capital Reserve Fund.

The fund level for the Capital Reserve Fund is a target level equal to \$2,000,000, unless otherwise directed by the Board at a public meeting. If current funds are below the target level of \$2,000,000, the Board can designate a plan to replenish the fund.

Committed - Operational Reserve Fund

This fund is established to cover unexpected cash flow shortages, expense or losses. These might be caused by delayed payments, unexpected building repairs, or economic conditions. Reserves should not be used to make up for income shortfalls, unless the District has a plan to replace the income or reduce expenses in the near-term future, which would require Board desgination. In short, reserves should be used to solve timing problems, not deficit problems.

A commonly used reserve goal is 3-6 months' expenses. The fund level for the Operational Reserve Fund is a target level equal to \$1,500,000, unless otherwise directed by the Board at a public meeting. If current funds are below the target level of \$1,500,000, the Board can designate a plan to replenish the fund.

Assigned – none at this time

Nonspendable – none at this time

Unassigned – none at this time

Annual Review

The District Manager shall perform a review and analysis of each designated reserve funds for presentation to the Board at a public meeting upon the occurrence of the following:

Upon consideration by the Board of the annual budget.

Upon any significant change to and/or expenditure(s) from a designated reserve fund.

Upon determination that a fund balance is less than the established target level, without a near term replenishment plan.

As part of the annual review, a summary of the funds and fund level(s) shall be listed out, as well as the anticipated levels for that fiscal year.

Accounts Payable

Checks by Date - Summary by Check Date

User: Printed: StephanieHill 9/25/2015 2:52 PM



Agenda: 10.1.15 Item: 11a

13060 Highway 9 Boulder Creek, CA 95006-9119 (831) 338-2153 phone (831) 338-7986 fax

Check No	Vendor No	Vendor Name Check Date			Void Checks	Check Amount
10001	00362	ACCELA, INC #774375	09/18/2015		0.00	22,602.00
10002	00055	AT&T	09/18/2015		0.00	5,882.09
10003	00687	AT&T U-VERSE	09/18/2015		0.00	204.00
10004	00610	MAGGIORA BROS DRILLING	09/18/2015		0.00	1,290.00
10005	00409	PURCHASE POWER	09/18/2015		0.00	1,548.80
10006	00046	RED WING SHOE STORE	09/18/2015		0.00	180.24
			Total fo	or 9/18/2015:	0.00	31,707.13
10007	00545	AFLAC	09/24/2015		0.00	515.38
10008	00102	ANDY ROBUSTELLI	09/24/2015		0.00	120.00
10009	00309	AT&T IP SERVICES	09/24/2015		0.00	723.35
10010	09239	BANK OF AMERICA	09/24/2015		0.00	106.57
10011	01026	BANK OF THE WEST	09/24/2015		0.00	5,000.00
10012	00178	CALPERS	09/24/2015		0.00	37,724.17
10013	00363	CINCINNATI LIFE INSURANCE CO	09/24/2015		0.00	28.00
10014	00788	COMCAST	09/24/2015		0.00	133.92
10015	00350	HOWARD OLIPHANT	09/24/2015		0.00	112.96
10016	00367	INFOSEND, INC	09/24/2015		0.00	3,993.45
10017	00313	MET LIFE	09/24/2015		0.00	4,374.76
10018	00539	MILLER-MAXFIELD, INC	09/24/2015		0.00	3,062.50
10019	00183	SDRMA	09/24/2015		0.00	16,974.20
10020	00768	USA BLUEBOOK	09/24/2015		0.00	640.21
10021	00011	VERIZON WIRELESS	09/24/2015		0.00	369.90
10022	00589	ALLARD'S SEPTIC	09/24/2015	VOID	225.00	0.00
10023	00609	BALANCE HYDROLOGICS, INC	09/24/2015	VOID	13,601.45	0.00
10024	00220	BAY BUILDING JANITORIAL, INC	09/24/2015	VOID	424.42	0.00
10025	00808	CHAD HOESING, CPA, INC.	09/24/2015	VOID	38.00	0.00
10026	00265	COMMUNITY TELEVISION OF	09/24/2015	VOID	525.00	0.00
10027	00290	CONTRACTOR COMPLIANCE & MONI	09/24/2015	VOID	5,750.00	0.00
10028	00037	COUNTY OF SANTA CRUZ	09/24/2015	VOID	3,427.13	0.00
10029	00703	DATAFLOW BUSINESS SYSTEMS, INC	09/24/2015	VOID	255.00	0.00
10030	00343	ERNIE'S SERVICE CENTER	09/24/2015	VOID	588.13	0.00
10031	00450	EUROFINS EATON ANALYTICAL, INC	09/24/2015	VOID	895.00	0.00
10032	00329	GRAINGER	09/24/2015	VOID	307.66	0.00
10033	00080	GRANITE CONSTRUCTION CO	09/24/2015	VOID	106.00	0.00
10034	00756	KENNEDY/JENKS CONSULTANTS	09/24/2015	VOID	66,101.13	0.00
10035	00233	LADD'S AUTO BODY & TOWING	09/24/2015	VOID	300.00	0.00
10036	00608	LLOYD'S TIRE SERVICE, INC	09/24/2015	VOID	1,199.87	0.00
10037	00782	MONTEREY PENINSULA ENGINEERIN	09/24/2015	VOID	9,065.53	0.00
10038	00027	NORTH BAY FORD	09/24/2015	VOID	149.95	0.00
10039	00569	PITNEY BOWES GLOBAL FIN.LLC	09/24/2015	VOID	430.08	0.00
10040	10001	RUTAN AND TUCKER, LLP	09/24/2015	VOID	2,210.00	0.00
10041	00746	SCOTTS VALLEY BANNER	09/24/2015	VOID	83.00	0.00
10042	00973	SMITH-EMERY SAN FRANCISCO	09/24/2015	VOID	1,706.50	0.00
10043	00047	SOIL CONTROL LAB	09/24/2015	VOID	524.00	0.00
10044	00298	STATE OF CALIFORNIA	09/24/2015	VOID	75.00	0.00

AP Checks by Date - Summary by Check Date (9/25/2015 2:52 PM)

					Agenda: Ite	10.1.15 em: 11a
Check No	Vendor No	Vendor Name	Check Date		Void Checks	Check Amount
10045	00262	TREBCO HEATING & AIR COND.	09/24/2015	VOID	1,296.00	0.00
10046	00768	USA BLUEBOOK	09/24/2015	VOID	936.72	0.00
10047	00262	TREBCO HEATING & AIR COND.	09/24/2015		0.00	1,200.00
			Total for	9/24/2015:	110,220.57	75,079.37
			Report Total (4	17 checks):	110,220.57	106,786.50

Agenda: 10.1.15 Item: 11a

13060 Highway 9

(831) 338-2153 phone

(831) 338-7986 fax

Boulder Creek, CA 95006-9119

Accounts Payable

Outstanding Invoices

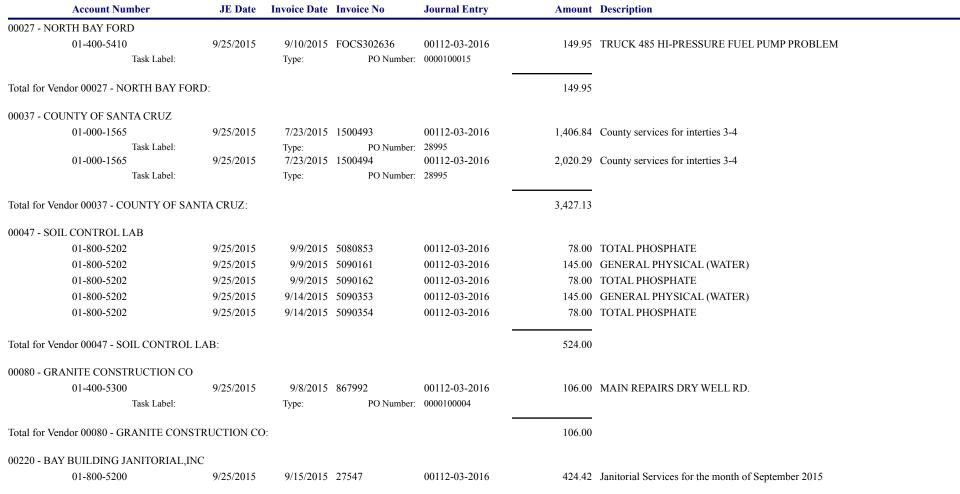
 User:
 StephanieHill

 Printed:
 9/25/2015 - 2:49 PM

 Date Type:
 JE Date

 Date Range:
 09/18/2015 to 09/25/2015

Vendor





AP-Outstanding Invoices (9/25/2015 - 2:49 PM)

							item: i ia
Vendor	Account Number	JE Date	Invoice Date	Invoice No	Journal Entry	Amount	Description
Total for Vend	dor 00220 - BAY BUILDING JAN	NITORIAL,IN	IC:			424.42	
00233 - LAD	D'S AUTO BODY & TOWING 01-400-5410 Task Label:	9/25/2015	9/9/2015 Type:		00112-03-2016 0000100007	300.00	TRUCK 485 - OVERHEAT/NO POWER
Total for Vend	dor 00233 - LADD'S AUTO BOD	Y & TOWIN	G:			300.00	
00262 - TREI	BCO HEATING & AIR COND. 01-100-5200	9/25/2015	9/9/2015	04-437	00112-03-2016	1,200.00	A/C PERMIT FOR ADMIN BLDG
Total for Vend	dor 00262 - TREBCO HEATING	& AIR CONI	D.:			1,200.00	
00265 - COM	IMUNITY TELEVISION OF 01-100-5200	9/25/2015	9/8/2015	2201	00112-03-2016	525.00	Regular meeting coverage on August 6, 2015 & August 20, 2015
Total for Vend	dor 00265 - COMMUNITY TELE	EVISION OF:				525.00	
00290 - CON	TRACTOR COMPLIANCE & M 01-000-1565	IONIT 9/25/2015	9/2/2015		00112-03-2016	2,000.00	Compliance monitoring/ intertie 6
	Task Label: 01-000-1565 Task Label:	9/25/2015	Туре: 9/2/2015 Туре:	PO Number: 6206 PO Number:	00112-03-2016	3,750.00	Compliance monitoring/ labor comp.
Total for Vend	dor 00290 - CONTRACTOR COM	MPLIANCE &	k MONIT:			5,750.00	
00298 - STAT	TE OF CALIFORNIA 01-000-2130	9/25/2015	8/21/2015	7032	00112-03-2016	75.00	FTB Withholding
Total for Vend	dor 00298 - STATE OF CALIFOR	RNIA:				75.00	
00329 - GRA	INGER 01-400-5171 Task Label:	9/25/2015	8/31/2015 Type:	9831503462 PO Number:	00112-03-2016 28986	284.21	Ear Plugs
Total for Vend	dor 00329 - GRAINGER:					284.21	
00343 - ERN	IE'S SERVICE CENTER 01-800-5410 Task Label:	9/25/2015	9/10/2015 Type:	PO Number:			Truck 280 Service
	01-400-5410 Task Label:	9/25/2015	9/17/2015 Type:		00112-03-2016 0000100012	60.84	TRUCK 181- VEHICLE SERVICE

Agenda: 10.1.15 Item: 11a

Vendor								item: Tra
· chuơi	Account Number	JE Date	Invoice Date	Invoice No	Journal Entry	Amount	Description	
Total for Ve	ndor 00343 - ERNIE'S SERVIC	E CENTER:				549.07		
00450 - EU	ROFINS EATON ANALYTICA	L, INC						
	01-800-5202	9/25/2015	9/14/2015	L0232015	00112-03-2016	815.00	Manana Woods Well #1	
	01-800-5202	9/25/2015	9/14/2015	L0232040	00112-03-2016	80.00	Paso 5,6 Wells, Bob's Lane	
fotal for Ve	ndor 00450 - EUROFINS EATO	ON ANALYTICA	AL, INC:			895.00		
)0569 - PIT	NEY BOWES GLOBAL FIN.L	LC						
	01-200-5200	9/25/2015	9/13/2015	1379819-SP15	00112-03-2016	430.08	MAIL MACHINE MAINTENANCE	
Fotal for Ve	ndor 00569 - PITNEY BOWES	GLOBAL FIN.	LLC:			430.08		
)0589 - AL	LARD'S SEPTIC							
	01-800-5200	9/25/2015	8/21/2015	7032	00112-03-2016	225.00	HOLDING TANK/HAUL AWAY	
Fotal for Ve	ndor 00589 - ALLARD'S SEPT	IC:				225.00		
00608 - LLO	OYD'S TIRE SERVICE, INC							
	01-800-5410	9/25/2015	9/16/2015	290747	00112-03-2016	1,110.99	TRUCK 280 TIRES AND ALLIGNMENT	
	Task Label:		Type:	PO Number:	0000100008			
Total for Ve	ndor 00608 - LLOYD'S TIRE S	ERVICE, INC:				1,110.99		
00609 - BA	LANCE HYDROLOGICS, INC	2						
	01-800-5200	9/25/2015	9/17/2015	215018-0815	00112-03-2016	13,601.45	Stream Gaging	
fotal for Ve	ndor 00609 - BALANCE HYD	ROLOGICS, IN	C:			13,601.45		
00703 - DA	TAFLOW BUSINESS SYSTEM	AS. INC						
, , , , , , , , , , , , , , , , , , ,	01-100-5200	9/25/2015	9/16/2015	164952	00112-03-2016	7.50	BIZHUB C451 COPIER- ADMIN FY 15/16	
	Task Label:		Type:	PO Number:	28809			
otal for Ve	ndor 00703 - DATAFLOW BUS	SINESS SYSTE	MS, INC:			7.50		
0746 - SC	OTTS VALLEY BANNER							
	01-100-5640	9/25/2015	9/11/2015	21899	00112-03-2016	83.00	ADVERTISING	
lotal for Ve	ndor 00746 - SCOTTS VALLE	Y BANNER:				83.00		
)0756 - KE	NNEDY/JENKS CONSULTAN	TS						
	01-000-1565	9/25/2015	8/27/2015	94951	00112-03-2016	5,470.39	INTERTIE #4 PROJECT	

AP-Outstanding Invoices (9/25/2015 - 2:49 PM)

Agenda: 10.1.15 Item: 11a

Vendor								item. Tra
venuor	Account Number	JE Date	Invoice Date	Invoice No	Journal Entry	Amount	Description	
00756 - KEN	NEDY/JENKS CONSULTANT	S			·			
	01-000-1565	9/25/2015	8/27/2015	94951	00112-03-2016	32,923.47	INTERTIE #3 PROJECT	
	01-000-1565	9/25/2015	8/27/2015	94951	00112-03-2016	27,707.27	INTERTIE #2 PROJECT	
Total for Ven	dor 00756 - KENNEDY/JENKS	CONSULTA	NTS:			66,101.13		
00768 - USA	BLUEBOOK							
	01-800-5300	9/25/2015	9/25/2015		00112-03-2016	406.80	CHLORINE PARTS- CHLORINE PUMP PARTS	
	Task Label:		Type:	PO Number:	0000100020			
	01-800-5300	9/25/2015	9/1/2015	740064	00112-03-2016	406.80	CHLORINE PARTS- FIELD CHLORINATORS	
	01-800-5300	9/25/2015	9/1/2015	740571	00112-03-2016	529.92	CHLORINE PARTS- FIELD CHLORINATORS	
	Task Label:		Туре:	PO Number:	0000100020			
Total for Ven	dor 00768 - USA BLUEBOOK:					1,343.52		
00782 - MON	NTEREY PENINSULA ENGINI	EERING						
	01-000-4150	9/25/2015	8/14/2015	08-27	00112-03-2016	9,065.53	WATER/FIRE CONNECTION	
Total for Ven	dor 00782 - MONTEREY PENI	NSULA ENG	INEERING:			9,065.53		
00808 - CHA	AD HOESING, CPA, INC.							
	01-200-5200	9/25/2015	9/15/2015	112695	00112-03-2016	38.00	Filing Fee Secretary of State	
Total for Ven	dor 00808 - CHAD HOESING,	CPA, INC.:				38.00		
00973 - SMI	TH-EMERY SAN FRANCISCO)						
	01-000-1565	9/25/2015	7/31/2015	690113-3	00112-03-2016	611.50	INTERTIE #3	
	01-000-1565	9/25/2015	8/28/2015	690113-4	00112-03-2016	1,095.00	INTERTIE #3	
Total for Ven	dor 00973 - SMITH-EMERY SA	AN FRANCIS	CO:			1,706.50		
10001 - RUT	AN AND TUCKER, LLP							
	01-100-5210	9/25/2015	9/11/2015	727154	00112-03-2016	2,210.00	EMINENT DOMAIN - FAIRVIEW AVE	
Total for Ven	dor 10001 - RUTAN AND TUC	KER, LLP:				2,210.00		
Report Total:						110,132.48		

MEMO

To: Board of Directors

From: District Manager

Prepared By: District Secretary

SUBJECT: ASSOCIATION OF CALIFORNIA WATER AGENCIES 2015 EVENTS

DATE: September 23, 2015

RECOMMENDATION

It is recommended that the Board of Directors review this memo and accompanied information regarding ACWA 2015 Events.

BACKGROUND

Joining ACWA in May 2015 has opened opportunities for interaction between the District and local, regional, statewide and national agencies through meetings, summits, conferences and exhibitions. Participation in ACWA sponsored events will further communication and education for the District.

STRATEGIC PLAN:

Element - 7.0 Strategic Partners

FISCAL IMPACT:

TBD



2015 ACWA REGULATORY SUMMIT AGENDA

OCTOBER 14, 2015 | DOUBLETREE HOTEL, ONTARIO

SUSTAINABLE GROUNDWATER MANAGEMENT ACT (SGMA): ONE YEAR LATER

TUESDAY, OCTOBER 13, 2015

5:30 – 6:30 PM Reception

WEDNESDAY, OCTOBER 14, 2015

8:00 – 9:00 AM Registration & Continental Breakfast

9:00 – 9:15 AM Welcome & Opening Remarks

Speaker:

Kathleen Tiegs, ACWA Vice President

9:15 – 10:15 AM GSA Formation – Mandated Coordination or Unintended Confusion?

The creation of Groundwater Sustainability Agencies (GSAs) out of existing local governments is proving to be a challenge. The potential regulation of groundwater pumping in certain basins in the state requires effectuation of new authorities from governing boards not accustomed to taking regulatory actions or assuming policing powers.

This panel will present some examples of how local agencies are trying to team up to comply with SGMA as well as discuss some of the many issues that continue to arise as local governments attempt to knit together a basin-wide GSA governance arrangement. During this informative session, topics including basin/jurisdictional boundary quandaries, sharing of SGMA authorities, stakeholder identification and roles, and other pertinent GSA questions will be addressed by the panel.

Moderator:

Paul Hendrix, General Manager, Tulare Irrigation District

Panelists:

Don Dorman, City Manager, City of Tulare

Valerie Kincaid, Partner, O'Laughlin & Paris LLP

Augustine Ramirez, Senior Engineer, Department of Public Works & Planning, Fresno County

Melanie Schumacher, Special Projects Manager, Soquel Creek Water District

10:15 – 11:30 AM Devil in the Details - The SGMA Emergency Regulations

How will SGMA regulations balance the overriding preference for local management with the need for a viable state backstop? The Department of Water Resources (DWR) writes the rules, local agencies put them into practice, and the State Water Resources Control Board (SWRCB) enforces compliance. Following a brief survey of the rulemaking process, the panel will provide perspective on the issues and challenges. Moderator:

John Woodling, Executive Director, Regional Water Authority

Panelists:

Eric Averett, General Manager, Rosedale-Rio Bravo Water Services District

Erik Ekdahl, Groundwater Management Program Manager, State Water Resources Control Board

Paul H. Gosselin, Director, Butte County Department of Water and Resource Conservation

Trevor Joseph, Supervising Engineering Geologist, California Department of Water Resources

Kate Williams, Program Manager, California Water Foundation

11:30 AM – Noon Networking with Exhibitors

Noon – 1:00 PM Luncheon Program

Groundwater Management: Where We Have Been and Where We Are Going

Keynote Speaker: David Orth, Commissioner, California Water Commission

1:15 – 2:15 PM Creating and Sharing Data for Groundwater Management

Managing groundwater as a shared resource will require collecting and sharing adequate data. Often, these are data that were previously considered proprietary or associated with a property right. This panel will outline types of data needed for groundwater management, discuss areas where data collection and sharing has been successfully implemented, and point out some of the concerns GSA's will need to address to develop data sharing agreements.

Moderator:

Thad Bettner, General Manager, Glenn-Colusa ID

Panelists:

Rich Juricich, Principal Water Resources Engineer, California Department of Water Resources

Brian Lockwood, Senior Water Resources Hydrologist, Pajaro Valley Water Management Agency

Eric Osterling, Manager of Water Resources, Kings River Conservation District

Derrik Williams, President, HydroMetrics WRI

AGENDA CONTINUED ON NEXT PAGE



2015 ACWA REGULATORY SUMMIT AGENDA

OCTOBER 14, 2015 | DOUBLETREE HOTEL, ONTARIO

SUSTAINABLE GROUNDWATER MANAGEMENT ACT (SGMA): ONE YEAR LATER

2:15 – 3:15 PM Coordinating Land Use Planning and Well Permitting Programs with SGMA Implementation

SGMA calls for coordination of groundwater and land use management activities while preserving the jurisdictional authorities of cities, counties and water agencies. As an example, counties will continue to administer well permitting programs unless they delegate that authority to GSAs or other recognized water management agencies. SGMA also calls for loose "coordination" with city and County General Plans. SGMA however does not provide details on how this coordination will occur. This panel will provide the perspectives of experts representing counties from different geographic regions of the state who are on the "front lines" in dealing with these issues. Panelists will describe their approaches to administering well permitting programs and other land use related challenges of implementing SGMA.

Moderator:

Kirby Brill, General Manager, Mojave Water Agency

Panelists:

Pete Parkinson, former Director of Permit Resource Management Department, Sonoma County and President-elect of California Chapter of the American Planning Association

Bob Page, Principle Management Analyst, San Bernardino County

3:15 – 3:30 PM Break

3:30 – 4:00 PM Legislative Roundup

In what ways will SGMA implementation be affected by new "clean up", "expedited adjudication" and other groundwater-related legislation? What are the remaining legislative uncertainties?

Speaker:

Eric Garner, Managing Partner, Best & Krieger LLP

4:00 – 4:30 PM Funding

The local costs to implement SGMA will be significant. What state funding sources will be available and for what purposes? What will be a process and timeline?

Speaker:

Trevor Joseph, Supervising Engineering Geologist, California Department of Water Resources

4:30 – 5:00 PM Identifying Key Challenges & Closing Remarks

Speaker:

Kathleen Tiegs, ACWA Vice President



This program is presented in cooperation with:









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ACWA's 2015 **REGULATORY**

Sustainable Groundwater Management Act (SGMA): ONE YEAR LATER

October 14, 2015 • Doubletree by Hilton Hotel, Ontario, CA

Join us for ACWA's 2015 Regulatory Summit on October 14 at the Doubletree by Hilton Hotel in Ontario, CA.

The summit will include programs on topics such as:

- GSA Formation Mandated Coordination or Unintended Confusion?
- SGMA Emergency Regulations
- Groundwater Management: Where We Have Been and Where We Are Going
- Creating and Sharing Data for Groundwater Management
- Coordinating Land Use Planning & Well Permitting Programs
 with SGMA Implementation
- Legislative Roundup
- Funding Proposition 1
- Identifying Key Challenges

JUST ADDED! Networking Reception on October 13 (5:30–6:30 PM) Full description of the sessions available at **www.acwa.com**.

Premier Event Sponsor Hydro



Questions? Please contact ACWA's Member Services & Events at events@acwa.com or 916.441.4545.

This program is presented in cooperation with:



ALL PROGRAMS ARE SUBJECT TO CHANGE WITHOUT MOTICE. PLEASE VISIT WWW.ACWA.COM FOR MORE INFORMATION.



REGISTRATION

Online registration available at **www.acwa.com**

Regular registration and cancellation deadline is **October 2, 2015**, 4:30 p.m. (PST).

Advantage Pricing Regular: \$250 Onsite: \$270

Standard Pricing Regular: \$375 Onsite: \$395

Program materials, continental breakfast and lunch are included.

To be eligible for "Advantage" Pricing you MUST be an ACWA Public Agency member, Associate or Affiliate.



HOTEL

Doubletree by Hilton Hotel Ontario Airport 222 North Vineyard Ave Ontario, CA 91764-4431

Phone: 909-418-4871

Group Rate: \$119/night + tax

The cut-off date to receive this special rate is **September 28, 2015**.

Make your reservations online at:

http://doubletree.hilton.com/en/dt/groups/ personalized/0/0NTO-DT-ACW-20151012/ index.jhtml?WT.mc_id=P0G

Group Code: ACW



EXHIBITORS

There will be an exhibit area during the summit. For more information, please contact Melanie Medina at MelanieM@acwa.com or call 916-441-4545.





ACWA 2015 Regulatory Summit

Agenda: 10.1.15 Item: 11b

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REGISTRATION FORM

Doubletree by Hilton Hotel, Ontario, CA

Register online @ acwa.com

Registration and cancellation deadline is October 2, 2015 • 4:30 p.m. (PST)

ATTENDEE INFORMATION

Last Name		
State	Zip	
Attendee E-mail		
	State	State Zip

CC E-mail (If registering on someone's behalf, include YOUR e-mail to receive a copy of the confirmation)

REGISTRATION FEE (Please select one)	REGULAR	ONSITE	AMOUNT
Advantage (ACWA public agency members, affiliates & associates ONLY)	\$250	\$270	
Standard (Applies to non-members of ACWA)	\$375	\$395	

Your registration fee includes a continental breakfast and lunch.

Total Due to ACWA

PAYMENT INFORMATION

Enclosed is check (<i>if available,</i> #) payable to Send payment to: ACWA, 910 K Street, Ste. 100 • 9 Please bill me		l me payment option, to rocess onsite, ACWA must eeks prior to the event.
Please charge my fee to my credit card: MC	Visa	
Charged Amount: \$		
Credit Card Number:		
Expiration Date: CSC# (last	t 3-digits on back of card):	
Billing Address for this card (if different from above)):	
Cardholder's Name:	Authorized Signature:	
Submit Registration: Register online at www.acwa.com or e-mail compl	leted form to TeresaT@acwa.com	
Questions? Contact us at 916.441.4545, toll free 888.666.2292, c	or e-mail events@acwa.com	

Registration terms and conditions available at acwa.com in the event section.

Agenda: 10.1.15 Item: 11b

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REGISTRATION TERMS & CONDITIONS

ACWA 2015 Regulatory Summit

Doubletree by Hilton Hotel, Ontario, CA

Register online @ acwa.com

Registration and cancellation deadline is October 2, 2015 • 4:30 p.m. (PST)

WHO IS ELIGIBLE FOR "ACWA ADVANTAGE" PRICING?

ACWA Advantage pricing is available to the following registrants:

- An officer or director of an ACWA member agency.
- A person directly employed by an ACWA public agency member, affiliate or associate organization. This does not include independent contractors, service providers, or third-party vendors.
- Any ACWA board member whose fee is paid for by member agency.
- Any state or federal administrative or legislative personnel in elected, appointed or staff positions.
- Staff of ACWA/JPIA and Water Education Foundation.
- Any individual or honorary life member of ACWA.

If you are interested in learning more about becoming an Associate Friend of ACWA, contact Jacob Rowe at jacobr@acwa.com. For public agency membership, please contact Tiffany Giammona at tiffanyg@acwa.com.

CANCELLATIONS & CHANGES

All registration changes and cancellations must be made in writing by the event registration deadline. Valid cancellation requests will receive a refund of any registration fees paid minus a \$50 processing charge. For payments originally made by credit card, refunds can be issued back onto the credit card within 60 days. Otherwise, a refund will be issued by check. No refunds or registration changes will be granted after the registration deadline. Submit request in writing to Teresa Taylor at teresat@acwa. com.

SUBSTITUTIONS

Event registrations are transferable from one participant to another within the same organization. Please submit your request in writing before the event registration deadline to Teresa Taylor at teresat@acwa.com. Include the original registrant's name, the new person's name, title and email address with your request. After the registration deadline, substitutions will be handled on-site. Only one substitution is permitted per original registrant. The individual submitting the substitution request is responsible for all financial obligations (including any balance due) associated with the original registration. There is no fee to transfer an eligible registration.

SPECIAL REQUESTS & ACCOMMODATIONS

Special requests must be submitted in writing to Teresa Taylor at teresat@acwa.com. Participants are encouraged to submit special requests as soon as possible.

If you have a disability that requires an accommodation, please contact Melanie Medina at melaniem@acwa.com or call toll free at (888) 666-2292 to discuss your needs.

REFUNDS

Except as otherwise provided in this document, all payments and fees are nonrefundable after the registration deadline.

NONATTENDANCE

Registrants who fail to attend the event, in part or in whole, are not eligible for a refund or credit and will be billed for any balance due.

ACWA Region 5 Fall Event - October 25 & 26, Buellton, CA

Sun, 10/25/2015 - Mon, 10/26/2015

Location: Buellton, CA

ACWA Region 5 Event The Lake Cachuma Project *Past, Present, Future* October 25 & 26, 2015 | Buellton, CA

ACWA Region 5 is hosting a program in Buellton that will focus on the Lake Cachuma Project, a major surface water supply in Santa Barbara County. The program will begin on **Sunday**, **October 25**, with a visit to Lake Cachuma and a first-hand look at the project operations that will include a boat tour (weather and lake levels permitting) to see the pumping barge and dam, followed by a program and networking opportunity. On **Monday**, **October 26**, attendees will reconvene for a program that will feature discussions about integrated water supply management, including Lake Cachuma operations and management, and a roundtable discussion with local agency users about integrated supply and demand strategies if drought conditions continue or end.

Sunday, October 25, 2015 2:00 – 7:30 p.m. Tour, Program & Networking Reception Monday, October 26, 2015 9:00 a.m. – 2:00 p.m. Program at Santa Ynez Valley Marriott *See preliminary program agenda and itinerary for detailed information.

Registration is available online until October 16 ACWA Member Pre-Registration Fee: \$ 80.00 Non-Member Pre-Registration Fee: \$120.00 A \$5 fee will be added to onsite registrations. Onsite registrations will be accommodated as space permits.

Registration fee includes Sunday tour & no-host networking opportunity (tour transportation, materials, snacks, and refreshments), Monday program materials, breakfast, lunch, and refreshments.

A spouse/companion registration fee is available for attendance at the Sunday reception only and must be accompanied by a regulation registrant. Pricing information is available at the time of registration.

Online registration deadline is October 16, 2015 or until space is full. Onsite registrations will be accommodated as space permits. Cancellations must be received in writing by 5 p.m. on October 16, 2015, in order to cancel a registration and receive reimbursement. Substitutions can be made by requesting it in writing by October 16. After that date, substitutions can be handled onsite at the event. Event details are subject to change and registrants will be notified by e-mail if changes occur.

Suggested Overnight Accommodations: Santa Ynez Valley Marriott 555 McMurray Rd., Buellton, CA 93427 ACWA Rate: \$129 + taxes Reserve your room by September 25 to take advantage of the ACWA rate – limited rooms available at this rate. Call the hotel directly at 888-236-2427 to make your reservation.

Questions: Contact Regional Affairs Representative Katie Dahl at <u>Katied@acwa.com</u> or Region & Member Services Specialist Ana Torres at <u>Anat@acwa.com</u> or call (916) 441-4545.



ACWA Region 5 Event

October 25 & 26, 2015 At Santa Ynez Valley Marriott 555 McMurray Road Buellton, CA 93427

Sunday Program &
Networking Reception at
Roblar Winery Barrel Room
3010 Roblar Avenue
Santa Ynez, CA 93460

*No-host beverages and hor d'oeuvres provided.

*All Lake Cachuma Tour participants must complete an <u>ACWA Voluntary Release and</u> <u>Waiver</u>.

Event underwritten by ACWA Region 5 and Sponsored by



Questions:

Contact Regional Affairs Representative Katie Dahl at <u>Katied@acwa.com</u> or Region & Member Services Specialist Ana Torres at <u>Anat@acwa.com</u> or call (916) 441-4545.

The Lake Cachuma Project Past, Present, Future

PRELIMINARY PROGRAM AGENDA & ITINERARY

Sunday, October 25:

2:00 p.m.	Check-in at Santa Ynez Valley Marriott lobby & board bus
2:30 p.m.	Depart on tour
3:00 p.m.	Tour Lake Cachuma Operations
5:00 p.m.	Program & Networking Reception at Roblar Winery
7:30 p.m.	Return to Santa Ynez Valley Mariott
Monday, Octob	per 26: Program at Santa Ynez Valley Marriott, <i>Jockey Club Room</i>
8:30 a.m.	Check-in & Onsite Registration
9:00 a.m.	Welcome – Dick Quigley , Chair, ACWA Region 5
	City of Buellton Mayor Holly Sierra
9:15 a.m.	ACWA Issues Update – Tim Quinn, Executive Director, ACWA
9:35 a.m.	History of Water Supply in Santa Barbara County - Jim Stubchaer , Civil Engineer & Former Chair, State Water Resources Control Board
10:05 a.m.	Break
10:15 a.m.	Lake Cachuma Operations
	Moderator: Charles Hamilton, General Manager, Carpinteria Valley WD
	Ray Stokes, Executive Director, Central Coast Water Authority
	Tom Fayram , Deputy Director, Water Resources, Santa Barbara County Dept. of Public Works
	Michael Jackson, South-Central California Area Manager, U.S. Dept. of the Interior, Bureau of Reclamation
11:30 a.m.	Lunch
12:00 p.m.	Water Supply & Demand Strategies if the Drought Continues or Ends
	Moderator: Tom Fayram, Santa Barbara County Dept. of Public Works
	Chris Dahlstrom, General Manager, Santa Ynez River Water CD#1
	Joshua Haggmark, Water Resources Manager, City of Santa Barbara
	Charles Hamilton, General Manager, Carpinteria Valley WD
	John McInnes, General Manager, Goleta WD -
	Tom Mosby, General Manager, Montecito WD
	Bruce Wales, General Manager, Santa Ynez Water CD
2:00 p.m.	Program Cogocludes



ACWA/JPIA - MONDAY, NOV. 30

8:30 – 10:00 AM

Employee Benefits Program Committee Meeting

10:15 - 11:15 AM

ACWA/JPIA Executive Committee

1:30 – 4:00 PM

ACWA/JPIA Board of Directors

4:00 – 5:00 PM

ACWA/JPIA Town Hall

5:00 - 6:00 PM

ACWA/JPIA Reception

TUESDAY, DEC. 1

- 8:00 AM 6:00 PM • Registration
- 8:30 AM 3:00 PM
- ACWA/JPIA: Seminars

10:00 - 11:45 AM

- Groundwater Committee
- Water Quality Committee

11:00 AM – Noon

Outreach Task Force

Noon – 2:00 PM

- ACWA 101 & Luncheon
- Committee Lunch Break

1:00 – 2:45 PM

- Energy Committee
- Finance Committee
- Scholarship & Awards SubcommitteeWater Management Committee

2:00 - 4:00 PM

 SDLF Special District Administrator Certification Test

1:30 - 3:30 PM

 ACWA/JPIA: Sexual Harassament Prevention for Board Members & Managers (AB 1825)

3:00 – 4:45 PM

- Communications Committee
- Federal Affairs Committee
- Local Government Committee
- Membership Committee

5:00 - 6:30 PM

Welcome Reception in the Exhibit Hall

ACWA 2015 Fall Conference & Exhibition PRELIMINARY AGENDA

DEC **1–4** 2015

Renaissance & Hyatt Regency, Indian Wells

WEDNESDAY, DEC. 2

7:30 AM – 5 PM

- Registration
- 8:00 9:45 AM
- Opening Breakfast (Ticket Required)

9:00 AM – Noon & 1:30 – 5:00 PM

Exhibit Hall

10:00 – 11:30 AM

- Attorneys Program
- Communications Committee Program
 - Energy Committee Program
- Exhibitor Technical Presentations
- Finance Program
- Human Resources Program
- Region Issue Forum
- Statewide Issue Forum

11:30 – 11:45 AM

• Prize Drawing in the Exhibit Hall

11:45 AM - 1:45 PM

• General Session & Luncheon (Ticket Required)

2:00 - 3:15 PM

- Aquatic Resources Subommittee
- Attorneys Program
- Exhibitor Technical Presentation
- Human Resources Program
- Region Program
- Town Hall

3:30 - 4:45 PM

- Energy Committee Program
- Exhibitor Technical Presentation
- Finance Program
- Statewide Issue Forum
- Water Industry Trends Program

4:00 - 6:00 PM

• Legal Affairs Committee

4:30 - 5:30 PM

Beer & Wine Mixer - Hosted by Exhibitors

5:30 - 7:00 PM

- CalDesal Hosted Mixer
- CH2MHILL Hosted Reception

THURSDAY, DEC. 3

All conference programs are subject to change. 30

- 7:30 AM 4 PM
- Registration

8:00 AM – Noon

Exhibit Hall

8:00 - 9:15 AM

 Networking Continental Breakfast (Ticket Required)

9:30 - 11:00 AM

- Attorneys Program
- Exhibitor Technical Presentations
- Finance Program
- Human Resources Program
- Region Issue Forum
- Statewide Issue Forum

9:30 - 11:45 AM

• Ethics Training (AB 1234)

11:45 AM - 1:45 PM

Prize Drawings in the Exhibit Hall

Exhibitor Technical Presentations

Dinner & Entertainment (Ticket Required)

FRIDAY, DEC. 4

ACWA's Hans Doe Past Presidents' Breakfast in

Partnership with ACWA/JPIA (Ticket Required)

OTHER EVENTS

San Joaquin Valley Agricultural Water Committee

Last modified: 07/27/15

• General Session & Luncheon (Ticket Required)

11:00 - 11:30 AM

2:00 - 3:15 PM

Attorneys Program

3:30 - 5 PM

Regions 1 – 10

6:00 - 7:00 PM

7:00 - 9:30 PM

8:00 - 9:30 AM

8:30 - 10:00 AM

THURSDAY, DEC. 3

6:45 - 8:30 AM

Registration

Outreach Reception

Federal Issues Forum

Statewide Issue Forum

Membership Meetings

• Water Industry Trends Program

DEC

2015

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PRICING REFERENCE SHEET



ACWA 2015 Fall Conference & Exhibition REGISTRATION, MEALS & HOTEL PRICING

Renaissance & Hyatt Regency, Indian Wells

Register online @ acwa.com Regular registration and cancellation deadline is November 9, 2015 • 4:30 p.m. (PST)

NEED TO REGISTER ON SOMEONE ELSE'S BEHALF? YOU CAN NOW SIGN-IN AS YOURSELF - After you've logged-in, you can select from a list of people affiliated with your company and proceed to register him/her for the event. If the registrant is not listed, you will have the opportunity to create a Portal profile for him/her before registering.

REGISTRATION FEES & OPTIONS	REGULAR	ONSITE
Advantage (For ACWA public agency members, affiliates & associates ONLY)	(ends 11/9/15)	
Full Conference Registration & Meals Package	\$695	Not Avail.
Full Conference Registration Only (meals sold separately).	\$535	\$560
One-Day Conference Registration (meals sold separately): Wednesday 12/2 -OR- Thursday 12/3	\$300	\$325
Wednesday registration includes Welcome Reception on Tuesday evening.		
Thursday registration includes ability to purchase a ticket for Friday breakfast.		
Standard (Applies to non-members of ACWA)		
Full Conference Registration Only (meals sold separately).	\$805	\$830
One-Day Conference Registration (meals sold separately): Wednesday 12/2 -OR- Thursday 12/3	\$450	\$475
Wednesday registration includes Welcome Reception on Tuesday evening.		
Thursday registration includes ability to purchase a ticket for Friday breakfast.		
Guest (Guest registration is not available to anyone with a professional reason to attend.)		
Guest Conference Registration (meals sold separately)	\$45	\$45
MEAL FUNCTIONS	REGULAR	ONSITE
Wednesday – December 2		
Opening Breakfast	\$45	\$50
Wednesday Luncheon	\$50	\$55
Thursday – December 3		
Networking Continental Breakfast	\$35	\$40
Thursday Luncheon	\$50	\$55
Thursday Dinner	\$65	\$70
Friday – December 4		
Friday Breakfast	\$45	\$50

HOTEL INFORMATION Reservations will not be accepted until August 24.

You must be registered for the ACWA conference in order to receive hotel reservation information and conference special room rate. Conference special rate is available August 24 – November 13, based on availability.

Special Hotel Rates

Renaissance Indian Wells Single/Double \$175 Subject to fees (per room per night): 11.25% Occupancy Tax, 2% Business Tax, 1% Tourism Marketing District, and a per night \$.60 CA Tourism Fee

Hyatt Regency Indian Wells...... Single/Double \$185 Subject to fees (per room per night): 11.25% Occupancy Tax, 2% Business Tax, 1% Tourism Marketing District, a per night \$0.60 CA Tourism Fee and \$18 resort fee

Important Dates:

For those **registering for conference prior to August 24**, hotel information will be provided via e-mail on August 24.

For those **registering for conference from August 24 to November 13**, your confirmation e-mail will include hotel reservation information and an opportunity to receive a conference special hotel rate.

Questions? Contact us at 916.441.4545, toll free 888.666.2292. Conference terms and conditions available at acwa.com in the event section.



REGISTRATION TERMS & CONDITIONS

ACWA 2015 Fall Conference & Exhibition

Agenda: 10.1.15

Item:

11b

Renaissance & Hyatt Regency, Indian Wells

Register online @ acwa.com Regular registration and cancellation deadline is November 9, 2015 • 4:30 p.m. (PST)

WHO IS ELIGIBLE FOR "ACWA ADVANTAGE" PRICING?

ACWA Advantage pricing is available to the following registrants:

- An officer or director of an ACWA member agency.
- A person directly employed by an ACWA public agency member, affiliate or associate organization. This does not include independent contractors, service providers, or third-party vendors.
- Any ACWA board member whose fee is paid for by member agency.
- Any state or federal administrative or legislative personnel in elected, appointed or staff positions.
- Staff of ACWA/JPIA and Water Education Foundation.
- Any individual or honorary life member of ACWA.

ONE-DAY REGISTRATION

By choosing a Wednesday registration, you are entitled to attend the Welcome Reception on Tuesday evening and all programs on Wednesday. By choosing a Thursday registration, you are entitled to attend all programs on Thursday and the capability to attend the Friday closing breakfast, with the purchase of a meal ticket.

MEMBERSHIP INFORMATION – Become a Member & Save on ACWA Events

If you are interested in learning more about becoming an Associate Friend of ACWA, contact Jacob Rowe at jacobr@acwa.com. For public agency membership, please contact Tiffany Giammona at tiffanyg@acwa.com.

CANCELLATIONS & CHANGES

All registration changes and cancellations must be made in writing by the event registration deadline. Valid cancellation requests will receive a refund of any registration fees paid minus a \$75 processing charge. For payments originally made by credit card, refunds can be issued back onto the credit card within 60 days. Otherwise, a refund will be issued by check. No refunds or registration changes will be granted after the registration deadline. Submit request in writing to Teresa Taylor at teresat@acwa.com.

SUBSTITUTIONS

Event registrations are transferable from one participant to another within the same organization. Please submit your request in writing before the event registration deadline to Avon Alfaro at avona@acwa.com. Include the original registrant's name, the new person's name, title and email address with your request. After the registration deadline, substitutions will be handled on-site. Only one substitution is permitted per original registrant. The individual submitting the substitution request is responsible for all financial obligations (including any balance due) associated with the original registration. There is no fee to transfer an eligible registration.

SPECIAL REQUESTS & ACCOMMODATIONS

Special requests must be submitted in writing to Teresa Taylor at teresat@acwa.com. Participants are encouraged to submit special requests as soon as possible.

If you have a disability that requires an accommodation, please contact Melanie Medina at melaniem@acwa.com or call toll free at (888) 666-2292 to discuss your needs.

REFUNDS

Except as otherwise provided in this document, all payments and fees are nonrefundable after the registration deadline.

MEAL TICKETS

After registration deadline, meal tickets are not eligible for exchange, refund or credit.

NONATTENDANCE

Registrants who fail to attend the event, in part or in whole, are not eligible for a refund or credit and will be billed for any balance due.

GUEST REGISTRATION

Guest registration is available to a spouse, companion or guest of an ACWA event registrant. Guest registration is not available to any employees of a public agency, associate or affiliate/mutual water company. Guest registration is also not available to anyone with a professional reason to attend for purposes of learning or business. The guest registration includes admission to the Exhibit Hall, the opening reception and the ability to purchase meal tickets and attend meal functions. **Guest registrants are not eligible for cash or prize drawings.**

Questions? Contact us at 916.3241.4545, toll free 888.666.2292.

MEMO

TO: Board of Directors

FROM: Brian Lee, District Manager

SUBJECT: Administration/Engineering Departments Status Report

DATE: October 1, 2015

RECOMMENDATION:

It is recommended that the Board of Directors review and file the Administration / Engineering Departments status report.

BACKGROUND:

MEETINGS OF NOTE

On September 22, President Bruce, Director Ratcliffe and DM Lee traveled to Sacramento for some face-time opportunities with key players outside the District. In three meetings we met with Secretary John Laird, key staff from the State Water Resources Control Board and Tim Quinn, Executive Director of the Association of California Water Agencies. Each meeting proved extremely valuable in identifying resources that the District is currently underutilizing. Specifically, funding and grant opportunities and the processes required to gain California's financial assistance.

On September 30, Director Hammer and DM Lee presented highlights of the District's CIP program and financial opportunities to the San Lorenzo Valley Rotary.

On October 5, President Bruce, Director Hammer and DM Lee are scheduled to meet with Assemblymember Mark Stone.

On October 6, DM Lee is scheduled to present highlights of the District's CIP program and financial opportunities to the Crossen North County Democratic Club.

On October 9, President Bruce, Director Hammer and DM Lee are scheduled to meet with Senator Bill Monning.

DROUGHT RECOVERY 218 PROCESS

On Monday, September 24, the District mailed out 22,065 218 notices to each parcel and parcel owner within the District. A press release and website notice were also accomplished. The public hearing is scheduled for November 19, at the regularly scheduled Board Meeting.

OLYMPIA ASSESSMENT DISTRICT

Staff has been working with our legal consultant and the State of California to issue a revised SRF contract that better defines the Assessment District Obligations versus District wide obligations.

PROBATION TANK REPLACEMENT PROJECT

The 60% Plan Review was conducted in late July. The Projects Habitat Conservation Plan (HCP) was approved in late Summer and has been submitted to the State for review. State permitting is expected to take 18 months from submittal of the HCP. Construction is expected to take an additional 6 months. Project is scheduled for bidding in mid-2016 and construction is expected to be completed in early 2017.

SWIM TANKS REPLACEMENT PROJECT

60% Design Drawings are under review, including draft Mitigated Negative Declaration (MND) documentation. Project is scheduled for bidding in late 2015 and construction is expected to be completed in mid-2016.

SUNNYCROFT PIPELINE REPLACEMENT PROJECT

Pipeline is installed and operational. Final paving has been scheduled for October 19-20.

FALL CREEK FISH LADDER

100% plans and specifications are under staff review. Current schedule is to bid in winter of 2016 for construction in summer of 2016.

OLYMPIA MUTUAL

Construction is completed. Staff is finalizing paperwork. Staff anticipates bringing project acceptance documents to the Board in late September.

INTERTIES 2,3 4

Project is under construction. Graham Hill Road pipeline installation is complete. Paving along Graham Hill Road is scheduled for October 7 and 8. These two days will be a full closure of Graham Hill Road. Construction should be finished by end of calendar year 2015 or soon thereafter.

FELTON HEIGHTS WATER STORAGE TANK

Staff is working to obtain necessary easements on neighboring property. Design is expected for fall of 2015 with construction occurring in spring 2016.

JOHNSON BLDG / PROSSER PROPERTY

After consulting with the Facility and Planning Committee, staff is obtaining quotes for the demolition of the Prosser Buildings. A staff recommendation is expected at the October 15 Board Meeting.

Schwarzbach Associates Property Management firm has been hired for the Johnson Building. Maintenance contracts have been let for exterior ground work. Art Services, the renter in Unit 1, has agreed to move into Unit 3 and 4, consolidating his framing operation into the two spaces at the Johnson Building. Previously, he was also renting work space at another location. Unit 1 will be prepared and offered for rent after Art Services has relocated. The Valley Woman's Club equipment has been relocated to the lower floor storage area until they can find suitable storage at another location. Staff is working to obtain quotes for repair of the exterior stairway to the third floor/attic space. Staff would like to utilize that space for document storage, helping to better organize the Administration Building.

ADMINISTRATION BUILDING HVAC SYSTEM

County permits have been obtained, equipment has been ordered and work is schedule to begin the first week in October..

CAPITAL IMPROVEMENT PROGRAM

The first workshop was held on Saturday, May 9 at the Felton Community Hall. Staff considers it a successful meeting with approximately 16 public members in attendance. A list of criteria was developed and formal prioritizing of said list has begun.

The second workshop was held June 25th (San Lorenzo Valley Unified School District offices, 325 Marion Ave., Ben Lomond, CA) and finalized the prioritization of criteria. Approximately 30 people attended.

The third workshop was held September 23rd at Highland Park. and develop internal ranking for each separate criteria previously identified. This is the last step before actual ranking of the projects occurs.

The fourth workshop (Date and time TBD) is to review and discuss how the ranking and prioritizing applies to proposed individual CIP projects.

After the fourth workshop is held staff anticipates that the developed five year CIP will be used to model capital expenditures in the upcoming 2015 Rate Study (expected to start in the Fall of 2015).

Probation Tank

San Lorenzo Valley Water District



Original Budget		Unallocated		Staff		Contract	Ch	ange Orders		Total		Remaining
\$ 1,655,000		\$1,490,000	\$	30,000	\$	135,423	\$	6,800	\$	1,662,223	\$	1,576,964
Phase	Consultant	Unallocated	Ori	iginal Contract	C	hange Orders	Re	vised Contract	A	ctual to Date		Remaining
Design and Permitting			\$	135,423	\$	6,800	\$	142,223	\$	85,259	\$	56,964
Permit Application Phase			\$	47,837	\$	-	\$	47,837	\$	46,530	\$	1,307
	Mesiti-Miller		\$	9,280	\$	-	\$	9,280	\$	9,280	\$	-
	Jodi McGraw		\$	13,350	\$	-	\$	13,350	\$	13,350	\$	-
	Haro Kasunich		\$	13,063	\$	-	\$	13,063	\$	11,756	\$	1,307
	Schaaf & Wheeler		\$	3,674	\$	-	\$	3,674	\$	3,674	\$	-
	Biotic Resources Group		\$	8,470	\$	-	\$	8,470	\$	8,470	\$	-
65% Desig	n Phase		\$	22,142	\$	6,800	\$	35,742	\$	22,142	\$	13,600
	Mesiti-Miller		\$	10,570	\$	-	\$	10,570	\$	10,570	\$	-
	Schaaf & Wheeler		\$	11,572	\$	-	\$	11,572	\$	11,572	\$	-
	Fehr Engineering		\$	-	\$	6,800	\$	6,800	\$	-	\$	6,800
95% Desig	n Phase		\$	49,417	\$	-	\$	49,417	\$	16,587	\$	32,830
	Mesiti-Miller		\$	26,320	\$	-	\$	26,320	\$	12,650	\$	13,670
	Jodi McGraw		\$	8,395	\$	-	\$	8,395	\$	-	\$	8,395
	Schaaf & Wheeler		\$	13,123	\$	-	\$	13,123	\$	3,937	\$	9,186
	Biotic Resources Group		\$	1,579	\$	-	\$	1,579	\$	-	\$	1,579
100% Desig	gn Phase		\$	16,027	\$	-	\$	16,027	\$	-	\$	16,027
	Mesiti-Miller		\$	11,110	\$	-	\$	11,110	\$	-	\$	11,110
	Haro Kasunich		\$	1,045	\$	-	\$	1,045	\$	-	\$	1,045
	Schaaf & Wheeler		\$	3,872	\$	-	\$	3,872	\$	-	\$	3,872
Staff			\$	30,000					\$	-	\$	30,000
Construction		\$ 1,490,000	\$	-	\$	_	\$	-	\$	-	\$	1,490,000
	Engineer	\$ 110,000	\$	-	\$	-	\$	_	\$	-	• \$	
	v	\$ 1,380,000	\$	_	\$	_	\$	_	\$	_	\$	



	Budgeted	С	ontract	Total	Remaining			
Project Total	\$ 298,725	\$	60,850	\$ 359,575	\$	322,177		

Phase	Consultant	Bu	dgeted	Orig	ginal Contract	C	hange Orders	Rev	vised Contract	Ac	tual to Date	Remaining
Design and Permitting	S	\$	-	\$	45,350	\$	-	\$	45,350	\$	37,398	\$ 7,952
Schedule o	of Service	\$	-	\$	750	\$	-	\$	750	\$	750	\$ -
	Frietas + Frietas		0	\$	750	\$	-	\$	750	\$	750	\$ -
Prepare Preliminary Pla	ans and Specifications	\$	-	\$	25,500	\$	-	\$	25,500	\$	25,500	\$ -
	Frietas + Frietas		0	\$	25,500	\$	-	\$	25,500	\$	25,500	\$ -
Negative D	eclaration	\$	-	\$	8,750	\$	-	\$	8,750	\$	7,750	\$ 1,000
	Stephanie Strelow		0	\$	8,750	\$	-	\$	8,750	\$	7,750	\$ 1,000
Meetings /	Site Visits	\$	-	\$	3,500	\$	-	\$	3,500	\$	1,200	\$ 2,300
	Frietas + Frietas		0	\$	3,500	\$	-	\$	3,500	\$	1,200	\$ 2,300
Final Sul	bmittal	\$	-	\$	3,750	\$	-	\$	3,750	\$	2,198	\$ 1,552
	Frietas + Frietas		0	\$	3,750	\$	-	\$	3,750	\$	2,198	\$ 1,552
Bid Su	pport	\$	-	\$	3,100	\$	-	\$	3,100	\$	-	\$ 3,100
	Frietas + Frietas		0	\$	3,100	\$	-	\$	3,100	\$	-	\$ 3,100

Construction		\$ 298,725	\$ 15,500	\$ -	\$ 15,500	\$ -	\$ 314,225
	Frietas + Frietas	\$ -	\$ 15,500	\$ -	\$ 15,500	\$ -	\$ 15,500
	Contractor	\$ 298,725	\$ -	\$ -	\$ -	\$ -	\$ -

Sunnycroft



	Budgeted	Total	F	Remaining
Project Total	\$ 50,000	\$ -	\$	50,000

Phase	Consultant	В	udgeted	Actual to Date	Remaining
Design and Permitting	5	\$	5,000	\$-	\$ 5,000
Schedule o	of Service	\$	5,000	\$-	\$ 5,000
	Staff	\$	5,000		\$ 5,000

Construction		\$ 45,000	\$ -	\$ 45,000
	Staff	\$ 20,000	\$ -	\$ 20,000
	Material	\$ 25,000	\$ -	\$ 25,000



Original Budget		Unallocated	Staff	Contract	Change Orders	Total	Remaining
\$ -		\$-	\$-	\$ 6,432,578	-\$ 64,656	\$ 6,367,922	\$ 3,354,860
							I
Phase	Consultant	Unallocated	Original Contract	Change Orders	Revised Contract	Actual to Date	Remaining
Design and Permitting	•		\$ 0.00			-	
Permit Applic	ation Phase		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
							\$ 0.00
							\$ 0.00
							\$ 0.00
							\$ 0.00
							\$ 0.00
65% Desig	gn Phase		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
							\$ 0.00
							\$ 0.00
							\$ 0.00
95% Desig	n Phase		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
							\$ 0.00
							\$ 0.00
							\$ 0.00
							\$ 0.00
100% Desi	gn Phase		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
							\$ 0.00
							\$ 0.00
							\$ 0.00

S	itaff	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
		· · · · · · · · · · · · · · · · · · ·	-	·	· · ·	· · ·	•

Construction		\$ 0.00	\$ 6,432,578.00	-\$ 64,656.10	\$ 6,367,921.90	\$ 3,013,062.09	\$ 3,354,859.81
	Engineer		\$ 676,395.00	\$ 0.00	\$ 676,395.00	\$ 445,421.24	\$ 230,973.76
	CCMI		\$ 22,500.00	\$ 0.00	\$ 22,500.00	\$ 0.00	\$ 22,500.00
	Contractor		\$ 5,733,683.00	-\$ 64,656.10	\$ 5,669,026.90	\$ 2,567,640.85	\$ 3,101,386.05



	Original Budget		Unallocated	Staff	Contract	Change Orders	Total	Remaining		
	\$-		\$ -	\$-	\$ 62,871	\$ 26,439	\$ 89,310	\$ 89,310		
-						-				
	Dhaca	Concultant	Unallocated	Original Contract	Change Orders	Douisod Contract	Actual to Data	Domoining		

Phase	Consultant	Unallocated	Orig	ginal Contract	C	Change Orders	Re	vised Contract	Act	tual to Date	R	emaining
Design and Permittin	g		\$	62,871	\$	26,439	\$	89,310	\$	-	\$	89,310
Permit /	/ Design		\$	62,871	\$	26,439	\$	89,310	\$	-	\$	89,310
Wa	iter Ways Consulting, inc.		\$	62,871	\$	26,439	\$	89,310			\$	89,310
Staff		\$-	\$	-	\$	-	\$	-	\$	-	\$	-
Construction		\$-	\$	-	\$	-	\$	-	\$	-	\$	-
	Engineer	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-
	Contractor	\$-	\$	-	\$	-	\$	-	\$	-	\$	-



Original Budget		Unall	ocated		Staff		Contract	Cha	nge Orders		Total	Re	emaining
\$ 38,920		\$	-	\$	-	\$	38,920	\$	-	\$	38,920	\$	38,920
Phase	Consultant	Unall	ocated	Orig	ginal Contract	С	hange Orders	Revi	sed Contract	Act	ual to Date	R	emaining
Design and Permitting	S			\$	-	\$	-	\$	-	\$	-	\$	-
Permit Applic	ation Phase			\$	-	\$	-	\$	-	\$	-	\$	-
				\$	-	\$	-	\$	-			\$	-
Staff		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
						s							
Construction		\$	-	\$	38,920	\$	-	\$	38,920	\$	-	\$	38,920
	TRECO Heating and Air	\$	-	\$	38,920	\$	-	\$	38,920	\$	-	\$	38,920



Original Budget	Unallo	cated	Staff		Cont	ract	Chang	e Orders	То	otal	Rema	aining
\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-

Phase	Consultant	Unallocated	Original Contract	Change Orders	Revised Contract	Actual to Date	Remaining
Design and Permitting	00		\$-	\$-	\$-	\$-	\$-
Permit Applie	cation Phase		\$ -	\$-	\$-	\$-	\$-
			\$-	\$-	\$-		\$-
			\$-	\$-	\$-		\$-
Staff		\$-	\$-	\$ -	\$ -	\$-	\$-
		-	-		-	-	
Construction		\$-	\$-	\$-	\$-	\$-	\$-
	Engineer	\$-	\$-	\$-	\$-	\$-	\$-
	Contractor	\$-	\$-	\$-	\$-	\$-	\$-



Original Budget	Unallocated	Staff	Contract	Change Orders	Total	Remaining
\$ 150,000	\$ -	\$-	\$-	\$-	\$-	\$-

Phase	Consultant	Unallocated	Original C	Contract	Char	nge Orders	Revise	ed Contract	Actua	al to Date	Rer	naining
Design and Permitting	B		\$	-	\$	-	\$	-	\$	-	\$	-
Permit Applic	cation Phase		\$	-	\$	-	\$	-	\$	-	\$	-
			\$	-	\$	-	\$	-			\$	-
			\$	-	\$	-	\$	-			\$	-
Staff		\$-	\$	-	\$	-	\$	-	\$	-	\$	-
Construction		\$-	\$	-	\$	-	\$	-	\$	-	\$	-
	Engineer	\$-	\$	-	\$	-	\$	-	\$	-	\$	-
	Contractor	\$-	\$	-	\$	-	\$	-	\$	-	\$	-



Original Budget	Unalloc	cated	Staff		(Contract	(Change Orders	Total	Rem	aining
\$-	\$	-	\$	-	\$	-		\$-	\$ -	\$	-
· ·	•				-			•			

Phase	Consultant	Unallocated	Origina	l Contract	Cha	nge Orders	Revise	ed Contract	Actua	al to Date	Rei	maining
Design and Permitting	g		\$	-	\$	-	\$	-	\$	-	\$	-
Permit Applie	cation Phase		\$	-	\$	-	\$	-	\$	-	\$	-
			\$	-	\$	-	\$	-			\$	-
Staff		\$-	\$	-	\$	-	\$	-	\$	-	\$	-
Construction		\$-	\$	-	\$	-	\$	-	\$	-	\$	-
	Engineer	\$-	\$	-	\$	-	\$	-	\$	-	\$	-
	Contractor	\$-	\$	-	\$	-	\$	-	\$	-	\$	-

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🖐 🗐 Title	Effort	Start	End	Oct 2015	Nov 2015	Dec 2015
 Probation Tank Site 	147w 4d	8/19/15	1/2/18			
• 1.1) Design	23w 4d	8/19/15	2/1/16		Design	
• 1.2) Permitting	71w 3d	8/19/15	12/30/16			
• 1.3) Construction	52w 2d	1/2/17	1/2/18			
 2) Swim Tank Site 	58w 1d	8/20/15	9/30/16			
▼ 2.1) Design	23w 1d	9/4/15	2/18/16		Desig	jn
• 2.1.1) 60% Plan Review	3w 1d	9/4/15	9/25/15			
• 2.1.2) Finalize Plans	8w	9/28/15	11/20/15	Finalize Pla	ans	
• 2.1.3) 100% Plan Review	2w	11/23/15	12/4/15		100	%
• 2.1.4) Prepare Bid Docs	4w	12/7/15	1/1/16			Prepare Bid
• 2.1.5) Bid Project	6w	1/4/16	2/12/16			
 2.1.6) Award Project 		2/18/16	2/18/16			
• 2.2) Permitting	8w 4d	8/20/15	10/20/15			
• 2.3) Construction	26w 1d	4/1/16	9/30/16			
 3) Intertie 6 Pipeline and Booster Station 	0h	9/17/15	9/17/15			
▼ 3.1) Construction	0h	9/17/15	9/17/15			
 3.1.1) Notice of Completion 		9/17/15	9/17/15			
 4) Interties 2, 3 4 Pipelines and Booster Stations 	18w 2d	9/10/15	1/13/16	Interties 2, 3 4 F	Pipelines and Boo	ster Stations
▼ 4.1) Construction	18w 2d	9/10/15	1/13/16		Construction	

/Volumes/admin/Brian/Projects/CIPs.oplx

CIPs

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Dec 2015

Title	Effort	Start	End	Oct 2015	Nov 2015	D
• 4.1.1) Paving Graham Hill Road	2d	10/5/15	10/6/15	Ð		
• 4.1.2) Pump Stations	18w	9/10/15	1/13/16		Pump Stations	
 5) Olympia Mutual Pipelines 	Oh	10/15/15	10/15/15	• •		
▼ 5.1) Construction	Oh	10/15/15	10/15/15			
 5.1.1) Notice of Completion 		10/15/15	10/15/15			
 6) Sunnycroft Fire Pipeline 	2w	10/1/15	10/14/15	Sunny		
▼ 6.1) Construction	2w	10/1/15	10/14/15	Constr		
• 6.1.1) Paving	2w	10/1/15	10/14/15	Paving		
 7) Felton Heights Water Storage Tank 	84w	9/9/15	11/29/16			
▼ 7.1) Design	48w	9/9/15	6/14/16			
• 7.1.1) Easements	8w	9/9/15	11/3/15	Easements		
• 7.1.2) Geotechnical	8w	9/9/15	11/3/15	eotechnical		
• 7.1.3) RFP for Design	6w	11/4/15	12/15/15		RFP for De	esign
• 7.1.4) Design	16w	12/16/15	4/5/16			
• 7.1.5) Prepare Bid Docs	4w	4/6/16	5/3/16			
• 7.1.6) Bid	6w	5/4/16	6/14/16			
7.1.7) Award Bid		6/14/16	6/14/16			
• 7.2) Permitting	12w	12/16/15	3/8/16			
• 7.3) Construction	24w	6/15/16	11/29/16			

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(Prepare Bid

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🖐 🗏 Title	Effort	Start	End	Oct 2015	Nov 2015	Dec 2015
▼ 8) Fall Creek Fish Ladder	68w	9/4/15	10/14/16			
▼ 8.1) Design	16w 1d	9/4/15	12/25/15	Des	ign	
• 8.1.1) 90% Plan Review	2w 1d	9/4/15	9/18/15			
• 8.1.2) Finalize Plans	4w	9/21/15	10/16/15	alize Plans		
• 8.1.3) Prepare Bid Package	4w	10/19/15	11/13/15	Prepare	e Bid	
• 8.1.4) Bid Project	6w	11/16/15	12/25/15		Bi	d Project
 8.1.5) Award Bid 		12/25/15	12/25/15			
• 8.2) Permitting	25w 3d	9/4/15	3/1/16		Per	mitting
• 8.3) Construction	26w 1d	4/15/16	10/14/16			
 9) Prosser Property Demolition 	12w	9/9/15	11/3/15	roperty Demolition		
• 9.1) Permits	4w	9/9/15	10/6/15			
• 9.2) Obtain Quotes	4w	9/9/15	10/6/15	iotes		
 9.3) (De)Construction 	4w	10/7/15	11/3/15	(De)Construct	iD	
▼ 10) Front Office HVAC	2w 1d	9/9/15	9/23/15			
• 10.1) Obtain Permits	1d	9/9/15	9/9/15			
• 10.2) Construction	2w	9/10/15	9/23/15			
▼ 11) Front Office LAPP	26w	9/9/15	3/8/16		Froi	nt Office LAPP
• 11.1) Deisgn	12w	9/9/15	12/1/15	Deisgn		
• 11.2) Permitting	8w	12/2/15	1/26/16			Permittin

CIPs

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🖐 🗏 Title	Effort Start	End	Oct 2015	Nov 2015	Dec 2015
11.3) Construction	6w 1/27/16	3/8/16			
▼ 12) Lyon SCADA	2w 1d 9/4/15	9/18/15			
▼ 12.1) Design	2w 1d 9/4/15	9/18/15			
• 12.1.1) Obtain Quote	2w 1d 9/4/15	9/18/15			
▼ 13) Meter Change Out	110w 8/19/15	8/15/17			
 13.1) Felton Diversion 	6w 8/19/15	9/29/15			
• 13.2) Consumer	104w 8/19/15	8/15/17			

San Lorenzo Valley Water District fixes underground leaks

Posted: Thursday, September 17, 2015 5:39 pm

San Lorenzo Valley Water District fixes underground leaks By Brian Lee |

The San Lorenzo Valley Water District announced that through its Leak Detection Program, the District has repaired dozens of leaks on its underground water mains, estimated to save millions of gallons of water annually.

SLVWD contracted with Utility Services Associates, a Seattle-based company, to perform the leak detection from September 2014 to August 2015, costing the District \$40,000. Through the use of state-of-the-art acoustical listening devices and digital correlation technology, the entire 151 miles of underground water mains in the District were checked for leaks. A total of 59 leaks were detected and, of those, 56 were repaired. The unrepaired leaks are associated water tanks, repairs to which are part of the District's future capital improvement projects.

The leaks discovered were causing an estimated loss of 110.7 gallons per minute district-wide. Repairing the leaks will prevent an estimated 58,183,920 gallons of water loss annually. For the fiscal year 2015/16, the District's has projected it will produce 680,000,000 gallons total.

"When it comes to saving water and stopping leaks, it's important that we hold the district to the same standard as we ask of our customers," said Brian Lee, SLVWD District Manager. "The Leak Detection Program proved to be a great investment for the District and shows that checking for leaks is a valuable water conservation tool. We continue to encourage all of our customers to check their pipes and fixtures for leaks to help with the ongoing conservation effort."

Although the District views the leak detection program as a huge success, aging infrastructure continues to create more leaks. Mainline replacement is needed in many areas of the District. The District is currently creating a comprehensive 10-year Capital Improvement Program that will greatly assist in identifying which pipes need to be replaced because they have reached the end of their usefulness.

A complete report on the Leak Detection Program will be presented during the Board of Directors meeting, at 7:00 p.m. on Thursday, Sept. 17, in the San Lorenzo Valley Water District Board Room at 13057 Hwy. 9, Boulder Creek. For more information call 831-338-2153. Brian Lee, 831.430.4625 <u>blee@slvwd.com</u>

theguardian.com

Surge in tech investment shows the days of cheap water are over

Ucilia Wang

US baseball team the Seattle Mariners has been putting its grounds on a water diet for the past three years. With roughly two million fans passing through its stadium and restrooms, as well as a grass field to maintain, this is no mean feat. But by using sensors and software to analyse water use in real time, the baseball team's maintenance crew has found effective ways to conserve water.

"There was a month in the off season when we saw a large spike in water use that didn't make sense," says Joe Myhra, groundsman for the Mariners. "We were able to look at data and realised we had a leak in one of the fire hydrant lines. The leak wouldn't [otherwise] have been visible until it was too late."



Citian worldwide are berpapping the power of gravity to gr

Cities worldwide are harnessing the power of gravity to generate electricity from public drinking water pipes

The team's efforts, which include installing low-flow toilets and only hosing down sections of seats and walkways used by fans during the most recent game, have cut consumption by just over 2m gallons and water costs by 10% over three years, says Myhra, reflecting a growing interest from businesses in making use of sensors and data analytics software to conserve water.

That interest has been driven partly by the drought <u>plaguing swaths</u> of western US. In California, now in its fourth year of drought, Governor Jerry Brown recently issued a <u>mandatory 25%</u> <u>consumption cut</u> from the 2013 levels for homes and businesses.

The rising cost of water

Historically water has been cheap and the full costs of producing and piping it to homes and businesses haven't been reflected in their bills. Instead, water utilities have funded rising expenses by issuing bonds or raising taxes. Sometimes utilities, especially those with publicly elected boards, <u>defer the maintenance</u> of their equipment because raising taxes or rates is <u>unpopular with voters</u>.

But the need to upgrade ageing infrastructure and pay for securing new water resources is pushing up water rates. In fact, residential water rates in 30 major US cities increased faster than the cost of almost all other regular household expenses in 2014, according to <u>a</u> <u>survey by Circle of Blue</u>, a nonprofit water resources research group.

"Water has been neglected because it's taken for granted," says Gary Wong, a principal at OSIsoft, which supplies the Mariners with water analytics software. "As the price of water increases or the scarcity increases, people are paying more attention to it."

Tech solutions

Tech companies and fund managers have reacted by investing in companies that make smart meters, sensors and software that track and analyse water consumption. Spending on water technology worldwide is predicted to jump from \$15bn (£9.7bn) in 2010 to \$25bn by 2018, says Global Water Intelligence, a UK research firm.

Using technology to monitor water use and create a conservation game plan isn't new. Many heavy water users, such as mining companies, chipmakers or soft drink producers, have long investigated ways to reduce wasteful consumption or increase

water availability, says Peter Williams, chief technology officer of IBM's energy and environmental technology unit.

Chipmakers, for example, must use pure water in their factories, which typically need several million gallons per day, Williams adds. "They invest in technology for recycling and reverse osmosis, which is incredibly energy intensive. They have every possible incentive to do it."

As the cost of water increases, there is a growing financial imperative for medium-sized companies to also invest in water monitoring technologies.



With water in ever-shorter supply in drought-ravaged California, Silicon Valley data centres are trying to reduce their needs for cooling

Water entrepreneurs

As well attracting the attention of companies that use water, the

drought and water rate increases are spurring entrepreneurs who see an opportunity to sell their technology to such businesses.

Texas-based Banyan Water, whose <u>customers include</u> American Airlines, has been helping businesses rein in excessive irrigation of their outdoor spaces since 2011. The company installs hydrometers and <u>tipping bucket rain gauges</u>, analyses water use and rainfall, and implements an irrigation schedule by remotely controlling customers' sprinkler systems.

Banyan's algorithms can figure out optimal water use by collecting information such as past water bills and the types of plants and their locations, says Gillan Taddune, chief executive of Banyan. "We give you visibility on how much money you can save," she adds.

Washington-based Apana, founded in 2012, markets its sensors, telemetry equipment and data analytics software to retailers and other commercial and industrial building managers. The company's technology can not only track and analyse water use in real time, but also isolate leaks, says Matt Rose, Apana's CEO. The data collected can help customers see their consumption patterns and figure out, for example, what the optimal water use for key pieces of equipment or different parts of operations should be, he adds.

Apana's primary customer is Costco, which has installed dozens of its systems and seen water savings of about 20%, says Rose.

"Ninety-nine percent of building owners use water bills as a water

management tool," Rose adds. "If your water bill doubles, where do you look for problems? You want to catch it on the spot instead of learning it a month or two down the road."

Drinking water systems imperiled by failing infrastructure

By Ryan J. Foley Associated Press Updated: 09/26/2015 07:10:04 AM PDT Agenda: 10.1.15 Item: 13c

MercuryNews.com

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DES MOINES, Iowa (AP) — Deep inside a complex of huge tanks, drinking water for Iowa's capital city is constantly cleansed of the harmful nitrates that come from the state's famously rich farmland.

Without Des Moines Water Works, the region of 500,000 people that it serves wouldn't have a thriving economy that has become a magnet for tech companies such as Microsoft. But after decades of ceaseless service, the utility is confronting an array of problems: Water mains are cracking open hundreds of times every year. Rivers that provide its water are more polluted than ever. And the city doesn't know how it will afford a \$150 million treatment plant at a time when revenues are down and maintenance costs are up?



"We're reaching the end of the life cycle of some of the most critical assets we've got," said Bill Stowe, CEO and general manager of the utility, which has a downtown treatment plant that was built in the 1940s, long before nitrates, which can harm infants, became a pressing concern. He said the industry is getting "all kinds of these warning alarms that we haven't heard before."

This Wednesday, July 15, 2015 photo shows tanks in the Nitrate Removal Facility at the Des Moines Water Works plant in Des Moines, Iowa. The biggest

A similar crisis is unfolding in cities across the country. After decades of keeping water rates low and deferring maintenance, scores of drinking water systems built around the time of World War II and earlier are in need of

replacement. The costs to rebuild will be staggering. The costs of inaction are already piling up. The challenge is deepened by drought conditions in some regions and government mandates to remove more contaminants.

At stake is the continued availability of clean, cheap drinking water — a public health achievement that has fueled the nation's growth for generations and that most Americans take for granted.

The U.S. Environmental Protection Agency projects that it will cost \$384 billion over 20 years to maintain the nation's existing drinking water systems, which will require tens of thousands of miles of replacement pipe and thousands of new or renovated plants. The American Water Works Association, an industry-backed group, puts the price even higher — \$1 trillion to replace all outdated pipes and meet growth over the next quarter-century.



In this Wednesday, July 15, 2015 photo, Bill Stowe, Des Moines Water Works CEO and general manager, speaks during an interview in Des Moines, Iowa.

"The future is getting a little dark for something as basic and fundamental as water," said Adam Krantz of the Water Infrastructure Network, a lobbying group that is fighting cuts to key federal water programs.

A HIDDEN CRISIS, A SHORTAGE OF MONEY

Unlike pothole-scarred roads or crumbling bridges, decaying water systems often go unnoticed until they fail.

"Buried infrastructure is out of sight, out of mind. We take it for granted. We turn on the face of and five get good, clean, quality water," said Will Williams, head of asset management for the engineering firm Black & Veatch and an expert on water infrastructure.

When failures happen, help can be hard to come by.



FILE - In this Thursday, July 31, 2014 file photo, Los Angeles Department of Water and Power crews work to repair a juncture of a water main which ruptured

Without big changes in national policy, local governments and their ratepayers will be largely on their own in paying for the upgrades. The amount of federal money available for drinking-water improvements is just a drop in the bucket.

Cities and utilities have historically been reluctant to raise rates sharply or to incur high levels of debt to pay for them, although both are increasingly happening.

"That's the key that Americans have to understand: If they want this system, they are going to have to be willing to finance it, to pay for it," said Greg DiLoreto, past president of the American Society of Civil Engineers.



FILE - In this Tuesday, July 29, 2014 file photo, water cascades down a stairway leading to a parking structure across from Pauley Pavilion on the UCLA

The group's 2013 report warned of a looming funding crisis and a future with more equipment failures that will disrupt water service, transportation and commerce.

"Not meeting the investment needs of the next 20 years risks reversing the environmental, public health and economic gains of the last three decades," the report said.

The largest source of federal assistance is the Drinking Water State Revolving Fund, which goes largely to small towns and mid-sized cities.

Some communities that need the most help shun the program because it offers mostly loans, not grants. A new program authorized by Congress to attract private investment in larger, big-city projects has yet to get off the ground.

THE IMPORTANCE OF PIPES

More than a million miles of underground pipes distribute water to American homes, and maintaining that network remains the largest and costliest long-term concern.

Some pipes date back to the 1800s. As they get older, they fail in different ways. Some split and rupture, with an estimated 700 main breaks occurring around the U.S. every day. The most devastating failures damage roadways, close businesses and shut off service for hours or days. If pipes are particularly bad, they can contaminate water.

Utilities have long struggled to predict when to replace pipes, which have vastly different life cycles depending on the materials they are made from and where they are buried. Some might last 30 years,

others more than 100. Sophisticated computer programs are helping some water system of the official the order in which pipes should be replaced, but tight budgets often mean the fixes don't come until it's too late.

Replacing a single mile of water main can cost from \$500,000 to more than \$1 million, but doing so is far more disruptive to customers if it fails first. Experts say a peak of up to 20,000 miles of pipe will need to be replaced annually beginning around 2035, up from roughly 5,000 miles currently. Des Moines Water Works alone has 1,600 miles of distribution pipes.

The Philadelphia water department, the nation's oldest, is already spending tens of millions of dollars more per year to replace its worst pipes. Yet the city saw more than 900 water main breaks in the most recent budget year. In June, two massive breaks forced evacuations and damaged cars, homes and businesses.

New Orleans once boasted about not raising water rates for two decades. But in 2012, the city approved 10 percent increases on water bills for eight straight years as part of a plan to fix a crumbling system. The average household's monthly water-and-sewer bill will climb to \$115 by 2020. The extra money will help replace deteriorating mains damaged by Hurricane Katrina.

The massive main break that flooded the UCLA campus in Los Angeles in 2014 — ruining its basketball court and inundating buildings and fields with millions of gallons of water — was widely seen as a wakeup call for failing infrastructure. But a year later, the city's response illustrates how large of a problem many systems face.

The Los Angeles Department of Water and Power is moving from a 300-year replacement cycle to a 250-year cycle for its 7,200-mile water distribution system, still far slower than the 100-year cycle many experts recommend. The department is proposing a 3.8 percent annual water rate increase for five years, which would go largely toward system improvements and gradually raise the typical household water bill by \$12.30 per month. Heavier users would face steeper increases.

MORE UNAVOIDABLE COSTS

Pipes aren't the only components in need of big investments. Many water-treatment plants are 70 to 100 years old and need to be replaced or rebuilt with new systems at a cost of tens of millions of dollars even in small cities. Adding to the price will be new valves to control water flow, new pumping stations to keep up pressure and new tanks to store water.

To make matters worse, the need for new investment comes as revenue is falling, in large part because Americans are using less water and installing more efficient toilets and showerheads.

Many households affected by drought have cut their usage, either voluntarily or because of mandatory orders. Even after the drought ends, their old habits often never return. That is good for conservation but means less money for water systems, which charge customers based on the amount used.

To deal with the loss of income, many water districts have been forced to raise rates. So in essence, customers are paying more for using less.

Some big cities and small towns are losing residents too, further contributing to the declining number of paying water customers.

Costs are also rising to accommodate federal regulations that require removal of more potentially harmful

contaminants, including arsenic and disinfectant byproducts.

Add it up, and customers' water bills will need to climb rapidly across the country to keep the current level of service. Experts say the trend, which will disproportionately hurt the low-income, is likely to continue in coming decades.

"Infrastructure is the new frontier. Everybody knows there are issues, but it's like, 'What are we going to do?'" said Ed Moreno, water superintendent in Iowa City, where rates went up 5 percent this year to pay for infrastructure. "Because it's not going to be inexpensive."

THE DILEMMA IN DES MOINES

Many of these pressures are on stark display in Des Moines, where the decaying infrastructure is contributing to a planned rate hike for customers of about 10 percent for next year.

The biggest challenge for Des Moines Water Works has been nitrate levels that are far above the federal standard for safety in the two rivers that provide the utility's source water. The utility and scientists argue that the nitrates are largely the result of farm runoff that is tainted with fertilizer and manure.

Cleaning the water is expensive because nitrates are not addressed in the normal treatment process. Instead, the utility has to operate a separate nitrate-removal system, which recently ran a record 148 straight days this year at a cost of \$1.5 million because of continued high levels in the Raccoon and Des Moines rivers.

The water agency has taken the unprecedented step of suing three major lowa farming counties in federal court to try to limit the farm discharges. But the litigation provoked an intense backlash from lowa's powerful agricultural industry, which argues that farmers are already taking voluntary measures to address the problem. A trial is set for next year.

If the problems persist, the plant's general manager said it will have to spend \$150 million to build a nitrate-removal plant to replace the aging tanks and outdated technology currently in use. Officials worry that on a hot summer day during peak demand, the utility will be unable to treat enough water, forcing a temporary shutdown that would require customers to use bottled water. The existing nitrate-removal system can treat only about 10 million gallons a day, a fraction of what the region needs.

The treatment costs also leave less money to replace Des Moines' aging pipes. The utility budgeted this year for 345 main breaks, up from 285 last year. It spends about \$6 million per year on maintenance, a figure Stowe said is less than half the amount needed.

The effects are felt by residents such as Mario Tumea, whose family's Italian restaurant was closed in May for a day and a half after a 12-inch cast-iron main from 1938 split and sent water gushing into the street. The restaurant's parking lot was damaged, and eight businesses were left without water.

"It's frustrating," he said. "But when you have old pipes and stuff like that, it's going to happen. We weren't happy with it, but we had no choice."