

**BOARD MEETING AGENDA  
REGULAR MEETING OF THE BOARD OF DIRECTORS OF  
CITRUS HEIGHTS WATER DISTRICT  
JUNE 14, 2016 beginning at 6:30 PM**

**DISTRICT ADMINISTRATIVE OFFICE  
6230 SYLVAN ROAD, CITRUS HEIGHTS, CA**



**CITRUS  
HEIGHTS  
WATER  
DISTRICT**

6230 Sylvan Road  
P.O. Box 286  
Citrus Heights  
California  
95611-0286

phone  
916/ 725-6873  
fax  
916/ 725-0345  
website  
www.chwd.org

In compliance with the Americans with Disabilities Act, if you have a disability and need a disability-related modification or accommodation to participate in this meeting, please contact the Assistant General Manager or Management Services Supervisor/Chief Board Clerk at (916) 725-6873. Requests must be made as early as possible, and at least one full business day before the start of the meeting.

**CALL TO ORDER:**

Upon request, agenda items may be moved to accommodate those in attendance wishing to address that item. Please inform the General Manager.

**ROLL CALL OF DIRECTORS:**

**PLEDGE OF ALLEGIENCE:**

**VISITORS:**

Keith Durkin, Assistant General Manager, San Juan Water District  
Jim Crowley, The Crowley Group, Inc.

**PUBLIC COMMENT:**

The Public shall have the opportunity to directly address the Board on any item of interest to the public before or during the Board's consideration of that item pursuant to Government Code Section 54954.3. Public comment on items of interest within the jurisdiction of the Board is welcome. The Presiding Officer will limit comments to three (3) minutes per speaker.

(A) Action Item    (D) Discussion Item    (I) Information Item

**CONSENT CALENDAR: (A)**

All items under the Consent Calendar are considered to be routine and will be approved by one motion. There will be no separate discussion of these items unless a member of the Board, Audience, or Staff request a specific item be removed for separate discussion/action before the motion to approve the Consent Calendar.

- CC-1 Minutes of the Regular Meeting – May 10, 2016.
- CC-1a. Minutes of the Special Meeting – May 31, 2016.
- CC-2. Revenue Analysis Report for May 2016.
- CC-3. Assessor/Collector's Roll Adjustment for May 2016.
- CC-4. Treasurer's Report for May 2016.
- CC-5. Treasurer's Report of Fund Balances for April May.
- CC-6. Operations Budget Analysis for May 2016.
- CC-7. Capital Improvements Budget Analysis for April May.
- CC-8. Payables for April May.
- CC-9. CAL-Card Purchases for May 2016.

*Board of Directors*  
**Allen B. Dains**  
**Caryl F. Sheehan**  
**Raymond A. Riehle**

*General Manager/  
Secretary*  
**Robert A. Churchill**

*Assistant General  
Manager/Treasurer*  
**Hilary M. Straus**

*Accounting Supervisor  
Assessor/Collector*  
**Susan K. Sohal**

- CC-10. Summary of 2016 Directors, Officers and Employees Training, Seminars and Conference Expenses.
- CC-11. Stock Ranch Commercial Easement Acceptance (A)  
Consider adoption of Resolution 13-2016 accepting an easement from SRP 12 LLC on a portion of 6900 Auburn Boulevard, Stock Ranch Commercial.
- CC-12. Administration Building Improvements Project (I)  
Receive information on adding an office to the Administration Building.

**PRESENTATION:**

- P-1. San Juan Water District (I)  
San Juan Wholesale Agency Key Issues Briefing

**PUBLIC HEARING:**

- PH-1. 2015 Urban Water Management Plan (A)  
Conduct a Public Hearing and consider adoption of the 2015 Urban Water Management Plan (UWMP) by Resolution 2016-14.

**OLD BUSINESS:**

- O-1. Strategic Planning Session (A)  
Call for a Strategic Planning Session Special Meeting to be held at the Rusch Park Sunrise Room on June 26 beginning at 8:30 AM.

**NEW BUSINESS:**

- N-1. Training/Continued Education /Meetings (I)  
Discuss training, continued education, and meeting opportunities.
- N-2. Water Quality Public Health Goals (D/A)  
Receive and comment on draft report and call for a Public Hearing on July 12, 2016.
- N-3. Water Conservation Stage Declaration (A)  
Consider adoption of Resolution 15-2016 Declaring Stage 2 "Water Alert" Water Conservation Requirements for Citrus Heights Water District.

**CONSULTANTS' AND LEGAL COUNSEL'S REPORTS (I):**

**PROJECT MANAGER'S REPORTS (I):**

- PM-1. Accepted Water Systems.
- PM-2. Projects Under Construction by Private Developers.
- PM-3. Contractor / Developer Projects Pending Construction.
- PM-4. Proposed District Capital Improvement Projects.
- PM-5. Projects Contracted by Citrus Heights Water District.
- PM-6. City of Citrus Heights Projects.

**OPERATIONS MANAGER'S REPORTS (I):**

- OM-1. Monthly report on construction and maintenance activities plus water analysis reports.
- OM-2. 2016 Water Supply – Purchased and Produced.
- OM-3. Surface Water Supply.
- OM-4. Vehicle Auction Results.

**RECESS:** The Meeting will have a brief recess.

**DIRECTOR'S AND REPRESENTATIVE'S REPORTS (I):**

- D-1. Regional Water Authority (Dains, Churchill).
- D-2. Sacramento Groundwater Authority (Sheehan).
- D-3. San Juan Water District.
- D-4. Association of California Water Agencies (Dains).
- D-5. ACWA Joint Powers Insurance Authority.
- D-6. Sacramento Local Agency Formation Commission.
- D-7. City of Citrus Heights.
- D-8. Chamber of Commerce Government Issues Committee (Straus).
- D-9. Other Reports:

**ASSISTANT GENERAL MANAGER'S REPORTS (I):**

- AGM-1. Water Efficiency Program Update.
- AGM-2. Drought Response Plan Update.
- AGM-3. Paladin Night Patrol Update.

**GENERAL MANAGER'S REPORTS (I):**

- GM-1. Employee Recognition.
- GM-2. General Manager's Task List.
- GM-3. Long Range Board Agenda.
- GM-4. ACWA 2016 Spring Conference.
- GM-5. ACWA President Visit.

**CORRESPONDENCE:**

- C-1. ACWA/JPIA H.R. LaBounty Safety Award to James Ferro

**CLOSED SESSION:**

- CL-1. Public Employee Retirement and Succession - discussion under Personnel Exemption (California Government Code Section 54957)
- CL-2. Public Employee Performance Evaluation for the General Manager; pursuant to Government Code Section 54957.

**OPEN SESSION:**

Report from Closed Session

**FUTURE CHWD BOARD OF DIRECTORS MEETING DATES:**

June 26, 2016	8:30 AM	Special Meeting
July 12, 2016	6:30 PM	Regular Meeting
August 9, 2016	6:30 PM	Regular Meeting

**ADJOURNMENT:**

**CERTIFICATION:**

I do hereby declare and certify that this agenda for this Regular Meeting of the Board of Directors of the Citrus Heights Water District was posted in a location accessible to the public at the District Administrative Office Building, 6230 Sylvan Road, Citrus Heights, CA 95610 at least 72 hours prior to the regular meeting in accordance with Government Code Section 54954.2.

*Lisa A. Smoot*

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LISA A. SMOOT, Chief Board Clerk

Dated: June 9, 2016

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CITRUS HEIGHTS WATER DISTRICT  
BOARD OF DIRECTORS SPECIAL MEETING  
May 31, 2016

The Special Meeting of the Board of Directors was called to order at 12:35 p.m. by President Dains and roll was called. Present were:

Allen B. Dains, President  
Caryl F. Sheehan, Vice President  
Raymond A. Riehle, Director  
Robert A. Churchill, General Manager  
Hilary M. Straus, Assistant General Manager  
David Gordon, Operations Manager  
Paul Dietrich, Project Manager  
Lisa Smoot, Management Services Supervisor/Chief Board Clerk  
Tim Cutler, Water Distribution Supervisor  
Rex Meurer, Water Efficiency Coordinator  
Brian Hensley, Water Quality Supervisor/Chief Operator  
Missy Pieri, Associate Civil Engineer  
Nicholas Spiers, Assistant Water Distribution Supervisor

VISITORS

None

PLEDGE OF ALLEGIANCE

Director Dains led the Pledge of Allegiance.

PUBLIC COMMENT

No public comment.

NEW BUSINESS

After a review of the meetings schedule by GM Churchill and AGM Straus, District Directors and staff boarded a bus at the District Administrative Office Building at 1:10 PM and travelled outside district boundaries for a tour of the San Juan Water District (SJWD) Water Treatment Plant (WTP). The tour began at approximately 1:35 PM and was led by SJWD WTP Superintendent Greg Turner and Chief Operator Mike Spencer. The WTP tour concluded at approximately 3:15PM. Upon the completion of the WTP tour Directors and staff boarded the bus and toured throughout Citrus Heights Water District including visiting several District groundwater well sites.

Upon return to the District Administrative Office Building at 5:10 PM an Operational Briefing was provided by GM Churchill, AGM Straus, PM Dietrich and OM Gordon. The Briefing included the following topics:

- Statewide, regional and San Juan Family of Agencies matters
- Budget process overview
- Management Services
- Water Conservation
- Capital Improvement Plan
- Field Operations

#### FUTURE CHWD BOARD OF DIRECTORS MEETING DATES

Dates and locations of upcoming Regular Meetings of the Board of Directors were noted for the calendar.

#### ADJOURNMENT

There being no other business to come before the Board, the meeting was adjourned at 7:52 p.m.

APPROVED:

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ROBERT A. CHURCHILL  
Secretary  
Citrus Heights Water District

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ALLEN B. DAINS, President  
Board of Directors  
Citrus Heights Water District

CITRUS HEIGHTS WATER DISTRICT  
2016 REVENUE ANALYSIS

Mo-Yr	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Acutal Revenue	Budgeted		% Collected
							Revenue	Variance	
Metered Service Charges	99,738	346,471	750,526	530,498	648,666	2,375,899	7,609,121	5,233,222	31.2%
Metered Water Deliveries	35,969	118,197	180,494	144,723	229,594	708,978	4,581,136	3,872,158	15.5%
Irrig		0	0			0	0	0	0.0%
Apt/MH		0	0			0	0	0	0.0%
Penalties	17,458	12,003	15,564	13,906	11,522	70,452	150,000	79,548	47.0%
Interest		0		0	26	26	0	-26	0.0%
New Acct, Fire & Backflow									
Fees	8,550	12,603	9,758	13,813	7,909	52,634	95,866	43,232	54.9%
WS Install & S&R	8,360	4,598	6,501	0	11,800	31,259	26,626	-4,633	117.4%
Grant Funds		540,000	0	0	60,000	600,000	0	-600,000	0.0%
Misc*	6,052	1,416	15,603	2,318	52,164	77,554	120,510	42,956	64.4%
Connection Fees	15,037	6,683	6,683	0	0	28,403			
Wheeling Water	2,217	0	0	0	0	2,217	4,429	2,212	50.1%
Reserves							0	0	0.0%
<b>Total</b>	<b>193,380</b>	<b>1,041,971</b>	<b>985,129</b>	<b>705,258</b>	<b>1,021,682</b>	<b>3,947,421</b>	<b>12,587,688</b>	<b>8,640,267</b>	<b>31.4%</b>

**Outstanding Recievables**

Aged Trial Balance				
Total <sub>1</sub>	Current	31-90	91-150	>150
			Unapplied Current	Deposit Amount
671,965	681,272	68,290	7,164	10,281
			(95,042)	245,782

General Ledger Balance	Total
Outstanding A/R	702,816
Outstanding Liens	0
Outstanding Grants	61,211
Less Unapplied Payments	(101,610)
<b>Total<sub>1</sub></b>	<b>\$ 662,417</b>

\* Includes Assessments, Inclusions, Back Charges, Capacity Fees and other Miscellaneous Revenue Sources

<b>Assessor/Collector Roll Adjustment</b>		
<b>May-16</b>		
	<b>Dollar</b>	<b>Count</b>
<b>One Time Courtesy</b>		
One Time Courtesy	\$ 57.52	11
<b>One Time Courtesy Total</b>	<b>\$ 57.52</b>	<b>11</b>
<b>New Owner</b>		
New Owner	\$ 22.00	1
<b>New Owner Total</b>	<b>\$ 22.00</b>	<b>1</b>
<b>Grand Total</b>	<b>\$ 79.52</b>	<b>12</b>



ASSESSOR/COLLECTOR'S ROLL ADJUSTMENTS FOR  
May 31, 2016

Board Of Directors  
Citrus Heights Water District

Pursuant to Policy No. 7315 the following charges have been cancelled.

LID	CID	Charge Type	Date	Reason For Cancellation	Amount
02828	0028769	One Time Courtesy	5/11/2016	One Time Courtesy	3.50
20669	0017036	One Time Courtesy	5/11/2016	One Time Courtesy	5.58
14252	0012650	One Time Courtesy	5/12/2016	One Time Courtesy	3.94
01966	0024254	One Time Courtesy	5/12/2016	One Time Courtesy	0.62
11462	0010145	One Time Courtesy	5/17/2016	One Time Courtesy	3.50
02137	0024502	One Time Courtesy	5/2/2016	One Time Courtesy	4.25
12367	0018100	One Time Courtesy	5/23/2016	One Time Courtesy	22.00
03175	0002892	New Owner	5/23/2016	New Owner	22.00
08194	0007330	One Time Courtesy	5/23/2016	One Time Courtesy	3.46
20555	0032095	One Time Courtesy	5/25/2016	One Time Courtesy	3.46
04249	0021299	One Time Courtesy	5/31/2016	One Time Courtesy	3.64
15127	0013389	One Time Courtesy	5/4/2016	One Time Courtesy	3.57
					<u>\$ 79.52</u>

**TREASURER'S REPORT TO THE BOARD OF DIRECTORS  
CITRUS HEIGHTS WATER DISTRICT  
Month of May 2016**

<b>Bank of the West</b>			
<b>Balance Per Bank April 2016</b>			\$2,404,007
<b>RECEIPTS:</b>		789,777	
<b>DISBURSEMENTS:</b>			
Checks Issued / ACH Payments	805,288		
Payroll	235,099		
Returned Checks	410		
	1,040,796		(251,019)
<b>Bank of the West</b>			
<b>Balance per Bank April 30, 2016</b>			2,152,988
Add :Outstanding Checks			224,727
Less: Deposit in Transit			(22,805)
			\$2,354,910

<b>RECONCILEMENT:</b>			
Bank of the West			\$2,354,909
Local Agency Investment Fund			6,046,968
COP Reserve Account			533,354
Money Mkt Activity Account			530,453
			\$9,465,684
<b>TOTAL BALANCE</b>			<b>\$9,465,684</b>

<b>CASH &amp; INVESTMENT SUMMARY:</b>			
Bank of the West (General Account)			\$2,354,909
Local Agency Investment Fund			6,046,968
COP 2010 Reserve Account			533,354
Money Mkt Activity Account			530,453
<b>Total</b>			<b>\$9,465,684</b>

INSTITUTION	MATURITY DATE	INT RATE	DEPOSIT AMOUNT	DATE OF LAST TRANSACTION
Local Agency Investment Fund	Daily	0.32%	4,928.02	1/14/2016

I certify that this report accurately reflects all pooled investments and is in compliance with applicable State of California Government Codes and is in conformity with Investment of District Funds Policy 6300. As Treasurer of the Citrus Heights Water District, I hereby certify that sufficient investment liquidity and anticipated revenue are available to meet the next six months' estimated expenditures.

  
**HILARY M. STRAUS, Treasurer**

  
**ROBERT CHURCHILL, Secretary**

TREASURER'S REPORT OF FUND BALANCES  
 May 31, 2016

	Beginning Balance 1/1/2016	Year to Date Transfers In / Collections	Year to Date Transfers Out	Current Month Transfers In / Collections	Current Month Transfers Out	4/30/2016 Ending Balance	2016 Target Balance per Policy
Connection Fund	\$ -					\$ -	N/A
Operating Fund	\$ 3,611,289					\$ 3,611,289	\$1,918,930
Operating Reserve	\$ 1,912,263					\$ 1,912,263	N/A
Rate Stabilization Fund	\$ 634,000					\$ 634,000	\$1,000,000
Depreciation Reserve	\$ 808,169					\$ 808,169	\$949,000
Capital Improvement Reserve	\$ 845,857					\$ 845,857	\$2,370,756
Restricted for Debt Service	\$ 536,963					\$ 536,963	N/A
Fleet Equipment Reserve	\$ 291,569					\$ 291,569	\$296,708
Employment-Related Benefits Reserve	\$ 396,310					\$ 396,310	\$864,229
	<u>\$ 9,036,420</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 9,036,420</u>	

CITRUS HEIGHTS WATER DISTRICT  
 2016 OPERATING EXPENDITURE VS BUDGET  
 May 31, 2016

Account	Description	2016 MTD Expense	2016 YTD Expense	2016 Budget	Variance \$	Variance %
<b>Water Demand Management</b>						
	WATER DEMAND MANAGEMENT - POSTAGE	-	-	14,000	14,000	0.0%
	WATER DEMAND MANAGEMENT - PRINTING	-	2,554	25,000	22,446	10.2%
	WATER DEMAND MANAGEMENT - MATERIALS AND SUPPLIES	251	5,238	11,500	6,262	45.6%
	WATER DEMAND MANAGEMENT - CONTRACT SERVICES	43,865	85,739	221,000	135,261	38.8%
	WATER DEMAND MANAGEMENT - OTHER	-	3,774	8,000	4,226	47.2%
	WATER DEMAND MANAGEMENT - INCENTIVE PROGRAMS	3,150	6,300	3,000	(3,300)	210.0%
		<b>47,267</b>	<b>103,605</b>	<b>282,500</b>	<b>178,895</b>	<b>36.7%</b>
<b>Operations</b>						
	PURCHASED WATER	-	895,890	2,387,701	1,491,811	37.5%
	COOPERATIVE TRANSMISSION PIPELINE MAINTENANCE	-	-	5,000	5,000	0.0%
	POWER TO WELLS	12,627	48,885	244,904	196,019	20.0%
	WELLS - REPAIR / MAINTENANCE	1,816	3,035	22,000	18,965	13.8%
	WATER QUALITY ANALYSIS	528	8,178	41,000	32,822	19.9%
	FIELD MISCELLANEOUS - DUMP FEES	198	1,010	1,000	(10)	0.0%
	FIELD MISCELLANEOUS - OTHER	-	16	1,000	984	1.6%
	SMALL TOOLS - FIELD	1,751	13,012	23,400	10,388	55.6%
	SUPPLIES - FIELD	2,815	10,138	19,000	8,862	53.4%
	MATERIALS	13,486	124,883	6,000	(118,883)	2081.4%
	MATERIALS (Allocation to CIP)	-	(59,805)	-	-	0.0%
	ROADBASE	-	10,926	20,000	9,074	54.6%
	MAINTENANCE AGREEMENTS - EQUIPMENT	19	3,407	6,700	3,293	50.9%
	MAINTENANCE AGREEMENTS - SOFTWARE	5,350	114,571	1,343,322	1,228,751	8.5%
	REPAIR - FLEET EQUIPMENT	4,524	19,504	40,000	20,496	48.8%
	REPAIR - TOOLS AND EQUIPMENT	280	9,915	12,000	2,085	82.6%
	GAS AND OIL	3,757	12,265	51,000	38,735	24.0%
	EQUIPMENT RENTAL - FIELD	(400)	3,291	3,000	(291)	109.7%
	EQUIPMENT RENTAL & MAINT - OFFICE & BUILDING EQUIP	1,269	4,247	14,366	10,119	29.6%
	EQUIPMENT (Allocation to CIP)	-	(59,805)	-	-	0.0%
	PERMIT FEE - AIR QUALITY / HAZ MAT	-	2,374	5,700	3,327	41.6%
	PERMIT FEE - STATE WATER RESOURCES CONTROL BOARD (SWRCB)	-	6,618	14,000	7,382	47.3%
	PERMIT FEE - ENCROACHMENT PERMITS	-	4,008	44,000	39,992	9.1%
		<b>48,020</b>	<b>1,176,561</b>	<b>4,305,093</b>	<b>3,008,922</b>	<b>27.3%</b>
<b>Professional &amp; Contract Services</b>						
	PROFESSIONAL / CONTRACT SERVICES - ENGINEERING	2,150	275	20,000	19,725	1.4%
	PROFESSIONAL / CONTRACT SERVICES - TEMPORARY LABOR	14,364	54,174	50,000	(4,174)	108.3%
	PROFESSIONAL / CONTRACT SERVICES - WELLS	-	-	-	-	0.0%
	PROFESSIONAL / CONTRACT SERVICES - OFFICE LABOR	3,833	52,277	130,000	77,723	0.0%
	PROFESSIONAL / CONTRACT SERVICES - METER READING	11,275	46,390	108,960	62,570	42.6%
	PROFESSIONAL / CONTRACT SERVICES - BILL PRINT/MAIL	2,516	14,512	27,600	13,088	52.6%
	PROFESSIONAL / CONTRACT SERVICES - FINANCIAL	-	1,480	5,000	3,520	0.0%
	PROFESSIONAL / CONTRACT SERVICES - OTHER	12,416	60,258	133,460	73,202	45.2%
	CONTRACT SERVICES - CONCRETE	-	-	8,000	8,000	0.0%
	CONTRACT SERVICES - MISC FIELD / O&M	-	13,260	30,000	16,740	44.2%
	CONTRACT SERVICES - OFFICE REPAIRS / MAINT	-	1,099	2,000	901	55.0%
	CONTRACT SERVICES - PAVING	-	1,791	9,000	7,209	19.9%
		<b>46,553</b>	<b>245,515</b>	<b>524,020</b>	<b>278,505</b>	<b>46.9%</b>
<b>Administration &amp; General Services</b>						
	JANITORIAL	1,212	3,965	11,100	7,135	35.7%
	BANK FEES	6,488	30,714	71,000	40,286	43.3%
	OFFICE EXPENSE	1,572	7,017	15,000	7,983	46.8%
	SMALL OFFICE EQUIPMENT	-	4,551	2,000	(2,551)	227.6%
	DUES & SUBSCRIPTIONS	2,775	57,959	112,210	54,251	51.7%
	POSTAGE	9,982	49,821	103,000	53,179	48.4%
	PRINTING	-	610	7,700	7,090	7.9%
	TELEPHONE - WIRELESS	1,140	5,845	16,800	10,955	34.8%
	TELEPHONE - LOCAL / LONG DISTANCE	1,814	11,226	12,500	1,275	89.8%
	TELEPHONE - ANSWERING SERVICE	190	651	2,400	1,749	27.1%
	UTILITIES	2,063	9,821	19,700	9,879	49.9%

CITRUS HEIGHTS WATER DISTRICT  
2016 OPERATING EXPENDITURE VS BUDGET  
May 31, 2016

Account	Description	2016 MTD Expense	2016 YTD Expense	2016 Budget	Variance \$	Variance %
	LEGAL & AUDIT	-	31,163	78,900	47,737	39.5%
	CONTINUED EDUCATION	10,376	17,681	45,780	28,099	38.6%
	PUBLICATION NOTICES	53	196	1,500	1,304	13.1%
	OFFICE MISC - DISTRICT EVENTS	333	1,205	5,110	3,905	23.6%
	OFFICE MISC - MEETING ACCOMODATIONS	210	467	2,000	1,533	23.4%
	OFFICE MISC - OTHER	150	1,128	2,200	1,072	51.3%
	OFFICE MISC - MILESTONE EVENTS	-	-	5,100	5,100	0.0%
	BAD DEBT EXPENSE	-	192	5,000	4,808	3.8%
	COMPUTER SOFTWARE	-	250	3,700	3,450	6.8%
		<b>38,358</b>	<b>234,465</b>	<b>522,700</b>	<b>288,235</b>	<b>44.9%</b>
<b>Administration Other</b>						
	ELECTION EXPENSE	-	-	29,000	29,000	0.0%
	DIRECTORS MEETING COMPENSATION	1,160	5,365	20,300	14,935	26.4%
	RETIREE HEALTH CARE BENEFIT	2,991	14,555	43,547	28,993	33.4%
		<b>4,151</b>	<b>19,920</b>	<b>92,847</b>	<b>72,928</b>	<b>21.5%</b>
<b>Salary &amp; Benefits</b>						
	SALARY - GENERAL MANAGER	17,526	70,068	162,016	91,948	43.2%
	SALARY - MANAGER (3 authorized positions)	60,654	99,998	219,132	119,134	45.6%
	SALARY - OFFICE (6 authorized positions)	37,084	89,618	374,100	284,482	24.0%
	SALARY -WATER DEMAND MANAGEMENT (2 authorized positions)	14,901	56,341	156,088	99,747	36.1%
	SALARY - FIELD / O&M (15 authorized positions)	98,633	405,600	1,118,893	713,293	36.3%
	STANDBY DUTY	1,380	6,810	17,940	11,130	38.0%
	SALARY - PROJECT MNGMT & ENGINEERING	(20,096)	56,754	315,145	-	0.0%
	EMPLOYEE BENEFIT - VISION INSURANCE	753	5,701	5,100	(601)	111.8%
	EMPLOYEE BENEFIT - DENTAL INSURANCE	2,990	27,237	43,200	15,963	63.0%
	EMPLOYEE BENEFIT - HEALTH INSURANCE	29,046	158,190	375,272	217,082	42.2%
	EMPLOYEE BENEFIT - PERS RETIREMENT	29,583	267,555	422,544	154,989	63.3%
	EMPLOYEE BENEFIT - SOCIAL SECURITY	13,815	55,140	153,444	98,304	35.9%
	EMPLOYEE BENEFIT - MEDICARE	3,231	12,896	35,886	22,990	35.9%
	EMPLOYEE BENEFIT - UNEMPLOYMENT INSURANCE	97	5,744	7,875	2,131	72.9%
	EMPLOYEE BENEFIT - HEALTH INSURANCE REIMBURSEMENT	2,532	13,102	26,000	12,898	50.4%
	EMPLOYEE SALARY AND BENEFITS - (Allocation to CIP)	-	(210,067)	(339,867)	(129,800)	61.8%
		<b>292,127</b>	<b>1,120,686</b>	<b>3,092,768</b>	<b>1,713,690</b>	<b>36.2%</b>
<b>Insurance</b>						
	INSURANCE - LIABILITY & COMPREHENSIVE	-	78,001	75,300	(2,701)	103.6%
	INSURANCE - DISABILITY & LIFE	1,972	15,401	28,300	12,899	54.4%
	INSURANCE - WORKER'S COMPENSATION	-	-	54,319	54,319	0.0%
		<b>1,972</b>	<b>93,401</b>	<b>157,919</b>	<b>64,518</b>	<b>59.1%</b>
<b>Reserves &amp; Debt Services</b>						
	RATE STABLIZATION RESERVE	-	-	-	-	0.0%
	DEPRECIATION RESERVE	-	-	1,001,744	1,001,744	0.0%
	CAPITAL IMPROVEMENT RESERVE	-	-	1,000,000	1,000,000	0.0%
	EMPLOYMENT-RELATED BENEFITS RESERVE	-	-	-	-	0.0%
	DEBT SERVICE - COP SERIES 2010	-	50,503	571,200	520,697	8.8%
	DEBT SERVICE - COP SERIES 2012	-	122,436	169,063	46,627	72.4%
		<b>-</b>	<b>172,938.68</b>	<b>2,742,007.00</b>	<b>2,569,068.32</b>	<b>6.3%</b>
		<b>478,448</b>	<b>\$ 3,167,091</b>	<b>\$ 11,719,854</b>	<b>\$ 8,174,761</b>	<b>27.02%</b>

Citrus Heights Water District  
 Capital Projects Summary  
 Fiscal Period End as of May 2016

Project No.	Description	Budget		Remaining Commitments		Amounts Paid		Remaining Projections		
		Total Project Budget	Adopted Budget 2016	Expenditures to 12/2015	Total Remaining Commitments	Current Unpaid Committed	Month to Date	Year to Date	Project to date	2017
2015-31	Baird Way 12" Water Main Replacement Project	504,283		5,698	498,586	-	-	-	5,698	476,781
2015-32	Graham Circle 6" and Circuit Drive 8" Water Main Replacement Project		24,619	-	-	-	-	-	-	-
2015-33	Highland Avenue 8" Main Replacement and Rosa Vista Avenue 8" Main Installation Project	396,672		-	396,672	-	-	-	-	372,053
2015-34	Michigan Drive 8" / 6" Water Main Replacement Project			-	-	-	-	-	-	-
2015-35	Sunrise Blvd Streetscape Phase III			162,183	(162,183)	-	-	-	-	-
2015-36	Sylvan Road Street Improvements			4,161	(4,161)	-	-	-	-	-
2016-31	Wind Way 8-Inch and Longwood Way 6-Inch Water Main Replacements	324,446		-	324,446	-	-	-	-	163,266
2016-34	Auburn Blvd - Rusch Park to Placer County Line	158,252	8,968	-	158,252	-	-	-	-	4,161
<b>Distribution Mains - Replacement</b>		<b>1,383,653</b>	<b>33,587</b>	<b>172,041</b>	<b>728,914</b>	-	-	-	-	<b>323,446</b>
2016-14	Fire Hydrants - Replacements / Upgrades / Infill / New	147,092	147,092	-	147,092	-	-	-	-	-
<b>Fire Hydrants - Replacements/Upgrades/New</b>		<b>147,092</b>	<b>147,092</b>	-	<b>147,092</b>	-	-	-	-	-
2015-02	Annual Corporation Yard Improvements/Replacements	109,500	109,500	-	109,500	-	-	-	-	-
2016-03	Annual Fleet and Field Operations Equipment Improvements/Replacements	32,200	32,200	-	32,200	-	-	-	-	8,635
2015-04	Annual Technology Hardware and Software Improvements/Replacements	750,000	300,000	3,356	746,644	-	-	-	-	75,000
2016-04	Annual Technology Hardware and Software Improvements/Replacements	38,934	38,934	-	38,934	-	-	-	-	450,000
2016-10	Water Main Pipeline Replacements	28,465	28,465	-	28,465	-	-	-	-	-
2016-11	Water Valve Replacements	91,281	91,281	-	91,281	-	-	-	-	-
2016-12	Water Service Replacements	757,685	757,685	-	757,685	-	-	-	-	-
2015-38	Mariposa Avenue 12" Water Main Replacement Project	27,111	27,111	-	27,111	-	-	-	-	-
2015-39	Mariposa Avenue 12" Water Main Replacement Project			4,064	(4,064)	-	-	-	-	-
2016-40	Other City Partnership Opportunities	99,057	99,057	-	99,057	-	-	-	-	-
2016-41	Other Miscellaneous Infrastructure Projects	99,057	99,057	-	99,057	-	-	-	-	-
<b>Miscellaneous Projects</b>		<b>2,033,290</b>	<b>1,583,290</b>	<b>7,420</b>	<b>2,025,870</b>	-	-	-	-	<b>149,284</b>
2012-13	Administration Building Expansion / Renovation Project	100,000	100,000	1,205,171	-	-	-	-	-	-
2015-41	Other Miscellaneous Infrastructure Projects - Admin Building Extension			-	-	-	-	-	-	-
2016-25	Other Miscellaneous Infrastructure Projects - Admin Building Extension			1,205,171	-	-	-	-	-	-
<b>Miscellaneous Projects - Facilities</b>		<b>483,671</b>	<b>225,591</b>	<b>312,473</b>	<b>171,198</b>	-	-	-	-	<b>409,464</b>
2013-30	San Juan High School 24" North Property Line Transmission Main Installation					-	-	-	-	-
2014-36	Center	348,800	198,842	177,630	171,170	-	-	-	-	-
2015-30	Poplar Avenue 14" Transmission Main Installation	112,335	99,655	4,756	107,579	-	-	-	-	-
<b>Transmission Mains - New</b>		<b>944,806</b>	<b>524,088</b>	<b>494,858</b>	<b>449,948</b>	-	-	-	-	<b>663,257</b>
2014-33	Mariposa Avenue 18" & 8" Sycamore Drive to Pratt Avenue	775,110	775,110	414,356	-	-	-	-	-	-
2016-30	Mariposa Avenue 12-inch Mains and Limerick Way 8-Inch Main Replacements	775,110	775,110	10,214	764,897	-	-	-	-	-
<b>Transmission Mains - New and Distribution Mains - Replacement</b>		<b>775,110</b>	<b>775,110</b>	<b>424,570</b>	<b>764,897</b>	-	-	-	-	<b>455,606</b>
2016-13	Water Meter Replacements	53,158	53,158	-	53,158	-	-	-	-	-
<b>Water Meters</b>		<b>53,158</b>	<b>53,158</b>	-	<b>53,158</b>	-	-	-	-	-
2011-01	Fair Way 12" x 8" Interconnection w/ RV	28,105	28,105	-	28,105	-	-	-	-	-
2012-09	Blossom Hill Drive 6" x 10" Interconnection w/ RV	25,480	25,480	-	25,480	-	-	-	-	-
2012-10	Crestmont Avenue 6" Interconnection w/ RV	19,980	19,980	-	19,980	-	-	-	-	-
2013-21	Skycrest Skycrest Construction	2,081,569		2,145,695	-	-	-	-	-	-
2016-20	Groundwater Well Improvements	48,900	48,900	-	48,900	-	-	-	-	-
2015-37	C-Bar-C Pressure Control Station	200,000	200,000	-	200,000	-	-	-	-	-
<b>Water Meters - Emergency Intertie Water Meters</b>		<b>2,404,034</b>	<b>322,465</b>	<b>2,145,695</b>	<b>322,465</b>	-	-	-	-	<b>2,379,703</b>
<b>Grand Total</b>		<b>7,741,143</b>	<b>3,438,790</b>	<b>4,449,756</b>	<b>4,492,343</b>	-	-	-	-	<b>1,846,564</b>

## MAY, 2016 WARRANTS

60621A	Farbod Madani	Customer Refund	\$163.90
61486	CalSierra Construction Inc	Contract Services/Engineering	\$8,693.05
61487	Consolidated	Telephone-Local/Long Distance	\$9,165.29
61488	J Crowley Group Inc	Contract Services-Water Conservation	\$9,360.00
61489	Lamon Construction CO, INC	Contract Services/Engineering	\$11,551.04
61490	Ernest L Leporini	Contract Services/Engineering	\$9,840.00
61491	R E Smith Contractor Inc	Contract Services-Wells	\$92,049.97
61492	San Juan Water District	Purchased Water	\$432,773.19
61493	SMUD	Utilities	\$9,738.88
61494	Cheryl L Khalar	Customer Refund	\$120.29
61495	Stephanie Schmittner	Customer Refund	\$22.15
61496	Michael A/ Denise D Bozzuto	Customer Refund	\$27.12
61497	Family Dream Homes LLC	Customer Refund	\$9.05
61498	Saratoga Group/Terrawood US Real Estate	Customer Refund	\$177.73
61499	Richard or Aphra Adams	Toilet Rebate Program	\$75.00
61500	Craig R or Enid T Bivins	Toilet Rebate Program	\$75.00
61501	California Landscape Associates Inc	Janitorial	\$200.00
61502	California Surveying & Drafting Supply	Small Tools	\$5.00
61503	Caltronics Business System	Small Office Equipment	\$562.68
61504	Michael Cerecedes	Contract Services-Water Conservation	\$100.00
61505	Richard T or Erica J Coleman	Toilet Rebate Program	\$75.00
61506	Robin Cope	Health Insurance	\$402.00
61507	Corix Water Products, Inc	Material	\$3,885.74
61508	Coverall North America Inc	Janitorial	\$450.00
61509	Cybox	Equipment Rental-Office	\$139.45
61510	Charles or Kathleen Dutter	Customer Refund	\$35.61
61511	Robin Emmond	Contract Services-Water Conservation	\$100.00
61512	Jesse or Laura Fuller	Toilet Rebate Program	\$75.00
61513	William S or Judith M Greenan	Customer Refund	\$75.00
61514	Ferguson Enterprises Inc #1423	Material	\$6,745.68
61515	Hanson, Kristie	Contract Services-Water Conservation	\$100.00
61516	J4 Systems	Contract Services-Other	\$660.00
61517	Karen Jacoby	Customer Refund	\$75.00
61518	Kei Window Cleaning #12	Janitorial	\$92.00
61519	Valerian J or Aileen J Kobza	Toilet Rebate Program	\$75.00
61520	Joseph A or Judith A Kula	Toilet Rebate Program	\$150.00
61521	David P or Deborah A Moon	Toilet Rebate Program	\$150.00
61522	Moonlight BPO	Contract Services-Bill Print/Mail	\$1,875.05
61523	MSDSonline, Inc.	Small Tools	\$2,337.00
61524	Pacific Mechanical Services Inc	Contract Services-Repair/Maintenance	\$631.97
61525	Republic Services #922	Utilities	\$194.97
61526	The Sacramento Gazette	Publication Notices	\$67.95
61527	Robert E or Mary M Slocum	Toilet Rebate Program	\$150.00
61528	Sonitrol	Equipment Rental-Office	\$162.27
61529	Barbara J Stratton	Toilet Rebate Program	\$150.00
61530	Anna Swanson	Toilet Rebate Program	\$75.00
61531	Maya Taff	Contract Services-Water Conservation	\$50.00
61532	A. Teichert & Son, Inc.	Road Base	\$1,223.83
61533	Kevin Vasquez	Contract Services-Water Conservation	\$100.00
61534	Eden Webb	Contract Services-Water Conservation	\$50.00
61535	William M Korn	Customer Refund	\$123.42
61536	Elliot Kouri	Customer Refund	\$111.72
61537	Gary/Sandra Tice	Customer Refund	\$46.17
61538	SRP 12 LLC	Customer Refund	\$526.83

61539	Nicholas A West	Customer Refund	\$35.54
61540	Patricia R Santos	Customer Refund	\$106.16
61541	H2H Solutions Inc	Customer Refund	\$126.52
61542	Daniel G Craighead	Customer Refund	\$64.55
61543	Philip/Lynn Conner	Customer Refund	\$130.86
61544	James/Laura Peterson	Customer Refund	\$9.85
61545	Terry Kyriacou	Customer Refund	\$175.66
61546	AFLAC	Employee Paid Insurance	\$362.66
61547	Alexander's Contract Services	Contract Services-Meter Reading	\$2,023.48
61548	AnswerNet	Telephone-Answer Service	\$190.01
61549	Aqua Sierra Controls	Wells Maintenance	\$250.00
61550	Astral Communications Inc	Telephone-Wireless	\$30.00
61551	Blackbird Associates	Contract Services/Engineering	\$5,547.82
61552	College Oak Towing	Repair-Trucks	\$227.50
61553	Corix Water Products, Inc	Material	\$6,782.40
61554	CSDA	Dues & Subscriptions	\$7,915.70
61555	Employee Relations Inc	Contract Services-Other	\$44.85
61556	Robyn J Evans	Continued Education	\$103.65
61557	Tim Hewlett	Contract Services-Other	\$2,000.00
61558	Holdcom	Telephone-Local/Long Distance	\$305.10
61559	J4 Systems	Contract Services-Other	\$3,427.67
61560	KBA DOCUSYS	Maintenance Agreement-Equipment	\$18.84
61561	KBA Docusys Inc	Equipment Rental-Office	\$343.43
61562	L and D Landfill	Contract Services-Miscellaneous	\$198.00
61563	Mitch's Certified Classes	Continued Education	\$1,150.00
61564	Moonlight BPO	Contract Services-Bill Print/Mail	\$2,614.49
61565	Pirtek Power Inn	Repair-Trucks	\$138.37
61566	Protection One Alarm Monitoring	Equipment Rental-Office	\$140.00
61567	RUE EQUIPMENT	Repair Equipment/Hardware	\$279.50
61568	SAWWA	Dues & Subscriptions	\$1,600.00
61569	SureWest Directories	Telephone-Local/Long Distance	\$49.00
61570	Titan Workforce LLC	Contract Services-Temporary Labor	\$2,579.00
61571	Tully & Young Inc	Contract Services/Engineering	\$2,150.00
61572	Twin Home Services	Janitorial	\$270.00
61573	Zee Medical Company	Supplies-Field	\$110.22
61574	Reiner Family Revocable Trust	Customer Refund	\$72.36
61575	Michael Jr/Jennifer Corrales	Customer Refund	\$6.29
61576	Christophore/Eleftheria Paidas	Customer Refund	\$5.74
61577	Void	Void	\$0.00
61578	Sean H/Julie M Mann	Customer Refund	\$201.23
61579	Elizabeth Christen	Customer Refund	\$248.23
61580	Kristine Keller	Customer Refund	\$100.91
61581	Ryan/Summer Thibault	Customer Refund	\$57.74
61582	Candace S Marty	Customer Refund	\$150.00
61583	Thomas M/Beatrice E Cesarz	Customer Refund	\$170.23
61584	Alexander's Contract Services	Contract Services-Meter Reading	\$1,867.54
61585	Bryce Consulting, Inc	Legal & Audit	\$4,680.00
61586	BSK Associates	Water Analysis	\$288.00
61587	Burketts	Office Expense	\$462.75
61588	Messenger Publishing Group	Dues & Subscriptions	\$400.00
61589	Consolidated	Telephone-Local/Long Distance	\$1,460.11
61590	Corelogic Information Solutions Inc	Dues & Subscriptions	\$219.83
61591	Corix Water Products, Inc	Material	\$1,685.88
61592	Dawson Oil Company	Gas & Oil	\$1,429.16
61593	J4 Systems	Contract Services-Other	\$650.00
61594	Kaiser Foundation Health Plan, Inc	Health Insurance	\$14,287.76
61595	Rex Meurer	Water Conservation-Materials/Supplies	\$82.03



61596	Moonlight BPO	Contract Services-Bill Print/Mail	\$1,333.81
61597	Office Depot	Office Expense	\$62.63
61598	Pace Supply Corp	Material	\$3,140.84
61599	Pacific Gas & Electric	Utilities	\$12.38
61600	Rescue Training Institute Inc	Fixed Assets	\$1,375.00
61601	RW Trucking	Contract Services-Miscellaneous	\$2,687.50
61602	SMUD	Utilities	\$1,364.44
61603	State Water Resources Control Board	Dues & Subscriptions	\$105.00
61604	Titan Workforce LLC	Contract Services-Temporary Labor	\$2,639.00
61605	ULINE	Supplies-Field	\$305.00
61606	Voyager Fleet Systems Inc	Gas & Oil	\$1,667.46
61607	California State Disbursement Unit	Garnishment	\$184.61
61608	California State Disbursement Unit	Garnishment	\$87.69
61609	Larry R/Wanda M Gawlik	Customer Refund	\$119.40
61610	Barbara C. Cantrell Living Trust	Customer Refund	\$59.23
61611	Sandra A Artesi	Customer Refund	\$10.42
61612	John N/Lynn McClain	Customer Refund	\$19.29
61613	William J Healey	Customer Refund	\$82.21
61614	Jesus C Hernandez	Customer Refund	\$14.84
61615	Idean Mostafavi	Customer Refund	\$24.43
61616	Richard D/Alane J Scott	Customer Refund	\$509.00
61617	Dustin R/Shannon D Scott	Customer Refund	\$14.78
61618	Shay M/ Lori M Orr	Customer Refund	\$13.68
61619	Tronvig Family Trust	Customer Refund	\$57.05
61620	Mica Solarov	Customer Refund	\$19.82
61621	Rebecca M Bogner	Customer Refund	\$36.73
61622	Brent M Golubski	Customer Refund	\$9.01
61623	Carl/Paulina Duxbury	Customer Refund	\$10.64
61624	Area X Inc	Customer Refund	\$44.43
61625	Yuriy/ Alla V Vorobets	Customer Refund	\$30.84
61626	Wunschel & Sons, Inc.	Customer Refund	\$1,577.88
61627	Jackie Adams	Toilet Rebate Program	\$150.00
61628	Blackbird Associates	Contract Services/Engineering	\$1,164.16
61629	Delores J Brown	Customer Refund	\$150.00
61630	CirclePoint	Water Conservation-Contract Services	\$2,416.01
61631	Allen B Dains	Customer Refund	\$955.87
61632	Future Ford	Repair-Trucks	\$471.10
61633	Ferguson Enterprises Inc #1423	Material	\$2,176.50
61634	Integrity Administrators Inc	Health Insurance	\$5,277.20
61635	David B or Vivian C Janzen	Customer Refund	\$51.58
61636	Douglas Lent	Toilet Rebate Program	\$150.00
61637	Moonlight BPO	Contract Services-Bill Print/Mail	\$2,746.11
61638	Rudy Prado	Toilet Rebate Program	\$75.00
61639	Proud AV Inc	Contract Services-Other	\$1,000.00
61640	Regional Water Authority	Dues & Subscriptions	\$169.21
61641	The Sacramento Gazette	Publication Notices	\$52.85
61642	John S Senos	Toilet Rebate Program	\$150.00
61643	Sophos Solutions	Contract Services-Other	\$4,480.00
61644	Frank Tharp	Toilet Rebate Program	\$75.00
61645	Verizon Wireless	Telephone-Wireless	\$1,110.08
61646	Gregory M or Karla S Wanec	Toilet Rebate Program	\$150.00
61647	Susan Watson	Toilet Rebate Program	\$75.00
61648	Menard Revocable Trust	Customer Refund	\$41.72
61649	Andrew L Tomlinson	Customer Refund	\$8.18
61650	ABA DABA Rentals & Sales	Supplies-Field	\$252.20
61651	AFLAC	Employee Paid Insurance	\$362.66

61652	Alexander's Contract Services	Contract Services-Meter Reading	\$2,638.27
61653	Bart/Riebes Auto Parts	Repair-Trucks	\$84.74
61654	Bennett Engineering Services, Inc	Contract Services/Engineering	\$3,634.50
61655	California Landscape Associates Inc	Janitorial	\$200.00
61656	Dawson Oil Company	Gas & Oil	\$660.79
61657	Grainger	Small Tools	\$168.10
61658	Brian M Hensley	Continued Education	\$663.20
61659	J4 Systems	Contract Services-Other	\$1,164.70
61660	Kei Window Cleaning #12	Janitorial	\$92.00
61661	Susan McDonald	Customer Refund	\$142.51
61662	Moonlight BPO	Contract Services-Bill Print/Mail	\$2,872.71
61663	Paladin Private Security	Contract Services-Other	\$6,154.50
61664	Regional Water Authority	Dues & Subscriptions	\$500.00
61665	Sylvan Supply	Repair-Trucks	\$1,795.56
61666	The Lincoln National Life Insurance Company	Disability & Life Insurance	\$5,806.42
61667	Titan Workforce LLC	Contract Services-Temporary Labor	\$2,699.90
61668	TriFresh Technologies, Inc.	Wells Maintenance	\$1,156.00
<b>TOTAL</b>			<u>\$747,660.99</u>

ACH	WHA JUNE 2016	Health Insurance	\$15,805.94
ACH	BOW APRIL 2016	Bank Fee	\$2,511.51
ACH	VALIC 5/19/16 PAYDAY	Deferred Compensation	\$1,970.00
ACH	VANCO APRIL 2016	Contract Services-Other	\$73.10
ACH	PAYCHEX SERVICE FEE	Contract Services-Other	\$378.55
ACH	ELAVON APRIL2016 WB	Bank Fee	\$3,427.17
ACH	ELAVON APRIL2016FD	Bank Fee	\$278.35
ACH	ELAVON APRIL2016PH	Bank Fee	\$216.37
ACH	CK DEPOSIT SLIP	Bank Fee	\$54.64
ACH	PAYROLL 5/5/16 PAYDAY	PERS	\$18,119.40
ACH	PERS 5/19/16 PAYDAY	PERS	\$12,731.73
ACH	VALIC 5/5/16 PAYDAY	Deferred Compensation	\$1,970.00
ACH	VOYA 5/19/16 PAYDAY	Deferred Compensation	\$45.00
ACH	VOYA 5/5/16 PAYDAY	Deferred Compensation	\$45.00
<b>TOTAL</b>			<u>\$57,626.76</u>

**GRAND TOTAL** \$805,287.75

**June Checks Approved At June Board Meeting**

61680	GM Construction & Developers	Contract Services-Miscellaneous	\$9,915.50
61683	US Bank I.M.P.A.C. Government Services	See Agenda Item CC:9	\$10,312.92
61681	Ernest L Leporini	Contract Services-Engineering	\$11,040.00
61682	SMUD	Utilities	\$13,128.05
61679	J Crowley Group Inc	Water Conservation -Other	\$16,560.00
			<u>\$60,956.47</u>

**US BANK - CAL-Card Distributions**

May 2016

*i:/users/lap/CalCard/(current year) -Distribution for monthly payment.xls*

<b>TOTAL</b>
<b>BILL</b>

	52300-02	54210	54211	54231-02	54241-01	56200	56220	56230	56830	56890-01	56890-02	56890-03
	Wells Main	Tools	Supplies	Main Agree Software	Repair Truck	Office Exp	Dues & Subs	Postage	C. E.	Office Misc. District Event	Mtg Accom	Office Misc. Other
Churchill									1,099.92			
Cutler			8.47									
Dains			-									
Dietrich			-									
Evans	9.69	1,213.34	1,422.99		1,257.52	361.83				229.59	42.69	
Gordon												
Hensley			137.65				14.99					
Riehle												
Sheehan												
Shockley												
Smoot								122.90	2,372.78		167.66	150.00
Straus				250.00	33.98			1,416.92				
	<b>9.69</b>	<b>1,213.34</b>	<b>1,569.11</b>	<b>250.00</b>	<b>1,291.50</b>	<b>361.83</b>	<b>14.99</b>	<b>122.90</b>	<b>4,889.62</b>	<b>229.59</b>	<b>210.35</b>	<b>150.00</b>

2016

V#: \_\_\_\_\_  
 Date: 5/31/16

Citrus Heights Water District  
 2016 Director Training Courses/Seminars/Conferences

as of 6/9/2016

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Date	Days	Topic	Sponsor	Location	Attendee	Total Expenses	Registration	Hotel	Air/Travel	Car rental	Meals	Parking/Taxi/ phone
02/04/16	1	Water Workshop 101	AWWA CA/NV	West Sacramento	Ray Riehle	225.00	225.00					
05/02/16	2	ACWA Spring Conference	ACWA	Monterey	Al Dains	1,650.87	695.00	675.41		246.10	34.36	
						0.00						
						0.00						
						0.00						
						0.00						
						0.00						
					Grand Total	1,875.87						

**Citrus Heights Water District**  
 2016 Officer Training Courses/Seminars/Conferences  
 as of 6/9/2016

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Date	Days	Topic	Sponsor	Location	Attendee	Total Expenses	Registration	Hotel	Air/Travel	Car rental	Meals	Parking/Taxi/ phone
03/21/16	3	Spring Conference	AWWA CA/NV	Sacramento	Hilary Straus	445.00	445.00					
03/21/16	3	Spring Conference	AWWA CA/NV	Sacramento	Robert Churchill	445.00	445.00					
03/21/16	3	Spring Conference	AWWA CA/NV	Sacramento	David Gordon	445.00	445.00					
05/01/16	2	Spring Conference	ACWA	Monterey	Robert Churchill	1,491.00	695.00	796.00				
05/01/16	2	Spring Conference	ACWA	Monterey	Hilary Straus	1,491.00	695.00	796.00				
05/11/16	3	General Manager Leadership Summit	CSDA	North Lake Tahoe	Hilary Straus	1,304.09	725.00	579.09				
						0.00						
						0.00						
						0.00						
						0.00						
						0.00						
						0.00						
					<b>Grand Total</b>	<b>5,621.09</b>						



# CITRUS HEIGHTS WATER DISTRICT

## DISTRICT STAFF REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

---

SUBJECT : STOCK RANCH COMMERCIAL EASEMENT ACCEPTANCE  
STATUS : Action Item – Consent Calendar  
REPORT DATE : June 6, 2016  
PREPARED BY : Paul A. Dietrich, Project Manager

---

**OBJECTIVE:**

Consider adoption of Resolution 13-2016 accepting an easement from SRP 12 LLC on a portion of 6900 Auburn Boulevard, Stock Ranch Commercial.

**BACKGROUND AND ANALYSIS:**

Site improvements to the Stock Ranch Commercial Center at 6900 Auburn Boulevard required the installation of a new water distribution main, water services and fire protection facilities to provide water service to the site. An easement for the water facilities was granted by SRP 12 LLC at no cost to the District.

See attached Grant of Easement including Exhibit “A”, Legal Description and Exhibit “B”, Plat Map.

**RECOMMENDATION:**

Adopt the Resolution 13-2016 accepting an easement from SRP 12 LLC on a portion of 6900 Auburn Boulevard, Stock Ranch Commercial.

**ACTION:**

Moved by Director \_\_\_\_\_, Seconded by Director \_\_\_\_\_, Carried \_\_\_\_\_

---

RECORDED AT THE REQUEST OF  
AND RETURN TO:

CITRUS HEIGHTS WATER DISTRICT  
P.O. BOX 286  
CITRUS HEIGHTS, CA 95611-0286

EXEMPT FROM TRANSFER TAX  
(Revenue and Taxation Code Section 11922)

NO FEE FOR RECORDING  
(Government Code Section 6103)

Space above for Recorder's use only

COUNTY APN: 211-0870-012  
LOCATION: 6900 Auburn Boulevard

---

GRANT OF EASEMENT  
TO  
CITRUS HEIGHTS WATER DISTRICT

SRP 12 LLC, a California limited liability company, for a valuable consideration, receipt of which is hereby acknowledged, does hereby grant to CITRUS HEIGHTS WATER DISTRICT, a political subdivision of the State of California formed pursuant to Division 11 of the Water Code (the "District"), a right-of-way and non-exclusive easement to construct, reconstruct, operate, maintain and/or repair water pipelines together with any and all appurtenances appertaining thereto; together with the perpetual right of ingress thereto and egress there from for the purpose of exercising and performing all of the rights and privileges granted herein; said pipelines and appurtenances to be of such size(s) and character as the grantee may determine, on, over, across and under all that certain real property, situate in the County of Sacramento, State of California particularly described as follows:

Exhibit "A" Legal Description and  
Exhibit "B" Plat to Accompany Legal Description

Use of this easement by the Grantor or by the Grantor's assignees or successors in interest, which is not compatible or interferes with the District's construction, reconstruction, operation, maintenance or repair of the water pipelines and appurtenances, shall not be allowed. The District acknowledges and agrees that Grantor and Grantor's assignees or successors in interest shall, at all times, be allowed to utilize the easement as a roadway, parking area or outdoor open space, including any hardscaped or landscaped area, and shall be permitted to maintain these improvements in a manner compatible with such uses on the easement. Any other proposed use by the Grantor or by the Grantor's assignees or successors in interest shall be requested in writing and subject to written approval by the District prior to the proposed construction or use of the easement by the Grantor. The Grantor at the Grantor's sole expense shall remove in a timely manner any use not specified and acknowledged above or approved in writing by the District. Should the District find it necessary to remove any part or all of the acknowledged or approved improvements of Grantor or Grantor's assignees or successors in interest for the



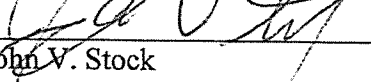
purpose of constructing or maintaining its water pipelines and appurtenances at any time, pursuant to the District's rights granted herein, the District shall be liable for all costs of removal of any such roadways, parking areas or other improvements and shall be responsible for the repair and restoration of such areas to the condition such areas were in prior to District's removal of any such improvements.

In witness thereof, Grantor has hereunto subscribed its name this 7<sup>th</sup> day of May, 2016.

**SRP 12, LLC,**  
a California limited liability company

By: California C & S Properties,  
a California limited partnership  
Its: Sole Member

By: Go Bears LLC,  
a California limited liability company  
Its: General Partner

By:   
Name: John V. Stock  
Title: Managing Member

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

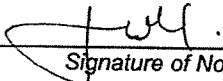
STATE OF CALIFORNIA §

COUNTY OF Alameda §

On 5/7/16 before me, Shital Patel, Notary Public, personally appeared Jahn V. Stack, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature  (Seal)  
Signature of Notary Public

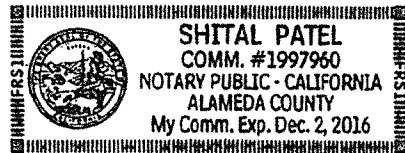


EXHIBIT "A"

EASEMENT LEGAL DESCRIPTION  
FOR PUBLIC WATERLINE PURPOSES TO THE CITRUS HEIGHTS WATER DISTRICT


THAT PORTION OF LOT 12 AS SHOWN ON THE "PLAT OF SUBDIVISION NO. 02-01 STOCK RANCH COMMERCIAL" IN THE CITY OF CITRUS HEIGHTS, COUNTY OF SACRAMENTO, STATE OF CALIFORNIA AS PER MAP FILED JUNE 30, 2003 IN BOOK 317 OF MAPS, AT PAGE NO. 2, RECORDS OF SAID COUNTY, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF LOT 12, SAID CORNER BEING A POINT ON A CURVE CONCAVE TO THE EAST HAVING A RADIUS OF 180.00 FEET, A RADIAL LINE THROUGH SAID POINT BEARS SOUTH 39°32'11" WEST; THENCE NORTHERLY 16.10 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 5°07'32" TO A POINT ON SAID CURVE TO WHICH POINT A RADIAL LINE BEARS SOUTH 44°39'43" WEST, SAID POINT BEING THE TRUE POINT OF BEGINNING OF THIS DESCRIPTION; THENCE CONTINUING NORTHERLY ALONG SAID CURVE 10.67 FEET THROUGH A CENTRAL ANGLE OF 3°23'43" TO A POINT ON A LINE PARALLEL WITH AND 24.63 FEET NORTH OF THE SOUTH LINE OF SAID LOT 12, SAID POINT HAVING A RADIAL LINE WHICH BEARS SOUTH 48°03'26" WEST; THENCE SOUTH 66°42'21" WEST ALONG SAID PARALLEL LINE 38.95 FEET; THENCE NORTH 23°17'39" WEST 46.38 FEET; THENCE SOUTH 66°42'21" WEST 10.00 FEET; THENCE SOUTH 23°17'39" EAST 13.00 FEET; THENCE SOUTH 66°42'21" WEST 10.83 FEET; THENCE SOUTH 23°17'39" EAST 10.00 FEET; THENCE NORTH 66°42'21" EAST 10.83 FEET; THENCE SOUTH 23°17'39" EAST 33.38 FEET; THENCE NORTH 66°42'21" EAST 52.66 FEET TO THE TRUE POINT OF BEGINNING OF THIS DESCRIPTION.

THE AREA OF THE LAND DESCRIBED IN THIS LEGAL DESCRIPTION CONSIST OF APPROXIMATELY 1,080 SQUARE FEET.

END OF DESCRIPTION

THIS LEGAL DESCRIPTION WAS PREPARED BY OR UNDER THE DIRECT SUPERVISION OF THE FOLLOWING STATE OF CALIFORNIA PROFESSIONAL LAND SURVEYOR.

  
02-22-2016  
MARK S. LAMOUREUX, P.L.S. 5794  
REGISTRATION EXPIRES 06-30-2016  
MSL JN 14018B

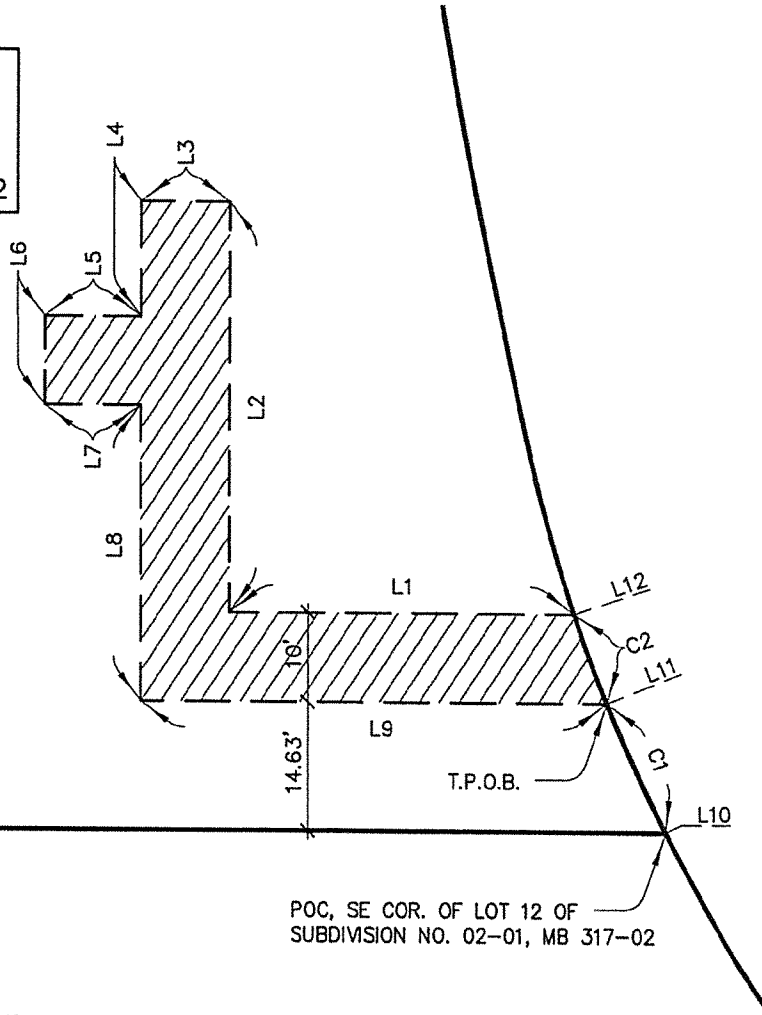


# EXHIBIT "B"

PLAT TO ACCOMPANY LEGAL DESCRIPTION

APPLEBEE'S RESTAURANT  
6900 AUBURN BOULEVARD

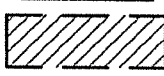
LOT 12 OF  
SUBDIVISION NO. 02-01, MB317-02



LINE DATA TABLE		
LINE	BEARING	DISTANCE
L1	S66°42'21"W	38.95'
L2	N23°17'39"W	46.38'
L3	S66°42'21"W	10.00'
L4	S23°17'39"E	13.00'
L5	S66°42'21"W	10.83'
L6	S23°17'39"E	10.00'
L7	N66°42'21"E	10.83'
L8	S23°17'39"E	33.38'
L9	N66°42'21"E	52.66'
L10	S39°32'11"W	-----
L11	S44°39'43"W	-----
L12	S48°03'26"W	-----

CURVE DATA TABLE			
NO.	DELTA	RADIUS	LENGTH
C1	5°07'32"	180.00'	16.10'
C2	3°23'43"	180.00'	10.67'

**LEGEND**



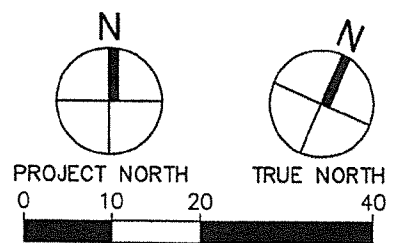
WATER LINE EASEMENT = 1,080 SQ. FT.



EXISTING PROPERTY LINE

**PREPARED BY**

MSL ENGINEERING, INC.  
402 W. ARROW HWY., SUITE 4  
SAN DIMAS, CA. 91773  
(909) 305-2395  
mlamoureux@msieng.com  
MSL JN 14018 WL-EAS-EX-B  
02-22-16



GRAPHIC SCALE  
SCALE: 1"=20'

CITRUS HEIGHTS WATER DISTRICT  
RESOLUTION NO. 13 -2016

RESOLUTION OF THE BOARD OF DIRECTORS  
OF CITRUS HEIGHTS WATER DISTRICT  
ACCEPTING AN EASEMENT FROM  
SRP 12 LLC  
FOR WATER DISTRIBUTION FACILITIES WITHIN  
6900 AUBURN BLVD, STOCK RANCH COMMERCIAL

Whereas SRP 12 LLC for a valuable consideration, receipt of which is hereby acknowledged, does hereby grant to CITRUS HEIGHTS WATER DISTRICT, a political subdivision of the State of California formed pursuant to Division 11 of the Water Code, a right-of-way and non-exclusive easement to construct, reconstruct, operate, maintain and/or repair water pipelines together with any and all appurtenances appertaining thereto; together with the perpetual right of ingress thereto and egress there from for the purpose of exercising and performing all of the rights and privileges granted herein; said pipelines and appurtenances to be of such size(s) and character as the grantee may determine, on, over, across and under all that certain real property, situate in the County of Sacramento, State of California particularly described as follows:

That portion of Lot 12 as shown on the "Plat of Subdivision No. 02-01 Stock Ranch Commercial" in the City of Citrus Heights, County of Sacramento, State of California as per Map filed June 30, 2003 in Book 317 of Maps, at Page No. 2, Records of said County, described as follows:

Commencing at the southeast corner of Lot 12, said corner being a point on a curve concave to the east having a radius of 180.00 feet, a radial line through said point bears South 39°32'11" West; thence Northerly 16.10 feet along said curve through a central angle of 5°07'32" to a point on said curve to which point a radial line bears South 44°39'43" West, said point being the True Point of Beginning of this description; thence continuing Northerly along said curve 10.67 feet through a central angle of 3°23'43" to a point on a line parallel with and 24.63 feet north of the south line of said Lot 12, said point having a radial line which bears South 48°03'26" West; thence South 66°42'21" West along said parallel line 38.95 feet; thence North 23°17'39" West 46.38 feet; thence South 66°42'21" West 10.00 feet; thence South 23°17'39" East 13.00 feet; thence South 66°42'21" West 10.83 feet; thence South 23°17'39" East 10.00 feet; thence North 66°42'21" East 10.83 feet; thence South 23°17'39" East 33.38 feet; thence North 66°42'21" East 52.66 feet to the True Point of Beginning of this description.

NOW THEREFORE, BE IT RESOLVED that CITRUS HEIGHTS WATER DISTRICT accepts said Grant of Easement and conveyance and that a certified copy of this Resolution be provided to the County of Sacramento to be attached to and recorded with said Grant of Easement in the Office of the County Recorder of Sacramento County.

PASSED AND ADOPTED by the Board of Directors of the CITRUS HEIGHTS WATER DISTRICT this 14<sup>th</sup> day of June 2016 by the following vote, to wit:

AYES: Directors: Dains, Sheehan, Riehle  
NOES: Directors:  
ABSTAIN: Directors:

ABSENT: Directors:

SEAL

---

ALLEN B. DAINS, President  
Board of Directors  
Citrus Heights Water District

ATTEST:

---

ROBERT A. CHURCHILL, Secretary  
Citrus Heights Water District

**CERTIFICATION:**

I, ROBERT A. CHURCHILL, hereby certify and acknowledge that Resolution 13-2016 was adopted by the Board of Directors of Citrus Heights Water District at a duly called and noticed regular meeting of said Board on the 14<sup>th</sup> day of June 2016.

---

ROBERT A. CHURCHILL, Secretary  
Citrus Heights Water District

# CITRUS HEIGHTS WATER DISTRICT

## DISTRICT STAFF REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

---

SUBJECT : ADMINISTRATION BUILDING IMPROVEMENTS PROJECT  
STATUS : Information Item – Consent Calendar  
REPORT DATE : June 9, 2016  
PREPARED BY : Robert A. Churchill, General Manager

---

**OBJECTIVE:**

Receive information on adding an office to the Administration Building.

**BACKGROUND AND ANALYSIS:**

Upon issuance of a building permit from the City of Citrus Heights on April 15, 2016, construction of the Administration Building office addition by Kaler-Dobler Construction began. Construction is now substantially complete with final inspections and approval on June 1, 2016 by the City of Citrus Heights and Sacramento Metro Fire District. Minor cosmetic corrections remain prior to final acceptance by the District. The target date for completion is June 15, 2016.

It is anticipated that Final Acceptance and a Notice of Completion will be brought forward to the Board of Directors on July 12, 2016.

Furniture delivery is expected in mid-to-late June.

---

# CITRUS HEIGHTS WATER DISTRICT

## DISTRICT STAFF REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

---

SUBJECT : 2015 URBAN WATER MANAGEMENT PLAN  
STATUS : Action Item  
REPORT DATE : June 4, 2016  
PREPARED BY : Rex W. Meurer, Water Efficiency Coordinator  
Hilary M. Straus, Assistant General Manager

---

**OBJECTIVE:**

Consider adoption of CHWD's 2015 Urban Water Management Plan (UWMP).

**BACKGROUND AND ANALYSIS:**

The California Water Code requires water purveyors that serve more than 3,000 connections or supply more than 3,000 acre-feet of water annually to adopt and submit an Urban Water Management Plan (UWMP). The UWMP must be submitted every five years to the California Department of Water Resources (DWR). With the support of J. Crowley Group, Inc., a Public Review Draft of the 2016 UWMP was prepared in compliance with DWR guidelines and reviewed by the CHWD Board of Directors at their Regular Meeting of May 10, 2016. A Public Hearing will be conducted at tonight's Board meeting to adopt the 2015 UWMP.

District staff was directed to proceed with preparation of a final 2015 UWMP consistent with the Public Review Draft guidelines. No other changes will be made to the final document except to change it from "draft" to "final" and to include the resolution adopting the 2015 UWMP. Preparation of the final document will be completed after the Board adopts the UWMP since the resolution must be included as part of the document.

The UWMP provides guidelines for long-term water management by CHWD. Although the UWMP does not legally obligate CHWD to a specific course of action, it provides an overview of anticipated water demands and water supplies and the types of water demand management activities that CHWD expects to undertake to meet the "20 by 2020" requirements.

An action to approve the 2015 UWMP (Exhibit A of the accompanying Resolution) at this Board meeting will ensure that CHWD can meet the DWR deadlines. The deadline to submit the 2015 UWMP to DWR is July 1, 2016.

**RECOMMENDATION:**

Adopt Resolution No. 15-2016 Adopting the 2015 Urban Water Management Plan.

**ACTION:**

Moved by Director \_\_\_\_\_, Seconded by Director \_\_\_\_\_, Carried \_\_\_\_\_

---



CITRUS HEIGHTS WATER DISTRICT  
RESOLUTION NO. 15-2016

RESOLUTION ADOPTING THE 2015 URBAN WATER MANAGEMENT PLAN

WHEREAS, the Citrus Heights Water District Urban Water Management Plan is prepared and submitted to fulfill the requirements of the California Urban Water Management Planning Act of 1983, Assembly Bill No. 797, Water Code Section 10610 et seq.; and

WHEREAS, the District has prepared and made available for public review a draft Urban Water Management Plan, and a properly noticed public hearing regarding said Plan was conducted by the Board of Directors on June 14, 2016; and

WHEREAS, the Board of Directors intends that the Plan shall serve as a guideline to assist the District in its efforts to encourage conservation and efficient use of water.

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

1. The 2015 Urban Water Management Plan (Exhibit A) is hereby adopted; and the J, Crowley Group; is hereby authorized and directed to file the Plan with the California Department of Water Resources; and
2. The District General Manager is hereby directed to implement the programs as set forth in the 2015 Urban Water Management Plan, subject to review and express authorization of the Board of Directors for all actions requiring the approval of the Board of Directors.

PASSED AND ADOPTED by the Board of Directors of the CITRUS HEIGHTS WATER DISTRICT this 14<sup>th</sup> day of June, 2016, by the following vote, to wit:

AYES:           Directors:  
NOES:           Directors:  
ABSTAIN:       Directors:  
ABSENT:        Directors:

SEAL

---

ALLEN B, DAINS President  
Board of Directors  
Citrus Heights Water District

ATTEST:

---

ROBERT A. CHURCHILL, Secretary

# Exhibit A

## **Citrus Heights Water District** **2015 Urban Water Management Plan**



**CITRUS  
HEIGHTS  
WATER  
DISTRICT**

### **June 2016** **Public Hearing Draft**

Robert A. Churchill, General Manager  
Hilary M. Straus, Assistant General Manager  
Rex W. Meurer, Water Efficiency Coordinator  
Brian M. Hensley, Water Resources Supervisor

J. CROWLEY GROUP  
WATER RESOURCES PLANNING AND POLICY

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- Appendix F – 60-Day Notification
- Appendix G – 2015 Public Hearing Notification
- Appendix H – 2015 UWMP Adoption Resolution

## 1 Introduction

The Urban Water Management Act (Act) became part of the California Water Code with the passage of Assembly Bill 797 during the 1983-1984 regular session of the California Legislature. The California Water Code requires every urban water supplier providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually (AFY) to adopt and submit an Urban Water Management Plan (UWMP) every five years to the California Department of Water Resources (DWR). The specific planning requirements are in the California Water Code Division 6, Part 2.6 Urban Water Management Planning.

Subsequent legislation has been passed that updates and provides for additional requirements for UWMPs and water management. In particular, SB X7- 7 Water Conservation, requires the State to achieve a 20 percent reduction in urban per capita water use by December 31, 2020, known as 20x2020. 20x2020 requirements are incorporated into the 2015 UWMP requirements. In summary, the UWMP must include the baseline demand analysis, water use target analysis use for 2015 and 2020, and present a compliance plan to achieve the target demand reductions in the UWMP.

The core requirements for the UWMP include:

- A description of the water service area.
- A description of the existing and planned supply sources.
- Estimates of past, present, and projected water use.
- 20x2020 analysis and target compliance.
- A description of water conservation Demand Management Measures (DMMs) already in place and planned, and other conservation measures.
- A description of the Water Shortage Contingency Plan/Conservation Program.

The 2015 UWMP must submit data in specific tables to the DWR. DWR has provided these tables and this UWMP utilizes the provided tables without changes to format or organization. The Citrus Heights Water District (CHWD) 2015 UWMP presents each required element per the DWR 2015 UWMP Guidelines.

## 2 Plan Preparation

CHWD provides potable water service to over 3,000 connections per year, and over 3,000 AFY and is therefore required to complete the UWMP process. Tables 2-1 through 2-4 list the UWMP background information as required by DWR.

Table 2-1 Retail Only: Public Water Systems			
Public Water System Number	Public Water System Name	Number of Municipal Connections 2015	Volume of Water Supplied 2015
3410006	Citrus Heights Water District	19,785	9,974
<b>TOTAL</b>		19,785	9,974

Table 2-2: Plan Identification (Select One)	
<input checked="" type="checkbox"/>	Individual UWMP
<input type="checkbox"/>	Regional UWMP (RUWMP)

Table 2-3: Agency Identification	
Type of Agency (select one or both)	
<input type="checkbox"/>	Agency is a wholesaler
<input checked="" type="checkbox"/>	Agency is a retailer
Fiscal or Calendar Year (select one)	
<input checked="" type="checkbox"/>	UWMP Tables Are in Calendar Years
<input type="checkbox"/>	UWMP Tables Are in Fiscal Years
Units of Measure Used in UWMP (select from Drop down)	
Unit	Acre feet

Table 2-4 Retail: Water Supplier Information Exchange	
The retail supplier has informed the following wholesale supplier(s) of projected water use in accordance with CWC 10631.	
Wholesale Water Supplier Name <i>(Add additional rows as needed)</i>	
San Juan Water District	

## **2.1 Coordination and Notification**

The Sacramento region's water agencies have developed a proactive approach to planning and managing water resources throughout the area. The District is a member and actively participates in the two main regional water supplier organizations; the Regional Water Authority (RWA) and the Sacramento Groundwater Authority (SGA). The RWA consists of most of the region's water agencies and focuses efforts on regional supply planning and representation efforts regarding State-wide water issues. The SGA focuses primarily on the area's groundwater basin and helps support proactive management and monitoring of the basin to maintain sustainability. Many of the programs and efforts described within this UWMP that support the regional water supply needs are coordinated through RWA, SGA, and individual water purveyors.

CHWD receives wholesale surface supply water from the San Juan Water District (SJWD) and together with the other Wholesale Customer Agencies (WCA) of SJWD (Fair Oaks Water District, Orange Vale Water Company, City of Folsom Ashland, SJWD-retail), routinely coordinate supply planning and other issues. Per the Guideline requirements, CHWD provided 20-year projections for service area population and service area demands to the SJWD. CHWD also notified the appropriate counties, cities, and SJWD of this UWMP process per the requirements as presented in Section 10.

## **2.2 Sacramento Water Forum**

The Water Forum Agreement (WFA) was developed by a diverse group of business, agricultural, environmental, local government, and water agency leaders. The purpose of the WFA is to fulfill the following two co-equal goals:

- Provide a reliable and safe water supply for the region's economic health and planned development to the year 2030; and
- Preserve the fishery, wildlife, recreational, and aesthetic values of the lower American River.

The WFA provides the following seven major elements that guide water resources management.

1. Increased surface water diversions.
2. Actions to meet customers needs while reducing diversion impacts in drier years.
3. An improved pattern of fishery flow releases from Folsom Reservoir.
4. Lower American River Habitat Management Element which also addresses recreation on the lower American River.
5. Water conservation.
6. Groundwater management.
7. Water Forum Successor Effort (WFSE).

The WFA impacts surface water availability to the greater Sacramento region during certain dry years. Depending on the inflow of water into Folsom Reservoir, water agencies are expected to curtail surface water diversions. The WFA envisions that water agencies will meet customer demands during the dry year cutbacks through a mix of conjunctive use and conservation programs to reduce customer demands.

The CHWD is a signatory to the WFA and participates in the WFSE and conjunctive use planning efforts through the RWA and the SGA in efforts to implement the seven major elements of the WFA. The District is also required to implement conservation programs per the WFA purveyor-specific agreement. The entire Water Forum Agreement is available at [www.waterforum.org](http://www.waterforum.org).



### 3 System Description

The Citrus Heights Water District (CHWD) is located in the northeast portion of Sacramento County and south Placer County, California, approximately 20 miles northeast of downtown Sacramento. The District was formed on October 25, 1920 under Division 11, the Irrigation District Act of the State of California Water Code. A three member Board of Directors elected at large from divisions within the District governs the District.

#### 3.1 Service Area Description

CHWD provides water service to portions of the Cities of Citrus Heights and Roseville, and portions of the unincorporated communities of Orangevale, Fair Oaks, Carmichael and a portion of unincorporated Placer County, as shown in Figure 2-1. The service area covers approximately 7,780 acres in Sacramento and Placer counties. Only a small portion of the District’s service area, approximately 140 acres, is located in Placer County.

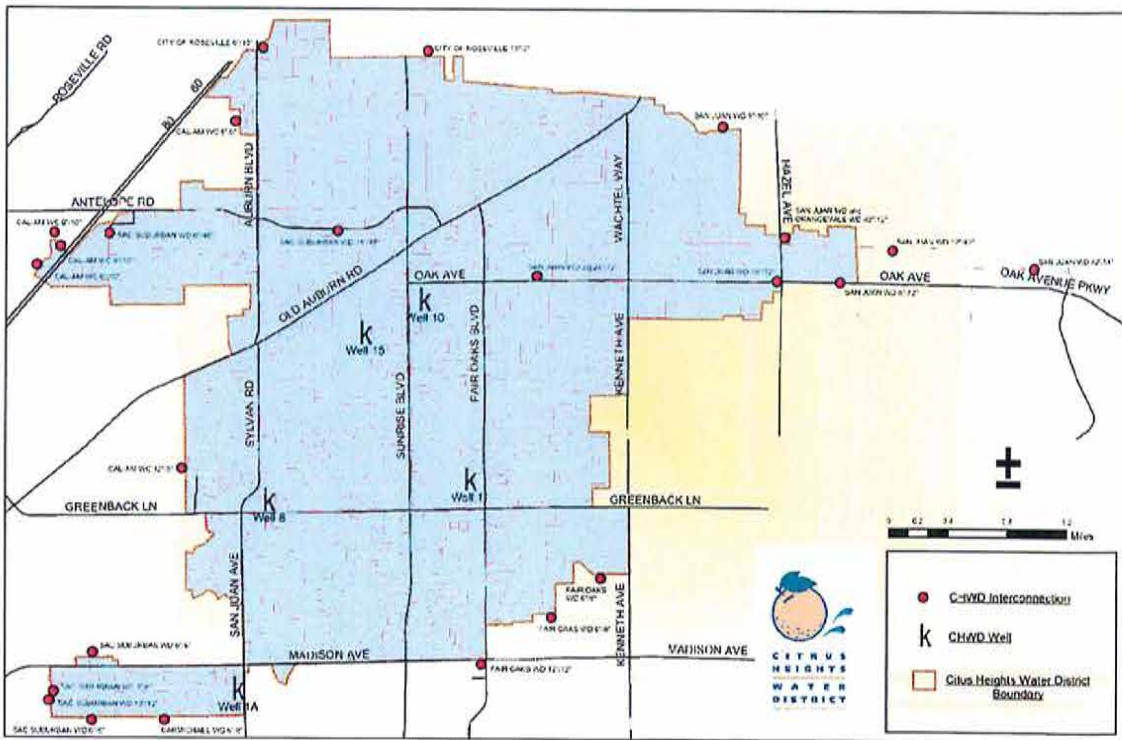


Figure 2-1. Service Area

The District initially used American River surface water supply from the North Fork Ditch Company to serve its customers. The customer base was initially comprised of

small family farms and limited urban areas. Concurrently with the completion of Folsom Dam in 1956, the San Juan (Suburban) Water District (SJWD) was formed and acquired the facilities and water rights of the North Fork Ditch Company. SJWD has also contracted for additional water from the United States Bureau of Reclamation (USBR) and Placer County Water Agency (PCWA). Citrus Heights Water District now receives surface water from the American River through the San Juan Water District. Along with CHWD, SJWD provides treated surface water to Fair Oaks Water District, Orange Vale Water Company, portions of the City of Folsom, and SJWD's own retail service area. These agencies are collectively referred to as the SJWD Family of Agencies or wholesale customer agencies (WCAs). SJWD also provides treated surface water to Sacramento Suburban Water District and the City of Roseville. CHWD continues to supplement its surface water supply with groundwater for readiness-to-serve purposes and to meet peaking, pressure, shortage, and emergency demands.

In the early years of the District, residential and agricultural growth was nominal. Since then, urban development has flourished to such a degree that presently there is no significant agricultural water use within the District. The District now serves a predominantly residential customer base, with a 2015 residential demand equal to 78 percent of its total annual demand of 9,974 AFY. There were a total of 19,785 customer connections in 2015.

The service area has cool, rainy winters, and hot, dry summers. The monthly temperature in the Sacramento region ranges from an average low of 39.5 to an average high of 91.5 degrees Fahrenheit (Western Regional Climate Center). In the past, extreme conditions have been recorded at 17 degrees Fahrenheit for the lowest temperature and 114 degrees Fahrenheit for the highest. The historical annual mean precipitation is 18.2 inches with a monthly precipitation as high as 14.2 inches and as low as 0 inches. The average evapotranspiration rate (ET<sub>o</sub>) is 50.5 inches.

### 3.2 Population

The CHWD service area boundary does not match up with census tract or block group zones. Existing service population is therefore estimated using the DWR Population Tool as described in Section 5. Projected population assumes a relatively low connection growth rate of 0.5 percent and the current capita per connection value of 3.5 as discussed in Section 4. Population projections are summarized in Table 3-1.

Population Served	2015	2020	2025	2030	2035	2040( <i>opt</i> )
	65,093	66,720	68,348	69,975	71,602	

## 4 System Water Use

This section presents past and projected water demands. CHWD serves an older, established area where future growth is expected to be slow as the District nears buildout.

### 4.1 Current and Projected Water Demands

Water demands are projected using unit water demand factors and projected connections. The unit water demand factors are reduced over time to account for implementation of the 20x2020 compliance plan as well as new building codes.

2015 water demands per category are presented in Table 4-1. All customers are metered and there are no un-metered connections. As the following tables indicate, the majority of the District's customers are residential. The "Other" category includes accounts such as construction meters, vacant accounts, and vacant land. Non-revenue water is all water that is not billed, such as water attributed to fire fighting, flushing, leaks, water theft, or meter inaccuracies.

Table 4-1 Retail: Demands for Potable and Raw Water - Actual			
Use Type (Add additional rows as needed)	2015 Actual		
<i>Use Drop down list</i> <i>May select each use multiple times</i> <i>These are the only Use Types that will be recognized by the WUedata online submittal tool</i>	Additional Description (as needed)	Level of Treatment When Delivered <i>Drop down list</i>	Volume
Single Family		Drinking Water	5,779
Multi-Family		Drinking Water	1,876
Commercial		Drinking Water	967
Institutional/Governmental		Drinking Water	21
Landscape		Drinking Water	603
Other	temp., construction, etc.	Drinking Water	17
Other	all non-revenue water	Drinking Water	711
<b>TOTAL</b>			<b>9,974</b>

The CHWD service area is included in a Sacramento Area Council of Governments (SACOG) area that mainly includes Citrus Heights, Orangevale, Fair Oaks, Carmichael, and Arden-Arcade. SACOG projected a range of growth for this area from 3.8-15.1 percent from 2000 to 2050. However, these projections were made prior to the economic climate of the last few years. In order to achieve growth rates in the SACOG range, a significant change in housing density would be required. CHWD does not project such a change, and believes the majority of their customer base will continue to be a mix of traditional density single-family residential parcels and multi-family units. Growth in

customer connections has recently averaged approximately 0.5 percent. This growth rate is applied to the future connection projections.

Although overall water demands have decreased over the last five years, many factors may have caused this decrease. For 2015 demands, the State-mandated reductions are a major factor. Other factors such as economic conditions, water conservation programs, hydrologic and climate factors, and rate increases all likely contributed to the reduced unit demand factors. As these parameters likely reduced demands, it is expected that the removal of some of these parameters will also influence demands. For conservative planning purposes, it is assumed the unit water demands will increase in the short term as economic conditions improve, hydrologic conditions deliver more rain and snow, and drought messaging is reduced. However, the District’s conservation program and other demand management efforts will work to reduce the demands so that the 2015 and 2020 targets will still be met. The resulting water demand projections per customer class are summarized in Table 4-2. Future non-revenue water is assumed to remain constant at nine percent of total demands.

Table 4-2 Retail: Demands for Potable and Raw Water - Projected						
Use Type <i>(Add additional rows as needed)</i>	Additional Description	Projected Water Use <i>Report To the Extent that Records are Available</i>				
<i>Use Drop down list May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool</i>		2020	2025	2030	2035	2040-opt
Single Family		10,090	10,336	10,583	10,829	
Multi-Family		2,695	2,761	2,826	2,892	
Commercial		1,375	1,409	1,443	1,476	
Institutional/Governmental		268	274	281	287	
Landscape		994	1,019	1,043	1,067	
Other	temp., construction, etc.	20	20	20	20	
Other	all non-revenue water	1,527	1,564	1,602	1,639	
<b>TOTAL</b>		16,970	17,383	17,797	18,210	0

Table 4-3 summarizes the current and projected demands. There are no recycled water demands as discussed in Section 6. 2015 water loss is calculated per the DWR/AWWA water audit methodology and summarized in Table 4-4. CHWD maintains 20 interconnections with its neighboring water agencies. The interconnections are used for primary surface water deliveries and for emergency supply and short-term shortage conditions. CHWD has not, and does not plan to sell water through transfers or exchanges at this time.

Table 4-3 Retail: Total Water Demands						
	2015	2020	2025	2030	2035	2040 (opt)
Potable and Raw Water From Tables 4-1 and 4-2	9,974	16,970	17,383	17,797	18,210	0
Recycled Water Demand From Table 6-4	0	0	0	0	0	0
<b>TOTAL WATER DEMAND</b>	9,974	16,970	17,383	17,797	18,210	0

Table 4-4 Retail: 12 Month Water Loss Audit Reporting	
Reporting Period Start Date (mm/yyyy)	Volume of Water Loss
01/2015	345

#### 4.2 Water Use for Low Income Households

The legislation requires the District to project water demands for low-income housing needs. Although CHWD service area does not match the City of Citrus Heights boundary, CHWD’s service area encompasses about two-thirds of the geographic area of the City of Citrus Heights. This analysis assumes the City’s housing element is representative of the CHWD service area. The City of Citrus Heights developed the Housing Element of their general plan in 2009. The Housing Element identified the City’s portion of the regional housing need for very low and low/medium income household housing needs. The 2009 projections for very low and low/medium housing needs are 108 units. Water demands for these units assume that all units are single-family units. Inclusion of these demands and unit demand factors is summarized in Table 4-5.

Table 4-5 Retail Only: Inclusion in Water Use Projections	
Are Future Water Savings Included in Projections? (Refer to Appendix K of UWMP Guidebook) <i>Drop down list (y/n)</i>	Yes
If "Yes" to above, state the section or page number, in the cell to the right, where citations of the codes, ordinances, etc... utilized in demand projections are found.	Section 4.1
Are Lower Income Residential Demands Included In Projections? <i>Drop down list (y/n)</i>	Yes

## 5 Baseline and Targets

State law requires that urban water agencies reduce demand 20 percent by 2020. DWR has incorporated these requirements into the UWMP requirements. The required demand reduction is based on an agency’s gallons per capita per day (gpcd). Specific methodologies for estimation and analysis of population and demands to determine gpcd targets are provided in the UWMP Guidebook and Appendices.

### 5.1 2020 Baseline Demand and Target

The DWR UWMP Guidebook methodologies for calculating baseline and reduction targets are used to update the baseline and targets from the 2010 UWMP. The detailed calculations and methodologies are presented below and in Appendix A. Results are summarized in Tables 5-1 and 5-2 per UWMP requirements. As shown in the tables, CHWD is in compliance with the 2015 Interim Target.

<b>Table 5-1 Baselines and Targets Summary</b> <i>Retail Agency or Regional Alliance Only</i>					
Baseline Period	Start Year	End Year	Average Baseline GPCD*	2015 Interim Target *	Confirmed 2020 Target*
10-15 year	1995	2004	286	257	229
5 Year	2003	2007	258		
*All values are in Gallons per Capita per Day (GPCD)					

<b>Table 5-2: 2015 Compliance</b> <i>Retail Agency or Regional Alliance Only*</i>								
Actual 2015 GPCD	2015 Interim Target GPCD	Optional Adjustments to 2015 GPCD Enter "0" for adjustments not used From Methodology 8					2015 GPCD <i>(Adjusted if applicable)</i>	Did Supplier Achieve Targeted Reduction for 2015? Y/N
		Extraordinary Events	Economic Adjustment	Weather Normalization	TOTAL Adjustments	Adjusted 2015 GPCD		
137	257	0	0	0	0	137	137	Yes
*All values are in Gallons per Capita per Day (GPCD)								

## **5.2 *SB X7-7 Tables and Methodology***

The 20x2020 process requires that a baseline demand be calculated from which target water demands are determined. The baseline demand is taken as the 10-year average gallon per day per capita, ending no earlier 2004. The baseline demand calculation is based on total supply into the system, and estimated service population for each year. The 2020 goal must be no more than 95 percent of a five-year gpcd average ending no earlier than 2007. The baseline and target calculation methodologies are presented in Appendix A. These tables will also be submitted to DWR per the UWMP Requirements. Resulting targets and compliance are summarized above in Tables 5-1 and 5-2.

## 6 Water Supplies

CHWD uses both its surface water and groundwater to supply its customers. The District purchases surface water from the San Juan Water District (SJWD). Groundwater is obtained from the District's five active wells. This Section presents the water supply analysis and discussion.

### 6.1 Purchased Surface Water

CHWD purchases surface water from the SJWD. SJWD obtains its surface water through a combination of rights and contracts totaling 82,200 acre-feet per year. The specifics and reliability of each right and contract is presented in SJWD's UWMP and summarized in Section 7. All of the surface water supplies are withdrawn from Folsom Reservoir into SJWD's water treatment plant.

CHWD maintains a wholesale Water Supply Agreement (WSA) with SJWD to provide surface water, as does SJWD with all the Wholesale Customer Agencies (WCA). The wholesale WSA does not include a volumetric amount; rather it states that SJWD will provide CHWD the supply it needs. The other WCA contracts also include the same language. CHWD projects that during normal supply years, it will use approximately 900 AF of groundwater (discussed below), and rely on surface water to meet the majority of its customer demands.

CHWD maintains two connections with SJWD to receive its water supply, one on the CHWD 42-inch transmission main and three on the SJWD 72-inch Cooperative Transmission Pipeline (CTP). Barring failure of these connections, there are no physical constraints to obtaining the required SJWD supply. The SJWD UWMP addresses any restraints within SJWD's facilities to diverting, treating, and delivering the necessary supplies to CHWD.

### 6.2 Groundwater

The groundwater basin underlying the District is the North American Sub-basin, part of the larger Sacramento Valley groundwater basin. California Department of Water Resources California's Groundwater Update 2003, Bulletin 118, identifies the basin as 5-21.64.

#### 6.2.1 Basin Description

Water bearing formations beneath the District occur in two major strata. The upper water-bearing units include the geologic formations of the Victor, Fair Oaks, and Laguna Formations and are typically unconfined. The lower water-bearing unit consists primarily of the Mehrten Formation, which exhibits confined conditions. The Mehrten Formation is the most productive fresh water-bearing unit in the eastern Sacramento Valley, though some of the permeable layers of the Fair Oaks Formation produce moderate amounts of water. Much of the recharge of these aquifer systems comes from the Sacramento and American Rivers and their tributaries where gravel deposits exist. To



a lesser extent, aquifer recharge also occurs where the Mehrten Formation reaches the surface in the foothills in eastern Sacramento and western El Dorado County areas.

Supply wells in the Sacramento region draw water primarily from the Mehrten and Fair Oaks formations and typically produce 500-1,500 gpm of good to excellent quality water. There are areas throughout the basin that exhibit elevated levels of iron, manganese, and arsenic. CHWD's wells do not exhibit any water quality issues that impact its use as potable water supply or require treatment other than disinfection prior to service.

The local groundwater basin does contain three significant major groundwater contamination areas. The United Pacific Railroad plume located northwest of the District in Roseville and the McClellan Air Force Base plume located west of the District. Both plumes are both down-gradient and not expected to impact the District's groundwater quality. A third groundwater contamination plume attributed to Aerojet's historic operations was first detected in groundwater south of the American River in 1979. Since that time, Aerojet has installed groundwater treatment facilities and has conducted other efforts to treat and control the plume migration. However, the plume was detected north of the American River near Fair Oaks in 2000 and another plume was detected north of the American River in 2005 near Ancil Hoffman Park in Carmichael. Additional monitoring wells and pump-and-treat facilities have been installed to monitor and treat the plumes attributed to Aerojet.

Total usable capacity and safe yield of the basin have not yet been determined. Usable capacity is assumed to be the yield calculated in the DWR's American Basin Conjunctive Use Project Feasibility Study (1997). The study assumed a specific yield of 7 percent and an assumed thickness of 200 feet. Applying these assumptions to the total basin area results in a usable capacity of 70.2 million acre-feet. The Sacramento Groundwater Authority (SGA) has recently adopted a groundwater accounting framework. The framework allows for SGA member agencies to account for groundwater banking and conjunctive use efforts, and includes consideration and monitoring of groundwater levels. This information will be used to proactively manage the basin's storage capacity and available yield to support a conjunctive use strategy.

### **6.2.2 Groundwater Management**

Up until the early 2000's, groundwater levels had been generally declining in Sacramento County for the previous 50 years, with many areas declining at a rate of 1.5 to 2.0 feet per year. A groundwater depression that was evident in 1968 significantly expanded and deepened in 1996. The region responded in part through the development of the SGA Groundwater Management Plan and development of multiple conjunctive use projects. As a result of these efforts, SGA reports that groundwater elevation levels have stabilized, or in some cases increased. SGA is also the California Statewide Groundwater Elevation Monitoring (CASGEM) reporting agency for the basin conditions. CHWD is a member of SGA and, through SGA, will continue to track contamination threats and participate in conjunctive use programs or other projects to minimize the risk of the contamination plumes. The comprehensive SGA basin monitoring program and other

strategies to mitigate groundwater overdraft on a regional basis are included in the SGA Groundwater Management Plan at <http://www.sgah2o.org/sga/programs/groundwater>.

**6.2.3 Overdraft Conditions**

DWR Bulletin 118 does not specifically identify the sub-basin as being in overdraft, but does identify the previous issues with groundwater levels. Groundwater management efforts by the region through SGA and other partnerships have improved and stabilized basin levels.

**6.2.4 Historical Pumping**

CHWD maintains five operating wells with a projected total yield of approximately 5,000 AFY based on approximately seven months operation during the dry season. Well production rates vary from 800 to 2,100 gallons per minute. CHWD cycles its wells weekly to maintain operational readiness-to-serve capabilities and to supplement the surface water supply. Over the last five years, this “maintenance” groundwater production has averaged approximately 957 AFY. Past groundwater usage from 2011-2015 is presented in Table 6-1. There have been no issues that affect groundwater supply pumping over the last five years.

Table 6-1 Retail: Groundwater Volume Pumped						
Groundwater Type <i>Drop Down List</i> <i>May use each category multiple times</i>	Location or Basin Name	2011	2012	2013	2014	2015
Alluvial Basin	North American Sub-basin	962	587	465	1,930	841
<b>TOTAL</b>		962	587	465	1,930	841

**6.3 Wastewater and Recycled Water**

CHWD does not use recycled water nor is recycled water available in the District’s service area. Accordingly, this Sub-Section presents the required information per the Guidelines. DWR UWMP Tables 6-3, 6-4, and 6-5 are not applicable and not presented in this UWMP.

**6.3.1 Wastewater Collection, Treatment, and Disposal**

The Sacramento Regional County Sanitation District (SRCSD), and its companion agency, the Sacramento Area Sewer District (SASD), conducts wastewater collection, treatment, and disposal for the CHWD service area. Wastewater is collected and conveyed approximately 25 miles southwest, near Elk Grove, to the regional wastewater treatment plant.

The regional wastewater treatment plant serves most of the entire Sacramento metropolitan area. The treatment plant receives and treats approximately 150 million gallons per day (mgd) of wastewater. The current capacity of the plant to treat dry

weather flows is approximately 181 mgd. The treatment plant produces a disinfected secondary effluent that is discharged into the Sacramento River below Freeport. The principal treatment processes are primary sedimentation, pure-oxygen activated sludge, secondary sedimentation, and chlorination/de-chlorination. SRCSD does currently produce 1,000 to 1,700 acre-feet per year of Title 22 recycled water. The recycled water is mostly used for irrigation demand adjacent at a newer development community near the treatment plant in Elk Grove. There are no recycled water facilities within the CHWD service area.

Estimated wastewater generation is based on the SRCSD unit wastewater generation factor of 310 gpd per equivalent dwelling unit (Sacramento Regional Wastewater Treatment Plan 2020 Master Plan, 2001). Estimated wastewater collected within the CHWD service area is presented in Table 6-2. No wastewater is treated or discharged within the CHWD service area.

Table 6-2 Retail: Wastewater Collected Within Service Area in 2015						
Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated? <i>Drop Down List</i>	Volume of Wastewater Collected in 2015	Name of Wastewater Treatment Agency Receiving Collected Wastewater	Treatment Plant Name	Is WWTP Located Within UWMP Area? <i>Drop Down List</i>	Is WWTP Operation Contracted to a Third Party? (optional) <i>Drop Down List</i>
Sacramento Area Sewer District	<i>Estimated</i>	6,850	<i>Sacramento County Regional Sanitation District</i>	Regional San	<i>No</i>	
<b>Total Wastewater Collected from Service Area in 2015:</b>		6,850				

NOTES: Volume estimated based on SRCSD unit factor of 310 gpd/connection.

The annual 6,850 AF volume of wastewater collected is typically associated with year-round indoor water use and in 2015 averaged 570 AF per month within the CHWD service area. This monthly average quantity compares identically with CHWD’s average water use of 570 AF per month during the 2015 low water use months of January (592 AF), February (523 AF) and December (595 AF) when outdoor irrigation is minimal. Similarly, this annual volume of wastewater collected within the CHWD service area equates to 6.115 million gallons per day (MGD) on average. When factoring in CHWD’s 2015 population of 65,093, the amount of wastewater collected, treated and then either recycled or discharged to the Sacramento River for downstream water supply and environmental benefit is estimated to be 94 GPCD. As noted in Section 5, CHWD’s 2015 total annual GCPD was 137. Subtracting from this total the quantity of water returned to the system for other beneficial uses, CHWD’s consumer’s net impact on the State’s surface and groundwater resources is estimated to be 43 GPCD in 2015.

### **6.3.2 Actions to Encourage and Optimize Future Recycled Water Use**

SRCS D developed a recycled water opportunities plan in 2007 (Recycled Water Plan). The Recycled Water Plan divided its service area into specific opportunity areas. Each opportunity area was evaluated for recycled water use potential based on many factors such as demand, supply availability, infrastructure requirements, local support, costs, and others. The process utilized a Water Recycling Advisory Committee that provided a broad stakeholder view and input to the process. The Committee consisted of representatives from cities, water agencies, environmental groups, the State, and business groups. CHWD was represented on the Committee by the Regional Water Authority.

The CHWD service area is located in the Target Area 3 opportunity area identified in the Recycled Water Plan. Based on the analysis and alternative screening procedures, no potential recycled water applications were identified in the CHWD service area. One of the main reasons for the findings is relatively small potential demands that would require extensive infrastructure development, including a new local treatment plant to provide a supply source. Table 6-6 summarizes these planning efforts.

The SRCSD Recycled Water Plan concluded there were no viable opportunities for recycled water use from SRCSD in the CHWD service area. However, in the future, basic planning assumptions may change or new issues arise that could result in the identification and development of feasible recycled water programs. CHWD will continue to monitor its water resources issues and identify recycled water programs should the opportunity arise.

Future recycled water use will be part of a regional solution that involves the many entities involved in the SRCSD Water Recycling Opportunities Study. Incentives and methods to encourage recycled water use will depend on SRCSD and its regional partners identifying and developing a recycled water program for the north area of Sacramento County. Potential recycled water supply could also come from remediated groundwater if a plume is detected in the service area. CHWD will continue to follow recycled water use issues and will provide input as necessary. When a feasible program is identified through cooperation with the regional efforts, CHWD may develop incentives and methods to encourage recycled water use within its service area. Table 6-6 lists the current methods and programs to encourage recycled water use as zero as there is no recycled water supply.

The City of Roseville to the north also produces recycled water at both the Pleasant Grove and Dry Creek wastewater treatment plants. However, the City's water resource strategy anticipates the City will utilize all of its recycled water for its own supply requirements.

Table 6-6 Retail: Methods to Expand Future Recycled Water Use			
Section 6.3.2	Provide page location of narrative in UWMP		
Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use
SRCSO Water Recycling Opportunities Study	A periodically updated regional study that investigates feasible water recycling opportunities throughout the region.	ongoing	none at this time for CHWD service area
<b>Total</b>			0

#### 6.4 Desalinated Water Opportunities

CHWD does not foresee any desalinated water opportunities to provide additional supply. The service area is not located near any sea or brackish water supply sources, and there are no known brackish groundwater supplies nearby. Future issues and opportunities may provide for CHWD, through SJWD or another agency, to exchange water supplies with another agency that does have desalination opportunities. CHWD will continue to monitor potential opportunities and develop programs and alternatives as identified.

#### 6.5 Exchanges or Transfers

CHWD receives all of its surface water from its wholesale agency, SJWD. CHWD does not own rights or contracts to additional surface water supplies that it could transfer or exchange. CHWD could participate in a conjunctive use program through the wholesaler that could result in transfer and exchange opportunities. At this time, CHWD does not plan on any transfer or exchanges.

#### 6.6 Emergency Interties

CHWD maintains interconnections with its neighboring water agencies; San Juan Water District, Orange Vale Water Company, Fair Oaks Water District, Carmichael Water District, Sacramento Suburban Water District, California American Water Company, and the City of Roseville. The interconnections allow for emergency or short-term supply augmentation between agencies. Emergency interties are help support the short-term water shortage strategies discussed in Section 7.

#### 6.7 Future Water Supply Projects

CHWD plans to construct an additional three wells over the next seven years to provide additional dry-year supplies. The District plans to maintain groundwater supply equivalent of 5,000 AFY from its well system. However, groundwater production could

increase up to the full well capacities in successive dry year scenarios. Well site availability could impact the number of wells constructed or the construction implementation schedule. The District continues to monitor its service area for potential well sites and obtains the land as available. The District will re-evaluate its needs for new wells in the future and will update the number or timing of new wells as appropriate. Future supply projects are summarized in Table 6-7.

Table 6-7 Retail: Expected Future Water Supply Projects or Programs						
Section 6.7	Provide page location of narrative in the UWMP					
Name of Future Projects or Programs	Joint Project with other agencies?		Description (if needed)	Planned Implementation Year	Planned for Use in Year Type <i>Drop Down List User may select more than one.</i>	Expected Increase in Water Supply to Agency <i>This may be a range</i>
	<i>Drop Down List (y/n)</i>	<i>If Yes, Agency Name</i>				
New Well 6	No		Skycrest	2016	Dry Year	1,300
New Well 7	No			2019	Dry Year	1,300
New Well 8	No			2022	Dry Year	1,300

### 6.8 Summary of Existing and Planned Sources of Water

Table 6-8 summarizes the 2015 water supply volumes. Projected supply needs are summarized in Table 6-9. As the SJWD WSA provides CHWD sufficient supply to meet its needs, SJWD supply is set equal to projected demands minus groundwater usage. Groundwater usage from “maintenance” pumping during normal years is assumed to be 900 AFY.

Table 6-8 Retail: Water Supplies — Actual				
Water Supply	Additional Detail on Water Supply	2015		
<i>Drop down list May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool</i>		Actual Volume	Water Quality <i>Drop Down List</i>	Total Right or Safe Yield <i>(optional)</i>
Purchased or Imported Surface Water	SJWD	9,133	Drinking Water	
Groundwater	CHWD	841	Drinking Water	
<b>Total</b>		9,974		

Table 6-9 Retail: Water Supplies — Projected											
Water Supply	Additional Detail on Water Supply	Projected Water Supply <i>Report To the Extent Practicable</i>									
		2020		2025		2030		2035		2040 (optional)	
		Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield
Purchased or Imported Surface Water	SJWD	16,070		16,483		16,897		17,310			
Groundwater	CHWD	900		900		900		900			
	<b>Total</b>	16,970		17,383		17,797		18,210			

NOTES: Supply from SJWD matches demand minus CHWD groundwater.



## 7 Water Supply Reliability Assessment

This Section describes the supply reliability and summarizes the total water supplies for CHWD. Surface supply reliability is entirely dependent on SJWD's reliability analysis of its supplies.

### 7.1 Constraints on Water Sources

SJWD's water supplies are subject to legal constraints through the CVP and State Board cutbacks and use restrictions as described in the 2015 SJWD UWMP. Total supply availability is also influenced by the Water Forum Agreement (WFA). Both CHWD and SJWD are signatories of the WFA. The WFA stipulates that SJWD supply can be cut back to a minimum of 54,200 AFY, however, it is not a legal mandate such as the CVP and State Board restrictions. Supply reductions are further discussed in Sub-Section 7-2. The quality of water from Folsom Reservoir is considered good as the drainage basin is mostly alpine-based snow pack at the higher elevations and forest at the lower elevations with little to no urbanization. There are no water quality impacts expected that would reduce the supply.

There are no legal constraints in the wholesale/water supply agreement (WSA) regarding supply allotment or shortage requirements.

CHWD's groundwater supplies are subject to factors that could impact reliability. Groundwater basin issues could impact CHWD's groundwater supply. If the wells begin to produce contaminated groundwater, the supply could either be eliminated, reduced or treated. The basin elevation levels have historically decreased, and only recently stabilized or even increased in some locations. If the groundwater levels decrease further, CHWD well capacities could be impacted or even eliminated. However, the SGA has a groundwater accounting framework implemented by the region's water agencies to mitigate and improve the groundwater basin conditions. It is assumed the only issue that could impact supply availability is groundwater contamination. Should this occur, CHWD will evaluate pump-and-treat alternatives versus drilling new wells.

The 2015 Consumer Confidence Report (CCR) detailing water quality is included in Appendix B.

### 7.2 Reliability by Type of Year

The reliability of each supply sources is summarized in Tables 7-1a and 7-1b. Table 7-1a summarizes the surface water supply from SJWD and was provided by SJWD. The SJWD supply is reduced to a minimum of 54,200 acre-feet during dry year periods per the Water Forum Agreement. During these times, SJWD assumes that all retailers will follow the 15 percent demand reductions as listed in the Water Forum Agreement. With these 15 percent demand reductions, SJWD projects sufficient supply for all retailers for the next 20 years. Table 7-1b presents the reliability for the CHWD groundwater supply. The groundwater supply has never been reduced due to dry year occurrences.

Table 7-1a Retail: Basis of Water Year Data			
Year Type	Base Year	Available SJWD Wholesale Supplies	
		Agency may provide volume only, percent only, or both	
		Volume Available	% of Average Supply
Average Year	2010	82,200	100%
Single-Dry Year	1977	54,200	
Multiple-Dry Years 1st Year	1990	54,200	
Multiple-Dry Years 2nd Year	1991	54,200	
Multiple-Dry Years 3rd Year	1992	54,200	

NOTES: Multiple tables - this is the SJWD supply table. Water Forum reduces SJWD total supplies to as low as 54,200 AFY

Table 7-1b Retail: Basis of Water Year Data			
Year Type	Base Year	Available Groundwater Supplies	
		Agency may provide volume only, percent only, or both	
		Volume Available	% of Average Supply
Average Year	2010		100%
Single-Dry Year	1977		100%
Multiple-Dry Years 1st Year	1990		100%
Multiple-Dry Years 2nd Year	1991		100%
Multiple-Dry Years 3rd Year	1992		100%

NOTES: Multiple tables - this is CHWD Groundwater. Groundwater has never been limited.

### 7.3 Supply and Demand Assessment

Normal year supply to demand projections are presented in Table 7-2. Projections indicate there is sufficient supply for the projected demands. Single dry year and multiple dry year projections are presented in Tables 7-3 and 7-4, respectively. The same supply availability is assumed for the single and multiple dry year scenarios. Projected demands during the dry year types are reduced 15 percent per the Water Forum Agreement.

SJWD provided information to CHWD regarding surface water supply availability during each year type. Through 2035, SJWD projects they will have sufficient surface water supply if demands are reduced 15 percent during dry years per the Water Forum Agreement. CHWD will maintain a groundwater supply of up to 5,000 AFY through the its groundwater system. CHWD assumes 900 AFY of groundwater from maintenance

pumping. Therefore the surface water purchased from SJWD is set equal to the projected demands minus 900 AFY of CHWD-produced groundwater.

As indicated in the tables, CHWD projects sufficient supplies during each dry year type. The groundwater supply, plus potential demand reductions during shortage periods, is assumed to provide sufficient reliability for these planning purposes.

Table 7-2 Retail: Normal Year Supply and Demand Comparison					
	2020	2025	2030	2035	2040 (Opt)
Supply totals (autofill from Table 6-9)	16,970	17,383	17,797	18,210	
Demand totals (autofill from Table 4-3)	16,970	17,383	17,797	18,210	
Difference	0	0	0	0	

Table 7-3 Retail: Single Dry Year Supply and Demand Comparison					
	2020	2025	2030	2035	2040 (Opt)
Supply totals	14,424	14,775	15,127	15,478	
Demand totals	14,424	14,775	15,127	15,478	
Difference	0	0	0	0	
NOTES: Demands reduced 15 percent.					

Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison						
		2020	2025	2030	2035	2040 (Opt)
First year	Supply totals	14,424	14,775	15,127	15,478	
	Demand totals	14,424	14,775	15,127	15,478	
	Difference	0	0	0	0	
Second year	Supply totals	14,424	14,775	15,127	15,478	
	Demand totals	14,424	14,775	15,127	15,478	
	Difference	0	0	0	0	
Third year	Supply totals	14,424	14,775	15,127	15,478	
	Demand totals	14,424	14,775	15,127	15,478	
	Difference	0	0	0	0	

NOTES: Assume multiple dry year values same as single dry year values.

## 8 Water Shortage Contingency Planning

### 8.1 Stages of Actions

The CHWD Water Conservation Program is summarized below in Table 8-1 and presented in Appendix C. CHWD applies a five-stage rationing plan during declared water shortages. The rationing plan also applies to catastrophic loss of water. The rationing plan determines a consumption reduction of over 50 percent of the normal consumption depending of causes, severity, and anticipated duration of the water supply shortage. The Plan proposes two types of conditions for Stage 4 and 5 declarations. Both Stage 4 and 5 contain provisions for short term and long-term conditions.

Table 8-1 Retail Stages of Water Shortage Contingency Plan		
Stage	Complete Both	
	Percent Supply Reduction <sup>1</sup> <i>Numerical value as a percent</i>	Water Supply Condition <i>(Narrative description)</i>
<i>Add additional rows as needed</i>		
1	0%	Normal water supply
2	5-10%	Probability that supply will not meet all demands
3	11-25%	Supply will not meet all demands
4	26-50%	Supply is up to 50 percent less than required.
5	More than 50%	SJWD supply less than 52,400 AFY
USBR Health/Safety	More than 75%	USBR declares water use for health and safety only.
<sup>1</sup> One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.		

### 8.2 Prohibition on End Uses

CHWD assigns restrictions and prohibitions on end uses for each stage of its Water Conservation Program. Restrictions and prohibitions are presented in Table 8-2. The restrictions in Table 8-2 are cumulative.

**Table 8-2 Retail Only: Restrictions and Prohibitions on End Uses**

Stage	Restrictions and Prohibitions on End Users <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement <i>Drop Down List</i>
1	Other	Wasteful use prohibited.	Yes
1	Landscape - Restrict or prohibit runoff from landscape irrigation		Yes
1	Other - Require automatic shut of hoses		Yes
1	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner		Yes
1	Other water feature or swimming pool restriction		Yes
2	Other - Prohibit use of potable water for washing hard surfaces		Yes
2	Landscape - Other landscape restriction or prohibition	Reduce irrigation up to 10 percent.	Yes
2	Other	Reduce indoor demand up to 10 percent.	Yes
2	Other	Construction water use monitored.	Yes
3	Landscape - Other landscape restriction or prohibition	Reduce irrigation up to 25 percent.	Yes
3	Other	Reduce indoor demand up to 25 percent.	Yes
3	CII - Restaurants may only serve water upon request		Yes
3	Other	Emergency tiered pricing.	Yes
4	Landscape - Prohibit all landscape irrigation	Except for trees and shrubs.	Yes
4	Other	Reduce indoor demand up to 50 percent.	Yes
4	Other	Most flushing prohibited.	Yes
4	Landscape - Other landscape restriction or prohibition	New installation prohibited.	Yes
4	Landscape - Limit landscape irrigation to specific days		Yes
5	Landscape - Other landscape restriction or prohibition	Reduce irrigation more than 50 percent.	Yes

**Table 8-2 Retail Only: Restrictions and Prohibitions on End Uses - Continued**

Stage	Restrictions and Prohibitions on End Users <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement <i>Drop Down List</i>
5	Other	Reduce indoor demand more than 50 percent.	Yes
5	Other	No construction water.	Yes
5	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water		Yes
5	Other	No new services.	Yes
USBR	Other	No outdoor irrigation.	Yes
USBR	Other	Reduce indoor demand by 75 percent.	Yes

### **8.3 Penalties, Charges, Other Enforcement of Prohibitions**

Enforcement actions are described in detail in the CHWD Water Conservation Program in Appendix C. In general, customers are provided notices and /or warning prior to penalty assessments.

### 8.4 Consumption Reduction Methods

Consumption reduction methods implemented at each stage are presented in Table 8-3.

Table 8-3 Retail Only: Stages of Water Shortage Contingency Plan - Consumption Reduction Methods		
Stage	Consumption Reduction Methods by Water Supplier <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool</i>	Additional Explanation or Reference <i>(optional)</i>
<i>Add additional rows as needed</i>		
1	Offer Water Use Surveys	
1	Provide Rebates on Plumbing Fixtures and Devices	
1	Provide Rebates for Landscape Irrigation Efficiency	
1	Reduce System Water Loss	
1	Other	Offer complete CUWCC-compliant conservation program.
2	Expand Public Information Campaign	
3	Implement or Modify Drought Rate Structure or Surcharge	
4	Decrease Line Flushing	
4	Increase Water Waste Patrols	
5	Moratorium or Net Zero Demand Increase on New Connections	
USBR	Other	Prohibit outdoor watering and reduce indoor demands 75 percent.

### 8.5 Determining Water Shortage Reductions

CHWD monitors water demand at all times through evaluation of customer meter reads. During water shortage periods, CHWD will also evaluate customer meter reads, groundwater production meters, and wholesale meters to determine impacts of water shortage stage prohibitions and other efforts to reduce water demands.

### 8.6 Revenue and Expenditure Impacts

During a water shortage condition where customer demands are decreased, it is anticipated that personnel and operations costs will not decrease at all, and may even increase depending on the shortage situation. The District maintains a cash reserve that can be used to offset short-term revenue reductions. However, if the supply shortage is



projected to last longer, the District may enact a Drought Rate Structure, similar to Resolution 28-2015, as included in Appendix D.

### **8.7 Resolution or Ordinance**

The adopted Water Conservation Program Ordinance 01-2016 is presented in Appendix C.

### **8.8 Catastrophic Supply Interruption**

In addition to reducing demands during a catastrophic loss of supply, CHWD has also identified actions to maintain short-term emergency supplies for health and fire-fighting needs. The District will power its well sites through portable and fixed power generators to pump groundwater. The District also maintains five primary, three secondary, and 19 emergency interconnections with its neighboring water agencies and can obtain additional supply as needed through these interconnections.

### **8.9 Minimum Supply Next Three Years**

Table 8-4 presents the estimated available supply for the next three years. SJWD projects full surface water supply for the next three years for all retailers (excluding any State emergency drought demand requirements). The supply includes CHWD's 5,000 AFY of groundwater capacity plus full supply from SJWD to meet projected demands over next three years. Projected CHWD demands over next three years are rounded to approximately 17,000 AFY.

<b>Table 8-4 Retail: Minimum Supply Next Three Years</b>			
	2016	2017	2018
Available Water Supply	22,000	22,000	22,000
NOTES: Assumes full SJWD surface supply plus 5,000 AF GW.			

## **9 Conservation and Demand Management**

CHWD maintains a comprehensive and successful Water Conservation Program. The District is a member of the California Urban Water Conservation Council (CUWCC) and annually reports best management practice (BMP) results. Annual monitoring and reporting for both the CUWCC and USBR requirements are accomplished through the CUWCC annual reporting website. In addition, CHWD is a signatory to the Water Forum Agreement and submits its BMP efforts, status and results annually to the Water Forum.

This 2015 UWMP Guidebook provides special guidance for CUWCC members who are in full compliance. Agencies in full compliance with the CUWCC can submit the 2013 and 2014 CUWCC coverage reports to meet UWMP compliance. CHWD is a CUWCC member in full compliance. Accordingly, the 2013 and 2014 CUWCC coverage reports are presented in Appendix E.

## 10 Plan Adoption, Submittal, and Implementation

### 10.1 Notice of Public Hearing

The UWMP requires specific coordination efforts as well. The agency must send a notice to all county and city governments within its service area of its intent to develop and adopt a 2015 UWMP. This notice must be sent at least 60 days prior to the public hearing to discuss the UWMP. A notice was sent to Sacramento County, Placer County, the City of Citrus Heights, and the City of Roseville informing them of CHWD's UWMP process as presented in Appendix F. These notifications are summarized in Table 10-1.

A public review process was included in the UWMP development. CHWD held a public review of the UWMP to discuss the plan and receive comments from the public. The meeting was conducted at the June 14, 2016 Board of Directors Meeting. Public notice of the meeting was provided at the previous Board meeting, and is included in Appendix G.

Table 10-1 Retail: Notification to Cities and Counties		
City Name	60 Day Notice	Notice of Public Hearing
City of Citrus Heights	X	X
City of Roseville	X	X
County Name <i>Down List</i>	60 Day Notice	Notice of Public Hearing
Sacramento County	X	X
Placer County	X	X

### 10.2 Public Hearing and Adoption

The UWMP was approved at the June 14, 2016 Board of Directors meeting. The adoption resolution is provided in Appendix H.

### 10.3 Plan Submittal

CHWD will submit the 2015 UWMP electronically to DWR by July 1, 2016. Within 30 days of adoption, CHWD will submit a copy of the UWMP to the State Library, Sacramento County, Placer County, City of Citrus Heights, and City of Roseville. A copy of the UWMP is available for public viewing during normal business hours at the District Office located at 6230 Sylvan Road, Citrus Heights CA 95610.

## **10.4 Implementation**

This 2015 UWMP presents the District's plans for investigating additional supplies and continued implementation of its Water Conservation Program. The District continues to implement its conservation program and maintains its membership with the California Urban Water Conservation Council (CUWCC), submitting annual reports to CUWCC.

The District is also a member of the Water Forum Agreement (WFA), a regional agreement between government agencies, water purveyors, the business community, and environmental groups with the co-equal objectives of providing a reliable water supply for planned development to the year 2030; and to preserve the region's environmental crown jewel, the lower American River. The District's agreement with WFA contains requirements for implementing water conservation programs. The District continues to implement the required programs and files annual progress reports to the Water Forum.

The District's water resources strategy includes the continuation of groundwater production to supplement its surface water supply from SJWD. The District has five wells of varying age. Over time, the older wells can become inefficient and must be rehabilitated or abandoned. New wells are installed to maintain or increase the reliable groundwater supply. The District continues to plan for well installation of new wells.

Implementation of the 2015 UWMP will be tracked through a variety of methods. Supply reliability issues will mostly be tracked through the SJWD WCA supply strategies. Progress and results of the conservation program will continue to be submitted to the CUWCC, Water Forum, and USBR, as well as to the DWR through the AB1420 compliance requirements. Compliance with the 20x2020 water demand targets will be tracked through the customer billing database and water supply quantities.

**Appendix A**  
**2015 DWR SBX7-7 Tables**

The 20x2020 process requires that a baseline demand be calculated from which target water demands are determined. The baseline demand is taken as the 10-year average gallon per day per capita, ending no earlier 2004. The baseline demand calculation is based on total supply into the system, and estimated service population for each year. The 2020 goal must be no more than 95 percent of a five-year gpcd average ending no earlier than 2007. The baseline and target calculation methodologies are presented below in the following tables per UWMP requirements. These SB X7-7 tables are also submitted separately to DWR per the UWMP requirements.

SB X7-7 Table 0: Units of Measurement Used in UWMP. The units selected for the analysis are acre-feet.

SB X7-7 Table 1: Baseline Period Ranges. Presents the baseline periods selected to meet each requirement.

SB X7-7 Table 2: Method for Population Estimates. The population calculation methodology is selected. CHWD utilized the DWR Population Tool.

SB X7-7 Table 3: Service Area Population. Presents the population served for each year in the baseline calculation and for 2015.

SB X7-7 Table 4: Annual Gross Water Use. Presents the annual CHWD groundwater and purchased SJWD surface water for each year in the baseline calculation and for 2015.

SB X7-7 Table 4-A: Volume Entering Distribution System. Presents the annual water into distribution system for each year in the baseline period and for 2015.

SB X7-7 Table 4-B: Indirect Recycled Water Use Deduction. Indicates there was no recycled water use during the baseline periods. This defines the allowable baseline period range of ten years.

SB X7-7 Table 4-C: Process Water Deduction Eligibility. Not used.

SB X7-7 Table 4-C.1: Process Water Deduction Eligibility. Not used.

SB X7-7 Table 4-C.2: Process Water Deduction Eligibility. Not used.

SB X7-7 Table 4-C.3: Process Water Deduction Eligibility. Not used.

SB X7-7 Table 4-C.4: Process Water Deduction Eligibility. Not used.

SB X7-7 Table 4-D: Process Water Deduction Volume. Not used.

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SB X7-7 Table 5: Gallons Per Capita Per Day (GPCD). Presents the annual gpcd calculations for the baseline period and for 2015.

SB X7-7 Table 6: Gallons Per Capita Per Day. Summarizes the two baseline gpcd and for 2015.

SB X7-7 Table 7: 2020 Target Method. Selects Method 1 for the 2020 Target Method.

SB X7-7 Table 7-A: Target Method 1. Presents the baseline gpcd and 2020 target gpcd.

SB X7-7 Table 7-B Target Method 2. Not used.

SB X7-7 Table 7-C Target Method 2. Not used.

SB X7-7 Table 7-D Target Method 2 Summary. Not used.

SB X7-7 Table 7-E Target Method 3. Not used.

SB X7-7 Table 7-F: Confirm Minimum Reduction for 2020 Target. Confirms minimum target reduction from the 5-year baseline analysis.

SB X7-7 Table 8: 2015 Interim Target GPCD. Presents the 2015 interim target gpcd.

SB X7-7 Table 9. 2015 Compliance. Confirms CHWD is in compliance with the 2015 interim target gpcd.

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**SB X7-7 Table 0: Units of Measure Used in UWMP\*** (select one from the drop down list)

Acre Feet

*\*The unit of measure must be consistent with Table 2-3*

NOTES:



**SB X7-7 Table-1: Baseline Period Ranges**

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	17,268	Acre Feet
	2008 total volume of delivered recycled water	0	Acre Feet
	2008 recycled water as a percent of total deliveries	0.00%	Percent
	Number of years in baseline period <sup>1</sup>	10	Years
	Year beginning baseline period range	1995	
	Year ending baseline period range <sup>2</sup>	2004	
	Number of years in baseline period	5	Years
5-year baseline period	Year beginning baseline period range	2003	
	Year ending baseline period range <sup>3</sup>	2007	

<sup>1</sup>If the 2008 recycled water percent is less than 10 percent, then the first baseline period is a continuous 10-year period. If the amount of recycled water delivered in 2008 is 10 percent or greater, the first baseline period is a continuous 10- to 15-year period.

<sup>2</sup>The ending year must be between December 31, 2004 and December 31, 2010.

<sup>3</sup>The ending year must be between December 31, 2007 and December 31, 2010.

**NOTES:**

**SB X7-7 Table 2: Method for Population Estimates**

<b>Method Used to Determine Population</b> (may check more than one)	
<input type="checkbox"/>	<b>1. Department of Finance (DOF)</b> DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2011 - 2015) when available
<input type="checkbox"/>	<b>2. Persons-per-Connection Method</b>
<input checked="" type="checkbox"/>	<b>3. DWR Population Tool</b>
<input type="checkbox"/>	<b>4. Other</b> DWR recommends pre-review
NOTES:	

**SB X7-7 Table 3: Service Area Population**

Year	Population	
<b>10 to 15 Year Baseline Population</b>		
Year 1	1995	63,419
Year 2	1996	63,745
Year 3	1997	64,037
Year 4	1998	64,295
Year 5	1999	64,519
Year 6	2000	64,708
Year 7	2001	62,133
Year 8	2002	65,061
Year 9	2003	65,116
Year 10	2004	65,504
Year 11		
Year 12		
Year 13		
Year 14		
Year 15		
<b>5 Year Baseline Population</b>		
Year 1	2003	65,116
Year 2	2004	65,504
Year 3	2005	64,797
Year 4	2006	65,405
Year 5	2007	65,413
<b>2015 Compliance Year Population</b>		
2015		65,093
NOTES:		

**SB X7-7 Table 4: Annual Gross Water Use \***

Baseline Year Fm SB X7-7 Table 3	Volume Into Distribution System Fm SB X7-7 Table(s) 4-A	Deductions					Annual Gross Water Use
		Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water Fm SB X7-7 Table 4-B	Water Delivered for Agricultural Use	Process Water Fm SB X7-7 Table(s) 4-D	
<b>10 to 15 Year Baseline - Gross Water Use</b>							
Year 1	18421			0		0	18,421
Year 2	20785			0		0	20,785
Year 3	21774			0		0	21,774
Year 4	20467			0		0	20,467
Year 5	23054			0		0	23,054
Year 6	20555			0		0	20,555
Year 7	21142			0		0	21,142
Year 8	19872			0		0	19,872
Year 9	18511			0		0	18,511
Year 10	21101			0		0	21,101
Year 11	0			0		0	0
Year 12	0			0		0	0
Year 13	0			0		0	0
Year 14	0			0		0	0
Year 15	0			0		0	0
<b>10 - 15 year baseline average gross water use</b>							<b>13,712</b>
<b>5 Year Baseline - Gross Water Use</b>							
Year 1	18,511			0		0	18,511
Year 2	21,101			0		0	21,101
Year 3	19,034			0		0	19,034
Year 4	18,835			0		0	18,835
Year 5	16,635			0		0	16,635
<b>5 year baseline average gross water use</b>							<b>18,823</b>
<b>2015 Compliance Year - Gross Water Use</b>							
2015	9,974			0		0	9,974

\* NOTE that the units of measure must remain consistent throughout the UWMP, as reported in Table 2-3

NOTES:

**SB X7-7 Table 4-A: Volume Entering the Distribution System(s)**

Complete one table for each source.

<b>Name of Source</b>		groundwater		
<b>This water source is:</b>				
<input checked="" type="checkbox"/>	The supplier's own water source			
<input type="checkbox"/>	A purchased or imported source			
<b>Baseline Year</b> <i>Fm SB X7-7 Table 3</i>		<b>Volume Entering Distribution System</b>	<b>Meter Error Adjustment*</b> <i>Optional (+/-)</i>	<b>Corrected Volume Entering Distribution System</b>
<b>10 to 15 Year Baseline - Water into Distribution System</b>				
Year 1	1995	89		89
Year 2	1996	43		43
Year 3	1997	476		476
Year 4	1998	1,337		1,337
Year 5	1999	2,711		2,711
Year 6	2000	2,192		2,192
Year 7	2001	588		588
Year 8	2002	2,296		2,296
Year 9	2003	573		573
Year 10	2004	1,347		1,347
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0
<b>5 Year Baseline - Water into Distribution System</b>				
Year 1	2003	573		573
Year 2	2004	1,347		1,347
Year 3	2005	100		100
Year 4	2006	100		100
Year 5	2007	98		98
<b>2015 Compliance Year - Water into Distribution System</b>				
<b>2015</b>		841		841
* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document				
NOTES:				

**SB X7-7 Table 4-A: Volume Entering the Distribution System(s)**

**Name of Source** SIWD

**This water source is:**

- The supplier's own water source
- A purchased or imported source

<b>Baseline Year</b> <i>Fm SB X7-7 Table 3</i>	<b>Volume Entering Distribution System</b>	<b>Meter Error Adjustment*</b> <i>Optional (+/-)</i>	<b>Corrected Volume Entering Distribution System</b>
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**10 to 15 Year Baseline - Water into Distribution System**

Year 1	1995	18,332	18,332
Year 2	1996	20,742	20,742
Year 3	1997	21,298	21,298
Year 4	1998	19,130	19,130
Year 5	1999	20,343	20,343
Year 6	2000	18,363	18,363
Year 7	2001	20,554	20,554
Year 8	2002	17,576	17,576
Year 9	2003	17,938	17,938
Year 10	2004	19,754	19,754
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0

**5 Year Baseline - Water into Distribution System**

Year 1	2003	17,938	17,938
Year 2	2004	19,754	19,754
Year 3	2005	18,934	18,934
Year 4	2006	18,735	18,735
Year 5	2007	16,537	16,537

**2015 Compliance Year - Water into Distribution System**

<b>2015</b>	9,133		9,133
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\* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document

NOTES:

SB X7-7 Table 4-B: Indirect Recycled Water Use Deduction (For use only by agencies that are deducting indirect recycled water)

Baseline Year Fm SB X7-7 Table 3	Surface Reservoir Augmentation				Groundwater Recharge			Total Deductible Volume of Indirect Recycled Water Entering the Distribution System	
	Volume Discharged from Reservoir for Distribution System Delivery	Percent Recycled Water	Recycled Water Delivered to Treatment Plant	Transmission/ Treatment Loss	Recycled Volume Entering Distribution System from Surface Reservoir Augmentation	Recycled Water Pumped by Utility*	Transmission/ Treatment Losses		Recycled Volume Entering Distribution System from Groundwater Recharge
<b>10-15 Year Baseline - Indirect Recycled Water Use</b>									
Year 1			0		0			0	0
Year 2			0		0			0	0
Year 3			0		0			0	0
Year 4			0		0			0	0
Year 5			0		0			0	0
Year 6			0		0			0	0
Year 7			0		0			0	0
Year 8			0		0			0	0
Year 9			0		0			0	0
Year 10			0		0			0	0
Year 11			0		0			0	0
Year 12			0		0			0	0
Year 13			0		0			0	0
Year 14			0		0			0	0
Year 15			0		0			0	0
<b>15 Year Baseline - Indirect Recycled Water Use</b>									
Year 1			0		0			0	0
Year 2			0		0			0	0
Year 3			0		0			0	0
Year 4			0		0			0	0
Year 5			0		0			0	0
<b>2015 Compliance - Indirect Recycled Water Use</b>									
2015			0		0			0	0

\*Suppliers will provide supplemental sheets to document the calculation for their input into "Recycled Water Pumped by Utility". The volume reported in this cell must be less than total groundwater pumped - See Methodology 1, Step 8, section 2.c.

NOTES:

**SB X7-7 Table 5: Gallons Per Capita Per Day (GPCD)**

Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Annual Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use (GPCD)
<b>10 to 15 Year Baseline GPCD</b>				
Year 1	1995	63,419	18,421	259
Year 2	1996	63,745	20,785	291
Year 3	1997	64,037	21,774	304
Year 4	1998	64,295	20,467	284
Year 5	1999	64,519	23,054	319
Year 6	2000	64,708	20,555	284
Year 7	2001	62,133	21,142	304
Year 8	2002	65,061	19,872	273
Year 9	2003	65,116	18,511	254
Year 10	2004	65,504	21,101	288
Year 11	0	0	0	
Year 12	0	0	0	
Year 13	0	0	0	
Year 14	0	0	0	
Year 15	0	0	0	
<b>10-15 Year Average Baseline GPCD</b>				<b>286</b>
<b>5 Year Baseline GPCD</b>				
Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use
Year 1	2003	65,116	18,511	254
Year 2	2004	65,504	21,101	288
Year 3	2005	64,797	19,034	262
Year 4	2006	65,405	18,835	257
Year 5	2007	65,413	16,635	227
<b>5 Year Average Baseline GPCD</b>				<b>258</b>
<b>2015 Compliance Year GPCD</b>				
<b>2015</b>		65,093	9,974	137
NOTES:				



**SB X7-7 Table 6: Gallons per Capita per Day**  
*Summary From Table SB X7-7 Table 5*

10-15 Year Baseline GPCD	286
5 Year Baseline GPCD	258
2015 Compliance Year GPCD	137

NOTES:

**SB X7-7 Table 7: 2020 Target Method***Select Only One*

Target Method		Supporting Documentation
<input checked="" type="checkbox"/>	Method 1	SB X7-7 Table 7A
<input type="checkbox"/>	Method 2	SB X7-7 Tables 7B, 7C, and 7D <i>Contact DWR for these tables</i>
<input type="checkbox"/>	Method 3	SB X7-7 Table 7-E
<input type="checkbox"/>	Method 4	Method 4 Calculator

NOTES:

**SB X7-7 Table 7-A: Target Method 1**  
20% Reduction

10-15 Year Baseline	GPCD	2020 Target GPCD
286		229
NOTES:		

**SB X7-7 Table 7-F: Confirm Minimum Reduction for 2020 Target**

5 Year Baseline GPCD <i>From SB X7-7 Table 5</i>	Maximum 2020 Target*	Calculated 2020 Target <i>Fm Appropriate Target Table</i>	Confirmed 2020 Target
258	245	229	229
<i>* Maximum 2020 Target is 95% of the 5 Year Baseline GPCD</i>			
NOTES:			

**SB X7-7 Table 8: 2015 Interim Target GPCD**

Confirmed 2020 Target <i>Fm SB X7-7</i> <i>Table 7-F</i>	10-15 year Baseline GPCD <i>Fm SB X7-7</i> <i>Table 5</i>	2015 Interim Target GPCD
229	286	257

NOTES:

SB X7-7 Table 9: 2015 Compliance

Actual 2015 GPCD	2015 Interim Target GPCD	Optional Adjustments (in GPCD)				Adjusted 2015 GPCD	2015 GPCD (Adjusted if applicable)	Did Supplier Achieve Targeted Reduction for 2015?
		Extraordinary Events	Weather Normalization	Economic Adjustment	TOTAL Adjustments			
137	257	From Methodology 8 (Optional)	From Methodology 8 (Optional)	From Methodology 8 (Optional)	0	136.7921797	136.7921797	YES

NOTES:

**Appendix B**  
**2015 Consumer Confidence Report (CCR)**

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# 2015 CONSUMER CONFIDENCE REPORT



This report is published by the San Juan Wholesale Customer Agencies: San Juan Water District, Citrus Heights Water District, Fair Oaks Water District and Orange Vale Water District. San Juan Water District provides reliable, high-quality water supplies to our customers. We serve nearly 184,000 customers in our retail and wholesale service areas throughout Sacramento and Placer counties. We test our surface water, which comes from the American River watershed, and our local groundwater for microbiological and chemical quality.

The U.S. Environmental Protection Agency and the State Water Resources Control Board maintain strict water quality standards designed to protect customers from waterborne disease organisms and harmful chemicals. As a public water agency, we are required by the USEPA to provide you with an annual Consumer Confidence Report.

This report provides you with information about drinking water quality and how we comply with drinking water quality standards. As your water provider, we are proud to report this year's CCR concludes that, once again, your drinking water meets all federal and state drinking water standards.

## WHAT'S IN YOUR WATER?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in the source water include:

• Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

• Inorganic contaminants, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

• Pesticides and herbicides, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

• Organic chemical contaminants, including synthetic and volatile organic chemicals, that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.

• Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

## WHERE DOES YOUR WATER COME FROM?

Water from the Agencies comes from two sources: treated surface water and groundwater. San Juan Water District diverts and treats surface water from Folsom Lake. This treated water is then distributed to the Agencies. Orange Vale Water Company and San Juan Water District receive 100 percent of their supply from treated surface water. If you are a consumer of Citrus Heights or Fair Oaks water districts, your water is a mixture of treated surface water from San Juan Water District and groundwater from local wells.

**San Juan Water District** – 100% surface water

**Orange Vale Water Company** – 100% surface water

**Citrus Heights Water District** – 91.6% surface water, 8.4% groundwater

**Fair Oaks Water District** – 89.3% surface water, 10.7% groundwater

Source water assessments have been conducted for all the water sources to enable the Agencies to understand the activities that have the greatest potential for contaminating the drinking water supplies. The groundwater sources were assessed in 2002 and the surface water source was evaluated in 2001. New wells for Citrus Heights Water District were assessed in 2008 and 2009. These assessments were conducted in accordance with State Board guidelines and copies of

the complete assessments are available for review at the respective agency offices.

San Juan Water District conducted the evaluation of the Folsom Lake source. It was found to be most vulnerable to potential contamination from the Folsom Lake State Recreation Area facilities, high-density housing and associated activities such as sewer and septic systems and fertilizer, pesticide and herbicide application, as well as illegal activities and dumping. The source water is typically treated using conventional treatment with filtration and disinfection that is designed to remove many contaminants. Again this year, your water meets all federal and state drinking water standards.

Citrus Heights and Fair Oaks water districts conducted assessments of their local groundwater wells. It was found that all the wells are vulnerable to commercial urban activities, such as active and historic gas stations, dry cleaners, leaking underground storage tanks, known contaminant plumes, automobile repair shops, and sewer collection systems, none of which are associated with any detected contaminants.

Although Orange Vale Water Company does not currently utilize available local groundwater, assessments found that wells within their service area would be most vulnerable to rural grazing activities.



## A NOTE FOR SENSITIVE POPULATIONS

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

## GENERAL INFORMATION ON LEAD

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The San Juan Family Agencies are responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

The San Juan Family Agencies test selected customer taps every three years for lead and over ninety-five percent of samples are non-detectable and therefore not reported in the data table.

## UNREGULATED CONTAMINANT MONITORING RULE (UCMR3) RESULTS

SEPA requires public water systems to collect data for unregulated constituents in drinking water supplies under the Unregulated Contaminant Monitoring Rule 3. Currently, these constituents have no drinking water standards but may be regulated in the future. More information on this USEPA program can be found at <http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/ucmr3/index.cfm>. Citrus Heights Water District and Fair Oaks Water District conducted sampling in 2014. Orange Vale Water Company and San Juan Water District conducted sampling in 2015. Several constituents were detected, none at any level of human health concern.

CONSTITUENT	Range (ug/L)	Average (ug/L)	Human Health Advisory	Potential Sources
HCFC-22 (chlorodifluoromethane)	ND-0.11 <sup>1</sup>	ND <sup>1</sup>	None	Refrigerant and propellant
	1.1-11 <sup>1</sup>	7.2 <sup>1</sup>		
Vanadium	0.52-8.1 <sup>2</sup>	3.4 <sup>2</sup>	State Board Notification Level – 50 ug/L	Naturally-occurring metal
	0.47-1.0 <sup>3</sup>	0.67 <sup>3</sup>		
	0.63-1.2 <sup>4</sup>	1 <sup>4</sup>		
Molybdenum	ND-1 <sup>1</sup>	ND <sup>1,2</sup>	USEPA Lifetime Health Advisory – 40 ug/L	Naturally-occurring metal
	ND-1.7 <sup>2</sup>			
Strontium	46-460 <sup>1</sup>	245 <sup>1</sup>	USEPA Lifetime Health Advisory – 4,000 ug/L	Naturally-occurring metal
	46-220 <sup>2</sup>	120 <sup>2</sup>		
	52-64 <sup>3</sup>	59.8 <sup>3</sup>		
Chlorate	ND-40 <sup>1</sup>	ND <sup>1</sup>	State Board Notification Level – 800 ug/L	Oxidant used in pyrotechnics and possible by-product of water treatment
	ND-240 <sup>2</sup>	37 <sup>2</sup>		
Testosterone	ND-0.00013 <sup>1</sup>	ND <sup>1</sup>	None	Mammalian hormone

<sup>1</sup> – Citrus Heights Water District (wells, treated surface water from SJWD, and distribution system - 2014)

<sup>2</sup> – Fair Oaks Water District (wells, treated surface water from SJWD, and distribution system - 2014)

<sup>3</sup> – SJWD (treated surface water and distribution system - 2015)

<sup>4</sup> – Orange Vale Water Company (treated surface water from SJWD and distribution system - 2015)

## KEY TO ABBREVIATIONS

PPB	parts per billion or micrograms per liter (µg/L)
PPM	parts per million or milligrams per liter (mg/L)
NTU	nephelometric turbidity units
µS/CM	microsiemens per centimeter
ND	not detected
NR	not required
N/A	not applicable
TON	threshold odor number

## WATER QUALITY DEFINITIONS

**Maximum Contaminant Level (MCL)** — The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

**Public Health Goal (PHG)** — The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

**Maximum Contaminant Level Goal (MCLG)** — The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.

**Maximum Residual Disinfectant Level (MRDL)** — The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG)** — The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**Primary Drinking Water Standard (PDWS)** — MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

**Treatment Technique (TT)** — A required process intended to reduce the level of a contaminant in drinking water.

**Regulatory Action Level (AL)** — The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

**Notification Level (NL)** — Health-based advisory level set by the State Board for constituents with no MCL. This is not an enforceable standard, although requirements and recommendations may apply if detected above this level.

# SAN JUAN WHOLESALE CUSTOMER AGENCIES – 2015 TABLE OF DETECTED CONSTITUENTS

## DETECTED PRIMARY DRINKING WATER CONSTITUENTS regulated to protect your health

CONSTITUENT	UNITS	PHG or (MCLG) or (MRDLG)	MCL or (MRDL)	San Juan Surface Water including Orange Vale Water Company(s)			Citrus Heights Groundwater			Fair Oaks Groundwater			MAJOR SOURCES
				RANGE	AVERAGE	YEAR SAMPLED	RANGE	AVERAGE	YEAR SAMPLED	RANGE	AVERAGE	YEAR SAMPLED	
Arsenic	PPB	0.004	10	ND	ND	2013	ND-3.7	ND	2013	ND - 2.2	ND	2006, 2012	Erosion of natural deposits; runoff from orchards; glass and electronics production waste
Barium	PPM	2	1	ND	ND	2013	ND-0.1	ND	2013	ND	ND	2006, 2012	Erosion of natural deposits and wastes from metal refineries
Fluoride	PPM	1	2.0	ND	ND	2013	ND-0.18	0.12	2013	ND - 0.11	ND	2006, 2012	Erosion of natural deposits; discharge from fertilizer and aluminum factories
Hexavalent Chromium	PPB	0.02	10	ND	ND	2015	ND-2.3	1.4	2014	ND-2.5	ND	2014	Erosion from natural deposits or discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities
Nitrate (as N)	PPM	10	10	ND	ND	2015	1.2 - 2.9	1.8	2014	ND - 0.5	0.5	2007, 2015	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Chlorine Residual (distribution system)	PPM	[4]	[4]	0.16-0.82 (0.15-0.89)	0.53 (0.5)	2015	0.22-0.8	0.54	2015	0.2 - 1.08	0.48	2015	Drinking water disinfectant added for treatment
Total Trihalomethanes (distribution system)	PPB	N/A	80	43-60 (33-61)	48.5 (47)	2015	ND-54	42	2015	ND-48	17.0	2015	By-product of drinking water disinfection
Haloacetic Acids (distribution system)	PPB	N/A	60	19-26 (19-30)	23.5 (24.5)	2015	ND-38	27	2015	ND-26	8.0	2015	By-product of drinking water disinfection
Control of Disinfection By-Product Precursors (TDC) (treated water) (b)	PPM	N/A	TT = 2	1.1-3.2	1.3	2015	NR	N/A	N/A	NR	N/A	N/A	Various natural and manmade sources
CONSTITUENT	UNITS	PHG or (MCLG)	MCL	LEVEL FOUND		YEAR SAMPLED	LEVEL FOUND		YEAR SAMPLED	LEVEL FOUND		YEAR SAMPLED	MAJOR SOURCES
Turbidity (b)	NTU	N/A	TT = 1 NTU	0.035		2015	NR		N/A	NR		N/A	Soil runoff
	% Samples	N/A	TT = ≤0.3 NTU	100		2015	NR		N/A	NR		N/A	
UNITS	PHG or (MCLG)	AL	90th PERCENTILE	# SAMPLED/ # EXCEED AL	YEAR SAMPLED	90th PERCENTILE	# SAMPLED/ # EXCEED AL	YEAR SAMPLED	90th PERCENTILE	# SAMPLED/ # EXCEED AL	YEAR SAMPLED	MAJOR SOURCES	
Copper	PPM	0.3	1.3	0.072 (0.076)	30/0 (31/0)	2015 (2015)	0.074	30/0	2015	0.054	30/0	2013	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

## DETECTED SECONDARY DRINKING WATER CONSTITUENTS regulated for aesthetic qualities

CONSTITUENT	UNITS	PHG or (MCLG)	MCL	San Juan Surface Water including Orange Vale Water Company			Citrus Heights Groundwater			Fair Oaks Groundwater			MAJOR SOURCES
				RANGE	AVERAGE	YEAR SAMPLED	RANGE	AVERAGE	YEAR SAMPLED	RANGE	AVERAGE	YEAR SAMPLED	
Total Dissolved Solids	PPM	N/A	1,000	41	41	2013	190-260	228	2013	100-400	181	2006, 2012	Runoff/leaching from natural deposits
Specific Conductance	µS/CM	N/A	1,600	58-84	72	2013	260-350	294	2013	140-550	263	2006, 2012	Substances that form ions when in water
Sulfate	PPM	N/A	500	4.8	4.8	2013	7.8-12	9.7	2013	3.6-28	10.8	2006, 2012	Runoff/leaching from natural deposits
Chloride	PPM	N/A	500	2.8	2.8	2013	10-18	15	2013	3.1-23	6.9	2006, 2012	Runoff/leaching from natural deposits
Turbidity	NTU	N/A	5	0.017-0.035	0.025	2015	ND-0.1	ND	2013	0.12-0.6	0.35	2006, 2012	Soil runoff
Odor	TON	N/A	3	2	2	2013	ND	ND	2013	ND	ND	2006, 2012	Naturally-occurring organic materials

## DETECTED UNREGULATED DRINKING WATER CONSTITUENTS (c)

CONSTITUENT	UNITS	PHG or (MCLG)	NL	San Juan Surface Water including Orange Vale Water Company			Citrus Heights Groundwater			Fair Oaks Groundwater			MAJOR SOURCES
				RANGE	AVERAGE	YEAR SAMPLED	RANGE	AVERAGE	YEAR SAMPLED	RANGE	AVERAGE	YEAR SAMPLED	
Hardness	PPM	N/A	NONE	20	20	2013	95-150	121	2013	47-210	86.8	2006, 2012	Hardness is the sum of polyvalent cations present in the water, generally naturally occurring magnesium and calcium.
Sodium	PPM	N/A	NONE	2.5	2.5	2013	11-23	18.8	2013	4.9-32	11.6	2006, 2012	Naturally occurring salt in the water
Calcium	PPM	N/A	NONE	5.2	5.2	2013	23-33	27	2013	12-43	19.6	2006, 2012	Erosion of natural deposits
Magnesium	PPM	N/A	NONE	1.7	1.7	2013	9.4-16	12.7	2013	4.2-25	9.2	2006, 2012	Erosion of natural deposits

(a)– Data for OVWC Distribution System is shown in parenthesis.

(b)– Only surface water sources must comply with PDWS for Control of Disinfection By-Product Precursors and turbidity.

(c)– Unregulated contaminant monitoring helps determine where certain contaminants occur and whether they need to be regulated.

The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Some of our data, though representative, are more than one year old.



## 2015 CONSUMER CONFIDENCE REPORT

### San Juan Wholesale Customer Agencies

P.O. Box 2157  
Granite Bay, CA 95746

#### Board of Directors

Edward J. "Ted" Costa  
Kenneth H. Miller  
Dan Rich  
Pamela Tobin  
Bob Walters

*Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.*

Your drinking water continues to meet all state and federal drinking water standards.



### CONTACT US

If you have any questions about this report or your water supply, please contact your local water provider. Each of the member agencies holds monthly board meetings that are open to the public as indicated below.



#### San Juan Water District

Contact Person:  
Greg Turner  
(916) 791-1715  
gturner@sjwd.org  
www.sjwd.org

Board Meetings:  
2nd and 4th Wednesday  
each month  
7:00 p.m.  
9935 Auburn-Folsom Road  
Granite Bay

#### Citrus Heights Water District

Contact Person:  
Brian Hensley  
(916) 725-6873  
bhensley@chwd.org  
www.chwd.org

Board Meetings:  
2nd Tuesday each month  
6:30 p.m.  
6230 Sylvan Road  
Citrus Heights

#### Fair Oaks Water District

Contact Person:  
Michael Nisenboym, P.E.  
(916) 844-3513  
mnisenboym@fowd.com  
www.fowd.com

Board Meetings:  
2nd Monday every month  
6:30 p.m.  
10326 Fair Oaks Boulevard  
Fair Oaks

#### Orange Vale Water Company

Contact Person:  
Mark DuBose  
(916) 988-1693  
mdubose@orangevalewater.com  
www.orangevalewater.com

Board Meetings:  
1st Tuesday each month  
5:00 p.m.  
9031 Central Avenue  
Orangevale

LEARN MORE ABOUT YOUR WATER AT [WWW.SJWD.ORG](http://WWW.SJWD.ORG)

**Appendix C**  
**Citrus Heights Water District Water Conservation Program**

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**ORDINANCE NO. 01-2016**

**AN ORDINANCE ESTABLISHING A WATER CONSERVATION PROGRAM WITHIN  
CITRUS HEIGHTS WATER DISTRICT**

WHEREAS, this Ordinance restates and reauthorizes the establishment of a Water Conservation Program, Mandatory Water Conservation Stage Regulations and progressive Enforcement Measures to be implemented to reduce water consumption within Citrus Heights Water District (“CHWD” or “District”); and

WHEREAS, the Ordinance is adopted pursuant to the laws of the State of California; and

WHEREAS, this Ordinance supersedes and nullifies Ordinance 02-91 and any amendments thereto, regarding the District’s Water Conservation Program; and

WHEREAS, the District recognizes that water is a valuable natural resource, which should not be wasted, and the District has the mission of providing its customers with high quality water for domestic, commercial, irrigation, and fire protection purposes at adequate pressures and equitable rates; and

WHEREAS, the District recognizes that water availability can be adversely affected by weather conditions, environmental commitments, a depleting ground-water basin, and growth; and

WHEREAS, no provisions of the District’s Water Conservation Program shall apply to fire hydrants, fire mains, fire sprinkler lines or other equipment used solely for fire protection purposes. No provisions of the District’s Water Conservation Program shall apply to any hospital, health care or convalescent facility or any other type of facility where the health and welfare would be affected by restrictions on water used, nor shall it apply to veterinary hospitals. Such facilities are encouraged to conserve water to the extent possible. However, the District’s Water Conservation Program does apply to the outdoor grounds, yards and parking areas of these facilities; and

WHEREAS, the adoption and enforcement of a comprehensive Water Conservation Program will allow the District to delay or avoid declaring a water shortage emergency pursuant to Water Code Section 350; and

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of CHWD adopt this Ordinance 01-2016 regarding the District’s Water Conservation Program, Mandatory Water Conservation Stage Regulations, and progressive Enforcement Measures.

**SECTION A – WATER CONSERVATION STAGE DEFINITIONS:**

**STAGE 1 – NORMAL WATER SUPPLY:** The District’s water supply or distribution system is able to meet all the water demands of its customers in the immediate future.

**STAGE 2 – WATER ALERT:** There is a probability that the District’s water supply or distribution system will not be able to meet all the water demands of its customers.

**STAGE 3 – WATER WARNING:** The District’s water supply or distribution system will not be able to meet all the water demands of its customers.

**STAGE 4 – WATER CRISIS: SHORT-TERM (45 days or less):** The District’s water supply or distribution system is not able to meet all the water demands of its customers under STAGE 3 – WATER WARNING requirements because of a temporary emergency or other short-term supply or

distribution system constraints.

**STAGE 4 – WATER CRISIS: LONG-TERM: (more than 45 days):** The District’s water supply or distribution system is not able to meet all the water demands of its customers under STAGE 3 – WATER WARNING requirements because of drought or other constraints on water supplies or the water distribution system that are long-term, rather than temporary in nature.

**STAGE 5 – WATER EMERGENCY: SHORT-TERM (45 days or less):** The District is experiencing a major failure of water supply, storage, or distribution infrastructure because of a temporary emergency or other short-term constraints.

**STAGE 5 – WATER EMERGENCY: LONG-TERM (more than 45 days):** The District is experiencing a major failure of water supply, water storage, or distribution infrastructure because of drought or other constraints that are long-term, rather than temporary in nature.

**SECTION B – WATER CONSERVATION STAGE DECLARATION:**

Upon the declaration or ratification by the Board of Directors of a specific Stage, as defined in Section A, the following Mandatory Water Conservation Stage Regulations shall be in effect:

The declaration of Short-Term Stage 4 or Short-Term Stage 5 Mandatory Water Conservation Stage Regulations may be made by the agency’s General Manager or his/her designee, subject to ratification by the agency’s Board of Directors in a regular or special session.

**SECTION C – MANDATORY WATER CONSERVATION STAGE REGULATIONS – STAGES 1 – 5:**

**STAGE 1 – NORMAL WATER SUPPLY**

1. Water shall be used for beneficial purposes only; all unnecessary and wasteful uses of water are prohibited.
2. Water shall be confined to the customer’s property and shall not be allowed to run off to adjoining properties or to the roadside ditch or gutter. Care shall be taken not to water past the point of saturation.
3. Free-flowing hoses for all uses are prohibited. Automatic shut-off devices shall be attached on any hose or filling apparatus in use.
4. Leaking customer pipes or faulty sprinklers shall be repaired within five (5) working days or less if warranted by the severity of the problem.
5. All pools, spas, and ornamental fountains/ponds shall be equipped with a recirculation pump and shall be constructed to be leak-proof. Pool draining and refilling shall be allowed only for health, maintenance, or structural considerations.
6. Washing streets, parking lots, driveways, sidewalks, or buildings, is prohibited except as necessary for health, esthetic or sanitary purposes.
7. Customers are encouraged to take advantage of the District’s water conservation programs and rebates.

**STAGE 2 – WATER ALERT**

1. Water shall be used for beneficial purposes only; all unnecessary and wasteful uses of water

are prohibited.

2. Water shall be confined to the customer's property and shall not be allowed to run off to adjoining properties or to the roadside ditch or gutter. Care shall be taken not to water past the point of saturation.
3. Free-flowing hoses for all uses are prohibited. Automatic shut-off devices shall be attached on any hose or filling apparatus in use.
4. Leaking customer pipes or faulty sprinklers shall be repaired within five (5) working days or less if warranted by the severity of the problem.
5. All pools, spas, and ornamental fountains/ponds shall be equipped with a recirculation pump and shall be constructed to be leak-proof. Pool draining and refilling shall be allowed only for health, maintenance, or structural considerations.
6. Washing streets, parking lots, driveways, sidewalks, or buildings, is prohibited except as necessary for health, esthetic or sanitary purposes.
7. Customers are encouraged to take advantage of the District's water conservation programs and rebates.
8. Reduce landscape and pasture irrigation by 5 – 10%. Customers with "smart" irrigation timers or controllers are asked to set their controllers to achieve 90 to 95% of the evapotranspiration "ET" rate. Drip irrigation systems are excluded from this requirement.
9. Reduce indoor water use by 5 – 10%. Contact the District for tips and techniques to reduce indoor water use.
10. Users of construction meters and fire hydrant meters will be monitored for efficient water use.

### **STAGE 3 – WATER WARNING**

1. Water shall be used for beneficial purposes only; all unnecessary and wasteful uses of water are prohibited.
2. Water shall be confined to the customer's property and shall not be allowed to run off to adjoining properties or to the roadside ditch or gutter. Care shall be taken not to water past the point of saturation.
3. Free-flowing hoses for all uses are prohibited. Automatic shut-off devices shall be attached on any hose or filling apparatus in use.
4. Leaking customer pipes or faulty sprinklers shall be repaired within two (2) working days or less if warranted by the severity of the problem.
5. All pools, spas, and ornamental fountains/ponds shall be equipped with a recirculation pump and shall be constructed to be leak-proof. Pool draining and refilling shall be allowed only for health, maintenance, or structural considerations.
6. Washing streets, parking lots, driveways, sidewalks, or buildings, is prohibited except as necessary for health, esthetic or sanitary purposes.

7. Customers are encouraged to take advantage of the District's water conservation programs and rebates.
8. Reduce landscape and pasture irrigation by 11 – 25%. Customers with "smart" irrigation timers or controllers are asked to set their controllers to achieve 75 to 89% of the evapotranspiration "ET" rate. Drip irrigation systems are excluded from this requirement.
9. Reduce indoor water use by 11 – 25%. Contact the District for tips and techniques to reduce indoor water use.
10. Users of construction meters and fire hydrant meters will be monitored for efficient water use.
11. Restaurants shall serve water only upon request.
12. Provisions of the Water Shortage Rate Structure may be implemented by the Board of Directors.

#### **STAGE 4 – WATER CRISIS: SHORT-TERM**

1. Water shall be used for beneficial purposes only; all unnecessary and wasteful uses of water are prohibited.
2. Water shall be confined to the customer's property and shall not be allowed to run off to adjoining properties or to the roadside ditch or gutter. Care shall be taken not to water past the point of saturation.
3. Free-flowing hoses for all uses are prohibited. Automatic shut-off devices shall be attached on any hose or filling apparatus in use.
4. Leaking customer pipes or faulty sprinklers shall be repaired within 24 hours or less if warranted by the severity of the problem.
5. All pools, spas, and ornamental fountains/ponds shall be equipped with a recirculation pump and shall be constructed to be leak-proof. No potable water from the District's system shall be used to fill or refill swimming pools, artificial lakes, ponds or streams. Water use for ornamental ponds and fountains is prohibited.
6. Washing streets, parking lots, driveways, sidewalks, or buildings, is prohibited except as necessary for health or sanitary purposes.
7. Customers are encouraged to take advantage of the District's water conservation programs and rebates.
8. Reduce landscape and pasture irrigation by 26 – 50%. Customers with "smart" irrigation timers or controllers are asked to set their controllers to achieve 50 to 74% of the evapotranspiration "ET" rate. Drip irrigation systems are NOT excluded from this requirement.
9. Reduce indoor water use by 26 - 50%. Contact the District for tips and techniques to reduce indoor water use.
10. Users of construction meters and fire hydrant meters will be monitored for efficient water use. Use of reclaimed water for construction purposes is encouraged.



11. Restaurants shall serve water only upon request.
12. Flushing of sewers or fire hydrants is prohibited except in case of emergency and for essential operations or unless specifically authorized by the District.
13. Installation of new turf or landscaping is prohibited.
14. Irrigation shall be limited to two days per week. The days of the week when outdoor water will be permitted shall be set based on the last digit of the street address. Odd addresses, streetscapes, and medians shall limit watering to Tuesdays and Saturdays; even addresses shall limit watering to Wednesdays and Sundays. No irrigation is permitted on Mondays, Thursdays and Fridays. Irrigation should be limited to the minimal amount of water necessary to keep plants and trees alive. Application of potable water to outdoor landscapes during and within 48 hours after measurable rainfall is prohibited.

#### **STAGE 4 – WATER CRISIS: LONG-TERM**

1. Water shall be used for beneficial purposes only; all unnecessary and wasteful uses of water are prohibited.
2. Water shall be confined to the customer's property and shall not be allowed to run-off to adjoining properties or to the roadside ditch or gutter. Care shall be taken not to water past the point of saturation.
3. Free-flowing hoses for all uses are prohibited. Automatic shut-off devices shall be attached on any hose or filling apparatus in use.
4. Leaking customer pipes or faulty sprinklers shall be repaired within 24 hours or less if warranted by the severity of the problem.
5. All pools, spas, and ornamental fountains/ponds shall be equipped with a recirculation pump and shall be constructed to be leak-proof. No potable water from the District's system shall be used to fill or refill swimming pools, artificial lakes, ponds or streams. Water use for ornamental ponds and fountains is prohibited.
6. Washing streets, parking lots, driveways, sidewalks, or buildings, is prohibited except as necessary for health or sanitary purposes.
7. Customers are encouraged to take advantage of the District's water conservation programs and rebates.
8. Reduce landscape and pasture irrigation by 26 – 50%. Customers with "smart" irrigation timers or controllers are asked to set their controllers to achieve 50 to 74% of the evapotranspiration "ET" rate. Drip irrigation systems are NOT excluded from this requirement.
9. Reduce indoor water use by 26 - 50%. Contact the District for tips and techniques to reduce indoor water use.
10. Users of construction meters and fire hydrant meters will be monitored for efficient water use. Use of reclaimed water for construction purposes is encouraged.
11. Restaurants shall serve water only upon request.

12. Provisions of the Water Shortage Rate Structure may be implemented by the Board of Directors.
13. Flushing of sewers or fire hydrants is prohibited except in case of emergency and for essential operations or unless specifically authorized by the District.
14. Installation of new turf or landscaping is prohibited.
15. Irrigation shall be limited to two days per week. The days of the week when outdoor water will be permitted shall be set based on the last digit of the street address. Odd addresses, streetscapes, and medians shall limit watering to Tuesdays and Saturdays; even addresses shall limit watering to Wednesdays and Sundays. No irrigation is permitted on Mondays, Thursdays and Fridays. Irrigation should be limited to the minimal amount of water necessary to keep plants and trees alive. Application of potable water to outdoor landscapes during and within 48 hours after measurable rainfall is prohibited.
16. Water for flow testing and construction purposes from water agency fire hydrants and blow-offs is prohibited. Use of reclaimed water for construction purposes is encouraged.
17. No commitments will be made to provide service for new water service connections unless the Department of Water Resources Model Water Efficient Landscape Ordinance, found at: <http://www.water.ca.gov/wateruseefficiency/docs/MWEL09-10-09.pdf>, is followed and the plans have been approved by the county or city building department which has jurisdiction over the property location. Any authorized landscape for new connections is subject to all restrictions set forth in Stage IV.

#### **STAGE 5 – WATER EMERGENCY: SHORT-TERM**

The declaration of Short-Term Stage 5 water conservation requirements may be declared by the agency's General Manager or his/her designee and subject to ratification by the agency's Board of Directors in a regular or special session. A short-term declaration is for water shortage conditions expected for a duration of 45 days or less.

1. Water shall be used for beneficial purposes only; all unnecessary and wasteful uses of water are prohibited.
2. Water shall be confined to the customer's property and shall not be allowed to run-off to adjoining properties, roadside, ditch or gutter. Care shall be taken not to water past the point of saturation.
3. Free-flowing hoses for all uses are prohibited. Automatic shut-off devices shall be attached on any hose or filling apparatus in use.
4. Leaking customer pipes or faulty sprinklers shall be repaired immediately. Water service will be suspended until repairs are made.
5. All pools, spas, and ornamental fountains/ponds shall be equipped with a recirculation pump and shall be constructed to be leak-proof. No potable water from the District's system shall be used to fill or refill swimming pools, artificial lakes, ponds or streams. Water use for ornamental ponds and fountains is prohibited.
6. Washing streets, parking lots, driveways, sidewalks, or buildings, is prohibited except as

- necessary for health or sanitary purposes.
7. Customers are encouraged to take advantage of the District's water conservation programs and rebates.
  8. Reduce landscape and pasture irrigation by more than 50%. Customers with "smart" irrigation timers or controllers are asked to set their controller to achieve 75% or more of the evapotranspiration "ET" rate. Drip irrigation systems are not excluded from these requirements.
  9. Reduce indoor water use by more than 50%. Contact the District for tips and techniques to reduce indoor water use.
  10. Use of construction meters and fire hydrants is prohibited except in case of emergency and for essential operations or unless specifically authorized by the District.
  11. Restaurants shall serve water only upon request.
  12. Flushing of sewers or fire hydrants is prohibited except in case of emergency and for essential operations or unless specifically authorized by the District.
  13. Installation of new turf or landscaping is prohibited.
  14. Irrigation shall be limited to two days per week. The days of the week when outdoor watering will be permitted shall be set based on the last digit of the street address. Odd addresses, streetscapes and medians shall limit watering to Tuesdays and Saturdays; Even addresses shall limit watering to Wednesdays and Sundays. No irrigation is permitted on Mondays, Thursdays and Fridays. Irrigation should be limited to a minimal amount necessary to keep plants and trees alive. Application of potable water to outdoor landscapes during and within 48 hours of measurable rainfall is prohibited.
  15. Water for flow testing and construction purposes from water agency fire hydrants and blow-offs is prohibited. No potable water from the District's system shall be used for construction purposes including but not limited to dust control, compaction, or trench jetting. Use of reclaimed water for construction purposes is encouraged.
  16. No commitments will be made to provide service for new water service connections unless the Department of Water Resources Model Water Efficient Landscape Ordinance, found at: <http://www.water.ca.gov/wateruseefficiency/docs/MWEL09-10-09.pdf>, is followed and the plans have been approved by the county or city building department which has jurisdiction over the property location. Any authorized landscape for new connections is subject to all restrictions set forth in Stage 4.
  17. Automobiles or equipment shall be washed only at commercial establishments that use recycled or reclaimed water.
  18. Landscape and pasture irrigation is prohibited.

#### **STAGE 5 – WATER EMERGENCY: LONG-TERM**

1. Water shall be used for beneficial purposes only; all unnecessary and wasteful uses of water are prohibited.
2. Water shall be confined to a customer's property and shall not be allowed to run-off to

adjoining properties, roadsides, ditch or gutter. Care shall be taken not to water past the point of saturation.

3. Free-flowing hoses for all uses are prohibited. Automatic shut-off devices shall be attached on any hose or filling apparatus in use.
4. Leaking customer pipes shall be repaired immediately. Water service will be suspended until repairs are made.
5. All pools, spas, and ornamental fountains/ponds shall be equipped with a recirculation pump and shall be constructed to be leak-proof. No potable water from the District's system shall be used to fill or refill swimming pools, artificial lakes, ponds or streams. Water use for commercial and multi-family residential ornamental ponds and fountains is prohibited.
6. Washing streets, parking lots, driveways, sidewalks, or buildings, is prohibited except as necessary for health or sanitary purposes.
7. Customers are encouraged to take advantage of the District's water conservation programs and rebates.
8. Landscape and pasture irrigation are prohibited except for trees and shrubs.
9. Reduce indoor water use by more than 50%. Contact the District for tips and techniques to reduce indoor water use.
10. Use of construction meters and fire hydrants is prohibited except in the case of emergency and for essential operations or unless specifically authorized by the District.
11. Restaurants shall serve water only upon request.
12. Provisions of the Water Shortage Rate Structure may be implemented by the Board of Directors.
13. Flushing of sewers or fire hydrants is prohibited except in case of emergency and for essential operations or unless specifically authorized by the District.
14. Installation of new turf or landscaping is prohibited.
15. Outdoor irrigation is prohibited except for trees and shrubs.
16. Water for flow testing and construction purposes from water agency fire hydrants and blow-offs is prohibited. No potable water from the District's system shall be used for construction purposes including but not limited to dust control, compaction, or trench jetting. Use of reclaimed water for construction purposes is encouraged.
17. No commitments will be made to provide service for new water connections.
18. Automobiles or equipment shall be washed only at commercial establishments that use recycled or reclaimed water.

1. A severely low water supply exists. Water to be used for purposes of interior residential, sanitation, and fire protection.
2. Reduce indoor water use by more than 75%. Outdoor Irrigation is prohibited.

**SECTION D – ENFORCEMENT MEASURES:**

- A. Upon initial observation by District personnel or authorized designee of a violation of the Mandatory Water Conservation Stage Regulations, as outlined in Section C of the Mandatory Water Conservation Stage Regulations, the violator shall be informed of the District's current Water Conservation Stage Requirements, shall be provided with appropriate water conservation information, and offered a free Water Efficiency Review. If no contact is made, a Courtesy Notice will be left at the premises informing the customer of the observed violation. The customer will be informed of the consequences of further violations.
- B. Upon a second observation by District personnel or authorized designee of a violation of the Mandatory Water Conservation Stage Regulations, as outlined in Section C of the Mandatory Water Conservation Stage Regulations, a Notice of Violation will be issued and left at the premises informing the customer of the violation and the consequences of further violations. A \$50.00 penalty will be applied to the customer's account for noncompliance of the Mandatory Conservation Stage Requirements. The customer's water service will be terminated (at District's discretion) until the violation is corrected. Prior to a scheduled water service termination, the customer may choose to pay the penalty fee and correct the violation as specified in the required time frame designated by the current Stage Declaration.
- C. Upon a third observation by District personnel or authorized designee of a violation of the Mandatory Water Conservation Regulations, as outlined in Section C of the Mandatory Water Conservation Stage Requirements, a Notice of Violation will be issued and left at the premises informing the customer of the violation and the consequences of further violations. A \$100.00 penalty will be applied to the customer's account for noncompliance of the Mandatory Water Conservation Stage Regulations. The customer's water service will be terminated (at District's discretion) until the violation is corrected. Prior to a scheduled water service termination, the customer may choose to pay the penalty fee and correct the violation as specified in the required time frame designated by the current Stage Declaration.
- D. Upon a fourth observation by District personnel or authorized designee of a violation of the Mandatory Water Conservation Regulations, as outlined in Section C of the Mandatory Water Conservation Stage Regulations, a Notice of Violation will be issued and left at the premises informing the customer of the violation and the consequences of further violations. A \$250.00 penalty will be applied to the customer's account for noncompliance of the Mandatory Water Conservation Stage Regulations. The customer's water service will be terminated (at District's discretion) until the violation is corrected. Prior to a scheduled water service termination, the customer may choose to pay the penalty fee and correct the violation as specified in the required time frame designated by the current Stage Declaration.
- E. Customers for whom these Mandatory Water Conservation Stage Regulations may present an undue hardship may request a variance from the District. Said variance request shall be submitted to the Water Efficiency Coordinator and shall accurately describe the reason for

non-compliance with specific requirements in the Mandatory Water Conservation Stage Regulations. A variance request will be approved or denied in writing by the District's General Manger or the Board of Directors.

- F. Violation notices from other than the current calendar year shall be considered null and void when applying the enforcement provisions of the Mandatory Water Conservation Stage Regulations.

**SECTION E:**

EFFECTIVE MAY10, 2016 THIS ORDINANCE SHALL BE IN FULL FORCE AND EFFECT UPON THE DATE OF ITS PASSAGE.

PASSED AND ADOPTED by the Board of Directors of Citrus Heights Water District, this 10<sup>th</sup> day of May 2016, by the following vote, to-wit:

AYES:	Directors:
NOES:	Directors:
ABSENT:	Directors:

SEAL

\_\_\_\_\_  
ALLEN B. DAINS, President  
Board of Directors  
Citrus Heights Water District

ATTEST:

\_\_\_\_\_  
ROBERT A. CHURCHILL  
Secretary

**Appendix D**  
**2015 Drought Rate Structure**

CITRUS HEIGHTS WATER DISTRICT  
RESOLUTION NO. 28-2015

RESOLUTION RENEWING AND EXTENDING THE WATER SHORTAGE RATE STRUCTURE  
FOR CITRUS HEIGHTS WATER DISTRICT  
AND  
REMOVING THE TWENTY FIVE PERCENT (25%) WATER SHORTAGE RATE APPLIED TO THE  
USAGE PORTION OF CUSTOMERS' BILLS

WHEREAS, CITRUS HEIGHTS WATER DISTRICT continues to identify the potential financial impacts of water shortage due to drought or other water supply emergency; and

WHEREAS, the District developed a Water Shortage Rate Structure, enacted in 2015, for offsetting the resulting financial deficit; and

WHEREAS, a noticed Public Hearing was held on November 17, 2015 for the purpose of receiving public comment on the proposed renewal of the Water Shortage Rate Structure; and

WHEREAS, discontinuing the twenty-five percent (25%) Water Shortage Rate on the usage portion of customers' bills, effective January 1, 2016, is recommended as part of the overall budget and rate adoption process for 2016.

NOW THEREFORE, BE IT RESOLVED AND ORDERED AS FOLLOWS:

1. The proposed extended Water Shortage Rate Structure is:

CITRUS HEIGHTS WATER DISTRICT WATER SHORTAGE RATE STRUCTURE <sup>(1)</sup>						
	STAGE 1 NORMAL SUPPLY	STAGE 2 WATER ALERT	STAGE 3 WATER WARNING	STAGE 4 WATER CRISIS	STAGE 5 WATER EMERGENCY	USBR HEALTH & SAFETY STD
Use Reduction Goals	None	5% to 10%	11% to 25%	26% to 50%	Over 50%	Over 75%
<b>Bi-Monthly Service Charges <sup>(2)</sup></b>						
<b>Water Usage Charges (\$/CCF) <sup>(3)</sup></b>						
Standard Water Usage Rate (a)	\$ 0.8735	\$ 0.8735	\$ 0.8735	\$ 0.8735	\$ 0.8735	\$ 0.8735
<b>Water Shortage Charge <sup>(4)</sup></b>			10%	25%	40%	55%
Sample Water Shortage Charges (b)			\$ 0.0874	\$ 0.2184	\$ 0.3494	\$ 0.4804
Sample Aggregated Usage Rates (a + b)			\$ 0.9609	\$ 1.0919	\$ 1.2229	\$ 1.3539
<b>Excess Use Charge <sup>(5)</sup></b>				50%	150%	250%
Sample Excess Use Charges (c)				\$ 0.5459	\$ 1.8344	\$ 3.3848
Sample Aggr. Excess Use Rates (a + b + c)				\$ 1.6378	\$ 3.0573	\$ 4.7387
<b>Excess Use Charge applies to usage above amounts shown <sup>(6)</sup></b>		%-inch meter	26 CCF			
		1-inch meter	52 CCF			
		1½-inch meter	156 CCF			
		2-inch meter	208 CCF			
		3-inch meter	416 CCF			
		4-inch meter & larger	832 CCF			

(1) This Table shows the proposed Water Shortage Charges and Excess Use Charges applied to the Standard Water Usage Rates, using 2016 as an example. The percentages would be applied to any then-current Standard Water Usage Rates in future years.

(2) No changes to the bi-monthly service charges are proposed during water shortages.

(3) 1 CCF equals 100 cubic feet which equals 748 gallons of water.

(4) Water Shortage Charges are incremental increases in the Standard Water Usage Rate applied in

Stages 3, 4 and 5, and with the United States Bureau of Reclamation (USBR) Health and Safety limitation.

(5) Excess Use Charges effectively create a higher-priced second tier, and would apply only in Stages 4 and 5, and with the Health and Safety limitation. The percentage is applied to the combined Standard Water Usage and Water Shortage rate to create the second tier.

(6) Excess Use Charge applies to bi-monthly usage in excess of amounts shown for each meter size.



The Water Shortage Rate Structure will remain in effect until or unless the Board opts to remove the Water Shortage Rate Structure.

2. Section 3 of Citrus Heights Water District Resolution 14-2015, enacting a 25% Water Shortage Rate applied to the usage portion of customers' bills, is repealed, effective January 1, 2016.

PASSED AND ADOPTED by the Board of Directors of the CITRUS HEIGHTS WATER DISTRICT, this 17th day of November 2015, by the following vote, to-wit:

AYES: Directors: Dains, Sheehan, Riehle  
NOES: Directors: None  
ABSTAIN: Directors: None  
ABSENT: Directors: None

SEAL



A handwritten signature in black ink, appearing to read "Allen B. Dains", written over a horizontal line.

ALLEN B. DAINS, President  
Board of Directors  
Citrus Heights Water District

ATTEST:

A handwritten signature in black ink, appearing to read "Robert A. Churchill", written over a horizontal line.

ROBERT A. CHURCHILL, Secretary

**Appendix E**  
**CUWCC 2013/2014 Coverage Reports**



CUWCC BMP Retail Coverage Report 2013

Foundational Best Management Practices for Urban Water Efficiency

BMP 1.1 Operation Practices

**ON TRACK**

5998 Citrus Heights WD

1. Conservation Coordinator provided with necessary resources to implement BMPs?

Name:

Rex Meurer

Title:

Water Efficiency Coordinator

Email:

rmeurer@chwd.org

2. Water Waste Prevention Documents

WW Document Name	WWP File Name	WW Prevention URL	WW Prevention Ordinance Terms Description
Option A Describe the ordinances or terms of service adopted by your agency to meet the water waste prevention requirements of this BMP.	CHWD Water Conservation Stages08pdf.pdf	<a href="http://www.water.ca.gov/wateruseefficiency/docs/LandscapeOrdinanceReport_to_Leg-4-22-2011.pdf">http://www.water.ca.gov/wateruseefficiency/docs/LandscapeOrdinanceReport_to_Leg-4-22-2011.pdf</a>	See above uploaded file #1 Conservation Stage Requirements for Citrus Heights Water District (attachment 1). Citrus Heights Water District supports AB 1881 through the City of Citrus Heights and Sacramento County (above in URL address). CHWD is current
Option B Describe any water waste prevention ordinances or requirements adopted by your local jurisdiction or regulatory agencies within your service area.			
Option C Describe any documentation of support for legislation or regulations that prohibit water waste.			
Option D Describe your agency efforts to cooperate with other entities in the adoption or enforcement of local requirements consistent with this BMP.			Citrus Heights Water District participates in Regional Water Authorities Water Efficiency Program (RWA). RWA coordinates an annual effort to coordinate neighboring Water District's stage requirements
Option E Describe your agency support positions with respect to adoption of legislation or regulations that are consistent with this BMP.			
Option F Describe your agency efforts to support local ordinances that establish permits requirements for water efficient design in new development.			CHWD supports AB 1881 through the City of Citrus Heights and Sacramento County



CUWCC BMP Retail Coverage Report 2013

*Foundational Best Management Practices for Urban Water Efficiency*

BMP 1.1 Operation Practices

**ON TRACK**

At Least As effective As

No

Exemption

No

Comments:



CUWCC BMP Coverage Report 2013

*Foundational Best Management Practices For Urban Water Efficiency*

BMP 1.2 Water Loss Control

**ON TRACK**

5998 Citrus Heights WD

Completed Standard Water Audit Using AWWA Software?	Yes
AWWA File provided to CUWCC?	Yes
AWWAWaterAudit2013FINAL.xls	
AWWA Water Audit Validity Score?	73
Complete Training in AWWA Audit Method	Yes
Complete Training in Component Analysis Process?	Yes
Component Analysis?	Yes
Repaired all leaks and breaks to the extent cost effective?	Yes
Locate and Repair unreported leaks to the extent cost effective?	Yes

Maintain a record keeping system for the repair of reported leaks, including time of report, leak location, type of leaking pipe segment or fitting, and leak running time from report to repair. Yes

Provided 7 Types of Water Loss Control Info

Leaks Repairs	Value Real Losses	Value Apparent Losses	Miles Surveyed	Press Reduction	Cost Of Interventions	Water Saved (AF)
276		1149.98	0		294884	352

At Least As effective As

CHWD actively report and investigate possible leaks when noticed. Water main leaks are typically repaired within two days and a leak repair report prepared by the responsible field operations. Water Efficiency staff actively monitors for leaks while

Exemption

Comments:



**BMP 1.3 Metering With Commodity 2013**

**ON TRACK**

Reporting unit name

Citrus Heights WD

Reporting unit number:

5998

**Implementation**

Does your agency have any unmetered service connections?

No

If YES, has your agency completed a meter retrofit plan?

No

Enter the number of previously unmetered accounts fitted with meters during reporting year:

Are all new service connections being metered?

Yes

Are all new service connections being billed volumetrically?

Yes

Has your agency completed and submitted electronically to the Council a written plan, policy or program to test, repair and replace meters?

Yes

**Meters Matrix**

Account Type	Num Of Metered Accounts	Num Of Metered Accounts Read	Num Of Metered Accounts Billed By Volume	Billing Frequency	Estimated Bills Per Year	Meter Readings Per Year
Single-Family	16357	16357	16357	Bi-monthly	0	6
Multi-Family	2275	2275	2275	Bi-monthly	0	6
Commercial	732	732	732	Bi-monthly	0	6
Institutional	182	182	182	Bi-monthly	0	6
Other	45	45	45	Bi-monthly	0	6

Number of CII Accounts with Mixed-use Meters

385

Number of CII Accounts with Mixed-use Meters Retrofitted with Dedicated Irrigation Meters during Reporting Period

0

**Feasibility Study**

Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?

Yes

If YES, please fill in the following information:

A. When was the Feasibility Study conducted

6/29/2011

Describe, upload or provide an electronic link to the Feasibility Study Upload File

Mixed Use Feasibility study indicates it would not be cost effective to replace mixed use meters with dedicated irrigation meters.



**BMP 1.3 Metering With Commodity 2013**

Copy of Mixed Use Feasability study 2011.xls

At Least As effective As

Exemption

Comments:



**BMP 1.4 Retail Conservation Pricing**

**On Track**

5998 Citrus Heights WD

Canadian Water and Wastewater Association

Customer Class	Water Rate Type	Conserving Rate?	(V') Total Revenue Commodity Charges	(M') Total Revenue Fixed Charges
Single-Family	Increasing Block	Yes	2974802.6	4878443.7
Multi-Family	Increasing Block	Yes	886660.64	901480.79
Commercial	Increasing Block	Yes	492627.81	340143.03
Institutional	Increasing Block	Yes	244971.18	54901.53
Other	Increasing Block	Yes	3465.44	6304.9
			<b>4602527.67</b>	<b>6181273.95</b>

Calculate:  $V / (V + M)$  43 %

Upload file:

Agency Provide Sewer Service: No

At Least As effective As

Exemption

Comments:

Option 2 Model Results for  $V/(V'+M')=31\%$ .  $43\%>31\%$ : On Track.





## CUWCC BMP Coverage Report 2013

*Foundational Best Management Practices For Urban Water Efficiency*

### BMP 2.1 Public Outreach

**ON TRACK**

5998 Citrus Heights WD

Retail

Does your agency perform Public Outreach programs? Yes

The list of wholesale agencies performing public outreach which can be counted to help the agency comply with the BMP

The name of agency, contact name and email address if not CUWCC Group 1 members

Did at least one contact take place during each quarter of the reporting year? No

Public Outreach Program List	Number
Website	4
Newsletter articles on conservation	4
Landscape water conservation media campaigns	4
General water conservation information	12
Email Messages	12
<b>Total</b>	<b>36</b>

Did at least one contact take place during each quarter of the reporting year? Yes

Number Media Contacts	Number
Articles or stories resulting from outreach	12
News releases	4
Newspaper contacts	6
Radio contacts	4
Television contacts	4
Written editorials	4
Online Advertisings	6
<b>Total</b>	<b>40</b>

Did at least one website update take place during each quarter of the reporting year? Yes

Public Information Program Annual Budget

Annual Budget Category	Annual Budget Amount
Public Outreach Budget	25000
<b>Total Amount:</b>	<b>25000</b>

Description of all other Public Outreach programs

Green Gardener classes offered

Comments:



CUWCC BMP Coverage Report 2013

*Foundational Best Management Practices For Urban Water Efficiency*

**BMP 2.1 Public Outreach**

**ON TRACK**

--

At Least As effective As

No

--

Exemption

No

0



CUWCC BMP Coverage Report 2013

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.2 School Education Programs

ON TRACK

5998 Citrus Heights WD

Retail

Does your agency implement School Education programs? Yes

The list of wholesale agencies performing public outreach which can be counted to help the agency comply with the BMP

San Juan Water District - Wholesale

Vicki Sacksteder

Materials meet state education framework requirements? Yes

A student newspaper supplement called Be Water Smart News, Water, the Never Ending Cycle includes activities and illustrations. Written by an award-winning environmental educator and newly updated by water efficiency experts, it tells the never-en

Materials distributed to K-6? Yes

A student newspaper supplement called Be Water Smart News, Water, the Never Ending Cycle includes activities and illustrations. A Mr. Leaky "Water Conservation & You" booklet for grades K-4.

Materials distributed to 7-12 students? Yes (Info Only)

The colorful student newspaper supplement called Living Rivers of the Sacramento Valley is distributed by the Sacramento Bee to all (9-12) teachers that have subscribed for this particular water supplement or chose to participate in the Water Spots V

Annual budget for school education program: 8000.00

Description of all other water supplier education programs

Water Cycle, Water Efficiency and Conservation materials. (Grade level specific)

Comments:

At Least As effective As No

Exemption No 0



# CUWCC BMP Coverage Report 2013

5998 Citrus Heights WD

Baseline GPCD 263.8

GPCD 2013 197.31

GPCD Target for 2018: 216.3

Biennial GPCD Compliance Table

**ON TRACK**

Year	Report	Target		Highest Acceptable Bound	
		% Base	GPCD	% Base	GPCD
2010	1	96.4%	254.30	100%	263.80
2012	2	92.8%	244.80	96.4%	254.30
2014	3	89.2%	235.30	92.8%	244.80
2016	4	85.6%	225.80	89.2%	235.30
2018	5	82.0%	216.30	82.0%	216.30



CUWCC BMP Retail Coverage Report 2014

Foundational Best Management Practices for Urban Water Efficiency

BMP 1.1 Operation Practices

**ON TRACK**

5998 Citrus Heights WD

1. Conservation Coordinator provided with necessary resources to implement BMPs?

Name:	Rex Meurer
Title:	Water Efficiency Coordinator
Email:	rmeurer@chwd.org

2. Water Waste Prevention Documents

WW Document Name	WWP File Name	WW Prevention URL	WW Prevention Ordinance Terms Description
Option A Describe the ordinances or terms of service adopted by your agency to meet the water waste prevention requirements of this BMP.		<a href="http://www.water.ca.gov/wateruseefficiency/docs/LandscapOrdinanceReport_to_Leg-4-22-2011.pdf">http://www.water.ca.gov/wateruseefficiency/docs/LandscapOrdinanceReport_to_Leg-4-22-2011.pdf</a>	See above uploaded file #1 Conservation Stage Requirements for Citrus Heights Water District (attachment 1). Citrus Heights Water District supports AB 1881 through the City of Citrus Heights and Sacramento County (above in URL address). CHWD is current
Option B Describe any water waste prevention ordinances or requirements adopted by your local jurisdiction or regulatory agencies within your service area.			CHWD Adopted a Stage 3 Water Warning. This requires customers to reduce their water consumption by 11-25%.
Option C Describe any documentation of support for legislation or regulations that prohibit water waste.			
Option D Describe your agency efforts to cooperate with other entities in the adoption or enforcement of local requirements consistent with this BMP.			Citrus Heights Water District participates in Regional Water Authorities Water Efficiency Program (RWA). RWA coordinates an annual effort to coordinate neighboring Water District's stage requirements and water reduction targets set by the SWRCB.
Option E Describe your agency support positions with respect to adoption of legislation or regulations that are consistent with this BMP.			



CUWCC BMP Retail Coverage Report 2014

*Foundational Best Management Practices for Urban Water Efficiency*

**BMP 1.1 Operation Practices**

**ON TRACK**

Option F Describe your agency efforts to support local ordinances that establish permits requirements for water efficient design in new development.

CHWD supports AB 1881 through the City of Citrus Heights and Sacramento County

At Least As effective As

No

Exemption

No

Comments:



CUWCC BMP Coverage Report 2014

*Foundational Best Management Practices For Urban Water Efficiency*

BMP 1.2 Water Loss Control

**ON TRACK**

5998 Citrus Heights WD

Completed Standard Water Audit Using AWWA Software? Yes  
 AWWA File provided to CUWCC? Yes  
 Copy\_of\_AWWA-WAS-v5.xls  
 AWWA Water Audit Validity Score? 75  
 Complete Training in AWWA Audit Method Yes  
 Complete Training in Component Analysis Process? Yes  
 Component Analysis? No  
 Repaired all leaks and breaks to the extent cost effective? Yes  
 Locate and Repair unreported leaks to the extent cost effective? Yes

Maintain a record keeping system for the repair of reported leaks, including time of report, leak location, type of leaking pipe segment or fitting, and leak running time from report to repair. Yes

Provided 7 Types of Water Loss Control Info

Leaks Repairs	Value Real Losses	Value Apparent Losses	Miles Surveyed	Press Reduction	Cost Of Interventions	Water Saved (AF)
102	30969	77565	4	False	188904	

At Least As effective As

My Operating Efficiency Indicator is not populating. When I manually enter the data it will not save.

Exemption

Comments:



### BMP 1.3 Metering With Commodity 2014

**ON TRACK**

Reporting unit name

Reporting unit number:

Citrus Heights WD

5998

#### Implementation

Does your agency have any unmetered service connections?

If YES, has your agency completed a meter retrofit plan?

Enter the number of previously unmetered accounts fitted with meters during reporting year:

Are all new service connections being metered?

Are all new service connections being billed volumetrically?

Has your agency completed and submitted electronically to the Council a written plan, policy or program to test, repair and replace meters?

#### Meters Matrix

Account Type	Num Of Metered Accounts	Num Of Metered Accounts Read	Num Of Metered Accounts Billed By Volume	Billing Frequency	Estimated Bills Per Year	Meter Readings Per Year
Single-Family	16378	16378	16378	Bi-monthly	12	12
Multi-Family	2280	2280	2280	Bi-monthly	4	4
Commercial	748	748	748	Bi-monthly	4	4
Institutional	189	189	189	Bi-monthly	1	1
Other	50	50	50	Bi-monthly	50	50

Number of CII Accounts with Mixed-use Meters

Number of CII Accounts with Mixed-use Meters Retrofitted with Dedicated Irrigation Meters during Reporting Period

#### Feasibility Study

Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?

If YES, please fill in the following information:

A. When was the Feasibility Study conducted

Describe, upload or provide an electronic link to the Feasibility Study Upload File

At Least As effective As

Exemption





**BMP 1.4 Retail Conservation Pricing ON TRACK**

5998 Citrus Heights WD

Implementation Option: Use Canadian Water Wastewater Association Rate Design Model

Canadian Water and Wastewater Association

Customer Class	Water Rate Type	Conserving Rate?	(V) Total Revenue Comodity Charges	(M) Total Revenue Fixed Carges
Single-Family	Uniform	Yes	2388739	5201526
Multi-Family	Uniform	Yes	763798	723450
Commercial	Uniform	Yes	355247	232776
Institutional	Uniform	Yes	163883	57876
Other	Uniform	Yes	6933	6678
			<b>3678600</b>	<b>6222306</b>

Calculate:  $V / (V + M)$  37 %

Upload file:

Agency Provide Sewer Service: No

At Least As effective As

Exemption

Comments:

I uploaded the Canadian Rate Model under the ALEA because it wont upload in option B. Option 2 Model Results for  $V/(V+M)=31\%$ .  $37\%>31\%$ : On Track.



CUWCC BMP Coverage Report 2014

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.1 Public Outreach

ON TRACK

5998 Citrus Heights WD Retail

Does your agency perform Public Outreach programs? Yes

The list of wholesale agencies performing public outreach which can be counted to help the agency comply with the BMP

The name of agency, contact name and email address if not CUWCC Group 1 members

Did at least one contact take place during each quarter of the reporting year? No

Public Outreach Program List	Number
Website	4
Newsletter articles on conservation	4
Landscape water conservation media campaigns	4
General water conservation information	12
Email Messages	4
<b>Total</b>	<b>28</b>

Did at least one contact take place during each quarter of the reporting year? Yes

Number Media Contacts	Number
Articles or stories resulting from outreach	4
News releases	4
Radio contacts	4
Television contacts	4
<b>Total</b>	<b>16</b>

Did at least one website update take place during each quarter of the reporting year? Yes

Public Information Program Annual Budget

Annual Budget Category	Annual Budget Amount
Public Outreach Budget	23000
<b>Total Amount:</b>	<b>23000</b>

Description of all other Public Outreach programs

Water Conservation classes

Comments:

At Least As effective As

Exemption



CUWCC BMP Coverage Report 2014

Foundational Best Management Practices For Urban Water Efficiency

**BMP 2.2 School Education Programs**

**ON TRACK**

5998 Citrus Heights WD

Retail

Does your agency implement School Education programs? Yes

The list of wholesale agencies performing public outreach which can be counted to help the agency comply with the BMP

San Juan Water District - Wholesale

Vicki Sacksteader

Materials meet state education framework requirements? Yes

A student newspaper supplement called Be Water Smart News, Water, the Never Ending Cycle includes activities and illustrations. Written by an award-winning environmental educator and newly updated by water efficiency experts, it tells the never-en

Materials distributed to K-6? Yes

A student newspaper supplement called Be Water Smart News, Water, the Never Ending Cycle includes activities and illustrations. A Mr. Leaky "Water Conservation & You" booklet for grades K-4.

Materials distributed to 7-12 students? Yes (Info Only)

The colorful student newspaper supplement called Living Rivers of the Sacramento Valley is distributed by the Sacramento Bee to all (9-12) teachers that have subscribed for this particular water supplement or chose to participate in the Water Spots V

Annual budget for school education program: 8000.00

Description of all other water supplier education programs

Water Cycle, Water Efficiency and Conservation materials. (Grade level specific)

Comments:

At Least As effective As No

Exemption No 0



# CUWCC BMP Coverage Report 2014

5998 Citrus Heights WD

Baseline GPCD: 263.8

GPCD in 2014 156.3

GPCD Target for 2018: 216.3

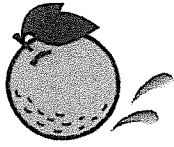
Biennial GPCD Compliance Table

**ON TRACK**

Year	Report	Target		Highest Acceptable Bound	
		% Base	GPCD	% Base	GPCD
2010	1	96.4%	254.30	100%	263.80
2012	2	92.8%	244.80	96.4%	254.30
2014	3	89.2%	235.30	92.8%	244.80
2016	4	85.6%	225.80	89.2%	235.30
2018	5	82.0%	216.30	82.0%	216.30

**Appendix F**  
**60-Day Notification**

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**CITRUS  
HEIGHTS  
WATER  
DISTRICT**

6230 Sylvan Road  
P.O. Box 286  
Citrus Heights  
California  
95611-0286

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916/ 725-6873  
fax  
916/ 725-0345  
website  
www.chwd.org

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**Allen B. Dains**  
**Caryl F. Sheehan**  
**Raymond A. Riehle**

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**Robert A. Churchill**

*Assistant General  
Manager/Treasurer*  
**Hilary M. Straus**

*Accounting Supervisor  
Assessor/Collector*  
**Susan K. Sohal**

March 1, 2016

Mr. Richard Plecker  
Water Utilities Manager  
City of Roseville  
2005 Hilltop Circle  
Roseville, CA 95747

Subject: Citrus Heights Water District 2015 UWMP Notice

Dear Mr. Richard Plecker,

The Citrus Heights Water District is preparing its 2015 Urban Water Management Plan (UWMP). The UWMP is required to be submitted to the California Department of Water Resources every five years (Water Code Sections 10610-10656). The law requires a water agency notify the county and city in which it serves water of its UWMP update. The District is updating its UWMP for 2015 and intends to present its findings at a public hearing in May. If you have any questions or comments regarding this process please contact me at (916) 725-6873.

Rex Meurer

Water Efficiency Coordinator



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March 1, 2016

David Boesch  
County Executive Office  
Placer County  
175 Fulweiler Avenue  
Auburn, CA 95603

Subject: Citrus Heights Water District 2015 UWMP Notice

Dear David Boesch,

The Citrus Heights Water District is preparing its 2015 Urban Water Management Plan (UWMP). The UWMP is required to be submitted to the California Department of Water Resources every five years (Water Code Sections 10610-10656). The law requires a water agency notify the county and city in which it serves water of its UWMP update. The District is updating its UWMP for 2015 and intends to present its findings at a public hearing in May. If you have any questions or comments regarding this process please contact me at (916) 725-6873.

Rex Meurer

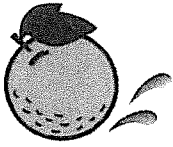
Water Efficiency Coordinator

*Board of Directors*  
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**Caryl F. Sheehan**  
**Raymond A. Riehle**

*General Manager/  
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www.chwd.org

March 1, 2016

Colleen McDuffee  
Planning Manager  
City of Citrus Heights  
7927 Auburn Blvd  
Citrus Heights, CA 95610

Subject: Citrus Heights Water District 2015 UWMP Notice

Dear Ms. Colleen McDuffee,

The Citrus Heights Water District is preparing its 2015 Urban Water Management Plan (UWMP). The UWMP is required to be submitted to the California Department of Water Resources every five years (Water Code Sections 10610-10656). The law requires a water agency notify the county and city in which it serves water of its UWMP update. The District is updating its UWMP for 2015 and intends to present its findings at a public hearing in May. If you have any questions or comments regarding this process please contact me at (916) 725-6873.

Rex Meurer

Water Efficiency Coordinator

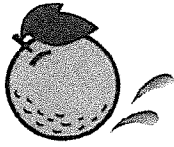
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March 1, 2016

Leighann Moffitt  
Planning Director  
Sacramento County Community Development  
827 7<sup>th</sup> Street Room 225  
Sacramento, CA 95814

Subject: Citrus Heights Water District 2015 UWMP Notice

Dear Leighann Moffitt,

The Citrus Heights Water District is preparing its 2015 Urban Water Management Plan (UWMP). The UWMP is required to be submitted to the California Department of Water Resources every five years (Water Code Sections 10610-10656). The law requires a water agency notify the county and city in which it serves water of its UWMP update. The District is updating its UWMP for 2015 and intends to present its findings at a public hearing in May. If you have any questions or comments regarding this process please contact me at (916) 725-6873.

Rex Meurer

Water Efficiency Coordinator

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**Hilary M. Straus**

*Accounting Supervisor  
Assessor/Collector*  
**Susan K. Sohal**

**Appendix G**  
**2015 UWMP Public Hearing Notification**

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770 L St., Suite 950  
Sacramento, CA 95814-3361  
(916) 567-9654 • Fax: (888) 567-1193

FILING STAMP

CITRUS HEIGHTS WATER DISTRICT  
LISA SMOOT  
PO BOX 286  
CITRUS HEIGHTS CA 95611-0286

**Proof of Publication**  
(C.C.P. §2015.5)

State of California )  
County of Sacramento )  
Invitation for Bid  
2015 Urban Water Management

I am a citizen of the United States; I am over the age of 18 years. I am the principal clerk of THE SACRAMENTO GAZETTE, a community newspaper printed and published in the English language, and adjudged to be a Newspaper of General Circulation for the City and County of Sacramento by the Sacramento County Superior Court on August 12, 1997. That the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of THE SACRAMENTO GAZETTE and not in any supplement thereof on the following date(s), to wit:

05-20-16  
05-27-16

Executed on: 05-27-16  
at Sacramento, California

I certify under penalty of perjury that the foregoing is true and correct:

  
\_\_\_\_\_  
David A. Fang, Publisher

**■ CITRUS HEIGHTS WATER DISTRICT ■**

**NOTICE OF HEARING FOR 2015 URBAN WATER MANAGEMENT PLAN**

A Public Hearing will be held on June 14, 2016 at 8:30 p.m. at the office of the Citrus Heights Water District (CHWD), located at 8230 Sylvan Rd., Citrus Heights, CA, 95610, to consider a draft of CHWD's 2015 Urban Water Management Plan.

The purpose of this Public Hearing is to present the draft Plan to the CHWD Board of Directors and accept and respond to any public questions or comments regarding the draft Plan. This Plan is being prepared to provide guidelines for long-term water management for CHWD. Spoken or written comments on the draft Plan may be presented at the Public Hearing, and written comments may be submitted in advance of the Hearing at the aforementioned address. Copies of the draft Plan may be reviewed at the aforementioned address or at CHWD's website, [www.chwd.org](http://www.chwd.org). Questions or comments about the draft Plan may be directed to Water Efficiency Coordinator Rex Meurer at (916) 725-8873.

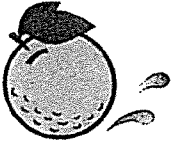
CITRUS HEIGHTS WATER DISTRICT  
By Robert A. Churchill, General Manager

Ad#: 76542 -- 05-20-16 05-27-16

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website  
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May 17, 2016

Leighann Moffitt  
Planning Director  
Sacramento County Community Development  
827 7<sup>th</sup> Street Room 225  
Sacramento, CA 95814

Subject: Citrus Heights Water District 2015 UWMP Notice

Dear Leighann Moffitt,

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If you have any questions or comments regarding this process please contact me at (916) 725-6873.

Thank you,

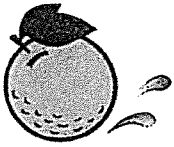
Rex Meurer  
Water Efficiency Coordinator

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website  
www.chwd.org

May 17, 2016

Henry Tingle  
City Manager  
City of Citrus Heights  
6237 Fountain Square Drive  
Citrus Heights, CA 95621

Subject: Citrus Heights Water District 2015 UWMP Notice

Dear Henry Tingle,

The Citrus Heights Water District is preparing its 2015 Urban Water Management Plan (UWMP). The UWMP is required to be submitted to the California Department of Water Resources every five years (Water Code Sections 10610-10656). The law requires a water agency to notify the county and city in which it serves water of its UWMP public hearing. The District will conduct a public hearing for its 2015 UWMP on June 14, 2016, 6:30 PM at the District offices located at 6230 Sylvan Rd, Citrus Heights, CA 95610.

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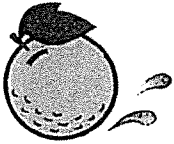
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May 17, 2016

Mr. Richard Plecker  
Water Utilities Manager  
City of Roseville  
2005 Hilltop Circle  
Roseville, CA 95747

Subject: Citrus Heights Water District 2015 UWMP Notice

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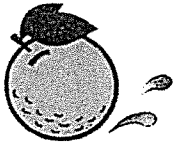
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May 17, 2016

David Boesch  
County Executive Office  
Placer County  
175 Fulweiler Avenue  
Auburn, CA 95603

Subject: Citrus Heights Water District 2015 UWMP Notice

Dear David Boesch,

The Citrus Heights Water District is preparing its 2015 Urban Water Management Plan (UWMP). The UWMP is required to be submitted to the California Department of Water Resources every five years (Water Code Sections 10610-10656). The law requires a water agency to notify the county and city in which it serves water of its UWMP public hearing. The District will conduct a public hearing for its 2015 UWMP on June 14, 2016, 6:30 PM at the District offices located at 6230 Sylvan Rd, Citrus Heights, CA 95610.

If you have any questions or comments regarding this process please contact me at (916) 725-6873.

Thank you,

Rex Meurer  
Water Efficiency Coordinator

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Hilary M. Straus

*Accounting Supervisor  
Assessor/Collector*  
Susan K. Sohal

**Appendix H**  
**2015 UWMP Adoption Resolution**

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# CITRUS HEIGHTS WATER DISTRICT

## DISTRICT STAFF REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

SUBJECT : STRATEGIC PLANNING SESSION  
 STATUS : Action Item  
 REPORT DATE : June 9, 2016  
 PREPARED BY : Hilary M. Straus, Assistant General Manager

**OBJECTIVE:**

Consider calling for a Strategic Planning Session Special Meeting to be held at the Rusch Park Sunrise Room on June 26, 2016 beginning at 8:30 AM.

**BACKGROUND AND ANALYSIS:**

Beginning with the 2017 budget process, CHWD is initiating an annual Strategic Planning process. The goal of Strategic Planning is to bring the Board of Directors and key District staff together to identify and prioritize the District’s key policy, program and project issues, and to identify what items, given limited resources (i.e., funding, time and staffing resources) the District should be working on over and above daily operations in the coming year.

The goal is to initiate the annual budget process with a Strategic Planning Session so that the budget for the coming year reflects the results of the Strategic Plan.

The Strategic Planning process has three major components: 1) Education; 2) Team Building; 3) Work Program Development. The following table summarizes the Strategic Planning Process:

**RECOMMENDATION:**

Call for a Strategic Planning Session Special Meeting to be held at the Rusch Park Sunrise Room on June 26, 2016 beginning at 8:30 AM.

**ACTION:**

Moved by Director \_\_\_\_\_, Seconded by Director \_\_\_\_\_, Carried \_\_\_\_\_

# CITRUS HEIGHTS WATER DISTRICT

## DISTRICT STAFF REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

SUBJECT : TRAINING / CONTINUED EDUCATION / MEETINGS  
 STATUS : Information Item  
 REPORT DATE : June 9, 2016  
 PREPARED BY : Robert A. Churchill, General Manager

Upcoming training, continued education and meeting opportunities for Directors and Management Staff for consideration. New items are noted in *bold italics*.

Common Abbreviations:

ACWA	Association of California Water Agencies
ASCE	American Society of Civil Engineers
AWWA	American Water Works Association
CSDA	California Special Districts Association
JPIA	Joint Powers Insurance Authority
WEF	Water Education Foundation

A. Jun 19-22 AWWA National Conference  
Chicago, IL

Recommended Attendees: None

B. Jun 21 ACWA Region 2 & 4 SGMA Program: The View From Above  
Antelope, CA

Recommended Attendees (7): Directors Dains, Sheehan, Riehle  
GM Churchill, AGM Straus, OM Gordon, WRS Hensley

C. Jul 14 Regional Water Authority (RWA) 15-Year Anniversary Celebration  
Sacramento, CA

CHWD has a Reserved Table for 8

Recommended Attendees (9): Directors Dains, Sheehan, Riehle  
GM Churchill, AGM Straus, PM Dietrich, OM Gordon, WRS Hensley,  
ACE Pieri

D. Sep 28-Oct 1 ASCE National Conference  
Portland, OR

Recommended Attendees: GM Churchill

E. Oct 24-27 AWWA CA/NV Section Fall Conference  
San Diego, CA

Recommended Attendees:

F. Nov 28-29 ACWA-JPIA Fall Conference  
Anaheim, CA

Recommended Attendees: Directors Dains, Sheehan, Riehle, AGM Straus

G. Nov 30-Dec 2 ACWA Fall Conference  
Anaheim, CA

Recommended Attendees: Directors Dains, Sheehan, Riehle, AGM Straus

H. WEF 2016 Water Tours

Oct 19-21 Northern California Tour

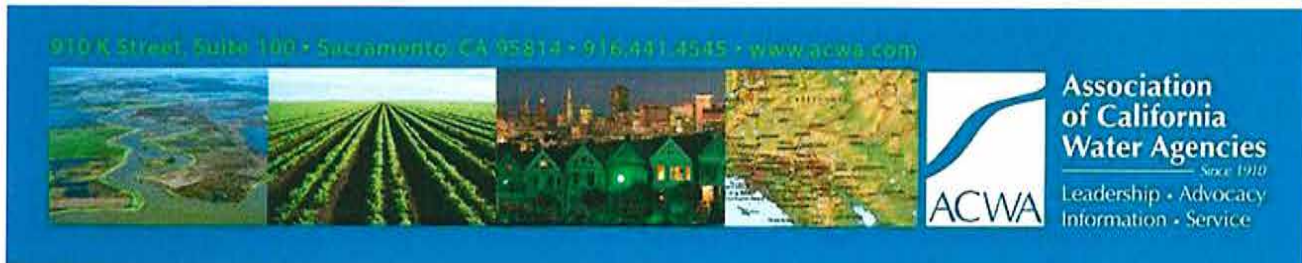
Nov 2-3 San Joaquin River Restoration Tour

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**Robert Churchill**

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**From:** Ana Torres <AnaT@acwa.com>  
**Sent:** Tuesday, May 17, 2016 5:03 PM  
**Subject:** Reminder: ACWA Region 2 Program in Collaboration with Region 4 - June 21



**REGISTRATION OPEN!**  
**ACWA REGION 2 PROGRAM**  
*IN COLLABORATION WITH ACWA REGION 4 PRESENT:*  
**SGMA: THE VIEW FROM ABOVE**

**Tuesday, June 21, 2016**

9:30 a.m. to 2:00 p.m.

Sacramento Suburban Water District's Antelope Gardens  
7800 Antelope North Road, Antelope, CA 95843

ACWA Region 2 in collaboration with Region 4 invite you to an event that will highlight an important issue for California water agencies, Groundwater Sustainability Agency formation. The program will feature panel discussions on formation issues and successes including basin division and cooperation agreements. The program will also feature Mark Cowin, Director, California Department of Water Resources as the lunch keynote speaker, and a ACWA Policy Update. *Preliminary Agenda* [HERE](#).

**Registration is available until June 15:**

<https://portal.acwa.com>

**ACWA Member Pre-Registration Fee: \$25**

**Non-Member Pre-Registration Fee: \$38**

**A \$5 fee will be added to onsite registrations.** Onsite registrations will be accommodated as space permits.

Registration fee includes continental breakfast, lunch, refreshments and materials.

**Online registration deadline is June 15, 2016 or until space is full.** Onsite registrations will be accommodated as space permits. Cancellations must be received in writing by 5 p.m. on June 15, 2016, in order to cancel a registration and receive reimbursement. Substitutions can be made by requesting it in writing by June 15, 2016. After that date,



**PLEASE JOIN US AS WE CELEBRATE**  
**THE 15-YEAR ANNIVERSARY**  
**OF THE REGIONAL WATER AUTHORITY**

**THURSDAY 14 JULY, 2016**

11:30 a.m. registration and networking  
12:00 p.m. lunch

**SCOTT'S SEAFOOD ON THE RIVER**  
4800 Riverside Boulevard • Sacramento

*Keynote Speaker:*

**DAVID COGDILL**  
CEO & President  
California Building Industry Association  
Former State Senator

Visit [tinyurl.com/RWAanniv](http://tinyurl.com/RWAanniv) to RSVP and purchase tickets by July 7, 2016.

*Questions:*

Contact Cecilia Partridge  
Regional Water Authority, (916) 967-7692



# ACWA UPCOMING EVENTS



## Conferences

### 2016 Fall Conference & Exhibition

November 29 – December 2, 2016

Anaheim Marriott Hotel, Anaheim

*Drinking water operator certification credit available.*

### 2017 Fall Conference & Exhibition

November 28 – December 1, 2017

Anaheim Marriott Hotel, Anaheim

*Drinking water operator certification credit available.*

### 2017 Spring Conference & Exhibition

May 9 – 12, 2017

Monterey Marriott & Portola Hotel

*Drinking water operator certification credit available.*

### 2018 Spring Conference & Exhibition

May 8 – 11, 2018

Sacramento Convention Center  
& Surrounding Hotels

*Drinking water operator certification credit available.*

## Seminars, Workshops & Region Events

### Region 2 Program in Collaboration with ACWA Region 4

*SGMA: The View from Above*

June 21, 2016

Sacramento Suburban  
Water District Antelope Garden

### Region 5 Event

September 18–19, 2016

Byron, CA

### Region 6 & 7 Event

October 14, 2016

Visalia, CA

### 2016 Steve Hall Fierce Competitor Golf Tournament

September 23, 2016

DarkHorse Golf Club, Auburn

### Region 10 Program & Tour

*Advanced Water Purification:*

*The Road to Resilience*

October 28, 2016

Vista Irrigation District, Vista

### 2016 Continuing Legal Education for Water Professionals

September 15–16, 2016

Bahia Resort Hotel, San Diego

*Continuing Legal Education (CLE)  
credit available.*

### 2016 Regulatory Summit

October 3–4, 2016

Bay Area, CA

*For updated event information, please visit [www.acwa.com](http://www.acwa.com)*

# CITRUS HEIGHTS WATER DISTRICT

## DISTRICT STAFF REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

SUBJECT : WATER QUALITY PUBLIC HEALTH GOALS  
 STATUS : Discussion / Action Item  
 REPORT DATE : April 27, 2016  
 PREPARED BY : Brian Hensley, Water Resources Supervisor

**OBJECTIVE:**

Receive report and call for a public hearing concerning the recently completed District report relative to water quality public health goals at the July 12, 2016 Board of Directors meeting.

**BACKGROUND AND ANALYSIS:**

Provisions of the California Health and Safety Code, Section 116470 (b), specify that public water systems serving more than 10,000 service connections such as Citrus Heights Water District (CHWD) (19,610 connections) must prepare a special report by July 1, 2010 and every three years thereafter, that gives information on the detection of any constituents above the Public Health Goals (PHG) published by the State Office of Environmental Health Hazard Assessment (OEHHA) which is part of Cal EPA. This report must be provided and made available at a public hearing of the District shortly after said date. The law also requires that where OEHHA has not adopted a PHG for a constituent, the water suppliers are to use the Maximum Contaminant Level Goals (MCLGs) adopted by United States Environmental Protection Agency (USEPA). Only constituents which have a California primary drinking water standard and for which either a PHG or MCLG has been set are to be addressed. Attached is a table of all detected regulated constituents with the Maximum Contaminant Levels (MCLs) and PHGs or MCLGs (Attachment 1) along with Section 116470 of the California Health and Safety Code (Attachment 2).

PHGs and MCLGs are not enforceable. The Best Available Technology (BAT) to reach such low levels has not been defined and may not realistically be available. Accurate cost estimates are difficult, if not impossible, and are highly speculative and theoretical. Therefore, they have limited value and may not warrant significant investment of agency time and money.

These reports are unique to California. They are required in addition to the extensive public reporting of water quality information that California water utilities have been doing for many years and in addition to the federally mandated annual Consumer Confidence Report.

In compliance with the California Health and Safety Code, the District previously prepared a PHG Report dated June 4, 2013, conducted a Public Hearing on June 11, 2013 and ordered the Report filed.

A copy of the District's PHG Report dated April 27, 2016 is attached.

**RECOMMENDATION:**

- a. Receive report and receive comments on the Draft PHG Report accompanying this report.
- b. Call for a Public Hearing for consideration of adoption of the District's PHG Report at the July 12<sup>th</sup> Board of Directors meeting.

**ACTION:**

Moved by Director \_\_\_\_\_, Seconded by Director \_\_\_\_\_, Carried \_\_\_\_\_

CITRUS HEIGHTS WATER DISTRICT  
2016 REPORT ON SOURCE WATER QUALITY  
RELATIVE TO PUBLIC HEALTH GOALS

Background:

Provisions of the California Health and Safety Code (Reference No. 1) specify that larger (>10,000 service connections) water utilities prepare a special report by July 1, 2016 if their water quality measurements have exceeded any Public Health Goals (PHGs). PHGs are non-enforceable goals established by the Cal-EPA's Office of Environmental Health Hazard Assessment (OEHHA). The law also requires that where OEHHA has not adopted a PHG for a constituent, the water suppliers are to use the MCLGs adopted by USEPA. Only constituents which have a California primary drinking water standard and for which either a PHG or MCLG has been set are to be addressed.

There are a few constituents that are routinely detected in water systems at levels usually well below the drinking water standards for which no PHG or MCLG has yet been adopted by OEHHA or USEPA including Total Trihalomethanes. These will be addressed in a future required report after a PHG has been adopted.

The new law specifies what information is to be provided in the report. If a constituent was detected in the District's water supply for years 2013 - 2015 at a level exceeding an applicable PHG or MCLG, this report provides the information required by the law. Included is the numerical public health risk associated with the MCL and the PHG or MCLG, the category or type of risk that could be associated with each constituent, the best treatment technology available that could be used to reduce the constituent level, and an estimate of the cost to install that treatment if it is appropriate and feasible.

What Are PHGs?

PHGs are set by the California Office of Environmental Health Hazard Assessment (OEHHA) which is part of Cal-EPA and are based solely on public health risk considerations. None of the practical risk-management factors that are considered by the USEPA or the California Division of Drinking Water in setting drinking water standards (MCLs) are considered in setting the PHGs. These factors include analytical detection capability, treatment technology available, benefits and costs. The PHGs are not enforceable and are not required to be met by any public water system. MCLGs are the federal equivalent to PHGs.

Water Quality Data Considered:

All of the water quality data collected by our water system for years 2013 - 2015 for purposes of determining compliance with drinking water standards was considered. This data was all summarized in our 2013, 2014, and 2015 Consumer Confidence Reports which were mailed to all of our customers by June of each year.

Guidelines Followed:

The Association of California Water Agencies (ACWA) formed a workgroup which prepared guidelines for water utilities to use in preparing these newly required reports. The ACWA guidelines were used in the preparation of our report. No guidance was available from state regulatory agencies.



### Best Available Treatment Technology and Cost Estimates:

Both the USEPA and DDW adopt what are known as BATs or Best Available Technologies which are the best known methods of reducing contaminant levels to the MCL. Costs can be estimated for such technologies. However, since many PHGs and all MCLGs are set much lower than the MCL, it is not always possible or feasible to determine what treatment is needed to further reduce a constituent downward to or near the PHG or MCLG, many of which are set at zero. Estimating the costs to reduce a constituent to zero is difficult, if not impossible because it is not possible to verify by analytical means that the level has been lowered to zero. In some cases, installing treatment to try and further reduce very low levels of one constituent may have adverse effects on other aspects of water quality.

### Constituents Detected That Exceed a PHG or a MCLG:

The following is a discussion of constituents that were detected in one or more of our drinking water sources at levels above the PHG, or if no PHG, above the MCLG.

**Arsenic** is a naturally occurring element found throughout the earth's crust.

The PHG for arsenic is 0.004 ug/L and the MCL is 10 ug/L. Low levels of arsenic have been found in one of CHWD groundwater sources at 3.7 ug/L in 2013. This level is below the MCL. (Attachment 1) No action is required.

The health risks associated with arsenic are that some people who drink water containing arsenic in excess of the MCL over many years may experience skin damage or circulatory problems and may have an increased risk of getting cancer. The numerical health risk for carcinogenicity at the 10 ug/L MCL is  $2.5 \times 10^3$  (2.5 per 1,000) and  $1 \times 10^6$  (1 per 1 million) at the 0.004 ug/L PHG. This means that for every million people who drink two liters of water at the 0.004 ug/L PHG level of Arsenic daily for 70 years, no more than one person would be expected to develop cancer from exposure to Arsenic. (Attachment 1.1)

The BATs for arsenic removal at the 95% level are reverse osmosis, ion exchange, activated alumina, and modified coagulation and filtration. The least expensive BAT for arsenic removal in groundwater is an ion exchange method that would increase treatment costs by approximately \$623 per acre-foot (AF) of treated groundwater.

CHWD's average cost to produce groundwater was \$170/AF for 2015. CHWD's surface water source from SJWD (2015 purchase cost of \$189/AF) does not contain arsenic. CHWD's water supply utilization for 2015 was 92% surface water (9,133 AF) and 8% groundwater (841 AF).

**Hexavalent Chromium** is a naturally occurring element, but can also be produced by industrial processes.

The PHG for Hexavalent Chromium is 0.02 ug/L and the MCL is 10 ug/L. Low levels of Hexavalent Chromium have been found in CHWD groundwater sources at .056 – 2.3 ug/L in 2014. This level is below the MCL. (Attachment 1) No action is required.

The health risks associated with Hexavalent Chromium are that some people who drink water containing Hexavalent Chromium in excess of the MCL over many years may experience dermatitis, damage to liver, kidney circulation, and nerve tissue damage. The numerical health risk for carcinogenicity at the 10 ug/L MCL is  $5 \times 10^4$  (5 per 10,000) and  $1 \times 10^6$  (1 per 1 million) at the 0.02 ug/L PHG. This means that for every million people who drink two liters of water at the 0.02 ug/L PHG level of Hexavalent Chromium daily for 70 years, no more than one person would be expected to develop cancer from exposure to Hexavalent Chromium. (Attachment 1.1)

The BATs for Hexavalent Chromium removal at the 95% level are reverse osmosis, ion exchange, modified coagulation and filtration, and lime softening. The least expensive BAT for Hexavalent Chromium removal in groundwater is an ion exchange method that would increase treatment costs by an average cost of approximately \$1368 per acre-foot (AF) of treated groundwater.

CHWD's average cost to produce groundwater was \$170/AF for 2015. CHWD's surface water source from SJWD (2015 purchase cost of \$189/AF) does not contain Hexavalent Chromium. CHWD's water supply utilization for 2015 was 92% surface water (9,133 AF) and 8% groundwater (841 AF).

**Recommendations for further actions:**

The drinking water quality of the Citrus Heights Water District meets all State of California, and EPA drinking water standards set to protect public health. To further reduce the levels of the constituents identified in this report to meet the Public Health Goals would require additional costly treatment processes. The effectiveness of the treatment processes to provide any significant reductions in constituent levels at these already low values is uncertain. The health protection benefits of these further hypothetical reductions are not at all clear and may not be quantifiable. The District currently provides "safe drinking water" that is significantly below the health-based Maximum Contaminant Levels. Therefore, no action is proposed.

**Attachment 1**

Table of detected regulated constituents - California MCLs and PHG's and Federal MCLG's

Constituent	MCL (Maximum Contaminant Level)	DLR (Detectable Limit for Reporting)	CA PHG (MCLG)	District level
<b>Chemicals with MCLs in 22 CCR 64431 – Inorganic Chemicals</b>				
Arsenic	10 ug/L	2 ug/L	0.004 ug/L	3.7 ug/L
Hexavalent Chromium	10 ug/L	.03 ug/L	0.02 ug/L	.056 – 2.3 ug/L

**Attachment 1.1**

Health Risk Categories and Cancer Risk Values for Chemicals

Constituent	Health Risk Category	California PHG or USEPA MCLG (ug/L)	Cancer Risk at the PHG or MCLG	California MCL (ug/L)	Cancer Risk at the California MCL
<b>Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)</b>					
Arsenic	carcinogenicity (causes cancer)	0.004	1×10 <sup>6</sup> (one per million)	10 ug/L	2.5×10 <sup>3</sup> (2.5 per thousand)
Hexavalent Chromium	carcinogenicity (causes cancer)	0.02	1×10 <sup>6</sup> (one per million)	10 ug/L	5×10 <sup>4</sup> (five per ten thousand)

1 Health risk category based on the U.S. EPA MCLG document or California MCL document unless otherwise specified.

2 MCLG = maximum contaminant level goal established by U.S. EPA.

3 Cancer Risk = Upper estimate of excess cancer risk from lifetime exposure. Actual cancer risk may be lower or zero. 1×10<sup>6</sup> means one excess cancer case per million people exposed.

4 California MCL = maximum contaminant level established by California.

## Attachment 2

### *Section 116470. Consumer Confidence Report*

- (a) As a condition of its operating permit, every public water system shall annually prepare a consumer confidence report and mail or deliver a copy of that report to each customer, other than an occupant, as defined in Section 799.28 of the Civil Code, of a recreational vehicle park. A public water system in a recreational vehicle park with occupants as defined in Section 799.28 of the Civil Code shall prominently display on a bulletin board at the entrance to or in the office of the park, and make available upon request, a copy of the report. The report shall include all of the following information:
  - (1) The source of the water purveyed by the public water system.
  - (2) A brief and plainly worded definition of the terms "maximum contaminant level," "primary drinking water standard," and "public health goal."
  - (3) If any regulated contaminant is detected in public drinking water supplied by the system during the past year, the report shall include all of the following information:
    - (A) The level of the contaminant found in the drinking water, and the corresponding public health goal and primary drinking water standard for that contaminant.
    - (B) Any violations of the primary drinking water standard that have occurred as a result of the presence of the contaminant in the drinking water and a brief and plainly worded statement of health concerns that resulted in the regulation of that contaminant.
    - (C) The public water system's address and phone number to enable customers to obtain further information concerning contaminants and potential health effects.
  - (4) Information on the levels of unregulated contaminants, if any, for which monitoring is required pursuant to state or federal law or regulation.
  - (5) Disclosure of any variances or exemptions from primary drinking water standards granted to the system and the basis therefore.
- (b) On or before July 1, 2010, and every three years thereafter, public water systems serving more than 10,000 service connections that detect one or more contaminants in drinking water that exceed the applicable public health goal, shall prepare a brief written report in plain language that does all of the following:
  - (1) Identifies each contaminant detected in drinking water that exceeds the applicable public health goal.
  - (2) Discloses the numerical public health risk, determined by the office, associated with the maximum contaminant level for each contaminant identified in paragraph (1) and the numerical public health risk determined by the office associated with the public health goal for that contaminant.
  - (3) Identifies the category of risk to public health, including, but not limited to, carcinogenic, mutagenic, teratogenic, and acute toxicity, associated with exposure to the contaminant in drinking water, and includes a brief plainly worded description of these terms.

- (4) Describes the best available technology, if any is then available on a commercial basis, to remove the contaminant or reduce the concentration of the contaminant. The public water system may, solely at its own discretion, briefly describe actions that have been taken on its own, or by other entities, to prevent the introduction of the contaminant into drinking water supplies.
  - (5) Estimates the aggregate cost and the cost per customer of utilizing the technology described in paragraph (4), if any, to reduce the concentration of that contaminant in drinking water to a level at or below the public health goal.
  - (6) Briefly describes what action, if any, the local water purveyor intends to take to reduce the concentration of the contaminant in public drinking water supplies and the basis for that decision.
- (c) Public water systems required to prepare a report pursuant to subdivision (b) shall hold a public hearing for the purpose of accepting and responding to public comment on the report. Public water systems may hold the public hearing as part of any regularly scheduled meeting.
  - (d) The department shall not require a public water system to take any action to reduce or eliminate any exceedance of a public health goal.
  - (e) Enforcement of this section does not require the department to amend a public water system's operating permit.
  - (f) Pending adoption of a public health goal by the Office of Environmental Health Hazard Assessment pursuant to subdivision (c) of Section 116365, and in lieu thereof, public water systems shall use the national maximum contaminant level goal adopted by the United States Environmental Protection Agency for the corresponding contaminant for purposes of complying with the notice and hearing requirements of this section.
  - (g) This section is intended to provide an alternative form for the federally required consumer confidence report as authorized by 42 U.S.C. Section 300g-3(c).

# CITRUS HEIGHTS WATER DISTRICT

## DISTRICT STAFF REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

SUBJECT : WATER CONSERVATION STAGE DECLARATION AND DROUGHT RESPONSE  
PLAN UPDATE

STATUS : Action Item

REPORT DATE : June 4, 2016

PREPARED BY : Rex Meurer, Water Efficiency Coordinator  
Hilary M. Straus, Assistant General Manager

### **OBJECTIVE:**

Discuss the recent State Water Resource Control Board (SWRCB) policy change, declare a Water Conservation Stage for the 2016 summer and provide direction concerning other conservation measures.

### **BACKGROUND AND ANALYSIS:**

On May 9, 2016 the Governor issued an Executive Order that directed the SWRCB to adjust and extend its emergency water conservation regulations through the end of January 2017. This was done in recognition of the differing water supply conditions for many communities across the State. The SWRCB is calling their revised policy: "Self-Certification of Supply Reliability for Three Additional Years of Drought". The SWRCB is asking water districts to self-certify their own water supply reliability over a three year drought scenario as compared to 2012-2013, 2013-2014 and 2014-2015. If CHWD's water supply, based on an average of years 2013 and 2014 water supply, is more than the third dry year of demand, there would be no mandatory reduction required.

**Key Provisions:** Water supply reliability will be calculated as follows:

- The supply projection for the next three years is based on current supply conditions plus an assumed three-year hydrology mirroring the 2012-13, 2013-14, and 2014-15 water years.
- Demand over that same period is based on each supplier's average total potable water production for 2013 and 2014.
- Suppliers will factor into their calculations all available water sources that are capable of being treated to potable standard during the three-year projected period.
- Suppliers' conservation standards will be calculated as a percentage and rounded to the nearest whole percentage point.
- Suppliers must self-certify the accuracy of their conclusions and provide their analysis and supporting data. The State Water Board would post information provided by suppliers on its website and assign each supplier, as a mandatory conservation standard, reductions equal to the suppliers' projected percentage deficiency in supply at the end of the third dry year. Due June 22, 2016.
- Wholesale water suppliers are required to make projections about how much water they would deliver to retail water suppliers under the three-dry-years scenario. Due by June 15, 2016.

Suppliers that do not submit a water reliability certification and supporting information would retain their current conservation standard in almost all cases. Beginning June 1, 2016 agencies are to comply

with the conservation standard it has identified in the self-certification process and no longer follow the mandated reduction targets from the previous Executive Order.

**Requested Actions/Updates To The Drought Response Plan**

**Current Stage Declaration**

The District is currently in a Stage 4 Water Crisis, which was enacted by the Board on May 12<sup>th</sup>, 2015. The District has been required by the SWRCB to reduce 2016 June-September consumption by 29% as compared to the same months in 2013. As mentioned above, due to the differing water supply conditions for many communities across the State, the SWRCB has asked Agencies to self-certify supply reliability, and base the reduction target on this calculation. Based on this scenario, CHWD’s reduction target is zero.

With improved rainfall and snowpack totals for our region, SJWD Wholesale water supply reliability is considered to be “Normal” and able to meet all of CHWD’s needs. However as the State’s drought continues, staff recommends CHWD encourage its customers to voluntarily reduce consumption by 5%-10%. Therefore staff is recommending CHWD’s Board of Directors adopt a Stage 2 Water Alert (Exhibit A of accompanying Resolution) with a modified *voluntary* 5%-10% reduction in water use.

**Suspend Paladin Night Patrol**

Paladin Night Patrol began conducting night time water waste monitoring on July 29<sup>th</sup>, 2015. To date, 520 incident reports were received by staff. Over the last 10 months, incident reports have been consistently trending down. To date \$27,700 has been expended on Paladin night patrols. With drought conditions easing in the region and the SWRCB mandatory water reduction targets being lifted, staff is recommending suspending Paladin night patrols. The need for night time water waste patrols will be monitored on a monthly basis throughout the summer. If water waste complaints begin to increase throughout the summer, consideration will be given to reinstate program.

**Top 20% Water Reduction Plan**

The Top 20% of commercial, institutional and industrial users continues, water reduction campaign has continued. 182 customers were asked to submit a water reduction plan. 96 responses have been received by the District. The 72 no response/non-compliant “Bad Bads” are being contacted by District staff. Customers are being offered a water efficiency review and left with water conservation program information and literature.

<b><i>ACTION TAKEN</i></b>	<b><i># of Responses</i></b>	<b><i># Compliant</i></b>	<b><i># Non-Compliant</i></b>
<b>Responded with Plan</b>	96	84	12
<b>No Response with Plan</b>	86	14	72

*\* All Top 20% customers saved a total of 42% as compared to 2013.*

**ATTACHMENT:**

- 1) RESOLUTION 14-2016 (Exhibit A is the Stage 2 Water Alert)

**RECOMMENDATION:**

Adopt Resolution 14-2016. Adopting Resolution 14-2016 will enact a Stage 2 Water Alert.

**ACTION:**

Moved by Director \_\_\_\_\_, Seconded by Director \_\_\_\_\_, Carried \_\_\_\_\_



CITRUS HEIGHTS WATER DISTRICT  
RESOLUTION NO. 14-2016

RESOLUTION OF THE BOARD OF DIRECTORS  
OF CITRUS HEIGHTS WATER DISTRICT  
DECLARING A STAGE 2 – NORMAL WATER SUPPLY  
WITHIN CITRUS HEIGHTS WATER DISTRICT

WHEREAS, the Citrus Heights Water District (CHWD) declared a Stage 4 – Water Crisis on May 12, 2015, based upon a State Water Resource Control Board (SWRCB) mandatory water reduction target issued due to the fourth year of drought across the State; and

WHEREAS, SWRCB announced a May 18, 2016 update to the mandatory water reduction targets across the State; and

WHEREAS, water reduction targets for CHWD and other water service contractors is based on the 3 year supply reliability available during 3 dry years and, CHWD has been informed that it will receive 100 percent of its contract allocation for the water year 2016.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the CITRUS HEIGHTS WATER DISTRICT declares a STAGE 2 – WATER ALERT to remain in effect for the customers of the CITRUS HEIGHTS WATER DISTRICT until modified by Resolution of the Board of Directors. The Stage 2 Water Alert accompanying this Resolution as Exhibit A.

PASSED AND ADOPTED by the Board of Directors of the CITRUS HEIGHTS WATER DISTRICT this 14<sup>th</sup> day of June, 2016 by the following vote, to-wit:

AYES:           Directors:  
NOES:           Directors:  
ABSTAIN:       Directors:  
ABSENT:        Directors:

SEAL

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ALLEN B. DAINS, President  
Board of Directors  
Citrus Heights Water District

ATTEST:

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ROBERT A. CHURCHILL, Secretary  
Citrus Heights Water District

"EXHIBIT A"

**STAGE 2 – WATER ALERT**

1. Water shall be used for beneficial purposes only; all unnecessary and wasteful uses of water are prohibited.
2. Water shall be confined to the customer's property and shall not be allowed to run off to adjoining properties or to the roadside ditch or gutter. Care shall be taken not to water past the point of saturation.
3. Free-flowing hoses for all uses are prohibited. Automatic shut-off devices shall be attached on any hose or filling apparatus in use.
4. Leaking customer pipes or faulty sprinklers shall be repaired within five (5) working days or less if warranted by the severity of the problem.
5. All pools, spas, and ornamental fountains/ponds shall be equipped with a recirculation pump and shall be constructed to be leak-proof. Pool draining and refilling shall be allowed only for health, maintenance, or structural considerations.
6. Washing streets, parking lots, driveways, sidewalks, or buildings, is prohibited except as necessary for health, esthetic or sanitary purposes.
7. Customers are encouraged to take advantage of the District's water conservation programs and rebates.
8. Reduce landscape and pasture irrigation by 5 – 10%. Customers with "smart" irrigation timers or controllers are asked to set their controllers to achieve 90 to 95% of the evapotranspiration "ET" rate. Drip irrigation systems are excluded from this requirement.
9. Reduce indoor water use by 5 – 10%. Contact the District for tips and techniques to reduce indoor water use.
10. Users of construction meters and fire hydrant meters will be monitored for efficient water use.

# CITRUS HEIGHTS WATER DISTRICT

## PROJECT MANAGER’S REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

SUBJECT : PROJECT MANAGER’S REPORT  
 STATUS : Information Item  
 REPORT DATE : June 7, 2016  
 PREPARED BY : Paul A. Dietrich, Project Manager

Significant assignments and activities for the Project Manager (PM) and District engineering, construction inspection, and geographical information system maintenance staff are summarized below. I will be available at the meeting to answer questions and/or provide additional details.

*New values or projects noted in bold italics*

### **PM-1 ACCEPTED WATER SYSTEMS**

Recent additions to the District’s water distribution system that were constructed by independent State Licensed contractors on behalf of private developers / owners, inspected by the District and formally accepted:

<u>Project</u>	<u>Count</u>	<u>Facilities</u>	<u>Value</u>
<i>Applebee’s Restaurant</i>	<i>51 l.f.</i>	<i>8-Inch DIP Water Main</i>	<i>\$14,010.00</i>
<i>6900 Auburn Blvd</i>	<i>27 l.f.</i>	<i>6-Inch DIP Water Main</i>	
<i>(2015-53)</i>	<i>1</i>	<i>Steamer Fire Hydrant</i>	
	<i>1</i>	<i>6-Inch Gate Valve</i>	
	<i>1</i>	<i>6-Inch Post Indicator Valve</i>	
	<i>1</i>	<i>1-Inch Irrigation Service</i>	
	<i>1</i>	<i>1 ½” Irrigation Service</i>	

### **PM-2 PROJECTS UNDER CONSTRUCTION BY PRIVATE DEVELOPERS**

Water distribution system facilities currently under construction by independent State Licensed contractors on behalf of private developers / owners requiring District inspection:

<u>Project</u>	<u>Location</u>	<u>Status</u>
California American Water Co. San Juan Avenue Tank - Intertie and Water Service (2015-39)	5444 San Juan Ave	<i>95% Complete</i>
Capitol Nursery Plaza Commercial Center (2015-50)	Sunrise Blvd @ Madison Ave	<i>95% Complete</i>

<u>Project</u>	<u>Location</u>	<u>Status</u>
Sylvan Middle School (2015-63)	7085 Auburn Blvd	Substantially Complete
Citrus Heights City Hall (2015-54)	6350 Fountain Square Dr	80% Complete
Northridge Grove 47 Condominiums (2013-59)	5555 Mariposa Ave	<b>Construction Underway</b>
Memory Care Facility (2015-56)	6825-33 Sunrise Blvd	50% Complete
Dundee Estates 3 Lot Subdivision (2015-58)	Mariposa Ave @ Highland Ave	<b>95% Complete</b>

**PM-3 CONTRACTOR / DEVELOPER PROJECTS PENDING CONSTRUCTION**

<u>Project</u>	<u>Location</u>	<u>Status</u>
McDonalds (2015-60)	5402 Sunrise Blvd	Awaiting System Construction
Bearpaw Expansion Commercial Building (2015-59)	7524 Old Auburn Rd	Awaiting System Construction
Louis-Orlando Bus Transfer Point (2015-66)	Louis Ln @ Orlando Ave	Awaiting System Construction
<b>Meier Estates 7 Lot Subdivision (2015-68)</b>	<b>North Sims Way</b>	<b>Awaiting System Construction</b>

**PM-4 PROPOSED DISTRICT CAPITAL IMPROVEMENT PROJECTS**

Project Plans and Contracts currently under review and development by the Engineering Department:

<u>Project</u>	<u>Location</u>	<u>Status</u>
Fair Way Intertie with City of Roseville (2011-01)	9955 Fair Way	Agreement – 99% Plans – 95% Cost Estimate – 90

<u>Project</u>	<u>Location</u>	<u>Status</u>
Blossom Hill Dr Intertie with City of Roseville (2012-09)	Blossom Hill Dr at 1100 Main Sail Cir	Agreement – 99% Plans – 95% Cost Estimate – 90%
Crestmont Ave Intertie with City of Roseville (2012-10)	Crestmont Ave at 8199 Bonnie Oak Way	Agreement – 99% Plans – 95% Cost Estimate – 90%
Baird Way 12" Water Main Area West Engineers, Inc. (2015-31)	Auburn Blvd to Holly Dr	90% Plan Review Underway

**PM-5 PROJECTS CONTRACTED BY CITRUS HEIGHTS WATER DISTRICT**

Capital Improvement Projects currently under construction by Citrus Heights Water District contractors requiring coordination and inspection by the District:

<u>Project</u>	<u>Location</u>	<u>Status</u>
Mariposa Ave, Limerick Way and Dublin Way Water Mains KASL Consulting Engineers, Inc. (2015-40)	Limerick Way to Farmgate Way and Eastgate Ave to Northeast Circle (south end)	<i>Mariposa Ave Portion – Construction Underway Limerick Way Portion – Final Plan Revisions Underway</i>

**PM-6 CITY OF CITRUS HEIGHTS PROJECTS**

City of Citrus Heights Projects requiring coordination and inspection by the District:

*None*

# CITRUS HEIGHTS WATER DISTRICT

## OPERATIONS MANAGER'S REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

SUBJECT : OPERATIONS MANAGER'S REPORT  
 STATUS : Information Item  
 REPORT DATE : May 31, 2016

ABANDON BLOW OFF: (1)

May 24, 2016 7375 STOCK RANCH RD

BLOW OFF LOCATE: (7)

May 2, 2016 7112 BAUGH CT  
 May 5, 2016 6846 WOODMORE OAKS DR  
 May 12, 2016 6130 MERLINDALE DR  
 May 17, 2016 7010 AUBURN BLVD  
 May 25, 2016 7333 VILLA DEL SOL LN  
 May 26, 2016 6700 MADISON AVE  
 May 26, 2016 7310 VAN MAREN LN

BLOW OFF REPLACEMENT: (1)

May 12, 2016 6130 MERLINDALE DR

HYDRANT INSTALL: (1)

May 26, 2016 5792 HOFFMAN LN

HYDRANT VALVE BOX MAINTENANCE: (1)

May 23, 2016 5260 SONORA WAY

LEAK INVESTIGATION: (1)

May 10, 2016 23 COYLE CREEK CIR

METER BOX MAINTENANCE: (6)

May 2, 2016 8037 COPPERWOOD DR  
 May 2, 2016 8170 STRENG AVE  
 May 5, 2016 6846 WOODMORE OAKS DR  
 May 9, 2016 7106 FORBS WAY  
 May 10, 2016 8225 PRIME WAY  
 May 11, 2016 7715 LOLETA AVE

METER REPAIR: (1)

May 19, 2016 8039 SUNRISE BLVD

RADIO READ METER INSTALL: (5)

May 2, 2016	6462 BRANDO LOOP
May 2, 2016	6470 BRANDO LOOP
May 10, 2016	7935 MADISON AVE
May 25, 2016	6426 BRANDO LOOP
May 26, 2016	6432 BRANDO LOOP

RADIO READ MIU R900 CHANGE OUT: (3)

May 4, 2016	7904 ARCADE LAKE LN
May 4, 2016	6000 SUNRISE MALL
May 18, 2016	11801 FAIR OAKS BLVD

RADIO READ REGISTER CHANGE OUT: (3)

May 4, 2016	7937 ARCADE LAKE LN
May 4, 2016	7940 ARCADE LAKE LN
May 11, 2016	7444 WACHTEL WAY

REGISTER CHANGE OUT: (12)

May 5, 2016	9057 OAK AVE
May 5, 2016	8008 INDIAN CREEK DR
May 5, 2016	7930 INDIAN CREEK DR
May 10, 2016	7813 CLAYPOOL WAY
May 17, 2016	8025A GREENBACK LN
May 18, 2016	8201 FIREWOOD CT
May 24, 2016	12208 FAIR OAKS BLVD
May 24, 2016	8154 NIESSEN WAY
May 24, 2016	8057 BRIAR RIDGE LN
May 25, 2016	7561 CHERRY GLEN AVE
May 26, 2016	8321 HOLLY DR
May 26, 2016	8332 AUBURN BLVD

SADDLE REPLACEMENT: (4)

May 10, 2016	5420/22 ELSINORE WAY
May 11, 2016	5416/18 ELSINORE WAY
May 12, 2016	5400/02 ELSINORE WAY
May 12, 2016	5404/06 ELSINORE WAY

SERVICE RAISE/LOWER: (1)

May 16, 2016	8424 CONOVER DR
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SERVICE REPLACEMENT: (6)

May 3, 2016	5308 DIVOT CIR
May 5, 2016	6653 RINCONADA DR
May 5, 2016	6657 RINCONADA DR
May 10, 2016	7107 FORBS WAY
May 10, 2016	7113 FORBS WAY
May 17, 2016	7849 PATTON AVE

SERVICE/SADDLE REPLACEMENT: (14)

May 3, 2016	5304 DIVOT CIR
May 3, 2016	5317 DIVOT CIR
May 4, 2016	6452/54 DENTON WAY
May 5, 2016	6648/50 DENTON WAY
May 9, 2016	7762 TWIN OAKS AVE
May 9, 2016	7770 TWIN OAKS AVE
May 11, 2016	6130 MERLINDALE DR
May 12, 2016	6120 MERLINDALE DR
May 12, 2016	5333/35 ELSINORE WAY
May 17, 2016	7778 ALONDRA CT
May 17, 2016	7901 PATTON AVE
May 17, 2016	7779 ALONDRA CT
May 19, 2016	7589 SYCAMORE DR
May 31, 2016	6813 BLACK WALNUT CT

VALVE BOX MAINTENANCE: (1)

May 31, 2016	7831/8433 SUNRISE BLVD
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VALVE EXERCISE: (238)

May 2, 2016	7401 MADISON AVE
May 2, 2016	7401 MADISON AVE
May 2, 2016	7401 MADISON AVE
May 2, 2016	7401 MADISON AVE
May 2, 2016	7531 HIGHVIEW LN
May 2, 2016	7509 MADISON AVE
May 2, 2016	7664 NORTHEAST CIR
May 2, 2016	7688 CAPRICORN DR
May 2, 2016	7617 CAPRICORN DR
May 2, 2016	5555 MARIPOSA AVE
May 2, 2016	7612 PLEIDES AVE
May 2, 2016	5500 CELESTIAL WAY
May 2, 2016	7401 MADISON AVE
May 2, 2016	7475 MADISON AVE
May 2, 2016	7441 WILLOW CREEK DR
May 2, 2016	7441 WILLOW CREEK DR
May 2, 2016	7518 WELLS AVE
May 2, 2016	7518 WELLS AVE
May 2, 2016	7533 WELLS AVE
May 2, 2016	5641 SOUTHGROVE DR
May 2, 2016	5641 SOUTHGROVE DR
May 2, 2016	7536 WELLS AVE
May 2, 2016	7540 WELLS AVE
May 2, 2016	7540 WELLS AVE
May 2, 2016	7525 KALAMAZOO DR
May 2, 2016	5452 HIGHVIEW LN



May 2, 2016	5452 HIGHVIEW LN
May 2, 2016	5440 HIGHVIEW LN
May 2, 2016	7541 MADISON AVE
May 3, 2016	7551 MADISON AVE
May 3, 2016	7551 MADISON AVE
May 3, 2016	7551 MADISON AVE
May 3, 2016	8035 ALMADEN WAY
May 3, 2016	7475 MADISON AVE
May 4, 2016	7575 MADISON AVE
May 4, 2016	7575 MADISON AVE
May 4, 2016	7575 MADISON AVE
May 4, 2016	7575 MADISON AVE
May 4, 2016	7551 MADISON AVE
May 4, 2016	5300 DIVOT CIR
May 4, 2016	5320 DIVOT CIR
May 4, 2016	5317 DIVOT CIR
May 4, 2016	5332 DIVOT CIR
May 4, 2016	5339/43 DIVOT CIR
May 4, 2016	5343 DIVOT CIR
May 4, 2016	5409 MARIPOSA AVE
May 4, 2016	5409 MARIPOSA AVE
May 4, 2016	7575 MADISON AVE
May 4, 2016	5509 MARIPOSA AVE
May 4, 2016	5509 MARIPOSA AVE
May 4, 2016	5432 PLEIDES AVE
May 4, 2016	5421 CELESTIAL WAY
May 4, 2016	7629 PLEIDES AVE
May 4, 2016	5425 SAGITARIUS WAY
May 4, 2016	7551 MADISON AVE
May 4, 2016	7551 MADISON AVE
May 4, 2016	5509 MARIPOSA AVE
May 4, 2016	5509 MARIPOSA AVE
May 4, 2016	5509 MARIPOSA AVE
May 4, 2016	7697 UPLANDS WAY
May 4, 2016	7713 UPLANDS WAY
May 4, 2016	5525 KINGSWOOD DR
May 4, 2016	5641 MARIPOSA AVE
May 4, 2016	5617 MARIPOSA AVE
May 4, 2016	5641 MARIPOSA AVE
May 4, 2016	5641 MARIPOSA AVE
May 4, 2016	5641 MARIPOSA AVE
May 4, 2016	7741 EASTGATE AVE
May 4, 2016	7741 EASTGATE AVE
May 4, 2016	7701 EASTGATE AVE
May 4, 2016	7664 NORTHEAST CIR
May 4, 2016	5641 MARIPOSA AVE

May 5, 2016	7668 EASTGATE AVE
May 9, 2016	7673 EASTGATE AVE
May 9, 2016	7673 EASTGATE AVE
May 9, 2016	5701 LONGWOOD WAY
May 9, 2016	5643 LONGWOOD WAY
May 9, 2016	5619 LONGWOOD WAY
May 9, 2016	5533 KINGSWOOD DR
May 9, 2016	5601 KINGSWOOD DR
May 9, 2016	7930 SPYGLASS LN
May 9, 2016	5690 SPYGLASS LN
May 9, 2016	5667 SPYGLASS LN
May 9, 2016	5662 SPYGLASS LN
May 9, 2016	5660 SPYGLASS LN
May 9, 2016	5640 SPYGLASS LN
May 9, 2016	5638 SPYGLASS LN
May 11, 2016	7920 HERITAGE TREE LN
May 11, 2016	7920 ALTA SUNRISE DR
May 11, 2016	7920 ALTA VISTA LN
May 11, 2016	7920 ALTA VISTA LN
May 11, 2016	7920 ALTA VISTA LN
May 11, 2016	7920 ALTA VISTA LN
May 11, 2016	7920 ALTA VISTA LN
May 11, 2016	7920 ALTA VISTA LN
May 11, 2016	7920 ALTA VISTA LN
May 11, 2016	7920 ALTA VISTA LN
May 11, 2016	7920 ALTA VISTA LN
May 11, 2016	7920 ALTA VISTA LN
May 11, 2016	7920 ALTA VISTA LN
May 11, 2016	7920 ALTA VISTA LN
May 11, 2016	7920 ALTA VISTA LN
May 11, 2016	7996 MARSALA CT
May 11, 2016	7996 MARSALA CT
May 11, 2016	7987 MARSALA CT
May 11, 2016	8001 ALTA VISTA LN
May 11, 2016	8001 ALTA VISTA LN
May 11, 2016	5500 RUBION CIR
May 11, 2016	5500 RUBION CIR
May 11, 2016	5544 RUBION CIR
May 11, 2016	5524 CHIANTI WAY
May 12, 2016	8001 ALTA VISTA LN
May 12, 2016	5524 CHIANTI WAY
May 12, 2016	5406 VIN ROSE CT
May 12, 2016	8001 ALMADEN WAY
May 12, 2016	5406 VIN ROSE CT
May 12, 2016	7969 MADISON AVE
May 12, 2016	7969 MADISON AVE
May 12, 2016	5522 RUBION CIR
May 12, 2016	8004 DORAL CT

May 12, 2016	8004 DORAL CT
May 12, 2016	8033 DORAL CT
May 12, 2016	5601 CYPRESS POINT DR
May 12, 2016	5601 CYPRESS POINT DR
May 12, 2016	5601 CYPRESS POINT DR
May 12, 2016	5619 CELINE DR
May 12, 2016	5619 CELINE DR
May 12, 2016	8073 TREECREST AVE
May 12, 2016	5601 GITTA RIA CT
May 12, 2016	8081 TREECREST AVE
May 12, 2016	5600 GITTA RIA CT
May 12, 2016	5600 GITTA RIA CT
May 12, 2016	8093 BRIAR RIDGE LN
May 12, 2016	8094 BRIAR RIDGE LN
May 12, 2016	8088 BRIAR RIDGE LN
May 12, 2016	8079 BRIAR RIDGE LN
May 12, 2016	8065 BRIAR RIDGE LN
May 12, 2016	8124 BRIAR RIDGE LN
May 12, 2016	8004 BRIAR RIDGE LN
May 16, 2016	11787 FAIR OAKS BLVD
May 16, 2016	11787 FAIR OAKS BLVD
May 16, 2016	11801 FAIR OAKS BLVD
May 16, 2016	11787 FAIR OAKS BLVD
May 16, 2016	11787 FAIR OAKS BLVD
May 16, 2016	5511 SEQUOIA CIR
May 16, 2016	5533 SEQUOIA CIR
May 16, 2016	5562 SEQUOIA CIR
May 16, 2016	5562 SEQUOIA CIR
May 16, 2016	5561 SEQUOIA CIR
May 16, 2016	5501 SEQUOIA CIR
May 16, 2016	8090 TREECREST AVE
May 16, 2016	8101 LEAFCREST WAY
May 16, 2016	8101 LEAFCREST WAY
May 16, 2016	11990 FAIR OAKS BLVD
May 16, 2016	8090 TREECREST AVE
May 16, 2016	5602 CELINE DR
May 16, 2016	5601 CELINE DR
May 16, 2016	5401 VENTANA PL
May 16, 2016	5401 VENTANA PL
May 16, 2016	5411 VENTANA PL
May 16, 2016	5469 VENTANA PL
May 16, 2016	5468 VENTANA PL
May 16, 2016	5468 VENTANA PL
May 16, 2016	5449 VENTANA PL
May 16, 2016	5431 VENTANA PL
May 16, 2016	5424 VENTANA PL

May 17, 2016	7929 ROCKY POINT CT
May 17, 2016	8055 MADISON AVE
May 17, 2016	8055 MADISON AVE
May 17, 2016	8055 MADISON AVE
May 17, 2016	8055 MADISON AVE
May 17, 2016	8055 MADISON AVE
May 17, 2016	11713 FAIR OAKS BLVD
May 17, 2016	11713 FAIR OAKS BLVD
May 18, 2016	11707 FAIR OAKS BLVD
May 18, 2016	11711 FAIR OAKS BLVD
May 18, 2016	11711 FAIR OAKS BLVD
May 18, 2016	11755 FAIR OAKS BLVD
May 18, 2016	8048 BRIAR RIDGE LN
May 18, 2016	5426 VENTANA PL
May 18, 2016	8045 BRIAR RIDGE LN
May 18, 2016	8026 BRIAR RIDGE LN
May 18, 2016	8167 TREECREST AVE
May 18, 2016	8167 TREECREST AVE
May 18, 2016	5256 HERITAGE DR
May 18, 2016	6424 SANDSTONE ST
May 18, 2016	6401 TEAL WAY
May 18, 2016	6166 KIPP WAY
May 18, 2016	5172 PATTI JO DR
May 18, 2016	5201 OLEANDER DR
May 18, 2016	5201 OLEANDER DR
May 18, 2016	6428 PALM AVE
May 18, 2016	6428 PALM AVE
May 18, 2016	6428 PALM AVE
May 18, 2016	6428 PALM AVE
May 18, 2016	6435 PALM AVE
May 18, 2016	5262 SANDSTONE ST
May 18, 2016	5332 SANDSTONE ST
May 18, 2016	5332 SANDSTONE ST
May 18, 2016	5313 AGATE WAY
May 18, 2016	5254 FLAGSTONE ST
May 18, 2016	5304 FLAGSTONE ST
May 18, 2016	5312 FLAGSTONE ST
May 18, 2016	5355 AGATE WAY
May 18, 2016	5200 RUTHWOOD WAY
May 18, 2016	5293 HERITAGE DR
May 18, 2016	6345 PALM AVE
May 18, 2016	5293 HERITAGE DR
May 18, 2016	6445 PALM AVE
May 19, 2016	5250 SONORA WAY
May 19, 2016	5250 SONORA WAY
May 19, 2016	6523 PALM AVE

May 19, 2016	5325 AGATE WAY
May 19, 2016	5344 SONORA WAY
May 19, 2016	5344 SONORA WAY
May 19, 2016	5139 OLEANDER DR
May 19, 2016	5135 OLEANDER DR
May 19, 2016	5292 HERITAGE DR
May 19, 2016	6601 MADISON AVE
May 19, 2016	6555 MADISON AVE
May 19, 2016	5344 MADISON AVE
May 19, 2016	6630 MADISON AVE
May 19, 2016	5365 DEWEY DR
May 19, 2016	5365 DEWEY DR
May 19, 2016	6700 DEWEY DR
May 19, 2016	6700 DEWEY DR
May 19, 2016	6700 DEWEY DR
May 19, 2016	6700 MADISON AVE
May 19, 2016	6633 BUSH WAY
May 31, 2016	6700 PALMTREE CT
May 31, 2016	6742 PALM AVE
May 31, 2016	6724 PALM AVE
May 31, 2016	5240 HICKORY HILL CT
May 31, 2016	5240 HICKORY HILL CT
May 31, 2016	5747 ENSIGN ST
May 31, 2016	5747 ENSIGN ST
May 31, 2016	5747 ENSIGN ST
May 31, 2016	6731 JET AVE
May 31, 2016	6735 JET AVE
May 31, 2016	6735 JET AVE

VALVE INSTALL: (1)

May 12, 2016	5396/97 ELSINORE WAY
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**Total Count: 307**

WATER ANALYSIS REPORTS:

Bacteriological testing has met all California Department of Public Health requirements.  
72 samples were collected with no positive results.

**CITRUS HEIGHTS WATER DISTRICT**  
**OPERATIONS MANAGER'S REPORT TO BOARD OF DIRECTORS**  
**JUNE 14, 2016 REGULAR BOARD MEETING**

SUBJECT : 2016 WATER SUPPLY - PURCHASED & PRODUCED  
 STATUS : Information Item  
 REPORT DATE : June 2, 2016  
 PREPARED BY : Brian M. Hensley, Water Resources Supervisor

**OBJECTIVE:**

Report on annual water consumption including comparison with prior years and current 29% reduction directive.

Month	2013	2014	2015	2016				Year-to-Date Comparison to 2013	
				Surface Water Purchased	Ground Water Produced	Total Water Monthly	Total Water Annual	acre feet	%
	acre feet			acre feet				acre feet	%
Jan	602.52	602.39	570.05	463.53	76.07	539.60	539.60	-62.92	-10.4%
Feb	606.36	450.96	511.52	387.51	97.02	484.53	1,024.13	-184.75	-15.3%
Mar	819.55	612.20	725.95	442.62	74.94	517.56	1,541.69	-486.74	-24.0%
Apr	1,029.73	737.30	761.02	609.95	67.86	677.81	2,219.50	-838.66	-27.4%
May	1,603.43	1,190.07	869.08	882.03	97.46	979.49	3,198.99	-1,462.60	-31.4%
Jun	1,816.73	1,548.66	1,065.10						
Jul	2,059.21	1,622.10	1,184.95						
Aug	1,924.28	1,477.49	1,188.18						
Sep	1,509.82	1,275.11	1,069.78						
Oct	1,297.42	1,030.74	918.67						
Nov	911.55	682.48	589.6						
Dec	700.94	563.15	519.57						
<b>Total</b>	14,881.54	11,792.65	9,973.47	2,785.64	413.35	3,198.99	3,198.99		
				87.08%	12.92%				

# CITRUS HEIGHTS WATER DISTRICT

## DISTRICT STAFF REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

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SUBJECT : SURFACE WATER SUPPLY  
STATUS : Information Item  
REPORT DATE : June 8, 2016  
PREPARED BY : David M. Gordon, Operations Manager

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**OBJECTIVE:**

Receive status report on surface water supplies available to the District.

**BACKGROUND AND ANALYSIS:**

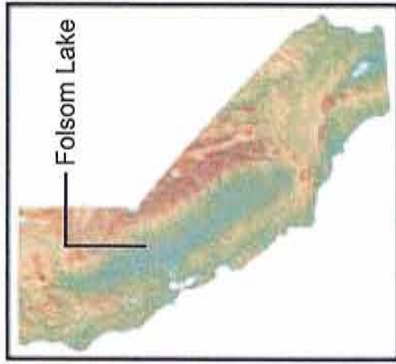
As of midnight on May 31, 2016, storage in Folsom Lake was at 826,034 acre-feet, 85 percent of the total capacity of 977,000 acre-feet. This is about 101 percent of historical average for this date. This represents a decrease in storage of 2,077 acre-feet in the past month.

The District's total water use during the month of May 2016 (979.49 acre-feet) was 38.9% below that of May 2013 (1603.43 acre-feet).

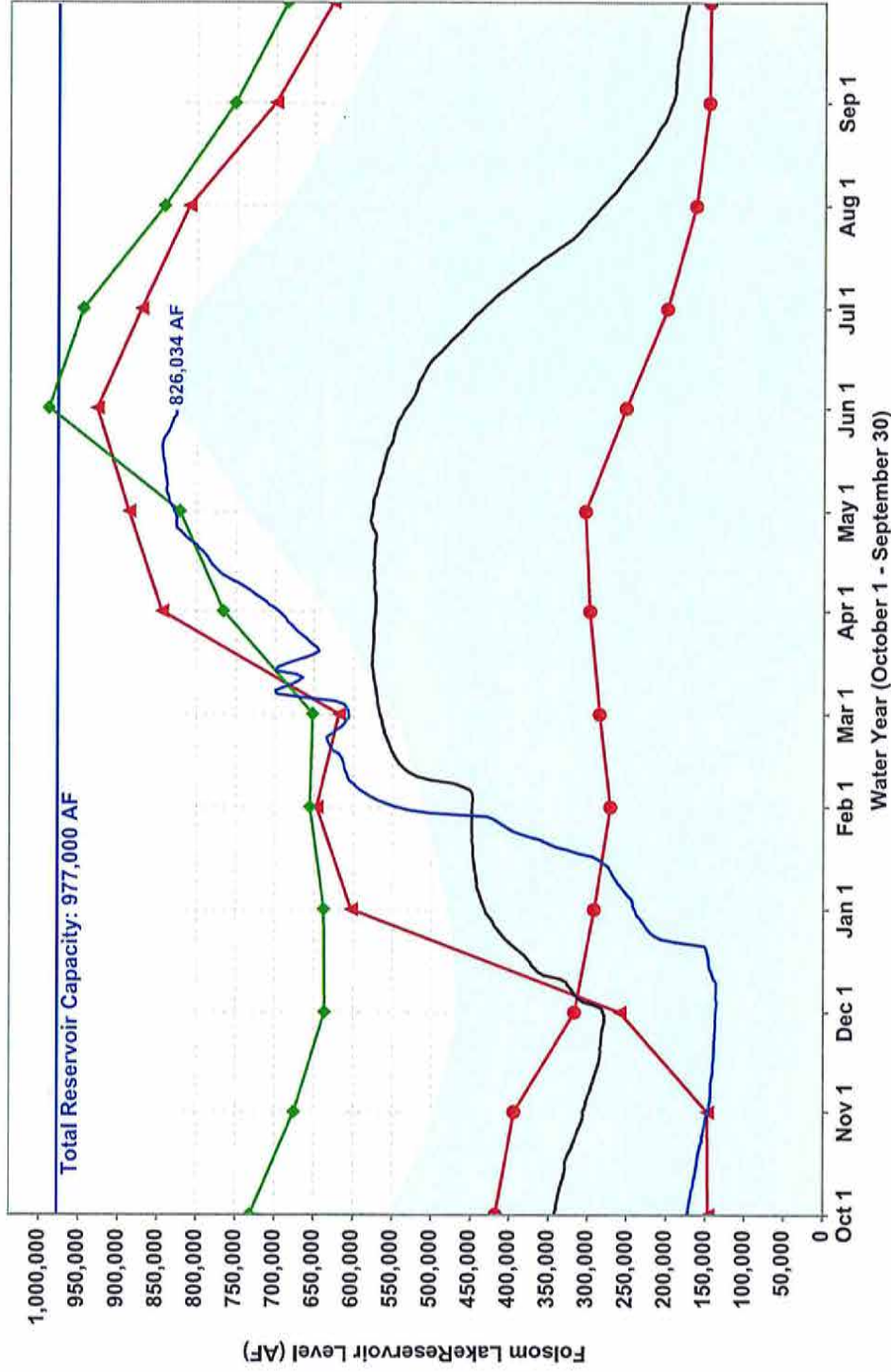
CHWD continues to assist with preserving surface water supplies in the Lake by operating its groundwater wells. All District wells (Bonita, Mitchell Farms, Palm, Sylvan and Sunrise) remain operational and are being operated on a rotational, or as-needed, basis.

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# Reservoir Conditions - Folsom Lake

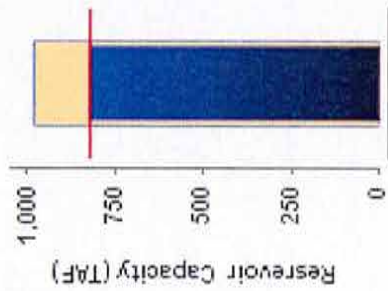


Folsom Lake Levels: Various Past Water Years and Current Water Year, Ending At Midnight May 31, 2016



## Folsom Lake Conditions


(as of Midnight - May 31, 2016)



Current Level: 826,034 AF

85% (Total Capacity) | 101% (Historical Avg.)





# Statewide Summary of Snow Water Content

## Current Regional Snowpack from Automated Snow Sensors

% of April 1 Average / % of Normal for This Date



NORTH	
Data as of June 1, 2016	
Number of Stations Reporting	29
Average snow water equivalent (Inches)	2.0
Percent of April 1 Average (%)	7
Percent of normal for this date (%)	32

CENTRAL	
Data as of June 1, 2016	
Number of Stations Reporting	40
Average snow water equivalent (Inches)	2.3
Percent of April 1 Average (%)	8
Percent of normal for this date (%)	24

SOUTH	
Data as of June 1, 2016	
Number of Stations Reporting	27
Average snow water equivalent (Inches)	1.6
Percent of April 1 Average (%)	6
Percent of normal for this date (%)	16

STATE	
Data as of June 1, 2016	
Number of Stations Reporting	96
Average snow water equivalent (Inches)	2.0
Percent of April 1 Average (%)	7
Percent of normal for this date (%)	23

**Statewide Average: 7% / 23%**

Data as of June 1, 2016

# CITRUS HEIGHTS WATER DISTRICT

## DISTRICT STAFF REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

SUBJECT : VEHICLE AUCTION RESULTS  
 STATUS : Information Item  
 REPORT DATE : June 8, 2016  
 PREPARED BY : David M. Gordon, Operations Manager

**OBJECTIVE:**

Receive information about the sales results of District vehicles.

**BACKGROUND AND ANALYSIS:**

On February 4, 2015 and April 28, 2016, the Board of Directors declared two vehicles, one loader, and two tool carrier attachments as surplus and authorized staff to sell them at public auction. The District sold the surplus fleet vehicles and attachments at a public auction on May 26, 2016. The net result from the auction is as follows:

\$ 2,900.00	Equip. No. 08, 2002 Dodge 2500 Pickup, approx. 58,763 miles
\$ 6,000.00	Equip. No. 28, 2009 Ford Escape, approx. 54,023 miles
\$ 29,000.00	Equip. No. 42, 2007 Komatsu Loader WA100M-5, approx. 12,574 HRS
\$ 400.00	Tool Carrier Attachment, Sweepster Broom QCTL
\$ 500.00	Tool Carrier Attachment, JRB 1.00 YD Multi-Purpose Bucket
\$ 38,800.00	TOTAL SALE PRICE
\$ 32,970.00	TOTAL (MINUS COMMISSION AND EXPENSES)

# CITRUS HEIGHTS WATER DISTRICT

## ASSISTANT GENERAL MANAGER'S REPORT TO BOARD OF DIRECTORS June 14, 2016 REGULAR MEETING

SUBJECT : ACTIVITIES AND PROGRESS REPORT  
 STATUS : Information Item  
 REPORT DATE : June 4, 2016  
 PREPARED BY : Hilary Straus, Assistant General Manager  
 Rex W. Meurer, Water Efficiency Coordinator

Significant assignments and activities for the Assistant General Manager (AGM) and District Administrative, Customer Service and Water Efficiency staff are summarized below.

**AGM-1 WATER EFFICIENCY PROGRAM UPDATE**

Water Efficiency Program activities during the month of May 2016 included:

- 17 ultra-low-flush toilet rebates for the month of May 2016. A total of \$5,775 in rebates has been provided to customers to date.
- For the period of May 2016, 0 High Efficiency Clothes Washer (HECW) rebates were processed. Year-to-date, 9 HECW rebates were processed by SMUD for District customers. SMUD is working on an online application process for customer to use.
- 55 water waste calls were received during the month of March. No reports of water waste were received through the CHWD’s Drought Resources web page. A total of 36 contacts (mostly visits to customers’ homes and phone calls) have been completed based on these reports.
- The following table summarizes the R-GPCD values for CHWD to date:

Month	R-GPCD
January 2015	75
February	83
March	108
April	117
May	129
June	163
July	176
August	172
September	160
October	140
November	82
December	75
January 2016	80
February	77

Month	R-GPCD
March	77
April	107
May	155

**\*This information is submitted monthly to the State Water Resources Control Board.**

- The J. Crowley Group, Inc. will present a completed 2015 Urban Water Management Plan for adoption at tonight’s public hearing. The updated plan includes a comprehensive assessment and description of the District's water distribution system, water demands, water supplies, conservation and demand management, and demand-to-supply contingency planning.
- May was “Water Awareness Month”. San Juan High School and Sunrise Recreation and Park District posted water conservation messages on their electronic message boards. The message read “May Is Water Awareness Month-Please Use Water Wisely”. The message ran the entire month of May.
- The winners for Citrus Heights Water District’s annual poster contest were presented with their framed posters and awards at the May 10<sup>th</sup> Board Meeting. The winners and teachers were:  
  
First Place Winner: Kevin Vasquez, 6<sup>th</sup> Grade, Kingswood Elementary School Teacher: Robin Emmond  
  
Runner-Up: Maya Taff, 5<sup>th</sup> Grade, Woodside School Teacher: Michael Cerecedes  
  
Runner-Up: Eden Webb, 5<sup>th</sup> Grade, Oakview Elementary School Teacher: Kristie Hanson

**AGM-2 DROUGHT RESPONSE PLAN UPDATE**

The following is a summary of Drought Response Plan activities in March.

- CHWD’s Water Reduction Target for 2016 has been adjusted by the State Water Resource Control Board (SWRCB). Water reduction targets will be based on a District’s local water supply reliability conditions. A detailed update will be given tonight by WEC Meurer.
- Based on the updated water reduction target issued by the SWRCB, CHWD’s 3-year water supply reliability and current rainfall/snowpack totals, staff recommends adopting a Stage 2 Water Alert Modified. Customers will be asked to voluntarily cutback water use by 5%-10% through 2016. A formal recommendation will be brought to the Board at tonight’s Board meetings as part of the SWRCB presentation.
- CHWD will be holding an Ecolandscape classes on June 11<sup>th</sup> and July 23<sup>rd</sup>. Both classes will cover “right plant-right placement” and best irrigation practices for customers. There will be a demonstration on how to convert spray to drip, how to properly read plant tags when choosing a plant and water efficient outreach materials.

- The Top 20% water reduction campaign has continued. 182 customers were asked to submit a water reduction plan. 96 responses have been received by the District. The 72 no response/non-compliant “Bad Bads” are being contacted by District staff. Customers will be offered a water efficiency review and left with water conservation program information and literature.

<i><b>ACTION TAKEN</b></i>	<i><b># of Responses</b></i>	<i><b># Compliant</b></i>	<i><b># Non-Compliant</b></i>
<b>Responded with Plan</b>	96	84	12
<b>No Response with Plan</b>	86	14	72

*\* All Top 20% customers saved a total of 42% as compared to 2013.*

**AGM-3 PALADIN NIGHT PATROL UPDATE**

Paladin Night Patrol began conducting night time water waste monitoring on July 29<sup>th</sup>, 2015. Below is a chart illustrating the number of incidents reported by category for August 2015 through May 2016.

Date	*Incident Report	Wrong Day	Equipment Waste	Theft
<b>AUGUST 2015</b>	<b>108</b>	<b>79</b>	<b>90</b>	<b>1</b>
<b>SEPTEMBER 2015</b>	<b>96</b>	<b>47</b>	<b>80</b>	<b>0</b>
<b>OCTOBER 2015</b>	<b>46</b>	<b>37</b>	<b>42</b>	<b>0</b>
<b>NOVEMBER 2015</b>	<b>69</b>	<b>15</b>	<b>69</b>	<b>0</b>
<b>DECEMBER 2015</b>	<b>56</b>	<b>31</b>	<b>54</b>	<b>0</b>
<b>JANUARY 2016</b>	<b>32</b>	<b>15</b>	<b>32</b>	<b>0</b>
<b>FEBRUARY 2016</b>	<b>29</b>	<b>18</b>	<b>29</b>	<b>0</b>
<b>MARCH 2016</b>	<b>34</b>	<b>20</b>	<b>34</b>	<b>0</b>
<b>APRIL 2016</b>	<b>16</b>	<b>6</b>	<b>16</b>	<b>0</b>
<b>MAY 2016</b>	<b>34</b>	<b>27</b>	<b>30</b>	<b>0</b>
<b>Totals</b>	<b>520</b>	<b>295</b>	<b>476</b>	<b>1</b>

*\*A single incident report can include one or more violation categories. One incident report can overlap into multiple categories.*

Staff is recommending suspension of Paladin night patrols. The need for night time water waste patrols will be monitored on a monthly basis throughout the summer. If water waste complaints continue to increase throughout the summer, consideration will be given to reinstate program.

# CITRUS HEIGHTS WATER DISTRICT

## GENERAL MANAGER'S REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

SUBJECT : EMPLOYEE RECOGNITION  
 STATUS : Information Item  
 REPORT DATE : June 7, 2016

The following District employees were recognized for superior attendance, outstanding customer service and quality of work during the month of May 2016.

### ADMINISTRATION and WATER DEMAND MANAGEMENT DEPARTMENT

Brady Chambers: Superior Attendance  
 Work Quality – Assistance with payment imports and AutoPay while coworker was on vacation – week of 2016 May 23

Kelly Drake: Superior Attendance  
 Work Quality – Annual Asbestos-Cement Pipe Training for District Employees – 2016 Apr 21  
 Work Quality – Site Inspection and Upgrade to Safety Data Sheet Website – Friday 2016 May 20

Dana Mellado: Work Quality – Assistance with payment imports and AutoPay while coworker was on vacation – week of 2016 May 23

Rex Meurer: Superior Attendance  
 Work Quality – Safety Meeting Presentation on “Dog Bites” – 2016 May 05

Beth Shockley: Superior Attendance  
 Work Quality – Assistance with move-in/move-outs while coworker was on vacation – week of 2016 May 23  
 Work Quality – Assisted Water Efficiency Coordinator with Urban Water Management Plan Public Hearing Notice on short notice – 2016 May 24

Desiree Smith: Superior Attendance  
 Work Quality – Prepared Certificates for the Water Conservation Poster Contest Winners – 2016 May 05  
 Work Quality – Assisted Water Efficiency Coordinator with Urban Water Management Plan Public Hearing Notice on short notice – 2016 May 24

Lisa Smoot: Superior Attendance  
 Work Quality – Assisted Water Efficiency Coordinator with Urban Water Management Plan Public Hearing Notice on short notice – 2016 May 24

Susan Sohal: Superior Attendance

PROJECT MANAGEMENT and ENGINEERING DEPARTMENT

Missy Pieri: Superior Attendance  
Work Quality – Presentation of Capital Projects Planning to ACWA President Kathy Tiegs – 2016 May 26

Borey Swing: Superior Attendance  
Work Quality – Preparation of map for Facilities Tour on short notice – 2016 May 26

OPERATIONS and WATER QUALITY DEPARTMENT

James Buford: Work Quality – Inspection of Sunrise Blvd valve box installation by City Contractor – Friday 2016 May 13

Tim Cutler: Work Quality – Responded to Standby Duty call to repair water main at 8120 Forest Oak Way – Friday 2016 May 27

Robyn Evans: Superior Attendance  
Work Quality – Preparation for Monday Employee Recognition Assembly – Sunday 2016 May 08  
Work Quality – Site Inspection and Upgrade to Safety Data Sheet Website – Friday 2016 May 20

James Ferro: Customer Service: Email of appreciation from customer at 7770 Perdez Court Regarding advice about where to look for their private leak – 2016 May 19  
Work Quality: ACWA-JPIA Safety \$100 Award for dump truck bed entry/exit Ladder – 2016 May 09

Brian Hensley: Superior Attendance  
Work Quality – Tour of Bonita Way Well Site and Storage Building for ACWA President Kathy Tiegs – 2016 May 26

Rick Jimenez: Superior Attendance  
Work Quality – Responded to Standby Duty call to repair water main at 8120 Forest Oak Way – Friday 2016 May 27

Mike Mariedth: Superior Attendance

Zachary Powell: Work Quality – Responded to Standby Duty call to repair water service at 7779 Alondra Ct – Friday 2016 May 06  
Work Quality – Responded to Standby Duty call to repair water main at 8053 Hoopes Dr - 2016 May 26

Nick Spiers: Work Quality – Participated on out-of-department Interview Panel for selection of District Senior Construction Inspector – 2016 Mar 02

Jason Tupper: Superior Attendance  
Work Quality – Assisted with removal of dead tree in rear of corporation yard – Friday 2016 May 17

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# CITRUS HEIGHTS WATER DISTRICT

## GENERAL MANAGER'S REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

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SUBJECT : GENERAL MANAGER'S TASK LIST  
STATUS : Information Item  
REPORT DATE : June 8, 2016

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Significant assignments and activities for the General Manager (GM) are listed on the attached list. I will be available at the meeting to answer questions and/or provide additional details.

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Citrus Heights Water District  
 General Manager's Task List  
 Date: 6/9/2016

TASK LIST NO. 126		June 9, 2016		GM-2b	
Category	Green: Items that are substantially complete, delegated or awaiting action by others	GM Hrs to Complete	Waiting on or delegated to:	Deadline	Notes
Water Distribution	District Capital Project 2011-02: Beech Ave Metered Interconnection with Orange Vale WC	5	OVWC	15-Jun-2016	Draft Agreement sent to OVWC - awaiting comments

**Citrus Heights Water District  
General Manager's Task List  
Date: 6/9/2016**

Category	Red: Top Priority Items	GM Hrs to Complete	Waiting on or delegated to:	Deadline	Notes
Administration	<b>Annexations: Livotti Tract (4 of 8)</b>	40	Churchill	15-Sep-2016	
Administration	<b>Annexations: Sacramento County (4 of 8)</b>	40	Churchill	15-Sep-2016	
Administration	<b>Annexation of Verne Tract Territory to SJWD</b>	40	Churchill	15-Sep-2016	
Administration	Fiscal Management Policy - Disbursement of Funds	2	Every 3 Years	15-Oct-2015	
District HQ & Corp Yard	<b>Admin Building Office Enclosure 2016-25</b>	10	Kaler Dobler Construction	15-Jun-2016	Substantially Complete
Human Resources	<b>Retire from Citrus Heights Water District</b>		<b>Churchill</b>	<b>17-Nov-2016</b>	<b>Planned Date</b>
Water Distribution	<b>Future CIP Projects Summary Binder (2 of 8)</b>	20	GM/Engr Dept	15-Jul-2016	Edit in Progress
Water Distribution	<b>Technology Improvements: Document Management / Project Management / Asset Management / Easements (7 of 8)</b>	30	Smoot/wing/etc	15-Dec-2016	
Water Supply	<b>SJWD Shortage Policy Cost Update (1 of 8)</b>	10	SJWD	15-Jul-2016	MOU in Development
Water Supply	<b>SJWD Wholesale Water Supply Agreement</b>	30	Churchill/Albietz	12-Jul-2016	Meeting w/JKA Apr 14
Water Supply	SJWD Hydraulic Model Maintenance Agreement	5	Churchill	15-Sep-2016	
Water Supply	Sites Reservoir Advocacy	40	Straus/Riehle		
Water Supply	District Tour	5	Beard Discussion	31-May-2016	<b>Complete</b>
	<b>HOURS SUBTOTAL:</b>	<b>272</b>			



**Citrus Heights Water District  
General Manager's Task List  
Date: 6/9/2016**

Category	Yellow: Medium Priority Items	GM Hrs to Complete	Waiting on or delegated to:	Deadline	Notes
Administration	Master Plan Update: RFP for Engineering Services	0	PM/Engr Dept	15-Aug-2016	
Administration	Policies & Procedures: Write Missing Policies	32		ongoing	
Water Distribution	District Capital Project <b>2015-30</b> : Poplar Avenue 14"	10	Bennett Engr	15-Jul-2016	Design Phase
Water Distribution	District Capital Project <b>2015-31</b> : Baird Way 12"	10	Area West Engr	15-Jul-2016	Design Phase
Water Distribution	District Capital Project 2015-40: Mariposa Avenue 12"	10	Civil Engr Const	1-Aug-2016	Construction Phase
Water Distribution	District Capital Project <b>2013-32</b> : Dewey Dr Interconnection w/SSWD & GWD	0	<b>HOLD</b>	1-Jun-2014	Design Phase
Water Distribution	Metering Projects: Meter Installation Policy Coordination with City of CH	2			
Water Distribution	Easements: Berry Lane	2			
Water Distribution	Easements: Ross	2			
Water Supply	Find Property Deeds: Wells Ave. Well Site	10		1-Sep-2016	Discuss with City of CH
	<b>HOURS SUBTOTAL:</b>	<b>78</b>			

**Citrus Heights Water District  
General Manager's Task List  
Date: 6/9/2016**

Category	Blue: Non-Priority Items	GM Hrs to Complete	Waiting on or delegated to:	Deadline	Notes
Human Resources	Salary Schedule Update	40	Every 3 Years	1-Sep-2016	Last Updated Jan 2014, Update by July 2016 for 2017 Budget
Human Resources	GASB 45 Actuarial Analysis	10			Complete for 2016
Administration	2016 District Election	10		8-Nov-2016	Divisions One (4 year) and Two (2 year)
Administration	Conflict of Interest Code - Biennial Update	15	FPPC	31-Dec-2016	Biennial Update
Administration	Division Boundary Analysis	0	2020 Census	1-Jun-2021	Reviewed May 2011
Administration	Citrus Heights Water Takers Assn - Transcribe Meeting Minutes	20	Staff	1-Aug-2016	1917-1922 Handwritten Minutes of Predecessor to CHID / CHWD
Administration	Board of Directors Policies "3000 Series"	10	Every 4 Years	14-Feb-2016	Last completed 14 Feb 2012
Human Resources	Continued Education: Obtain and document contact hours for Water Treatment Operator T2 Certification	0	Renewed	1-Sep-2017	16 total hours needed
Human Resources	Continued Education: Obtain and document contact hours for Water Distribution Operator D5 Certification	0	Renewed	1-Jan-2018	36 total hours needed
Human Resources	Biennial Ethics Training	0	Every 2 Years	7-May-2017	Completed at ACWA Conference - 7 May 2015
Human Resources	Biennial Sexual Harassment Training	0	Every 2 Years	5-May-2017	Completed at ACWA JPIA Conference - 5 May 2015
Water Supply	Patton Ave Well Property Disposal			Hold	No Interested Parties
Water Supply	Watson Way Well Property Disposal			Hold	No Interested Parties
Water Supply	Public Health Goal Report & Public Hearing	1	OM, WRS	12-Jul-2016	Every 3 Years
Water Distribution	PIV Photos & Locks	3			
	<b>HOURS SUBTOTAL:</b>	109			
	<b>HOURS TOTAL:</b>	594			

# CITRUS HEIGHTS WATER DISTRICT

## GENERAL MANAGER'S REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

SUBJECT : LONG RANGE BOARD AGENDA  
 STATUS : Information Item  
 REPORT DATE : June 9, 2016

In an effort to plan workloads and schedules, Executive staff has been maintaining a Long Range Board Agenda, and the May update is provided below. Please let me know if you have any questions or comments.

Meeting Date	Item	Assigned To
June 26, 2016	Strategic Planning	Board & GM, Dept. Heads, Supervisors, ACE Pieri and WEC Meurer (13)
July 12, 2016	Regional Reliability Study Presentation	Swartz
	Public Health Goals (PHG) Public Hearing	Gordon/Hensley
	Water Supply Agreement	Churchill
	Water Supply Reserve Policy	Churchill
	Roseville Intertie Agreement	Churchill
	Third Party Deposit Policy	Straus/Sohal
	WaterSmart Workshop Jul 23 – AGM Report	Straus/Meurer
	RWA 15 Year Anniversary Jul 14 – GM Report	Churchill
August 9, 2016	CIP Adoption	All
	Compensation Study/Salary Schedule Update/Policies	Churchill/Straus/Smoot
	Project Agreement with RWA— Regional Reliability Study	Straus
Week of August 22 <sup>nd</sup>	Budget and Rates Study Session	Straus/Sohal
September 13, 2016	Budget and Rates Workshop	Straus/Sohal
October 11, 2016		
November 8, 2016	Operating and Capital Budgets	Straus/Dietrich/Gordon
	Water Rates, Charges & Fees	Straus/Sohal
	Capacity Fees	Straus/Sohal
	Water Shortage Charges	Straus/Sohal
December 13, 2016		

# CITRUS HEIGHTS WATER DISTRICT

## GENERAL MANAGER'S REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

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SUBJECT : ACWA 2016 SPRING CONFERENCE  
STATUS : Information Item  
REPORT DATE : June 9, 2016

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GM Churchill attended the Association of California Water Agencies (ACWA) and the ACWA Joint Powers Insurance Authority Conferences in Monterey, CA from Tuesday May 3 to Friday May 6, 2016.

Sessions Attended included:

Tuesday May 3, 2016

- Board Meeting Procedures
- ACWA Communications Committee

Wednesday May 4, 2016

- Water Policy Breakfast Session
- Alternative Financing Sources for Capital Projects
- State of the State's Water System
- Utility Charge Affordability

Thursday May 5, 2016

- Water Conservation Drought Emergency Regulations
- Embracing Technology in a New Era Luncheon Session
- Building a Better Water Market
- ACWA Region 4 Membership Meeting

Friday May 6, 2016

- ACWA/JPIA Update
  - The Delta Plan: Putting the Pieces Together
-

# CITRUS HEIGHTS WATER DISTRICT

## GENERAL MANAGER'S REPORT TO BOARD OF DIRECTORS JUNE 14, 2016 REGULAR MEETING

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SUBJECT : ACWA PRESIDENT VISIT  
STATUS : Information Item  
REPORT DATE : June 9, 2016

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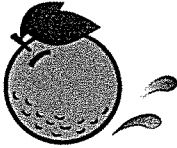
The Association of California Water Agencies (ACWA) President Kathleen Tiegs was extended an offer by District staff at the recent ACWA Conference in Monterey, CA to visit the District while in the Sacramento area. She accepted the offer and coupled it with a tour of the San Juan Water District (SJWD) Water Treatment Plant (WTP) on the morning of May 26, 2016.

The tour began at SJWD with Ms. Tiegs, ACWA Staff Representative Anna Torres and GM Churchill touring the WTP led by SJWD GM Shauna Lorance and WTP Superintendent Greg Turner. From there Ms. Tiegs and Ms. Torres received a tour of the Bonita Way Well site led by CHWD Water Resources Supervisor Brian Hensley. She was particularly complimentary of the residential nature of the site due the street-frontage storage building. Her tour concluded at the District Administration Office with a PowerPoint operational briefing on Statewide and regional matters, budget process overview, management services, water conservation, capital improvements and field operations led by GM Churchill, Associate Civil Engineer Missy Pieri and Operations Manager David Gordon.

Mr. Tiegs and Ms. Torres were provided with the accompanying Fact Sheet along with a copy of the PowerPoint briefing, a Spring 2006 Waterline Newsletter and the recent District Proposition 218 Notice.

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**CITRUS  
HEIGHTS  
WATER  
DISTRICT**

6230 Sylvan Road  
P.O. Box 286  
Citrus Heights  
California  
95611-0286

phone  
916/ 725-6873  
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*Board of Directors*  
**Allen B. Dains**  
**Caryl F. Sheehan**  
**Raymond A. Riehle**

*General Manager/  
Secretary*  
**Robert A. Churchill**

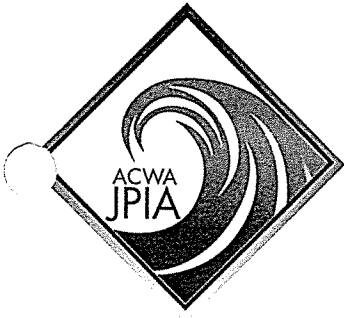
*Assistant General  
Manager/Treasurer*  
**Hilary M. Straus**

*Accounting Supervisor  
Assessor/Collector*  
**Susan K. Sohal**

## WELCOME ACWA PRESIDENT KATHLEEN TIEGS May 26, 2016

### CITRUS HEIGHTS WATER DISTRICT FACT SHEET

- Organized as an Irrigation District in October 1920.
- Three-person Board of Directors; qualify by division but elected at large.
- Service Area is approximately 12 square miles in portion of the City of Citrus Heights and the unincorporated communities of Fair Oaks, Orangevale and Carmichael in Sacramento County and portions of the City of Roseville and an unincorporated area in Placer County.
- Population: 65,100.
- Service Connections: 19,785, all metered; 83% residential.
- Water Supplies: Typically 90% American River surface water treated by and purchased from San Juan Water District; 10% local groundwater produced from six District wells.
- Water Demands: 2015 – 9,974 acre-feet;  
2009 to 2014 – 11,793 to 14,899 acre-feet/year range
- Water Distribution System: 265 miles of water transmission and distribution mains ranging in size from 4-inch to 42-inch.
- Personnel: 32 Authorized Positions; Average Tenure – 11.6 years;  
20 State-certified Water Distribution Operators;  
15 State-certified Water Treatment Operators.
- 2016 Operating Budget: \$10.7 million.
- 2016 Capital Budget: \$2.47 million.
- 2016 Water Rates: \$49.46 monthly for typical single family residence using 20 ccf per month. Single-tier commodity rate of \$0.8735/ccf. Typical bill is 65% fixed charges and 35% commodity charges. 14% rate increase in 2016 primarily for future capital needs.



MAY 11 2016

Citrus Heights Water Dist.

May 9, 2016

**JOINT POWERS**  
INSURANCE AUTHORITY

P. O. Box 619082  
Roseville, CA.95661-9082

phone  
916.786.5742  
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[www.acwajpia.com](http://www.acwajpia.com)

**President**  
E.G. "Jerry" Gladbach

**Vice President**  
Tom Cuquet

**Chief Executive Officer**  
Walter "Andy" Sells

**Executive Committee**  
Tom Cuquet  
David Drake  
E.G. "Jerry" Gladbach  
David T. Hodgin  
W.D. "Bill" Knutson  
Melody A. McDonald  
Charles W. Muse  
J. Bruce Rupp  
Kathleen J. Tiegs

Mr. Robert Churchill, General Manager  
Citrus Heights Water District  
P.O. Box 286  
Citrus Heights, CA 95611-0286

**Re: H.R. LaBounty Safety Awards Program**

Dear Robert:

On behalf of the JPIA, I am pleased to enclose a check, thank you letter, and award certificate for:

**James Ferro, Maintenance Construction Worker 2 \$100**

I am sure you will be proud to present this award to the James for his outstanding contribution to your District's health and safety programs.

Your District's participation in this ongoing program is deeply appreciated. Continued involvement by Citrus Heights Water District's employees is always welcomed.

Sincerely,

Walter "Andy" Sells  
Chief Executive Officer

502:11

Enc.