REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE FLORIN RESOURCE CONSERVATION DISTRICT

Wednesday, July 29, 2015

6:30 PM

9257 Elk Grove Blvd.
Elk Grove, CA 95624

Compliance with Government Code Section 54957.5

Public records, including writings related to an agenda item for an open session of a regular meeting of the Florin Resources Conservation District that are distributed less than 72 hours before the meeting, are available for public inspection during normal business hours at the Administration building of Elk Grove Water District, located at 9257 Elk Grove Blvd. Elk Grove, California. In addition, such writings may be posted, whenever possible, on the Elk Grove Water District website at www.egwd.org.

The Board will discuss all items on the agenda, and may take action on any item listed as an "Action" item. The Board may discuss items that do not appear on the agenda, but will not act on those items unless there is a need to take immediate action and the Board determines by a two-thirds (2/3) vote that the need for action arose after posting of the agenda.

If necessary, the Meeting will be adjourned to Closed Session to discuss items on the agenda listed under "Closed Session." At the conclusion of the Closed Session, the meeting will reconvene to "Open Session."

CALL TO ORDER, ROLL CALL AND PLEDGE OF ALLEGIANCE

Public Comment – Please complete a Request to Speak Form if you wish to address the Board. Members of the audience may comment on matters that are not included on the agenda. Each person will be allowed three (3) minutes, or less if a large number of requests are received on a particular subject. No action may be taken on a matter raised under "Public Comment" until the matter has been specifically included on an agenda as an action item. Items listed on the agenda will be opened for public comment as they are considered by the Board of Directors.

1. **Proclamations and Announcements**
   Government Finance Officer Association Certificate of Achievement for Excellence in Financial Reporting (Mark J. Madison, PE, General Manager)

Associate Director Comment

Public Comment

2. **Consent Calendar** (Stefani Phillips, Board Secretary and Jim Malberg, Treasurer)
   a. Minutes of Regular Board Meeting of June 24, 2015
   b. FRCD Cash Flow Worksheet – June, 2015
   c. Warrants Paid – June, 2015
   d. Active Accounts – June, 2015
   e. Bond Covenant Status for FY 2014-15 – June, 2015
   f. Revenues and Expenses – Actual vs Budget FY 2014-15 – June, 2015
   g. Cash Accounts – June, 2015
   h. Consultants Expenses – June, 2015

Associate Director Comment

Public Comment

Recommended Action: Approve Florin Resource Conservation District Consent Calendar

3. **Committee Meetings** (Stefani Phillips, Board Secretary)
   a. Finance Committee Meeting – June 12, 2015
   b. Infrastructure Committee Meeting – July 15, 2015

Associate Director Comment

Public Comment

Recommended Action: Approve Committee Meeting minutes

4. **Florin Resource Conservation District Conservation Activities – July 2015**
   (Ellen Carlson, Management Analyst)

Associate Director Comment

Public Comment

5. **Elk Grove Water District Conservation Activities – July 2015**
   (Ellen Carlson, Management Analyst)

Associate Director Comment

Public Comment

6. **Elk Grove Water District Operations Report – June 2015**
   (Mark J. Madison, PE, General Manager)

Associate Director Comment

Public Comment

7. **Automatic Meter Reading/Advanced Meter Infrastructure Feasibility Study**
   (Bruce Kamilos, Associate Civil Engineer)

Associate Director Comment

Public Comment

Recommended Action: Accept and file the Automatic Meter Reading/Advanced Meter Infrastructure Feasibility Study Report

8. **Elk Grove Water District Fiscal Year 2014-15 Quarterly Operating Budget Status Report** (Jim Malberg, Finance Manager/Treasurer)

Associate Director Comment

Public Comment

9. **Elk Grove Water District Fiscal Year 2014-15 Quarterly Reserve Status Report** (Jim Malberg, Finance Manager/Treasurer)

Associate Director Comment

Public Comment

10. **Legal Opinion – Florin Resource Conservation District Administrative Fee** (Mark J. Madison, PE, General Manager)

Associate Director Comment

Public Comment

11. **Potential Restriction of the Florin Resource Conservation District Activities** (Mark Madison, General Manager)

Associate Director Comment

Public Comment

12. **Election of Directors to the Special District Risk Management Authority Board of Directors** (Stefani Phillips, Board Secretary)

Associate Director Comment

Public Comment

Recommended Action: Vote for up to three candidates nominated for the Special District Management Authority Board of Directors, and adopt Resolution 07.29.15.01 of the governing board of the Florin Resource Conservation District for the election of Directors to the Special District Risk Management Authority Board of Directors

13. **Legislative Update** (Ellen Carlson, Management Analyst)

Associate Director Comment

Public Comment

14. **Directors Comments**

15. **Closed Session**
    a. CONFERENCE WITH LABOR NEGOTIATOR (Gov't Code Section 54957.6)
    Agency designated representative: Mark J. Madison
    Unrepresented Employee: Water Distribution Operator in Training
    b. CONFERENCE WITH LEGAL COUNSEL--EXISTING LITIGATION (Gov't. Code Section 54956.9(d)(1))
    United States, et al. ex rel John Hendrix v. J-M Manufacturing Company Inc. dba JM Eagle, et al. Docket No: ED CV06-00055-GW
    Court: United States District Court for the Central District of California

Adjourn to Regular Meeting – August 26, 2015.

July 29, 2015

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Stefani Phillips, Secretary and Jim Malberg, Treasurer

SUBJECT: **CONSENT CALENDAR**

RECOMMENDATION

It is recommended that the Board of Directors of the Florin Resource Conservation District approve the FRCD Consent Calendar.

Summary

By this action, the Board will approve the FRCD Consent Calendar items a-h.

DISCUSSION

Background

Consent Calendar items a-h are standing items on the Regular Board Meeting agenda.

FINANCIAL SUMMARY

N/A

Respectfully Submitted,

STEFANI PHILLIPS, SECRETARY AND
JIM MALBERG, TREASURER

SP

Attachments

Consent
Calender Item#: a

MINUTES OF THE REGULAR MEETING OF THE FLORIN RESOURCE CONSERVATION DISTRICT BOARD OF DIRECTORS

Wednesday, June 24, 2015

The regular meeting of the Board of Directors of the Florin Resource Conservation District was called to order at 6:30 p.m. by Chuck Dawson, Chair, at 9257 Elk Grove Blvd, Elk Grove CA.

Call to Order, Roll Call, and Pledge of Allegiance.

Directors Present:	Chuck Dawson, Elliot Mulberg, Tom Nelson, and Jeanne Sabin
Directors Absent:	Bob Gray
Staff Present:	Mark J. Madison, General Manager; Jim Malberg, Finance Manager; Donella Murrillo, Finance Supervisor; Stefani Phillips, Secretary; Bruce Kamilos, Associate Civil Engineer; Ellen Carlson, Management; Aaron Hewitt, Water Treatment Operator III; Steve Shaw, Water Treatment Foreman
Associate Directors Present:	Mike Schmitz and Davies Ononiwu
Consultants Present:	Ann Siprelle, Best Best & Krieger (BB&K)

Public Comment

No comments were made.

1. Proclamations and Announcements

Recognition of Aaron Hewitt for five years of service.

2. Consent Calendar

a. Minutes of the Regular Board Meeting of May 27, 2015
b. FRCD Cash Flow Worksheet – May, 2015
c. Warrants Paid – May, 2015
d. Active Accounts – May, 2015
e. Bond Covenant Status for FY 2014-15 – May, 2015
f. Revenues and Expenses – Actual vs Budget FY 2014-15 – May, 2015
g. Cash Accounts – May, 2015
h. Consultants Expenses – May, 2015

MSC (Mulberg/Sabin) to approve Consent Calendar items a-h 4/0: Ayes: Dawson, Mulberg, Nelson, and Sabin.

3. Committee Meetings

a. Conservation Committee Meeting – March 4, 2015
b. Conservation Committee Meeting – March 17, 2015
c. Finance Committee Meeting – May 13, 2015
d. Infrastructure Committee Meeting – May 13, 2015
e. Conservation Committee Meeting – May 27, 2015

Vice-Chairman Tom Nelson inquired if a motion was needed on the committee meetings minutes. Director Elliot Mulberg responded that he was not sure if a motion was needed since the FRCD Board Members are spread throughout the committees. Mr. Mulberg then asked how a board member can vote to approve the minutes if they were not in attendance.

Stefani Phillips, Board Secretary, provided background on how the committee meeting minutes were approved in the past.

Mr. Mulberg suggested going down the list of committee meetings one by one and getting them approved by the committee members who were in attendance at that particular meeting. Ms. Phillips inquired how the minutes would be approved if there were only two (2) board members present because there wouldn't be a quorum vote. Ann Siprelle, General Counsel, responded to Ms. Phillips, "That is correct and you would not have approved minutes." Ms. Siprelle stated that there is no requirement to approved minutes and the Board of Directors can just accept the minutes.

The FRCD Board of Directors accepted the Committee Meeting items a-e.

4. Florin Resource Conservation District Conservation Activities

Ellen Carlson, Management Analyst, presented the Florin Resource Conservation District Conservation Activities to the Board of Directors. Ms. Carlson spoke about Range Camp and the two students who were sponsored by FRCD from Elk Grove High School, Annabiel Saelee and Dana Mastro.

Director Jeanne Sabin inquired if the Range Camp sponsorship was built into the budget and what was the cost. Ms. Carlson responded stating it was $400 per student and this only covers the student's time at camp. Mark Madison, General Manager, stated that the District had $2000 budgeted in the FRCD budget and the money for Range Camp came out of the $2000 budget.

5. Elk Grove Water District Conservation Activities

Ellen Carlson, Management Analyst, presented the Elk Grove Water District Conservation Activities to the Board of Directors. Ms. Carlson spoke about the efforts EGWD is taking to achieve the 28% water use reduction. She stated there are two EGWD employees that provide coverage for water waste patrols throughout the week.

Director Elliot Mulberg inquired if the State Water Resource Control Board is enforcing their targets. Mark Madison, General Manager, responded not yet.

Ms. Carlson spoke about the Elk Grove Family Fest, which is sponsored by the Elk Grove Chamber of Commerce. Ms. Carlson stated, she will be attending this event at the end of July and will be doing a water activity with kids.

Ms. Carlson stated, she attended the American Water Works Association (AWWA) Conference and she co-presented with the conservationist from Sac Suburban. She stated that by attending the conference it presented a unified front for water conservation between other water agencies and organizations in Elk Grove.

Ms. Carlson informed the Board of Directors that Chairman Chuck Dawson, Vice-Chairman Tom Nelson and General Manager Mark Madison, attended the Association of California Water Agency (ACWA) Drought Workshop that was hosted by the El Dorado Irrigation District.

A customer had billing questions in regards to a property that he owned. Mr. Madison gave the customer his business card and let him know that he'd be happy to look into his concerns the following business day.

6. Appointment of Associate Directors to the Florin Resource Conservation District

Stefani Phillips, Board Secretary, presented the Appointment of Associate Directors to the Florin Resource Conservation District to the Board of Directors. In summary, the Florin

Resource Conservation District (FRCD) solicited applications for up to three Associate Director Positions. Associate Directors Davies Ononiwu and Mike Schmitz have responded indicating their interest in continuing in the role as Associate Directors to the FRCD.

Chairman Chuck Dawson commended the involvement Davies Ononiwu and Mike Schmitz has brought to the FRCD as Associates.

MSC (Nelson/Mulberg) the re-appointment of Associate Directors Davies Ononiwu and Mike Schmitz to the Florin Resource Conservation District Board of Directors 4/0: Ayes: Dawson, Mulberg, Nelson, and Sabin.

7. Operations Report – May 2015

Mark J. Madison, General Manager, presented the highlights of the Operations Report – May, 2015:

- Door Hangers and Shut-offs are up for the month
- 119 USA Locates
- Customer Complaints
    - 1 pressure complaint – measurements were taken at the house valve and it measured 70 psi
    - 2 water quality complaints – came from the customers water softeners
- Distribution Work Orders
    - 44 Hydrant Maintenance
    - 124 Valve Exercising – metric is 113 per month
- Utility Work Orders
    - 26 Service Line Replacements – good progress considering the Utility crew has been diverted to the Railroad Corridor Pipeline project
- Well Production
    - Well 1D – no relative change from the past month
    - Well 4D – produced more than last month
    - Well 11D – down a little from the last month
    - Well 14D – up a little from the last month
    - Well 3 – down a little from the last month
    - Well 8 – the district is not running right now as it has sand problems
    - Well 9 – ran 24/7 for the month
- Combined Total Production - production is down 39% from May 2013
- Total Demand/Production – trying to figure out why there is a difference in the R-GPCD numbers per service
- Static and Pumping levels – there is no new data for the month but the layout was switched over to a calendar year
- Sampling – did a number of re-samplings for the month
- No discharge for the month
- All preventative maintenance activities were performed on time and per the standard operating procedure (SOP)
- Backflow Prevention Program
    - Has increased from the previous month and is now at 17 outstanding delinquents
    - Since this program has been solidified and the district will be leveling out the number of notices that are issued per month so it is balanced throughout the year
- 5 Safety Meeting for the month
- 26 Service Line Replacements

- 2 Service Line Leaks due to pinholes
- Pressure
    - Service Area 2 – pressure has dropped
    - Service Area 1 – no complaints on pressure reduction

Director Elliot Mulberg inquired when the next reading for the Static and Pumping levels will be taken. Mr. Madison responded, in July.

8. Nomination of Florin Resource Conservation District/Elk Grove Water District Representatives for Appointment to the Sacramento Central Groundwater Authority Board of Directors

Mark Madison, General Manager, presented the Nomination of Florin Resource Conservation District/Elk Grove Water District Representatives for Appointment to the Sacramento Central Groundwater Authority Board of Directors to the Board of Directors. In summary, the Florin Resource Conservation District/Elk Grove Water District is a member of the Sacramento Central Groundwater Authority (SCGA). The SCGA Board of Directors is comprised of sixteen individuals, one of whom is represented by the FRCD/EGWD. Mr. Madison stated that the FRCD/EGWD needs to nominate a primary representative and an alternate representative to represent the District and the City of Elk Grove will appoint their nominations.

Director Jeanne Sabin inquired why the City of Elk Grove has to approve the Districts nomination. Mr. Madison responded stating that he doesn't know exactly why the City of Elk Grove approves the nomination, but it is prescribed in the SCGA Joint Powers Agreement. A discussion followed on the history.

MSC (Mulberg/Nelson) to nominate Vice-Chairman Tom Nelson as the primary representative and Director Elliot Mulberg as the alternate representative of the Florin Resource Conservation District/Elk Grove Water District Board of Directors, for appointment to the Sacramento Central Groundwater Authority Board of Directors; 4/0: Ayes: Dawson, Mulberg, Nelson, and Sabin.

9. Truck Purchase for Replacement of Truck #107

Bruce Kamilos, Associate Civil Engineer, presented the Truck Purchase Replacement for Truck #107 to the Board of Directors. In summary, the replacement of Truck #107 was approved in the Fiscal Year Capital Improvement Program (FY 2014-15 CIP). Per the Florin Resource Conservation Districts (FRCD) Policy No. 3 (Purchases of Goods and Services from Outside Vendors), a competitive bidding process was used to acquire four (4) bids for a 1-ton truck with a utility box and crane. The lowest prices, qualified, responsible bidder is Elk Grove Ford with a bid amount of $56,984.

Director Elliot Mulberg inquired if staff looked into other vehicle brands besides Ford. Mark Madison, General Manager responded stating that it is easier on staff to standardize the vehicles that are out in the field.

Director Jeanne Sabin inquired if the maintenance on the District's vehicles is done in-house vs. out. Mr. Madison responded that minor maintenance can be done in-house but major maintenance is performed by the dealership.

Associate Director Mike Schmitz inquired what will happened to the old vehicle. Mr. Madison stated that the old vehicle is sold in an auction and the money goes back to the reserves.

MSC (Mulberg/Sabin) to approve a motion authorizing the General Manager to execute a purchase order, in the amount $56,984 (plus tax and license), with Elk Grove Ford to purchase a 1-ton truck to replace Truck #107, and appropriate $30,000 of unused capital improvement funds from the Water Meter Replacement Program toward the truck purchase 4/0: Ayes: Dawson, Mulberg, Nelson, and Sabin.

10. Enforcement Procedure for Violations of the Water Shortage Contingency Plan

Mark Madison, General Manager, presented the Enforcement Procedure for Violations of the Water Shortage Contingency Plan. In summary, the District is proposing an ordinance to establish a procedure to enforce violations of the mandatory measures contained in the District's Water Shortage Contingency Plan. The ordinance would set forth a process to allow customers to appeal administrative citations (fines) and grant the Board Chairman authority to designate a hearing officer to entertain appeals.

Director Elliot Mulberg inquired who the Clerk is for the District. Stefani Philips, Board Secretary, responded, she is the Clerk.

Mr. Mulberg made a comment that the appeals person should have experience. He also made a suggestion to amend the current policy so that the District has a list of experienced potential hearing officers.

Vice-Chairman Tom Nelson inquired as to what kind of training the hearing officer will have.

Director Jeanne Sabin suggested having legal conduct a Standard Operating Procedure (SOP) for the hearing officer.

Mr. Madison commented that Director Bob Gray was interested in becoming a hearing officer. He also stated that the hearing officer would receive training on how to conduct a hearing by BB&K.

Chairman Chuck Dawson suggested having someone, besides an FRCD Board Member, on the list to conduct hearings. He then stated it would benefit the district to have two (2) hearing officers. Mr. Madison suggested establishing a list of hearing officers to conduct hearings.

Ms. Sabin inquired if it was acceptable for FRCD Board Members to become hearing officers. Ann Siprelle, General Counsel with BB&K, responded yes and also stated that EGWD Staff Members can also become hearing officers.

Associate Director Davies Ononiwu inquired at which step the appeals process take place does. Ms. Siprelle responded that the customer can appeal on their third violation. Discussion followed.

Mark Madison commented that Ellen Carlson, Management Analyst, is looking at a potential avenue for the customer to avoid the third violation, by offering Water School. He stated that the details are still being worked out, but wanted to let the Board of Directors know that staff is working on this.

MSC (Mulberg/Sabin) to adopt Ordinance No. 06.24.15.01 adopting an enforcement procedure for violations of the Water Shortage Contingency Plan; direct staff to provide a

list of potential hearing officers to the Board Chairman; and develop a hearing officer training program. 4/0: Ayes: Dawson, Mulberg, Nelson, and Sabin.

11. Florin Resource Conservation District Fiscal Year 2015-16 Budget

Jim Malberg, Finance Manager, presented the Florin Resource Conservation District Fiscal Year 2015-16 Budget to the Board of Directors. He stated that the salary and benefits allocation was removed as suggested at the previous Finance Committee meeting.

Director Elliot Mulberg commented that the consultant expense of $24,000 from Fiscal Year (FY) 2014-15 was not used and suggested putting it in the FY2015-16 Budget. Mr. Malberg responded that he will roll over the $24,000 into the FRCD Budget.

Mr. Mulberg suggested to roll over the conference expenditures $1,320 into the contracted services expenditures.

A discussion followed.

MSC (Mulberg/Sabin) to adopt Resolution No. 06.24.15.01 approving the Florin Resource Conservation District Fiscal Year 2015-16 Budget with amendments to reflect rolling over allocations of $24,000 for contracted services from Fiscal Year 2014-15 Budget; and eliminating allocations of $1320 for travel expenses 4/0: Ayes: Dawson, Mulberg, Nelson, and Sabin.

12. Economic Development Corporation Fiscal Year 2015-16 Budget

Jim Malberg, Finance Manager, presented the Economic Development Corporation Fiscal Year 2015-16 Budget to the Board of Directors. He stated that the budget was unchanged since the Finance Committee met on June 12, 2015.

Ann Siprelle, General Counsel, stated that the EDC could be dissolved fairly soon.

MSC (Mulberg/Nelson) to adopt Resolution No. 06.24.15.02 approving the proposed Economic Development Corporation Fiscal Year 2015-16 Budget 4/0: Ayes: Dawson, Mulberg, Nelson, and Sabin.

13. Elk Grove Water District Fiscal Year 2016-20 Capital Improvement Program

Bruce Kamilos, Associate Civil Engineer, presented the Elk Grove Water District Fiscal Year 2016-20 Capital Improvement Program (CIP) to the Board of Directors. He stated the Infrastructure Committee agreed with the CIP as presented by staff and also agreed to reduce the scope of one of the projects and as a result, an estimated savings of $200,000 will be achieved.

Vice-Chairman Tom Nelson spoke on behalf of the Infrastructure Committee.

Director Elliot Mulberg commended Vice-Chairman Tom Nelson and Director Bob Gray for their involvement as the committee.

Mark Madison, General Manager, commended Bruce Kamilos on the outstanding job overseeing the CIP. The Board second the sentiment.

MSC (Mulberg/Nelson) to adopt Resolution No. 06.24.15.03 adopting the Elk Grove Water District Fiscal Year 2016-20 Capital Improvement Program and approving an appropriation

of $2,325,000 from designated reserve funds to the Fiscal Year 2015-16 Capital Improvement Program budget 4/0: Ayes: Dawson, Mulberg, Nelson, and Sabin.

14. Elk Grove Water District Fiscal Year 2015-16 Operating Budget

Jim Malberg, Finance Manager, presented the Elk Grove Water District Fiscal Year 2015-16 Operating Budget to the Board of Directors. He stated that the budget is structurally balanced due to an increase contribution of $12,000 from excess operating reserves.

Other changes made to the budget since the May 27, 2015 meeting:

- Revised Salary & Benefits – error in step for one employee resulted in an increase to Salary & Benefits of $6,268
- Revised Worker's Compensation Insurance amount – increase of $7,758 based on updated MOD rate (inflator rate)
- Revised General Liability Insurance amount – decrease of $2,000 which was allocated $1,500 to FRCD & $500 (excess liability) to the EDC
- Updated the Water Rate Model with actual FY 2013-14 audited numbers, the adopted FY 2014-15 budget and the proposed FY 2015-16 budget
- Updated consumption data based on actual calendar year 2014 consumption totals
- Habib & Gregg at Raftelis QA/QC the updated model and they have confirmed revenue projections considering additional conservation goals in 2015

Chairman Chuck Dawson commended staff on their efforts on the Budget.

MSC (Nelson/Sabin) to adopt Resolution No. 06.24.15.04 approving the Elk Grove Water District Fiscal Year 2015-16 Operating Budget 4/0: Ayes: Dawson, Mulberg, Nelson, and Sabin

15. Investment Policy Guidelines Fiscal Year 2015-16

Jim Malberg, Finance Manager, presented the Investment Policy Guidelines Fiscal Year 2015-16 to the Board of Directors. In summary, no changes were made to the policy. The Investment Policy Guidelines Fiscal Year 2015-16 was brought to the FRCD Board of Directors to align with the Fiscal Year.

MSC (Dawson/Nelson) to adopt Resolution No. 06.24.15.05 adopting the Fiscal Year 2015-16 Investment Policy Guidelines of the Florin Resource Conservation District 4/0: Ayes: Dawson, Mulberg, Nelson, and Sabin

16. Legislative Update

Ellen Carlson, Management Analyst, presented the Legislative Update to the Board of Directors.

Mark Madison, General Manager, spoke about the Trailer Bills that were passed (Water Consolidation Budget SB 115 and SB 88). He stated that he mailed opposition letters and made numerous phone calls to the offices of Assemblymember Jim Cooper, Senator Richard Pan and Assemblymember Ken Cooley to make the Districts position on the Trailer Bills known. A discussion followed.

Chairman Chuck Dawson commented about the lobbyist groups stating that obviously the clout is not there. Mr. Madison and Director Elliot Mulberg responded stating not on this Bill. Mr. Mulberg then stated that the stakeholders made some noteworthy changes such as to disadvantaged communities.

Ms. Carlson commented that ACWA is accepting Legislative Proposals for the next year. She stated that proposals need to be submitted by September 4, 2015.

17. Directors Comments and Information

Director Elliot Mulberg suggested having elections divided by districts instead of as an at-large election and he would like the Board of Directors to direct staff to look into this. Mark, Madison, General Manager, suggested having District staff come back to the Board of Directors in a couple of months with the pros and cons.

Director Jeanne Sabin commented that in light of the recent Trailer Bills being passed, if the FRCD and EGWD were to spilt it would make it a lot easier for Sacramento County to absorb the EGWD.

Vice Chairman Tom Nelson requested to have the water usage figures for the month of June sent to the Board of Directors.

Adjourn to Regular Meeting on Wednesday, July 29, 2015 at 6:30 p.m.

Respectfully submitted,

Stefani Phillips

Stefani Phillips, Secretary
SP/CR

Consent
Calendar Item# b

FRCD Cash Flow
For the Month Ended June 30, 2015

Cash in Bank – Beginning	**$ 129,310.31**
Receipts:	
Interest Earned	**$ 8.46**
Disbursements:	
Check # 1019- Cal-Pac- Range Camp	**-$ 800.00**
Check # 1020- Herberger Publications	**-$ 277.99**
Check # 1021- Joe Worsley-Board Photo	**- $ 55.00**
Cash in Bank – Ending	**$ 128,185.78**

9257 Elk Grove Blvd. Elk Grove, CA 95624 (916) 685-3556 Fax (916) 685-5376

Check History Report

6/1/2015 to 6/30/2015
Elk Grove Water District

Check Number	Check Date	Vendor Number	Name	Check	Explanation
038680	6/3/2015	ACWAJPI	CB&T/ ACWA-JPIA	51,329.66	
038681	6/3/2015	B WAGNE	BRANDON WAGNER	129.52	Clothing Reimbursement
038682	6/3/2015	JAN PRO	JAN-PRO CLEANING SYSTEMS	515.00	Janitorial-ADMIN/MOC
038683	6/3/2015	RADIAL	RADIAL TIRE OF ELK GROVE	293.54	Repairs & Maintenance
038684	6/3/2015	REPUBLI	REPUBLIC SERVICES #922	776.54	
038685	6/11/2015	BG SOLU	SOLUTIONS BY BG INC.	4,220.43	Daily Tasks/Help Tickets
038686	6/11/2015	BSK4	BSK ASSOCIATES	140.00	Sampling
038687	6/11/2015	CONSOLI	CONSOLIDATED COMMUNICATIONS	240.08	Ethernet Service
038688	6/11/2015	CONSOLI	CONSOLIDATED COMMUNICATIONS	1,234.75	Phones-MOC/ADMIN
038689	6/11/2015	COUNTY3	COUNTY OF SACRAMENTO	25.00	
038690	6/11/2015	DOFAW	DEPT OF FISH AND WILDLIFE	921.00	Creek Crossing DFW Notification
038691	6/11/2015	EFFECT	EFFECTIVE PHONE SOLUTIONS INC.	1,120.22	Disaster Recovery
038692	6/11/2015	FASTENA	FASTENAL COMPANY	102.46	
038693	6/11/2015	GOLDEN	GOLDEN STATE FLOW MEASUREMENT	3,488.40	
038694	6/11/2015	HEROLD	HEROLD & MIELENZ INC.	1,890.48	Hampton WTP-Rebuild Back Wash Return Pump
038695	6/11/2015	INDUSTR	TNT INDUSTRIAL CONTRACTORS INC	21,125.14	Hampton WTP
038696	6/11/2015	INT STA	INTERSTATE OIL COMPANY	1,264.03	Fuel
038697	6/11/2015	JAYS	JAY'S TRUCKING SERVICE	696.96	
038698	6/11/2015	LAKE V	LAKE VUE ELECTRIC, INC	170.00	
038699	6/11/2015	MC ENGI	MC ENGINEERING, INC	230.00	
038700	6/11/2015	NEWEGG	NEWEGG BUSINESS, INC	279.39	
038701	6/11/2015	PACE	PACE SUPPLY CORP	323.64	
038702	6/11/2015	RADIAL	RADIAL TIRE OF ELK GROVE	395.64	Repairs & Maintenance
038703	6/11/2015	RCB MM	CARD SERVICE CENTER	940.00	CSDA Conference, Airfare, Meals
038704	6/11/2015	RCB SS	CARD SERVICE CENTER	382.32	Materials & Supplies
038705	6/11/2015	SCRS	COUNTY OF SAC DEPT. OF TECH	6,090.00	Backbone fees-Radios
038706	6/11/2015	SIERRA	SIERRA OFFICE SUPPLIES	780.79	
038707	6/11/2015	SUMMIT	AIR WORKS INC	110.00	
038708	6/11/2015	SWRCB4	SWRCB	2,062.00	NPDES Permit
038709	6/11/2015	TOSHIBA	TOSHIBA FINANCIAL SERVICES	528.93	Copier-ADMIN
038710	6/11/2015	ULTRA	ULTRA TRUCK WORKS, INC	108.99	
038711	6/11/2015	UNR	UNION PACIFIC RAILROAD	1,055.00	Encroachment Permit
038712	6/11/2015	VALL MO	VALLEY MOTOR PARTS	11.80	
038713	6/11/2015	VERIZON	VERIZON WIRELESS	691.49	Aircards-Laptops
038714	6/17/2015	B STARR	STARR CONSULTING	4,200.00	Completion of 2014 CCR
038715	6/17/2015	BEST	BEST, BEST & KRIEGER	10,496.93	Legal-May
038716	6/17/2015	BRINKS	BRINK'S INCORPORATED	266.83	
038717	6/17/2015	CCPPM	CCPPM	540.00	

Consent Calendar Item# C

038718	6/17/2015	COUNTY	COUNTY OF SACRAMENTO	407,335.40	April-May 2015
038719	6/17/2015	DATAPRO	DATAPROSE LLC	13,630.85	Monthly Billing and Stage Two Plus Insert
038720	6/17/2015	DOWNEY	DOWNEYBRAND	75.00	
038721	6/17/2015	EGPOWER	ELK GROVE POWER EQUIPMENT	171.49	
038722	6/17/2015	FASTENA	FASTENAL COMPANY	60.85	
038723	6/17/2015	J MELLO	JUSTIN MELLO	65.00	Cert Renewal - Reimbursement
038724	6/17/2015	MENDOZA	SALVADOR MENDOZA	367.35	Clothing Reimbursement
038725	6/17/2015	NORCAL	NOR*CAL ASPHALT	38,236.00	Melrose Water Main
038726	6/17/2015	OREILLY	O'REILLY AUTO PARTS	30.22	
038727	6/17/2015	PACE	PACE SUPPLY CORP	1,731.62	Materials & Supplies-(4) invoices-Bullheads, Hydrants, RR Corridor
038728	6/17/2015	PURCH	PURCHASE POWER	578.85	Postage-ADMIN
038729	6/17/2015	RCB EC	CARD SERVICE CENTER	1,240.23	Parking, Table Tents, Supplies
038730	6/17/2015	RCB RS	CARD SERVICE CENTER	849.56	Materials & Supplies
038731	6/17/2015	RCB SP	CARD SERVICE CENTER	603.84	Hotel, Contracted Services, Meals
038732	6/17/2015	RCBJC	CARD SERVICE CENTER	576.06	Materials & Supplies- Distribution, Hydrants
038733	6/17/2015	RWA	REGIONAL WATER AUTHORITY	94.94	
038734	6/17/2015	SWRCB2	SWRCB-DWOCP	60.00	Cert Renewal - Reimbursement
038735	6/17/2015	SWRCB2	SWRCB-DWOCP	60.00	Cert Renewal - Reimbursement
038736	6/17/2015	SWRCB2	SWRCB-DWOCP	60.00	Cert Renewal - Reimbursement
038737	6/17/2015	TRENCH	TRENCH PLATE RENTAL CO	829.35	
038738	6/17/2015	ULTRA	ULTRA TRUCK WORKS, INC	23.75	
038739	6/17/2015	COEG	CITY OF ELK GROVE	653.74	
038740	6/17/2015	HACH	HACH COMPANY	369.93	
038741	6/17/2015	HYDROSC	HYDROSCIENCE ENGINEERS, INC	540.00	
038742	6/17/2015	JOHN D	JOHN DEERE LANDSCAPES, INC	36.00	
038743	6/17/2015	KIRBY	KIRBY'S PUMP & MECHANICAL, INC	562.50	
038744	6/17/2015	MAXWELL	DENISE MAXWELL	3,933.00	Education Reimbursement
038745	6/17/2015	PEST	PEST CONTROL CENTER INC	80.00	
038746	6/17/2015	PG&E	PACIFIC GAS & ELECTRIC COMPANY	13.75	
038747	6/17/2015	VALL MO	VALLEY MOTOR PARTS	15.29	
038748	6/24/2015	AFLAC	AFLAC	1,853.32	
038749	6/24/2015	BAY 2	BAY ALARM COMPANY	309.00	
038750	6/24/2015	BAY 2	BAY ALARM COMPANY	35.00	
038751	6/24/2015	BG SOLU	SOLUTIONS BY BG INC.	4,447.04	Daily Tasks/Help Tickets
038752	6/24/2015	BSK4	BSK ASSOCIATES	85.00	
038753	6/24/2015	CALPER3	CALPERS FISCAL SERVICES DIV	49,404.00	
038754	6/24/2015	COUNTY4	SACRAMENTO COUNTY UTILITIES	99.25	
038755	6/24/2015	EG FORD	ELK GROVE FORD	419.50	Repairs & Maintenance
038756	6/24/2015	ELK LOC	ELK GROVE LOCK AND SAFE CO	14.29	
038757	6/24/2015	FASTENA	FASTENAL COMPANY	20.12	
038758	6/24/2015	FERRELL	FERRELLGAS	242.97	
038759	6/24/2015	FRONT C	FRONTIER COMMUNICATIONS	217.91	Well site communications
038760	6/24/2015	FRONT C	FRONTIER COMMUNICATIONS	167.27	Well site communications
038761	6/24/2015	INT STA	INTERSTATE OIL COMPANY	1,308.67	Fuel
038762	6/24/2015	JAYS	JAY'S TRUCKING SERVICE	871.60	
038763	6/24/2015	PAC BEN	PACIFIC BENEFIT IFLEX, INC	16.00	
038764	6/24/2015	PAC BEN	PACIFIC BENEFIT IFLEX, INC	82.00	
038765	6/24/2015	PAC BEN	PACIFIC BENEFIT IFLEX, INC	75.00	

038766	6/24/2015	PACE	PACE SUPPLY CORP	2,231.12	Materials & Supplies-RR Corridor
038767	6/24/2015	RADIAL	RADIAL TIRE OF ELK GROVE	1,057.12	
038768	6/24/2015	RDO 1	RDO TRUST # 80-5800	115.62	
038769	6/24/2015	SAC BEE	THE SACRAMENTO BEE	175.00	
038770	6/24/2015	SIERR C	SIERRA CHEMICAL COMPANY	819.93	
038771	6/24/2015	SIERRA	SIERRA OFFICE SUPPLIES	936.94	
038772	6/24/2015	UNITED	UNITED SITE SERVICES	234.91	
038773	6/24/2015	ZOOM	ZOOM IMAGING SOLUTIONS, INC	192.35	
038774	6/26/2015	CR CHR	CLEAR HORIZON REAL ESTATE	215.02	Account Closed- Customer Refund
038775	6/26/2015	CR FID	FIDELITY NATIONAL TITLE	3.17	Account Closed- Customer Refund
038776	6/26/2015	CR FID	FIDELITY NATIONAL TITLE	32.69	Account Closed- Customer Refund
038777	6/26/2015	CR FID	FIDELITY NATIONAL TITLE	73.82	Account Closed- Customer Refund
038778	6/26/2015	CR FID	FIDELITY NATIONAL TITLE	82.80	Account Closed- Customer Refund
038779	6/26/2015	CR FID	FIDELITY NATIONAL TITLE	42.93	Account Closed- Customer Refund
038780	6/26/2015	CR FID	FIDELITY NATIONAL TITLE	40.45	Account Closed- Customer Refund
038781	6/26/2015	CR MLLC	MYTROCK LLC	61.01	Account Closed- Customer Refund
038782	6/26/2015	CRF CF	CURTIS FERNS	6.89	Account Closed- Customer Refund
038783	6/26/2015	CRF AA	ANDREA AMES	119.53	Account Closed- Customer Refund
038784	6/26/2015	CRF AFC	ALFIE & FRIEDA CHAN	107.93	Account Closed- Customer Refund
038785	6/26/2015	CRF BFT	THE BETZIN FAMILY TRUST	3.94	Account Closed- Customer Refund
038786	6/26/2015	CRF CAK	CARLOS KOZLOWSKI	81.17	Account Closed- Customer Refund
038787	6/26/2015	CRF CDM	CHARLES D. MARSHALL	50.44	Account Closed- Customer Refund
038788	6/26/2015	CRF CFP	C. FRANCINE POWELL	4.95	Account Closed- Customer Refund
038789	6/26/2015	CRF COG	COLY GEE	45.31	Account Closed- Customer Refund
038790	6/26/2015	CRF DAD	DAVID DELIHANT	5.07	Account Closed- Customer Refund
038791	6/26/2015	CRF DFB	DENNIS K. BUTCHER	62.61	Account Closed- Customer Refund
038792	6/26/2015	CRF EPC	EMERALD PARK COMPANY	123.33	Account Closed- Customer Refund
038793	6/26/2015	CRF ERT	EDWARD R. THOMAS	146.94	Account Closed- Customer Refund
038794	6/26/2015	CRF FAY	FANELA YELDA	0.28	Account Closed- Customer Refund
038795	6/26/2015	CRF FT	FIRST AMERICAN TITLE	33.43	Account Closed- Customer Refund
038796	6/26/2015	CRF FT	FIRST AMERICAN TITLE	73.67	Account Closed- Customer Refund
038797	6/26/2015	CRF HEL	HERBERT LOPEZ	54.22	Account Closed- Customer Refund
038798	6/26/2015	CRF IMC	IMC ENTERPRISE, INC	133.52	Account Closed- Customer Refund
038799	6/26/2015	CRF JDJ	JULIA & JUSTIN OLDFIELD	73.13	Account Closed- Customer Refund
038800	6/26/2015	CRF KSL	KWAN FOR TAI & SHIRLEY LAU	18.72	Account Closed- Customer Refund
038801	6/26/2015	CRF KY	KAMIE YOUNG	58.37	Account Closed- Customer Refund
038802	6/26/2015	CRF LEN	LENNAR HOMES CA, INC	0.42	Account Closed- Customer Refund
038803	6/26/2015	CRF LEN	LENNAR HOMES CA, INC	139.31	Account Closed- Customer Refund
038804	6/26/2015	CRF LEN	LENNAR HOMES CA, INC	252.65	Account Closed- Customer Refund
038805	6/26/2015	CRF LEN	LENNAR HOMES CA, INC	1.38	Account Closed- Customer Refund
038806	6/26/2015	CRF LEN	LENNAR HOMES CA, INC	39.43	Account Closed- Customer Refund
038807	6/26/2015	CRF LEN	LENNAR HOMES CA, INC	67.62	Account Closed- Customer Refund
038808	6/26/2015	CRF LEN	LENNAR HOMES CA, INC	22.25	Account Closed- Customer Refund
038809	6/26/2015	CRF LIP	LINDA PAIST	24.74	Account Closed- Customer Refund
038810	6/26/2015	CRF LS	LSI TITLE COMPANY	19.44	Account Closed- Customer Refund
038811	6/26/2015	CRF MAF	MATTHEW FEASTER	0.65	Account Closed- Customer Refund
038812	6/26/2015	CRF MAV	MARIA VILLA	21.72	Account Closed- Customer Refund
038813	6/26/2015	CRF MLR	MANUEL & LETICIA RAMIREZ	66.57	Account Closed- Customer Refund
038814	6/26/2015	CRF NE	NEXT GENERATION CAPITAL LLC	61.01	Account Closed- Customer Refund
038815	6/26/2015	CRF NES	NELSON E. SANTIAGO	21.74	Account Closed- Customer Refund

038816	6/26/2015	CRF NT	NORTH AMERICAN TITLE COMPANY	100.20	Account Closed- Customer Refund
038817	6/26/2015	CRF NT	NORTH AMERICAN TITLE COMPANY	101.22	Account Closed- Customer Refund
038818	6/26/2015	CRF O	ORANGE COAST TITLE COMPANY	45.66	Account Closed- Customer Refund
038819	6/26/2015	CRF PT	PLACER TITLE COMPANY	155.24	Account Closed- Customer Refund
038820	6/26/2015	CRF RIK	RICHARD KAMBAK	40.82	Account Closed- Customer Refund
038821	6/26/2015	CRF RKR	ROBERT & KATHY RHYMES	8.40	Account Closed- Customer Refund
038822	6/26/2015	CRF RTD	ROCKY & TERRI DEAVERS	7.42	Account Closed- Customer Refund
038823	6/26/2015	CRF RV	ROCIO VIERA	0.08	Account Closed- Customer Refund
038824	6/26/2015	CRF SKC	SHELLY K. CLARK	10.53	Account Closed- Customer Refund
038825	6/26/2015	CRF STS	STEWART TITLE OF SACRAMENTO	16.53	Account Closed- Customer Refund
038826	6/26/2015	CRF SUJ	SUSAN JOHNSON	0.11	Account Closed- Customer Refund
038827	6/26/2015	CRFFTC	FIRST AMERICAN TITLE COMPANY	70.40	Account Closed- Customer Refund
038828	6/26/2015	CRFNA	NORTH AMERICAN TITLE COMPANY	45.46	Account Closed- Customer Refund
038829	6/26/2015	CROCC	ORANGE COAST TITLE COMPANY	257.33	Account Closed- Customer Refund
038830	6/26/2015	PACE	PACE SUPPLY CORP	206.39	Materials & Supplies-RR Corridor
038831	6/26/2015	RADIAL	RADIAL TIRE OF ELK GROVE	85.30	
038832	6/26/2015	SALAS	RICHARD SALAS	500.00	Clothing Reimbursement
038833	6/26/2015	SIERRA	SIERRA OFFICE SUPPLIES	34.03	
038834	6/26/2015	ULTRA	ULTRA TRUCK WORKS, INC	48.55	
038835	6/30/2015	AVANT	AVANT PAGE	300.00	Translations of Customer Bills
038836	6/30/2015	BSK4	BSK ASSOCIATES	2,682.00	Sampling-Treatment
038837	6/30/2015	CARRILL	JOSE CARRILLO	494.09	Clothing Reimbursement
038838	6/30/2015	CCPPM	CCPPM	195.12	Printing
038839	6/30/2015	COUNTY4	SACRAMENTO COUNTY UTILITIES	33.43	
038840	6/30/2015	CRF EGU	EGUSD-ELK GROVE HIGH SCHOOL	3,852.40	Audited Account - Customer Refund
038841	6/30/2015	EG FORD	ELK GROVE FORD	245.82	Repairs & Maintenance
038842	6/30/2015	FASTENA	FASTENAL COMPANY	278.80	Materials & Supplies
038843	6/30/2015	J MELLO	JUSTIN MELLO	43.14	
038844	6/30/2015	JAYS	JAY'S TRUCKING SERVICE	716.96	Materials & Supplies-RR Corridor
038845	6/30/2015	KOCH	KOCH & KOCH, INC	59,755.00	SCADA Improvements
038846	6/30/2015	MC ENGI	MC ENGINEERING, INC	547.50	AMI Feasibility Study
038847	6/30/2015	PACE	PACE SUPPLY CORP	16,493.63	Materials & Supplies- Backflows, RR Corridor
038848	6/30/2015	PAULA M	PAULA MAITA & COMPANY	69.12	
038849	6/30/2015	PIT 2	PITNEY BOWES GLOBAL FINANCIAL	197.67	
038850	6/30/2015	RADIAL	RADIAL TIRE OF ELK GROVE	17.00	
038851	6/30/2015	SAC VAL	SAC VALLEY ELECTRIC, INC	44,222.50	VFD-Booster Pump
038852	6/30/2015	TRENCH	TRENCH PLATE RENTAL CO	138.79	
038853	6/30/2015	UNR	UNION PACIFIC RAILROAD	4,974.20	RR Corridor Waterline
038854	6/30/2015	VANCE	JOHN VANCE	444.79	Clothing Reimbursement
038875	6/30/2015	ATT&T	AT&T MOBILITY	295.12	
038876	6/30/2015	BG SOLU	SOLUTIONS BY BG INC.	3,044.94	Daily Tasks/Help Tickets
038877	6/30/2015	BSK4	BSK ASSOCIATES	492.00	Sampling-Treatment
038878	6/30/2015	CAP RUB	CAPITAL RUBBER	120.72	
038879	6/30/2015	CARRILL	JOSE CARRILLO	86.50	Cert Renewal - Reimbursement
038880	6/30/2015	COUNTY	COUNTY OF SACRAMENTO	13,247.82	Six Parcel Billing Correction
038881	6/30/2015	COUNTY4	SACRAMENTO COUNTY UTILITIES	99.93	
038882	6/30/2015	EBERHAR	EBERHART SOFTWARE CONSULTING	285.00	
038883	6/30/2015	ELK LOC	ELK GROVE LOCK AND SAFE CO	226.42	

038884	6/30/2015	FASTENA	FASTENAL COMPANY	317.28	
038885	6/30/2015	HALING	CINDY HALING	240.00	
038886	6/30/2015	HANFORD	HANDFORD READY MIX INC.	253.14	
038887	6/30/2015	HERBURG	HERBURGER PUBLICATIONS, INC	390.00	Home & Garden Advertisement
038888	6/30/2015	HEROLD	HEROLD & MIELENZ INC.	1,858.03	Hampton WTP
038889	6/30/2015	HOLT	HOLT OF CALIFORNIA	83.81	
038890	6/30/2015	INT STA	INTERSTATE OIL COMPANY	1,936.74	Fuel
038891	6/30/2015	ISCC	ISCC, INC	149.00	
038892	6/30/2015	JAYS	JAY'S TRUCKING SERVICE	1,375.95	Materials & Dump Fees- RR Corridor, Distribution
038893	6/30/2015	NEWEGG	NEWEGG BUSINESS, INC	8.50	
038894	6/30/2015	NTU	NTU TECHNOLOGIES, INC	2,160.00	Coagulate for Backwash System-
038895	6/30/2015	PACE	PACE SUPPLY CORP	3,880.93	Materials & Supplies-RR Corridor, Backflows
038896	6/30/2015	PAPE'	PAPE'S MATERIAL HANDLING.	3,193.81	Hampton-Replace Actuator
038897	6/30/2015	PEST	PEST CONTROL CENTER INC	80.00	
038898	6/30/2015	RCB DO	CARD SERVICE CENTER	16.62	
038899	6/30/2015	RCB EC	CARD SERVICE CENTER	1,064.21	Hotel, Parking, Supplies, Safety
038900	6/30/2015	RCB MM	CARD SERVICE CENTER	886.50	Contracted Services, Parking, Meals
038901	6/30/2015	RCB RS	CARD SERVICE CENTER	287.53	Materials & Supplies
038902	6/30/2015	RCB SP	CARD SERVICE CENTER	1,191.89	Contracted Services, Conference room hearing device, Training
038903	6/30/2015	RCB SS	CARD SERVICE CENTER	103.55	Parking, Materials
038904	6/30/2015	RCBJC	CARD SERVICE CENTER	235.32	Materials & Supplies
038905	6/30/2015	SMUD	SMUD	932.66	
038906	6/30/2015	SMUD	SMUD	3,709.48	
038907	6/30/2015	SMUD	SMUD	6,180.28	
038908	6/30/2015	SMUD	SMUD	149.74	
038909	6/30/2015	SMUD	SMUD	12,020.16	
038910	6/30/2015	SMUD	SMUD	172.93	
038911	6/30/2015	SMUD	SMUD	1,914.79	
038912	6/30/2015	SMUD	SMUD	490.53	
038913	6/30/2015	SMUD	SMUD	3,412.56	
038914	6/30/2015	TRENCH	TRENCH PLATE RENTAL CO	41.70	
038915	6/30/2015	VALL MO	VALLEY MOTOR PARTS	27.00	
				Total: 864,085.45	

Elk Grove Water District
Active Account Information
6/30/2015

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
Water Accounts:												
Non-metered												
Residential	135	133	134	133	107	80	65	21	20	-	-	-
Commercial	47	33	33	35	21	10	10	4	4	-	-	-
Metered												
Residential	11,494	11,484	11,490	11,473	11,479	11,513	11,525	11,579	11,607	11,632	11,651	11,658
Commercial	457	458	459	457	479	492	502	509	512	514	511	512
Fire Service	123	121	121	121	121	121	121	121	121	121	121	121
Total Accounts	12,256	12,229	12,237	12,219	12,207	12,216	12,223	12,234	12,264	12,267	12,283	12,291

Elk Grove Water District
Active Account Information
FY 2013/2014

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
Water Accounts:												
Non-metered												
Residential	938	947	813	594	475	422	384	342	294	241	187	137
Commercial	110	110	110	110	108	102	102	89	81	51	50	47
Metered												
Residential	10,605	10,595	10,724	10,949	11,034	11,093	11,141	11,163	11,213	11,271	11,381	11,543
Commercial	388	392	397	394	394	397	397	414	421	451	454	458
Fire Service	123	123	123	123	123	123	123	123	123	121	121	122
Total Accounts	12,164	12,167	12,167	12,170	12,134	12,137	12,147	12,131	12,132	12,135	12,193	12,307

Consent
Calendar Item# 4

Consent
Calendar Item# e

Elk Grove Water District

Bond Covenant Status

For Fiscal Year 2014-15

As of June 30, 2015

Operating Revenues:		
Charges for Services	$	13,322,813
Operating Expenses:		
Salaries & Benefits		3,358,270
Seminars, Conventions and Travel		26,613
Office & Operational		3,479,565
Outside Services		730,241
Equipment Rent, Taxes, an Utilities		335,982
Depreciation & Amortization		1,850,000
Total Operating Expenses		9,780,671
Income From Operations	$	3,542,142

Covenant Number 2

Income From Operations	3,542,142	
Add: Depreciation & Amortization Expenses	1,850,000	*
Total	5,392,142	
Interest & Principal Payments		
2,546,800 interest + 1,290,000 principal	3,836,800	*
Coverage Ratio:		
Actual	**1.41**	
Required	**1.15**	

* Note: The calculation for the period = the percentage of the year completed.

Elk Grove Water District
Revenues and Expenses Actual to Budget
June 30, 2015

	General Ledger Reference	June Activity	June Budget	Variance	%	YTD Activity	Annual Budget	12/12=100% Variance	%
Revenues	4100 - 4900	1,133,615	1,205,315	-71,700	-5.95%	13,322,813	14,463,784	-1,140,971	92.11%
Salaries & Benefits (1)	5100 - 5280	326,396	310,134	16,262	5.24%	3,358,270	3,721,605	-363,335	90.24%
Seminars, Conventions and Travel	5300 - 5350	2,707	3,167	-460	-14.53%	26,613	38,007	-11,394	70.02%
Office & Operational (2)	5410 - 5495	298,803	342,597	-43,794	-12.78%	3,479,565	4,111,168	-631,603	84.64%
Outside Services	5505 - 5580	35,000	68,380	-33,380	-48.82%	730,241	820,558	-90,317	88.99%
Equipment Rent, Taxes, Utilities	5620 - 5760	31,994	36,654	-4,660	-12.71%	335,982	439,846	-103,865	76.39%
Total Operational Expenses		694,900	760,932	-66,032	-8.68%	7,930,671	9,131,184	-1,200,513	86.85%
Net Operations		438,715				5,392,142			
Non-Operating Activity									
Depreciation & Amortization	5810 - 5820	154,167	154,167	0	0.00%	1,850,000	1,850,000	0	100.00%
Bond Interest Accrued	7300 - 7300	212,236	212,236	0	0.00%	2,546,826	2,546,826	0	100.00%
Interest Earned	9910 - 9910	6,530	833	5,696	683.56%	17,967	10,000	7,967	179.67%
Other Income	9920 - 9973	1,662	0	1,662		214,869	0	214,869	
Revenues in Excess of Expenditures (Net Revenues)		80,505				1,228,152			
Capital Expenses									
Capital Improvements						1,395,827			
Capital Replacements						451,864			
Equipment						51,337			
Bond Retirement: $1,290,000						1,290,000			
Total Capital And Debt Retirement Expenditures						3,189,028			
Net Position after Capital and Debt Retirement Expenditures						(1,960,876)			

(1) Approximately of $400,00 of salary expenses will be capitalized to various capital projects, which will reduce the final operating expenditures.
(2) Estimated Expenditures: Purchased Water $226,403 in June.

Consent Calendar Item# f

Florin Resource Conservation District
CASH - Detail Schedule of Investments
6/30/2015

		Account number / name	Investment Name	Investment Type			Restrictions	Market Value
HELD BY BOND TRUSTEE:								
G/L Account #	**Money Market Fund**							
1130-000-30	Building	BNY 113518 FRCD OB 2003 A/B Rev Fd	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	$ 430,853.80
	Building	BNY 113522 FRCD OB 2003 B SUB IPF	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	0.00
	Building	BNY 113591 FRCD OB 03 A/B O/M RES FD	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	20,487.01
1132-000-30	Building	BNY 113594 FRCD OB 03 A/B RES FD	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	460,000.00
	Building	BNY 113598 FRCD 03 A INST PMT FD	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	0.00
	Building	BNY 113599 FRCD OB 03 A SR IPF	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	0.00
1133-000-30	Building	BNY 113601 FRCD 2003 A/B CAR/PAINT EXP	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	3,774.72
1134-000-30	Building	BNY 113602 FRCD 2003 A/B ADMIN EXP FD	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	95.11
1103-000-20	Water	BNY 113757 FRCD 2002 INST PMT SER B	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	2.00
	Water	BNY 113759 FRCD 2002 INST PMT SER B	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	1.01
1102-000-20	Water	BNY 113756 FRCD INST PMT SER A	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	779,364.83
1107-000-20	Water	BNY 113576 FRCD 2003 A CONST FUND	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	0.00
1122-000-20	Water	BNY 113584 FRCD 2005 A CONST FUND	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	0.00
1123-000-20	Water	BNY 113585 FRCD 2005 A INST PM	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	192,418.68
1121-000-20	Water	BNY 113586 FRCD 2005 A RATE STAB	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	0.00
	Water	BNY 113587 FRCD 2005 A RES FD	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	1.00
1101-000-20	Water	BNY 113764 FRCD 2002 A/B RATE STABILIZATION	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	0.00
	Water	BNY 892747 FRCD 2014A COI	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	0.00
	Water	BNY 892745 FRCD 2014A REDEMPTION	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	0.00
	Water	BNY 892744 FRCD 2014A DEBT SERVICE	Dreyfus Inst Treasury	MM Mutual Fund			Restricted	9,145.84
							Subtotal	**$ 1,896,144.00**
1001-000-20	Water	CASH ON HAND					Unrestricted	**$ 300.00**
	HELD BY RIVER CITY BANK:							
1010-000-10	FRCD	RCB 1111057982 CHECKING ACCOUNT					Unrestricted	128,185.78
1010-000-20	Water	RCB 1111063486 GENERAL CHECKING					Unrestricted	594,513.85
1020-000-20	Water	RCB 1111028001 MONEY MARKET					Unrestricted	3,973,772.13
1030-000-20	Water	RCB 1111025851 CHARGE CARD ACCOUNT					Unrestricted	466,769.91
1040-000-20	Water	RCB 1111096589 HIGH YIELD MONEY MARKET					Unrestricted	3,186,032.28
1050-000-20	Water	RCB 1111099502 DEBT SERVICE ACCOUNT					Unrestricted	5.63
1060-000-20	Water	RCB 1111097844 PAYROLL ACCOUNT					Unrestricted	189,451.02
1070-000-20	Water	RCB 1111097933 WEB PAYMENT RECEIPTS					Unrestricted	937,340.36
							Subtotal	**$ 9,476,070.96**
1080-000-20	Water	Office of the Treasurer - Sacramento California	LAIF	Investment Pool	Unrated	N/A	Unrestricted	**$ 2,834,258.70**
							Total	**$ 14,206,773.66**
							Total Restricted	**$ 1,896,144.00**
							Total Unrestricted	**$ 12,310,629.66**

Consent Calendar Item# 9

Consultant Expenses
June 30, 2015

Fiscal Retainer Contracts

Consultant	Description	Current Month	Paid to date	Budget/Contract Amount	Percent of year (100%)
Best Best, & Krieger**	Task orders	10,497	116,961	185,000	63.22%
Solutions by BG, Inc.	Task orders	11,712	117,748	124,630	94.48%

Project Specific Contracts

Consultant	Description	Current Month	Paid to date	Budget/Contract Amount	Percent of Contract Amount
AECOM	ERP		18,923	74,720	25.33%
MC Engineering, Inc	AMI Study	548	14,635	23,680	61.80%

*Capital Projects

**Legal Cost detail - FY 14/15

Operations	
FRCD/EDC	$ 114,151
Litigation	
Other	
TOTAL	114,151

Consent Calendar Item# h

July 29, 2015

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Stefani Phillips, Secretary

SUBJECT: **COMMITTEE MEETINGS**

RECOMMENDATION

It is recommended that the Board of Directors of the Florin Resource Conservation District accept Committee Meeting minutes of the Finance Committee Meeting held on June 12, 2015 and the Infrastructure Committee Meeting held on July 15, 2015.

Summary

There were two (2) committee meetings between the months of June and July 2015 and the minutes of these meetings are attached to this report. By this action, the Board would accept the minutes for these two meetings.

DISCUSSION

Background

The committee meeting minutes were previously brought to the respective committees for review, and then to the full Florin Resource Conservation District (FRCD) Board of Directors for approval. At the Regular Board Meeting held on May 27, 2015, the FRCD Board of Directors determined that the committee meeting minutes will be brought to the FRCD Regular Board Meeting and placed under agenda item Committee Meetings. The agenda item Committee Meetings, were placed after Consent Calendar for approval. This item may be moved within the agenda, if necessary, by direction from Chairman Chuck Dawson.

Present Situation

At the Regular Board Meeting held on June 24, 2015, the FRCD Board of Directors held a discussion regarding the process for approving committee meeting minutes. Ann Siprelle, General Counsel, stated that there is no requirement to approve minutes and the board of directors can just accept the minutes.

FINANCIAL SUMMARY

There is no financial impact associated with this item at this time.

Respectfully Submitted,

STEFANI PHILLIPS,
FLORIN RESOURCE CONSERVATION DISTRICT BOARD SECRETARY

SP

Attachments

Committee
Meeting Item # a

MINUTES OF THE SPECIAL MEETING OF THE FINANCE COMMITTEE OF THE FLORIN RESOURCE CONSERVATION DISTRICT BOARD OF DIRECTORS

Friday, June 12, 2015

Attendance:

Committee Members:	Chuck Dawson, Bob Gray, Elliot Mulberg, Tom Nelson, and Jeanne Sabin
Associate Members:	None present
Staff Members:	Mark J. Madison, General Manager; Jim Malberg, Finance Manager; Stefani Phillips, Secretary
Consultants Present:	Ann Siprelle, Best Best & Krieger (BB&K)

This was a posted meeting and no members of the public was present.

1. **Draft Fiscal Year 2015-16 Florin Resource Conservation District Budget**
   Mark J. Madison, General Manager introduced the meeting and explained Jim Malberg, Finance Manager, would cover the agenda items.

   Mr. Malberg gave a line by line overview of the Draft Fiscal Year 2015-16 Florin Resource Conservation District Budget to the Finance Committee members.

   Comments and inquiries include:

   - Cost of one (1) director attending the CARCD conference was added
   - Revising contracted services expense once the District is reimbursed from the building fund – the true number will be reflected at the June 24, 2015 Board Meeting

   Director Tom Nelson commented that the General Manager's salary should be paid for by the FRCD because the contract is for the Board of FRCD.

   Mr. Nelson inquired if the FRCD is required to pay the $15,000 salary and benefit expense under Proposition 218. Ann Siprelle, Legal Counsel, responded that it could be challenged. She then sited the Lemon Grove case.

   Mr. Madison inquired the board to clarify if the FRCD can seek reimbursement for services that the FRCD is providing to EGWD or if the FRCD can charge an administrative fee to EGWD.

   Mr. Nelson inquired if it was legal for the FRCD to apply a fee for a percentage of what the EGWD received.

   Director Jeanne Sabin inquired clarification if the Board is requesting an administrative fee given to the FRCD on grants that are received or will the FRCD receive a percentage of the EGWD revenue. Mr. Nelson responded stating a percentage of the income from the EGWD would go to the FRCD.

   Ms. Sabin inquired if there would be a limit on what the percentage is spent on.

Ms. Sabin inquired how much of the EGWD income is used to pay salaries and payroll. Mr. Madison responded one-third (1/3) of EGWD income is spent to pay salaries and payroll.

Ms. Sabin stated that she didn't want the administrative fee to go to other stuff such as legal, salaries and elections.

A discussion amongst the FRCD Board Members occurred regarding the FRCD cost of service.

Mr. Madison inquired clarification from the FRCD Board members asking is the idea to try to develop a means of which the FRCD could seek reimbursement from the EGWD for services that the FRCD provides to the district or can the FRCD simple charge an administrative fee to the EGWD enterprise fund. Mr. Nelson confirmed it was the latter question that the FRCD Board of Directors are suggesting.

Mr. Madison then suggested a two-step process for the FRCD Board of Directors:

1) Determine legally if you can charge an administrative fee to the EGWD enterprise fund
2) If charging an administrative fee to the EGWD is legal, do you want to do this or should you do this and that would be a Board Policy decision

Ms. Siprelle stated an administrative fee is paid as a way of reimbursing an other source or service.

Director Elliot Mulberg would like to see fundraising efforts to keep the FRCD going. He stated he did not want to raise the rates. Mr. Mulberg would like to serve all of the FRCD/EGWD people.

Mr. Madison confirmed the Board's direction requesting a legal opinion on charging an administrative fee to the EGWD for the cost of service, not for seeking reimbursable.

Mr. Madison also suggested the FRCD Board of Directors strike the amount budgeted to salary and benefits and keep the expense in bay until a budget is adopted on June 24, 2015.

2. Draft Fiscal Year 2015-16 Economic Development Corporation Budget

Jim Malberg, Finance Manager, presented the Draft Fiscal Year 2015-16 Economic Development Corporation Budget to the Board of Directors.

Mark Madison, General Manager spoke about the timing of the pending sale of the Susie Gaines Mitchell Building.

Director Jeanne Sabin inquired if any of the parties that were involved in Susie Gaines Mitchell Building had a copy of the purchase agreement. Mr. Madison responded stating that he will look into the county to see if the county has a copy.

Director Bob Gray stated that the District should have a fall back plan in case something comes up with the sale of the building.

Director Elliot Mulberg suggested to review the FRCD Budget at the Regular Board meeting in August.

Mr. Madison suggested to move the Regular Board Meeting in July out a week to July 29, 2015.

The next Finance Committee Meeting to be determined.

Respectfully submitted,

Stefani Phillips

Stefani Phillips, Secretary

Committee
Meeting Item # b

MINUTES OF THE SPECIAL MEETING OF THE INFRASTRUCTURE COMMITTEE OF THE FLORIN RESOURCE CONSERVATION DISTRICT BOARD OF DIRECTORS

Wednesday, July 15, 2015

Attendance:

Committee Members:	Tom Nelson, Vice-Chairman and Bob Gray, Director
Associate Members:	Davies Ononiwu
Staff:	Mark J. Madison, General Manager; Stefani Phillips, Human Resource Specialist/Board Secretary; Bruce Kamilos, Associate Civil Engineer; Jim Malberg, Finance Manager; Donella Murrillo, Finance Supervisor Cindy Robertson, Administrative Assistant II (Confidential)
Consultant:	Mark A. Carey, P.E. MC Engineering, Inc.
Public:	None

This was a posted meeting and no members of the public was present.

Review of Automatic Meter Reading/Infrastructure Feasibility Study

Bruce Kamilos, Associate Civil Engineer, presented the Review of Automatic Meter Reading/Infrastructure Feasibility Study to the members of the Infrastructure Committee.

Mr. Kamilos provided background on the current practices of reading sensus meters.

Mark A. Carey, P.E. MC Engineering, Inc. gave a presentation of the AMR/AMI Feasibility Study.

Mark Madison, General Manager, asked Director Bob Gray what he had learned from customers about AMI, while he was campaigning. Director Bob Gray responded, "The customers, almost universally, were opposed to the installation of AMI, because of the cost."

A discussion occurred regarding a fully metered District for leak detection.

Need to update service area map related to well sites (which sites does EGWD still own).

Mr. Madison inquired how long the battery life for AMI is prior to it needing to be replaced. Mr. Carey responded ten (10) years warranty and twenty (20) pro-rated.

Mr. Gray inquired if the AMI system is compatible with EGWD meters. Mr. Carey responded, he believes so.

Mr. Madison stated AMI is the direction the water industry is headed, but it's the Board's decision if they would like to go in this direction. He then stated we can hold off on this until the Board is ready. Mr. Madison stated, "If it was his money, he is not sure he would do it."

Mr. Gray commented, "He is not interested in being on the cutting edge. Everything works the way it is, so why fix it?"

Vice-Chairman Tom Nelson sees a lot of benefit for the customers but not for the District.

Mr. Kamilos considers AMI to be a luxury and stated, "It would be nice to be cutting edge, especially because of the technology." He then commented that there is no measure of feasibility.

Mr. Nelson inquired if Mr. Carey has seen any grants for AMI. Mr. Carey responded, stating he hadn't seen a lot.

Mr. Madison commented stating there will be a push for AMI grants under Proposition 1.

Mr. Kamilos stated Golden Hills Community Services District secured a 50% cost share grant from Department of Water Resources (DWR) under the Urban Drought Grant Assistance Program to install AMI. He then stated DWR contributed $250,000 to the project. Mr. Kamilos asked for a copy of their grant application but has not received anything.

Mr. Madison recommended sitting on this and revisiting in a couple of years.

Mr. Gray inquired how many hits does the District receive on their website per month. The District will have Thomas Dianet find out the number and Mr. Madison will email the figure out to the Infrastructure Committee Members.

Mr. Madison suggested waiting on the AMI system until the District goes through the IT Vulnerability Assessment.

The consensus of the Infrastructure Committee is to keep this as a placeholder and to look for advantages as to why the District should go with an AMI system.

Mr. Madison commented on items he wanted to review with Mr. Kamilos and Mr. Carey.

- Revise the maps so only active well sites are shown
- Apply an inflation factor to maintenance costs
- Reduce the operational savings
- Tables 4 and 6 contain erroneous dollar figures and needs to be fixed
- Remove in references to "draft" such as on the Service Area maps

Next Infrastructure Committee Meeting to be determined.

Respectfully submitted,

Stefani Phillips

Stefani Phillips, Secretary

July 29, 2015

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Ellen Carlson, Management Analyst

SUBJECT: **FLORIN RESOURCE CONSERVATION DISTRICT CONSERVATION ACTIVITIES – JULY 2015**

RECOMMENDATION

This item is presented for information only. No action by the Board is proposed at this time.

Summary

The Board has requested a monthly summary of Florin Resource Conservation District conservation activities performed by the Board and Staff.

DISCUSSION

Background

Board members and staff periodically perform community services within the FRCD boundaries in keeping with the purpose of the Florin Resource Conservation District.

Present Situation

The Board has received a thank you note, from the two students sponsored for Range Camp.

Staff participated in two Friends of Stone Lakes National Wildlife Refuge meetings in the past month, the executive committee meeting and the board meeting. One of the most popular public activities at the Refuge is kayak and canoeing tours led by Refuge staff. The Friends group is considering purchasing some kayaks to loan to visitors that want to take the tour but do not own a kayak. Progress is also being made on a grant project to finance school field trips to the Refuge. The group has completed its work on an MOU between the Refuge and the Elk Grove Unified School District, which will pilot the program

this fall. Staff is also assisting in the archiving of many years of Refuge documents into "Cloud" storage.

On November 14, the Friends will host their annual Brunch with the Birds event. The highlight of this event is a special walk with the Refuge's management into an area not normally open to the public. November is peak season for the sandhill crane migration and seeing these birds is almost guaranteed. Attendance is by invitation, so please let Ellen know if you are interested in attending so that she can put your name on the list.

STRATEGIC PLAN CONFORMITY

Participation in regional conservation outreach is in conformity with the District's conservation and cooperative program goals of the 2012-2017 Strategic Plan.

FINANCIAL SUMMARY

There is no direct financial impact associated with this report.

Respectfully submitted,

ELLEN CARLSON
MANAGEMENT ANALYST

July 29, 2015

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Ellen Carlson, Management Analyst

SUBJECT: **ELK GROVE WATER DISTRICT CONSERVATION ACTIVITES – JULY 2015**

RECOMMENDATION

This item is presented for information only. No action by the Board is proposed at this time.

Summary

The Elk Grove Water District achieved a water savings of 40.4% in the month of June in comparison to the same period in 2013. This savings is due to a combination of reduction in system pressure and continued conservation efforts of EGWD customers.

DISCUSSION

Background

The District remains at a Stage 2 Plus – Extreme Water Warning of the Water Shortage Contingency Plan. Staff patrols every day looking for signs of water waste violations.

Present Situation

Current water use reduction status

The Elk Grove Water District remains at a Water Shortage Contingency Plan Stage 2 Plus – Extreme Water Warning. The State Water Resources Control Board has ordered EGWD to reduce water use by 28%. EGWD's usage figures indicate a 40.4% reduction for the month of June. The monthly figures are compared to those of 2013 to calculate the reduction percentages. The table attached to this report show the production figures for 2013 and the year to date for 2015 with the reduction percentages both for the month and cumulative for the year.

Rules and requirements

The Stage 2 Plus restrictions include:

- Irrigation is limited to two days a week, designated by the property address
- All irrigation is prohibited between 10 AM and 8 PM
- No irrigation is permitted during or up to 48 hours after measurable rainfall
- No runoff or gutter flooding is permitted
- No use of a hose to wash a motor vehicle, unless the hose is fitted with a shut off nozzle
- No washing down driveways or sidewalks
- Water is served in restaurants only on request

Enforcement

Two EGWD employees perform water waste patrols beginning at 4 AM every day. In June, staff issued 675 water waste citations. Most citations issued were for excessive runoff or for watering on the wrong day.

EGWD will host a Be Water Smart School on August 12, from 6:00 to 7:00 PM in the EGWD conference room. Customers who have received an Administrative Citation may have the violation waived by attending the class, but any interested party is welcome to attend. An irrigation specialist will teach Water School, so it will be an ideal opportunity for people to learn more about managing their irrigation systems. Other classes will be held throughout the Sacramento through the month of September, so there will be multiple opportunities to attend this class.

Public outreach

EGWD placed water conservation messages in the Elk Grove Citizen's special Home & Garden section and in the Red, White & Blue event program for the Fourth of July celebration.

Staff reviewed submitted proposals for a new Web site design and has selected IDMLOCO, a local agency which partners with Crocker & Crocker. The project has a 10-12 week schedule to completion after the contract is signed.

The Elk Grove Chamber of Commerce will host the Elk Grove Family Fest on July 26. Chris Phillips and Ellen Carlson will man a booth on behalf of the EGWD. The emphasis

of this event is child-friendly, hands-on activities, so Cindy Robertson and Stefani Phillips have helped Ellen design a water cycle activity that will surely please the young visitors to the booth.

STRATEGIC PLAN CONFORMITY

Compliance with State regulations is in conformity with the District's Business Practice goals of the 2012-2017 Strategic Plan.

FINANCIAL SUMMARY

There is no direct financial impact associated with this report.

Respectfully submitted,

ELLEN CARLSON
MANAGEMENT ANALYST

EC/mjm

attachment

Elk Grove Water District Water Usage

Monthly Production (gallons)

2013	January	February	March	April	May	June	July	August	September	October	November	December
GW (SA1)	68,254,916*	81,368,191*	100,542,522	121,613,523	172,623,839	196,557,137	221,335,388	205,830,850	166,997,536	145,352,530	107,186,459	80,494,167
Purchased (SA2)	33,769,956	30,929,052	36,942,972	51,911,200	87,470,372	100,709,224	112,128,192	110,885,764	105,417,136	81,665,892	71,505,060	62,165,532
Total	102,024,872	112,297,243	137,485,494	173,524,723	260,094,211	297,266,361	333,463,580	316,716,614	272,414,672	227,018,422	178,691,519	142,659,699

2015	January	February	March	April	May	June	July	August	September	October	November	December
GW (SA1)	62,684,574	57,365,413	86,489,437	88,984,850	106,158,389	114,555,359						
Purchased (SA2)	28,648,400	30,029,208	36,876,400	51,626,212	52,734,000	62,368,240						
Total	91,332,974	87,394,621	123,365,837	140,611,062	158,892,389	176,923,599						
% Reduction	10.48%	22.18%	10.27%	18.97%	38.91%	40.48%						
% Cumulative Reduction	10.48%	16.61%	**14.13%**	**15.73%**	**23.41%**	**28.09%**						

*Notes

SA1 = Service Area 1, SA2 = Service Area 2. SA1 is all groundwater (GW) production. SA2 is all purchased water from SCWA.

Actual Recorded Prod. (Jan. 2013) - Service Area 1 79,361,342 gallons (Includes water delivered to SA2 due to open intertie. Intertie closed end of Feb. 2013)

Actual Recorded Prod. (Feb. 2013) - Service Area 1 94,608,406 gallons (Includes water delivered to SA2 due to open intertie. Intertie closed end of Feb. 2013)

To determine estimate of Feb. 2013 production delivered to Service Area 1, use multiplier from March data which is seasonally similar.)

Service Area 1 Multiplier = 1.39 (calculated from March 2013 Prod. Data/March 2014 Prod. Data)

Calc'd Feb. 2013 Prod. = Feb. 2014 Prod. Data x 1.39 = 79,737,924

To determine estimate of Jan. 2013 production, use prorated amount from Feb. 2013 data. (This method due to Jan. 2014 being unseasonably hot.)

Calc'd Jan. 2013 Prod. = (Feb. 2013 Prod. Data Calc'd / Feb. 2013 Prod. Data Actual) x Jan. 2013 Prod. Data Actual = 68,254,916

Revised Attachment 1

July 29, 2015

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Mark J. Madison, General Manager

SUBJECT: **ELK GROVE WATER DISTRICT OPERATIONS REPORT – JUNE 2015**

RECOMMENDATION

This item is presented for information only. No action by the Board is proposed at this time.

Summary

The Elk Grove Water District (EGWD) Operations Report is a standing item on the regular board meeting agenda.

All regulatory requirements were met for the month of June. Other notable events are described below.

DISCUSSION

Background

Every month, staff presents an update of the activities related to the operations of the District. Included for the Board's review is the EGWD's June 2015 Operations Report.

Present Situation

The EGWD June 2015 Operations Report highlights are as follows:

- **Operations Activities Summary** – The notable item in the activities summary is that the District hung three hundred and eighty-six (386) door hangers for past due balances which resulted in fifty-one (51) shutoffs.

- **Production** – The Combined Total Service Area 1 production graph on page 12 shows that production during the month of June decreased compared to June 2014. The production decrease is likely attributable to customer usage reductions pursuant to the implementation of Stage 2 Plus.

- **Static and Pumping Level Graphs** – The 2nd quarter soundings are shown and continue to indicate the static and pumping water levels remain stable.

- **Regulatory Compliance** – All samples taken during the month of June were in compliance with all regulatory permit requirements. No exceedances of any maximum contaminant levels were found and all water supplied to the District's customers met or exceeded safe drinking water standards.

  On May 12, 2015, Elk Grove Water District had water samples test positive for total coliform bacteria, but negative for E. coli bacteria. Elk Grove Water District staff immediately resampled in accordance with drinking water regulations. All resamples were negative for total coliform bacteria. At no time was the public safety of the water system ever compromised. The anomaly of positive-coliform samples was most likely the result of poor sampling conditions and possibly technique.

  On June 24, 2015, the State Water Resources Control Board issued Elk Grove Water District a citation (No. 01-09-15C-001) because the number of samples which tested positive for total coliform exceeded 5.0 percent of the total number of samples tested in that month. This citation requires EGWD, in part, to provide a notice to the public by direct mail and public posting. The citation also included a draft template of this notice, however, the State Water Board staff has approved a different notice proposed by EGWD and this will be issued in the August customer bills. This notice will also be posted on EGWD's website on or about August 3rd, when the customer's bills are issued

- **Preventative Maintenance Program** – The tables included in this section of the report also include certain activities completed to date. Below is a list of out-of-ordinary maintenance work completed in June:

  - Staff troubleshot and repaired an issue with the RRWTP return pumps.
  - Staff assisted outside contractors with the installation of Radio Communication Towers at the Treatment Plant and Shallow Well sites.
  - Staff removed, rebuilt, and re-installed return pump at Hampton WTP.
  - Staff facilitated the Hampton Treatment Plant start-up and observed any ensuing faults.

- **Backflow Prevention Program 2015** –There were thirty-eight (38) notices issued for the month. Thirteen (13) devices passed on the initial test. There were twenty-five (25) secondary notices issued, of which twenty (20) have been received. There

are a **total** of eleven (11) outstanding devices as of the date of this report, which will require further investigation.

- **Safety Meetings/Training** – There were five (5) safety training sessions conducted for the month. Only two (2) safety sessions are required by OSHA standards.

- **Service Line Replacement Map** – The Utility Department installed zero (0) service lines for residential services for the month as they redirected to work on the Railroad Corridor pipeline.

- **Service and Main Leaks Map** – There were five (5) service line leaks and one (1) main line leak reported for the month.

STRATEGIC PLAN CONFORMITY

The District's Strategic Plan addresses responsible business practices and the importance of providing the community with safe drinking water. The Operations Report is a key document for managing the District's distribution and treatment system. The Operations Report assists the District toward its responsibility of delivering safe drinking water.

FINANCIAL SUMMARY

There is no financial impact associated with this report.

Respectfully Submitted,

MARK J. MADISON, P.E.
GENERAL MANAGER

MJM/ah

Elk Grove Water District

Operations Report

June 2015

Elk Grove Water District

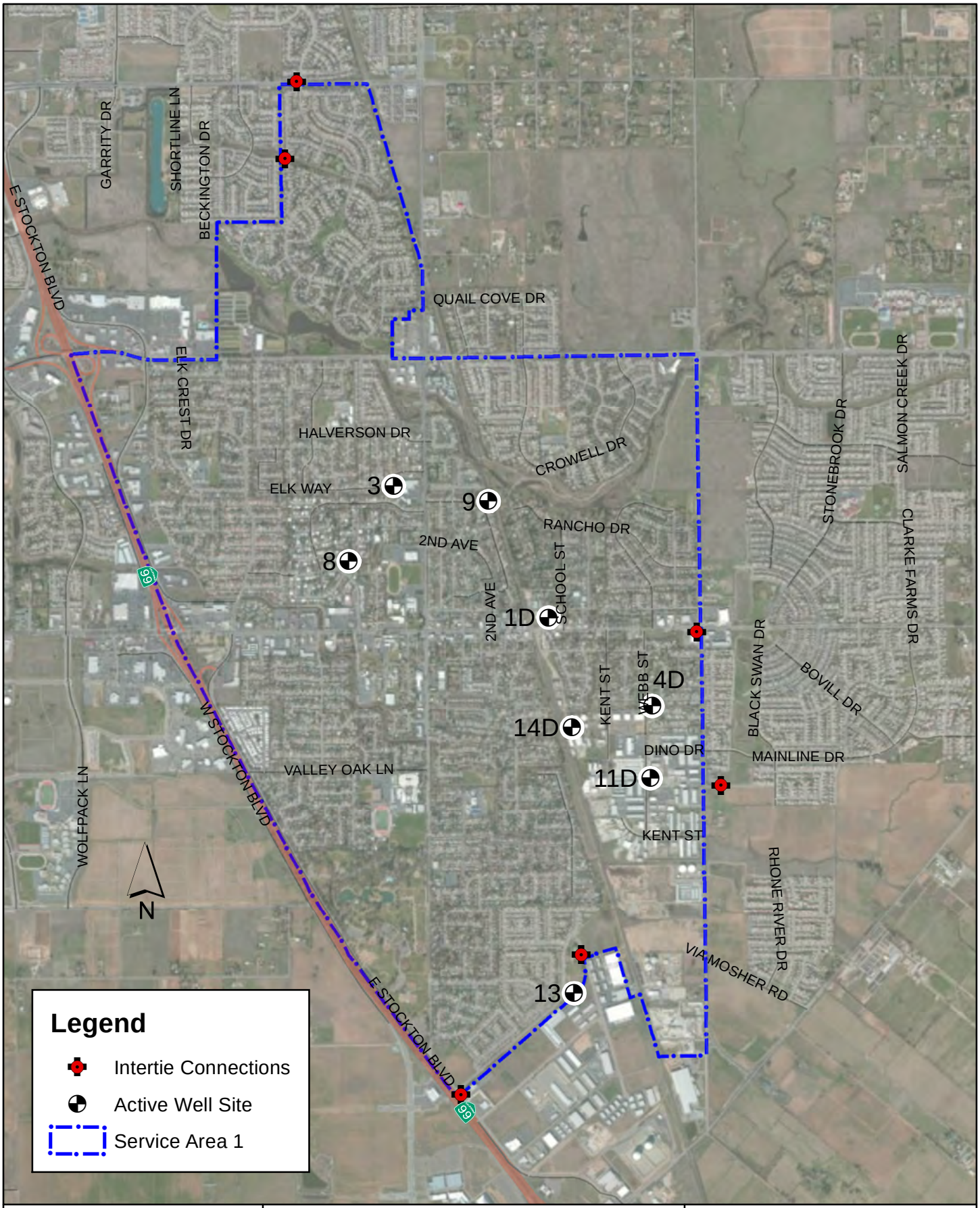
Operations Report

Table of Contents

Operations Activities Summary

Service Requests:	Jun-15		YTD (Since July 1, 2014)	
Department	Service Request	Hours	Service Request	Hours
Distribution				
Door Hangers	386	26.1	5044	268.32
Shut offs	51	13.95	678	26.85
Turn ons	59	5.6	807	117.38
Investigations	51	23.05	592	232.42
USA Locates	110	27.5	1110	277.5
Customer Complaints				
-Pressure	0	0	9	16.5
-Water Quality	2	2.5	18	18
-Other	0	0	0	0

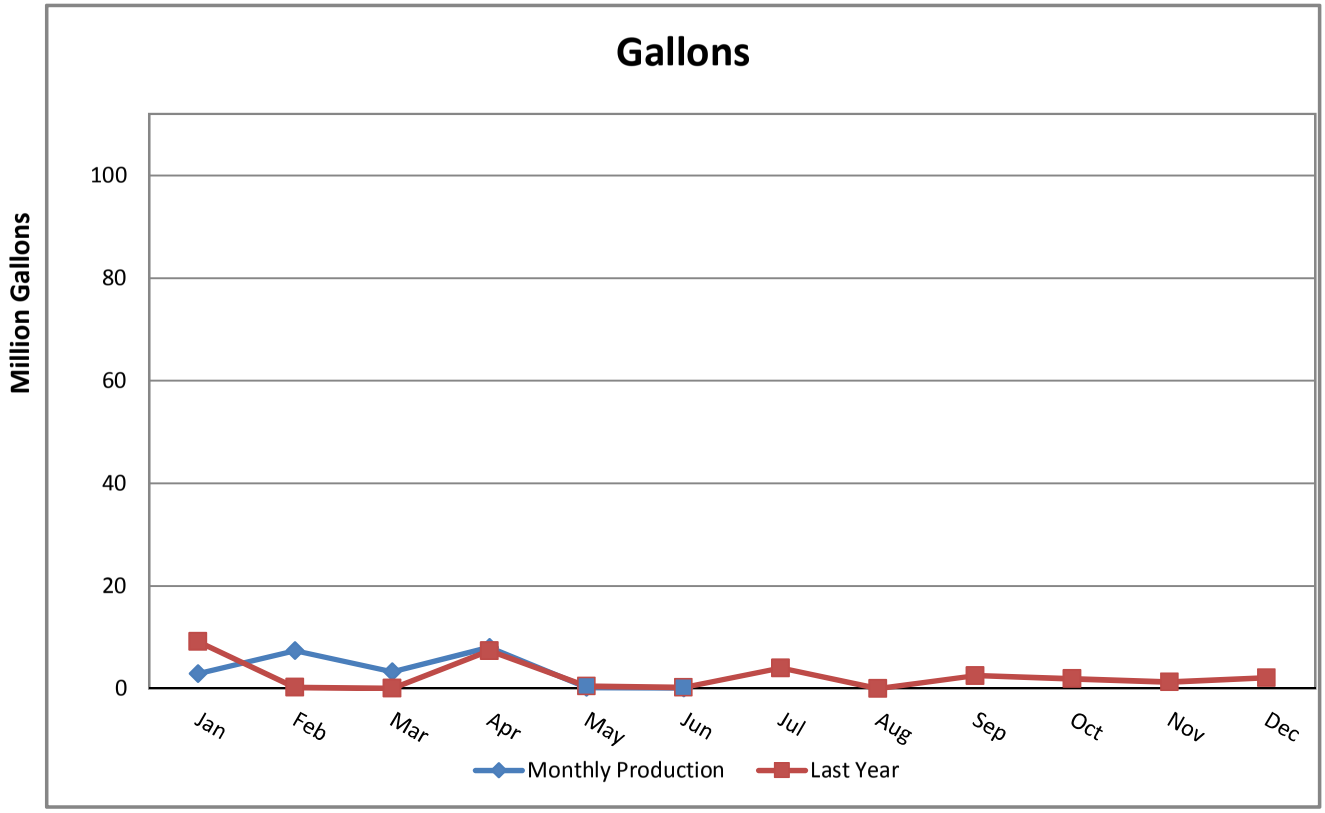
Work Orders:	Jun-15		YTD (Since July 1, 2014)	
Department	Work Orders	Hours	Work Orders	Hours
Treatment:				
Preventative Maint.	25	60	207	786
Corrective Maint.	4	35	44	267.25
Water Samples	7	28	145	439.5
Distribution:				
Meters Installed	0	0	55	806.5
Backflow Devices Installed	6	141	7	151
Preventative Maint.				
-Hydrant Flushing Program	0	0	3	2.5
-Hydrant Maintenance	37	37	444	368.25
-Valve Exercising	106	29	1159	352
-Other	0	0	1	2
Corrective Maint.				
-Leaks	6	40.5	56	612.35
-Other	20	11.5	199	539.75
Valve Locates	1	11	5	78.5
Utility:				
Meters Installed	0	0	183	2826.04
Service Line Replacement	0	0	88	1865.74
Corrective Maint.	1	825.5	57	1546.1


E STOCKTON BLVD
GARRITY DR
SHORTLINE LN
BECKINGTON DR
QUAIL COVE DR
ELK CREST DR
HALVERSON DR
ELK WAY
3
9
CROWELL DR
RANCHO DR
2ND AVE
8
2ND AVE
SCHOOL ST
1D
STONEBROOK DR
SALMON CREEK DR
CLARKE FARMS DR
WEBB ST
4D
KENT ST
14D
BLACK SWAN DR
BOVILL DR
DINO DR
MAINLINE DR
11D
VALLEY OAK LN
W STOCKTON BLVD
WOLFPACK LN
KENT ST
RHONE RIVER DR
VIA MOSHER RD
13
E STOCKTON BLVD
99
N
Legend
Intertie Connections
Active Well Site
Service Area 1
Active Well Sites & Intertie Connections
0
1,250
2,500
5,000 Feet
Elk Grove Water District

Elk Grove Water District

Monthly Production

Well 1D School -- June 2015



Selected Month Production
114,694 Gallons

Average GPM:
1,911

Motor:	
Volts:	470
Volts (Rated):	460
RPM:	2110
RPM (Rated):	2115
Amps A:	184
Amps A (Rated):	222
Amps B:	179
Amps B (Rated):	222
Amps C:	172
Amps C (Rated):	222
Motor Temp:	113.1 F
Hour Meter:	1.00
KW Hour Total:	720.00

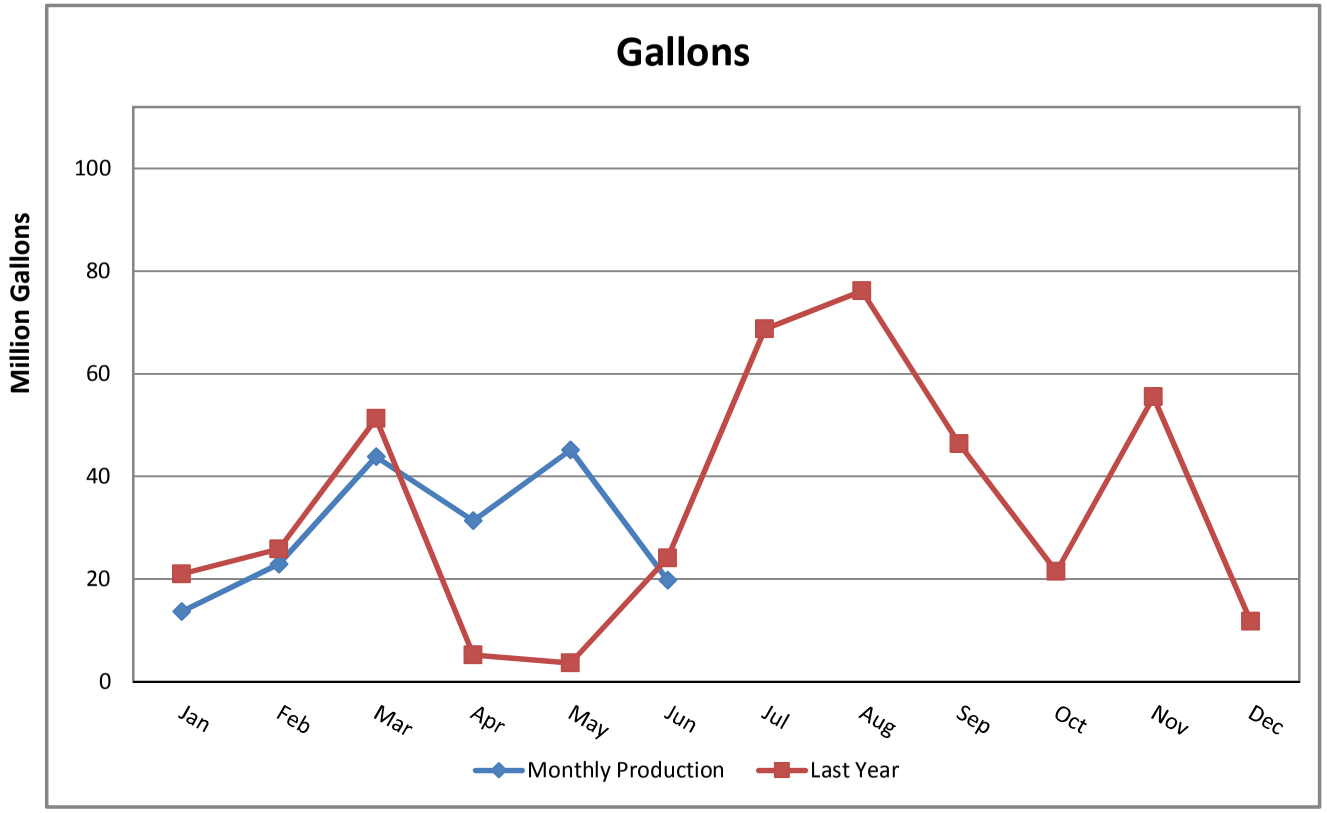
Chlorine:	
Dosing:	1.56
Demand:	0.89
Residual:	0.67

Vibration Reading:	
Base Line:	0.05
Current:	0.01

Elk Grove Water District

Monthly Production

Well 4D Webb -- June 2015



Selected Month Production
19,760,328 Gallons

Average GPM:
1,706

Motor:

Volts:	475
Volts (Rated):	460
RPM:	1867
RPM (Rated):	1775
Amps A:	183
Amps A (Rated):	225
Amps B:	184
Amps B (Rated):	225
Amps C:	185
Amps C (Rated):	225
Motor Temp:	138.3 F
Hour Meter:	193.00
KW Hour Total:	24,960.00

Chlorine:

Dosing:	1.66 mg/L
Demand:	0.8 mg/L
Residual:	0.86 mg/L

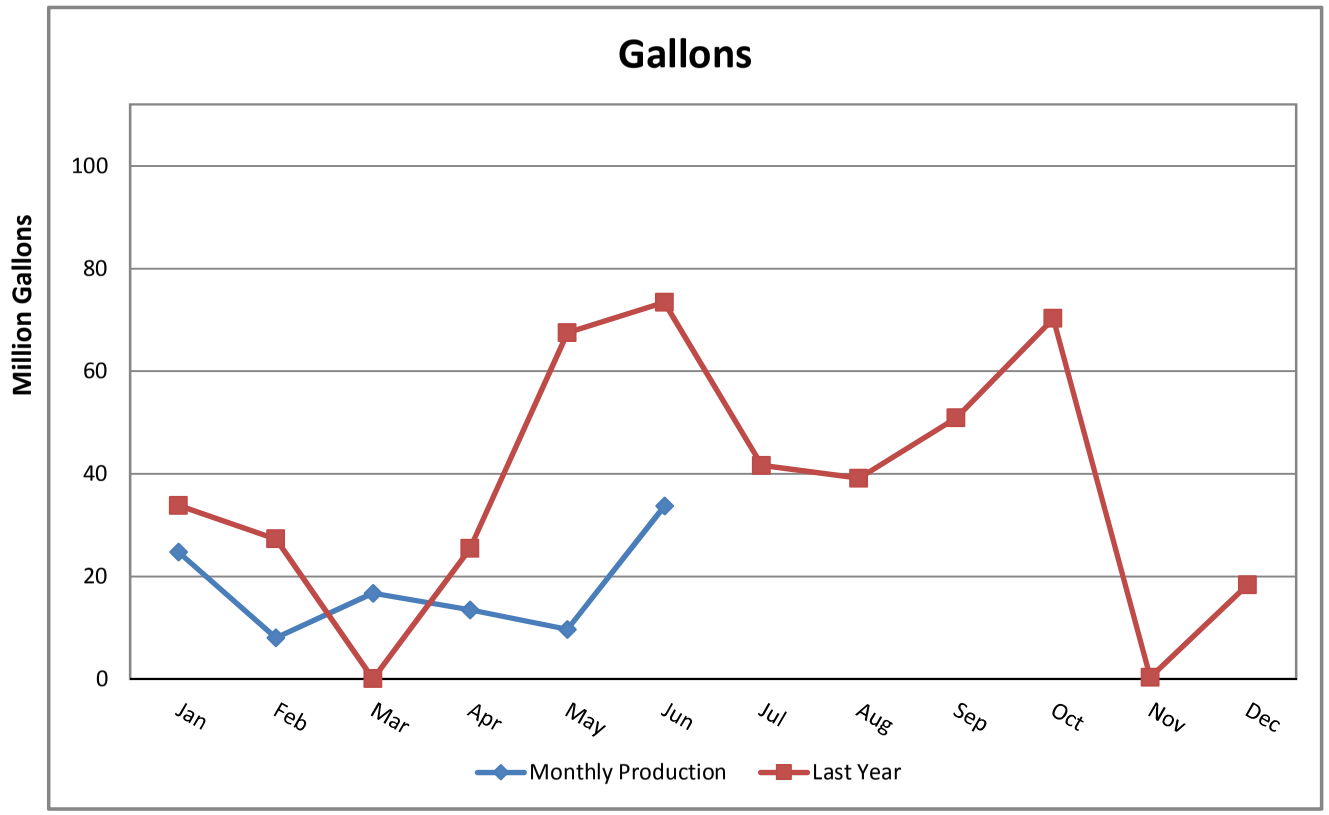
Vibration Reading:

Base Line:	0.05 in/sec
Current:	0.03 in/sec

Elk Grove Water District

Monthly Production

Well 11D Dino -- June 2015



Selected Month Production
33,723,362 Gallons

Average GPM:
1,702

Motor:

Volts:	477
Volts (Rated):	460
RPM:	1965
RPM (Rated):	1775
Amps A:	199
Amps A (Rated):	225
Amps B:	199
Amps B (Rated):	225
Amps C:	204
Amps C (Rated):	225
Motor Temp:	148.4 F
Hour Meter:	330.20
KW Hour Total:	45,120.00

Chlorine:

Dosing:	1.68 mg/L
Demand:	0.79 mg/L
Residual:	0.89 mg/L

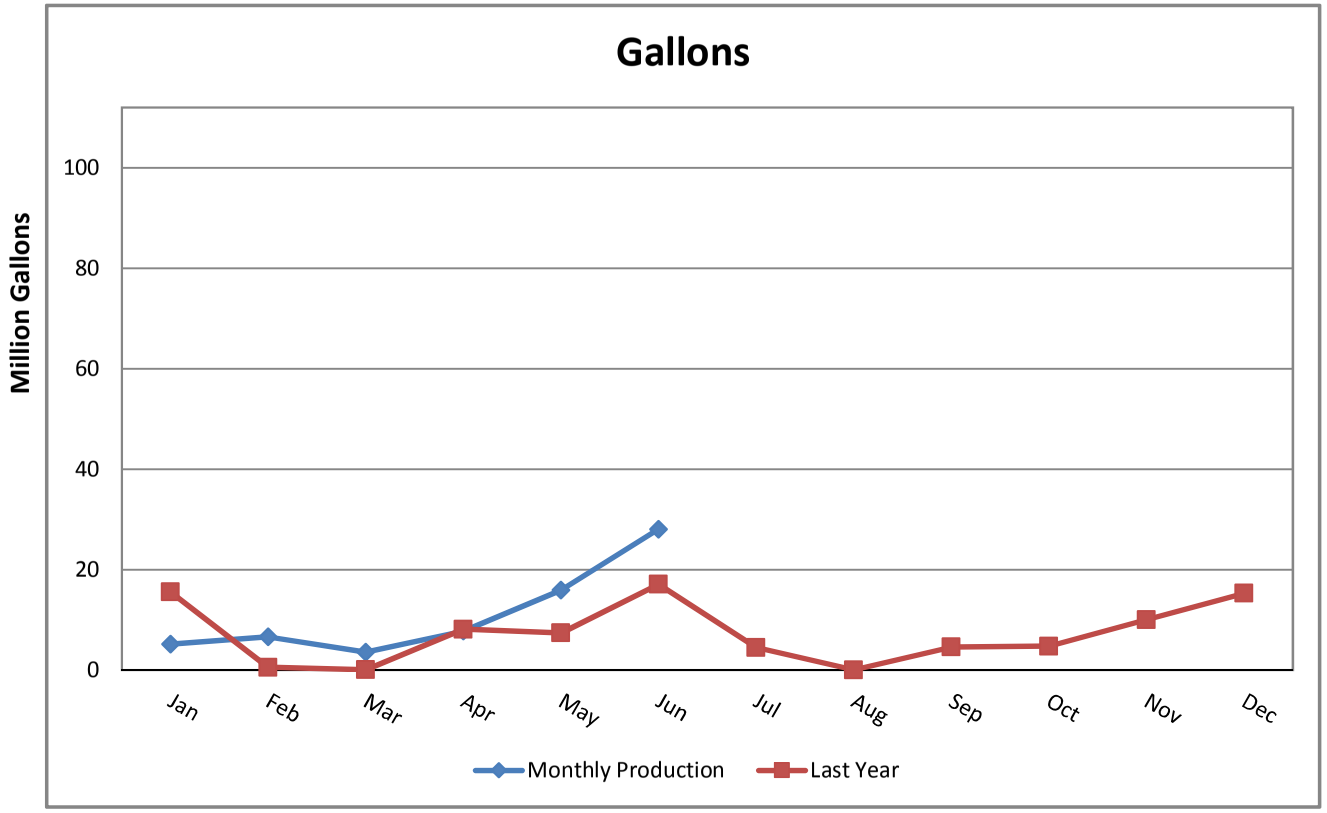
Vibration Reading:

Base Line:	0.05 in/sec
Current:	0.05 in/sec

Elk Grove Water District

Monthly Production

Well 14D Railroad -- June 2015



Selected Month Production
28,049,492 Gallons

Average GPM:
1,579

Motor:

Volts:	480
Volts (Rated):	479
RPM:	2120
RPM (Rated):	2005
Amps A:	163
Amps A (Rated):	171
Amps B:	162
Amps B (Rated):	171
Amps C:	156
Amps C (Rated):	171

Motor Temp.:	124.7 F
Hour Meter:	296.00
KW Hour Total:	94,240.00

(KWH total is for the entire facility)

Chlorine:

Dosing:	1.72 mg/L
Demand:	0.83 mg/L
Residual:	0.89 mg/L

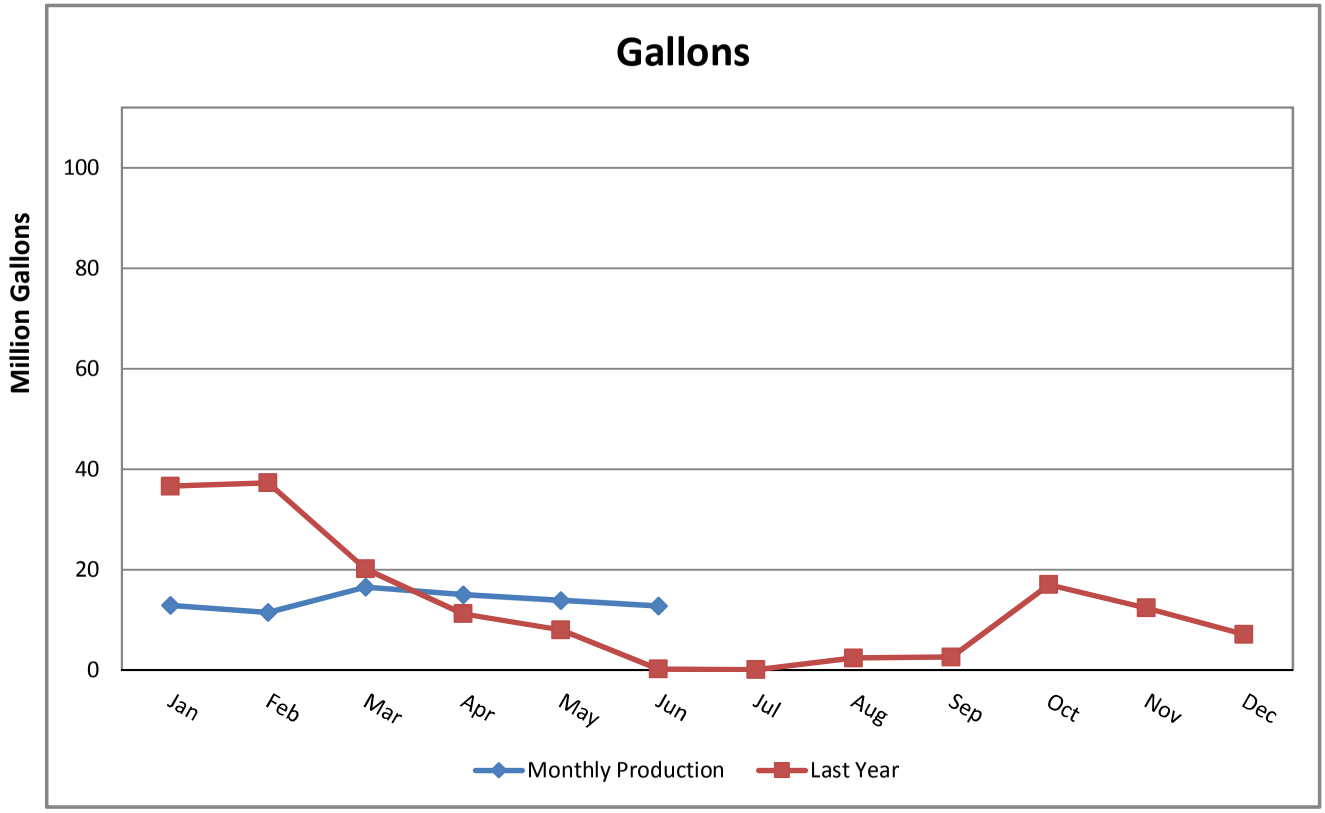
Vibration Reading:

Base Line:	0.02 in/sec
Current:	0.03 in/sec

Elk Grove Water District

Monthly Production

Well 3 Mar-Val -- June 2015



Selected Month Production
12,734,000 Gallons

Average GPM:
932

Motor:

Volts:	480
Volts (Rated):	479
RPM:	2011
RPM (Rated):	1954
Amps A:	88
Amps A (Rated):	88
Amps B:	86
Amps B (Rated):	88
Amps C:	88
Amps C (Rated):	88

Motor Temp.:	197.4 F
Hour Meter:	227.50
KW Hour Total:	13,983.00

Chlorine:

Dosing:	1.18 mg/L
Demand:	0.33 mg/L
Residual:	0.85 mg/L

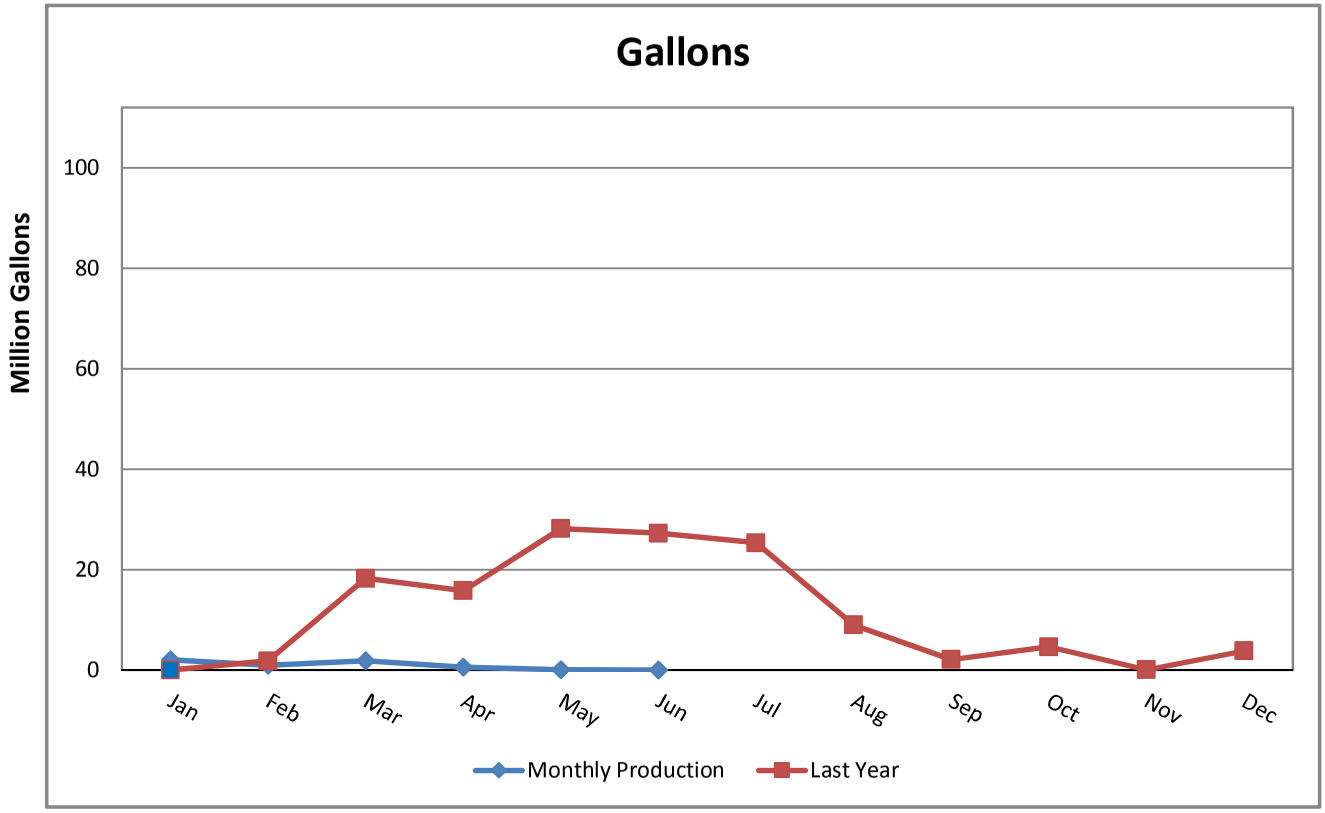
Vibration Reading:

Base Line:	0.02 in/sec
Current:	0.01 in/sec

Elk Grove Water District

Monthly Production

Well 8 Williamson -- June 2015



Selected Month Production
17,000 Gallons

Average GPM:
944

Motor:

Volts:	457
Volts (Rated):	460
RPM:	1994
RPM (Rated):	1780
Amps A:	87
Amps A (Rated):	87
Amps B:	86
Amps B (Rated):	87
Amps C:	86
Amps C (Rated):	87
Motor Temp.:	107.6 F
Hour Meter:	0.30
KW Hour Total:	227.00

Chlorine:

Dosing:	0.85 mg/L
Demand:	0.05 mg/L
Residual:	0.8 mg/L

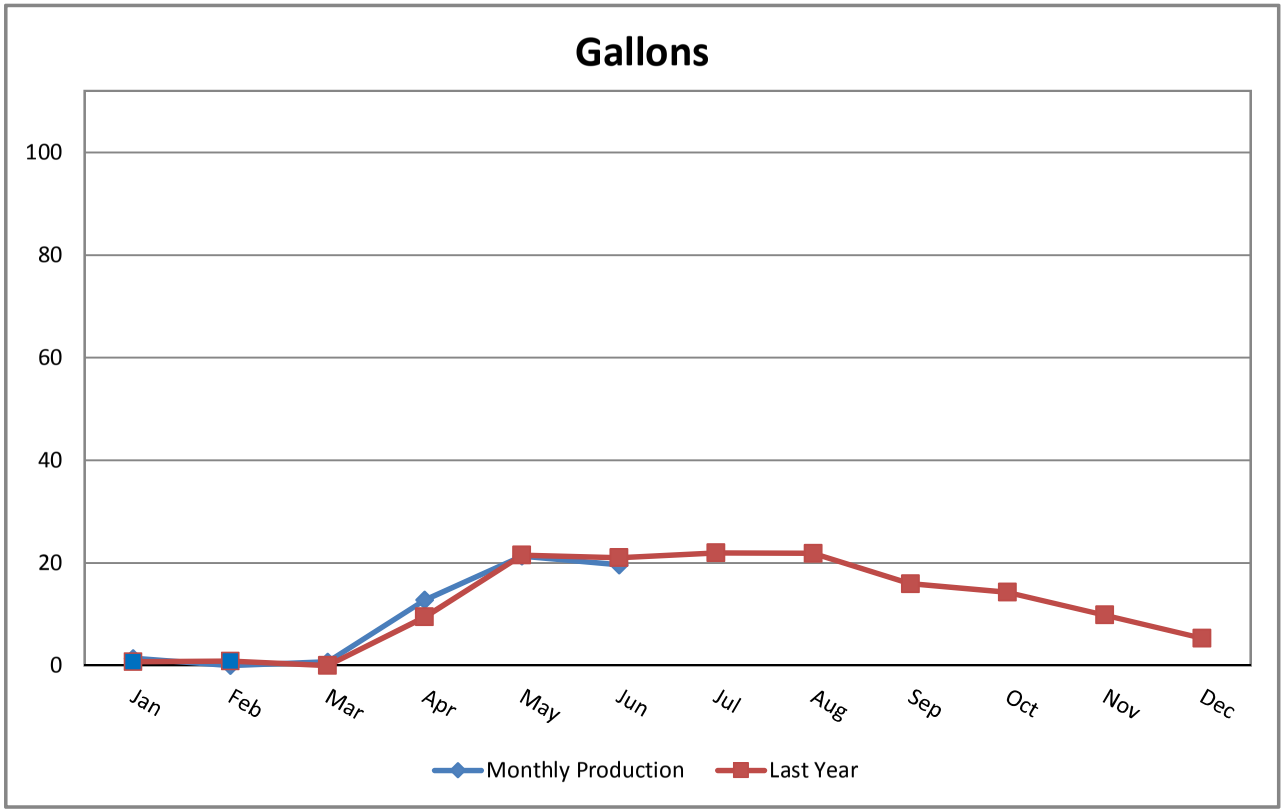
Vibration Reading:

Base Line:	0.03 in/sec
Current:	0.03 in/sec

Elk Grove Water District

Monthly Production

Well 9 Polhemus -- June 2015
(Submersible)



Selected Month Production
19,585,000 Gallons

Average GPM:
492

Motor:

Volts:	481
Volts (Rated):	460
Amps A:	58
Amps A (Rated):	65
Amps B:	58
Amps B (Rated):	65
Amps C:	62
Amps C (Rated):	65
Hour Meter:	662.70
KW Hour Total:	26,287.00

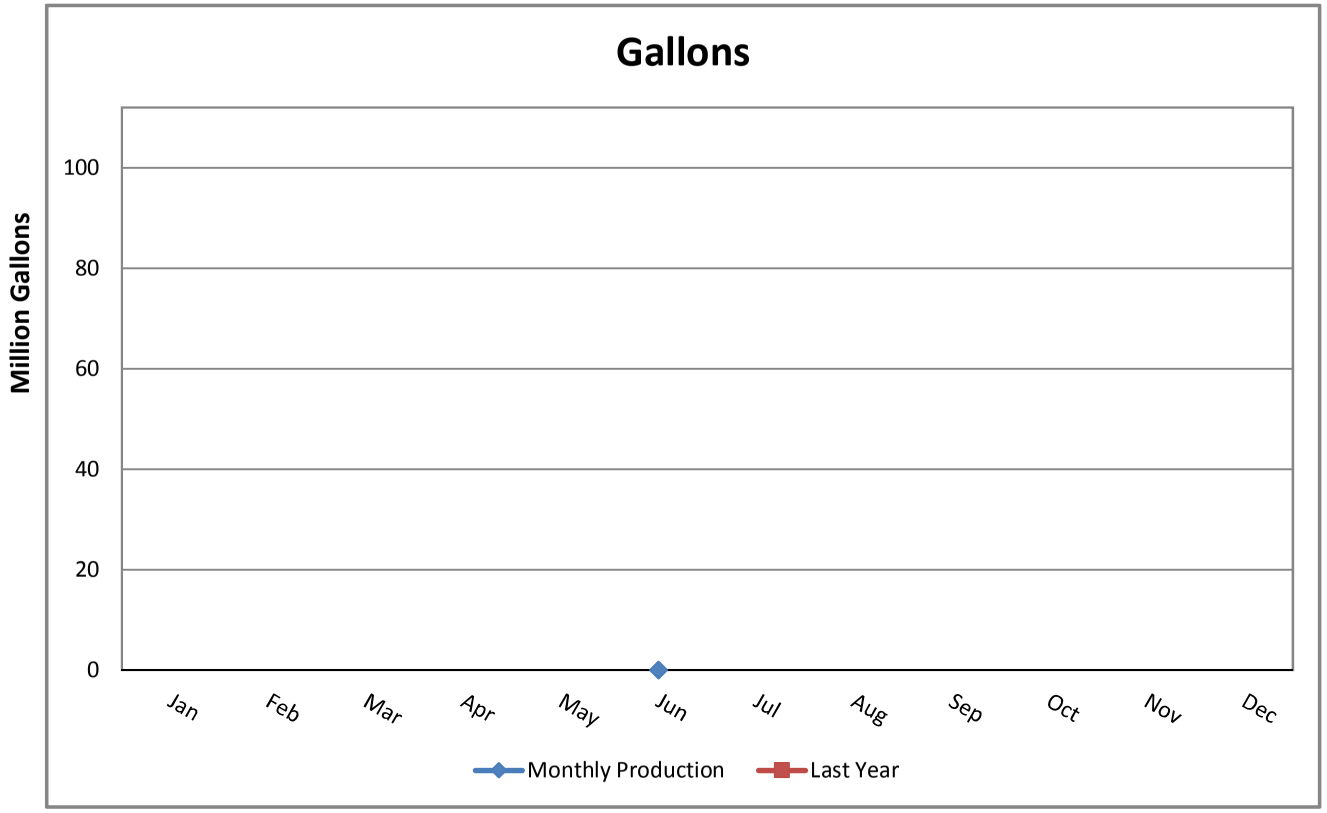
Chlorine:

Dosing:	1.27 mg/L
Demand:	0.42 mg/L
Residual:	0.85 mg/L

Elk Grove Water District

Monthly Production

Well 13 Hampton -- June 2015



Selected Month Production
571,483 Gallons

Average GPM:
727

Motor:

Volts:	0
Volts (Rated):	0
RPM:	
RPM (Rated):	1770
Amps A:	0
Amps A (Rated):	0
Amps B:	0
Amps B (Rated):	0
Amps C:	0
Amps C (Rated):	0
Motor Temp.:	0 F
Hour Meter:	13.10
KW Hour Total:	0.00

Chlorine:

Dosing:	0 mg/L
Demand:	0 mg/L
Residual:	1 mg/L

Vibration Reading:

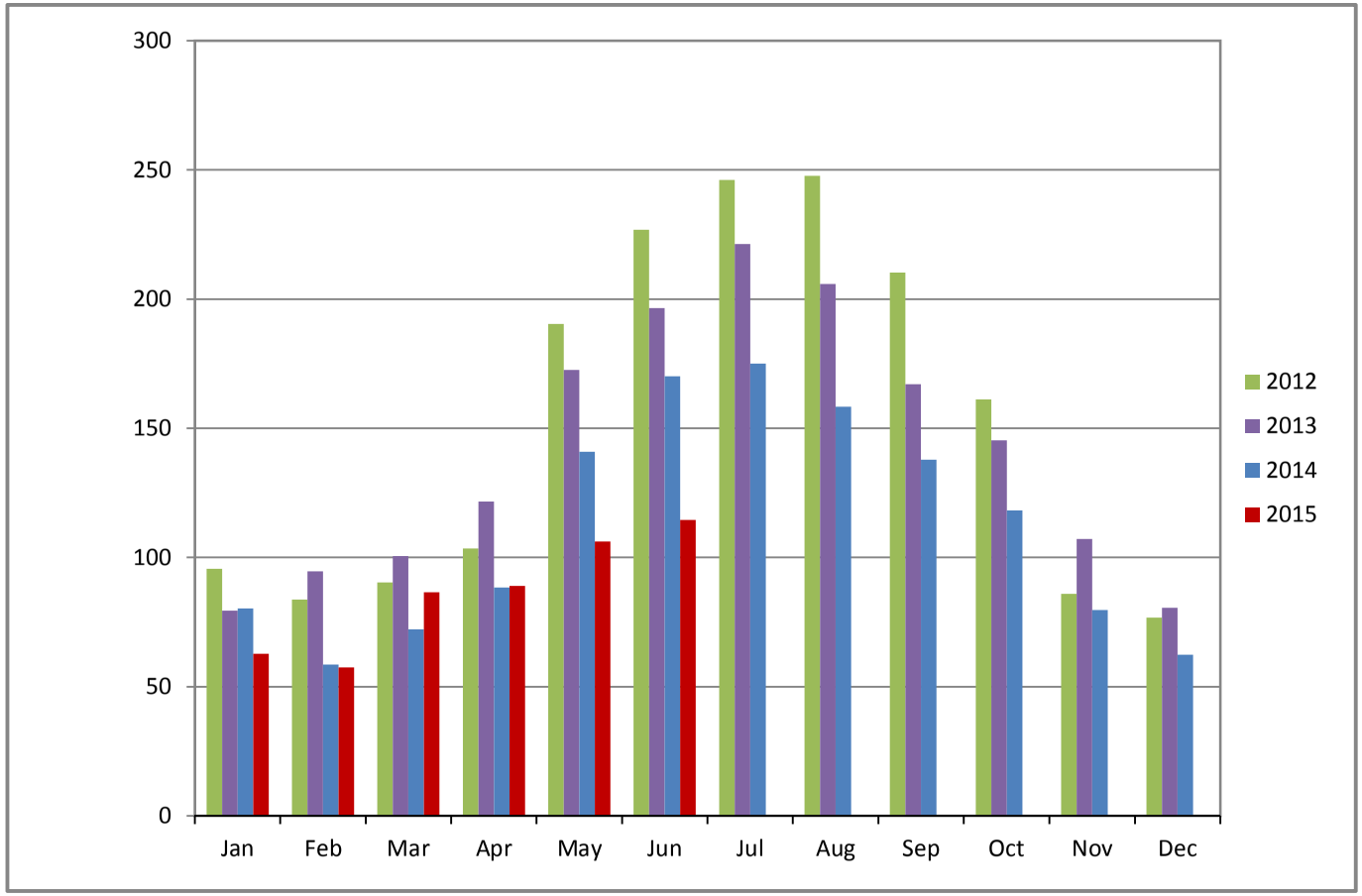
Base Line:	0 in/sec
Current:	0 in/sec

Elk Grove Water District

Combined Total Production

Service Area 1

Jun-2015



Current Month Production:
114,555,359 Gallons

Highest Day Demand of the Month:	Date of Occurance
4,877,561	30-Jun-15

Highest Day Demand of the Calender Year:	Date of Occurance
4,877,561	30-Jun-15

"Water Year" Rainfall: (Oct-14 to Sep-15)

Current Month:	0.07 in
Year To Date:	15.41 in

"Water Year" Rainfall: (Oct-13 to Sep-14)

June 2014	0.00 in
Year To Date:	9.20 in
Last Year Total:	9.67 in

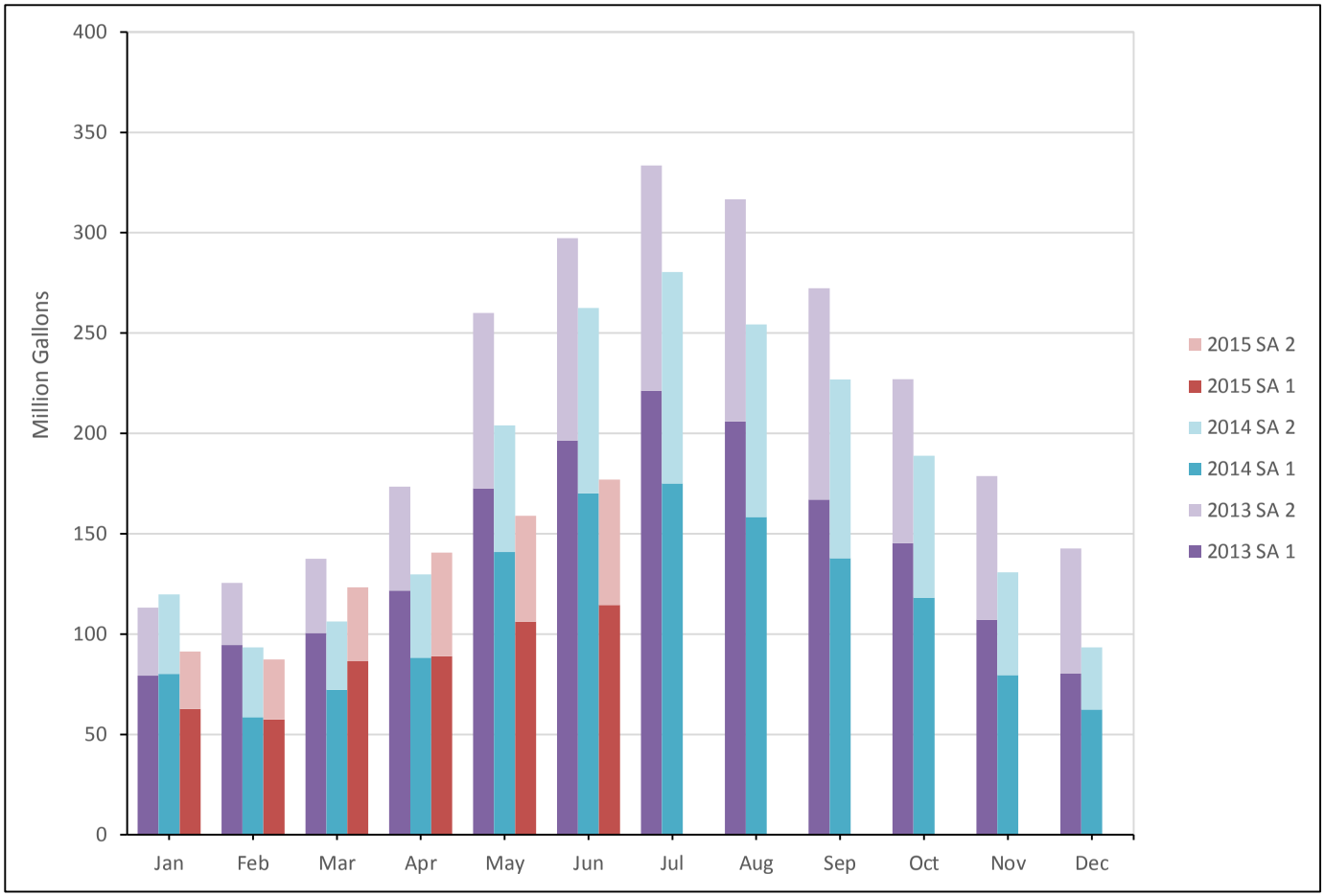
Temperature:

This Month High	107 F
This Month Low	54 F
JUN-14 High	106 F
JUN-14 Low	52 F

Elk Grove Water District

Total Demand/Production

Jun-2015



Current Month Demand/Production:
176,923,599 Gallons
Reduction From June 2013: 40.48%
GPCD: 133.3 Gallons per Day
R-GPCD: 105.3 Gallons per Day

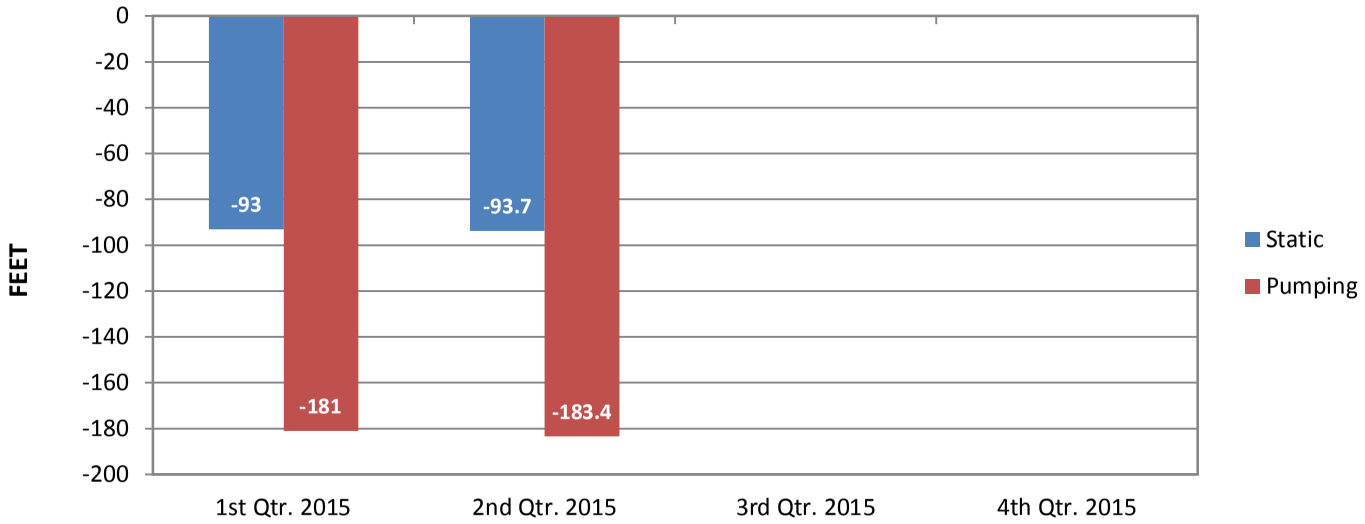
Service Area 1
Active Connections: 7,900
Current Month Demand/Production:
114,555,359 Gallons
GPCD: 134.3 Gallons per Day
R-GPCD: 107.4 Gallons per Day

Service Area 2
Active Connections: 4,264
Current Month Demand/Production:
62,368,240 Gallons
GPCD: 131.5 Gallons per Day
R-GPCD: 102.6 Gallons per Day

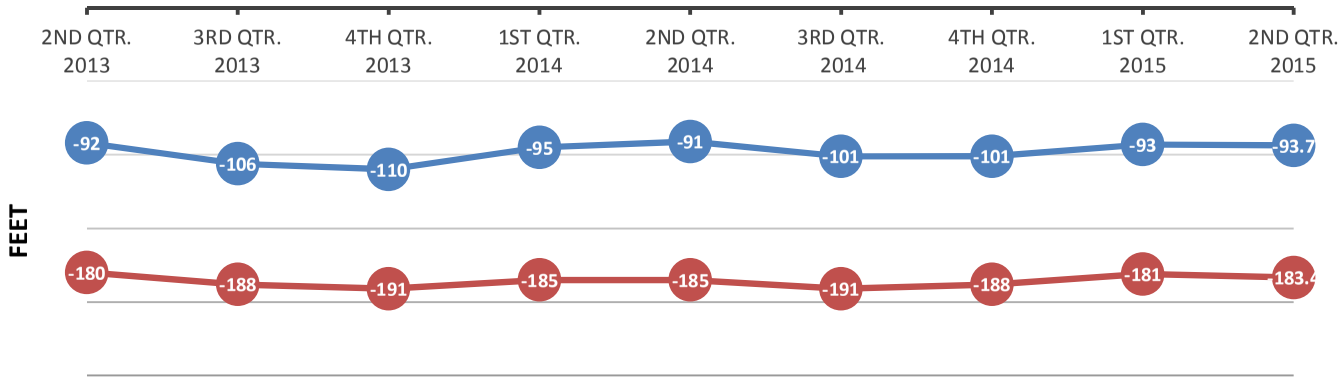
Elk Grove Water District

Static and Pumping Levels

Well 1D School St



Sounding Quarter/Year



Latest Well Sounding

Static:	93.7 Ft
Pumping:	183.4 Ft
Drawdown:	89.7 Ft
GPM:	1,851.00
Specific Capacity:	20.635

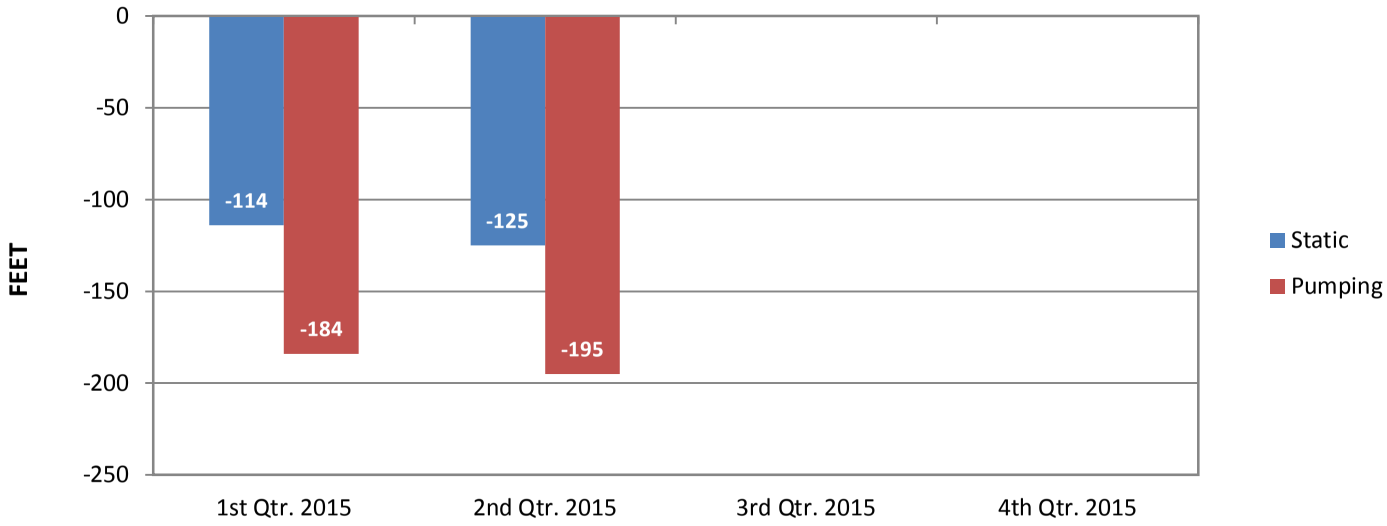
Latest Sand Tester Results:

15 Min:	< 5 ppm

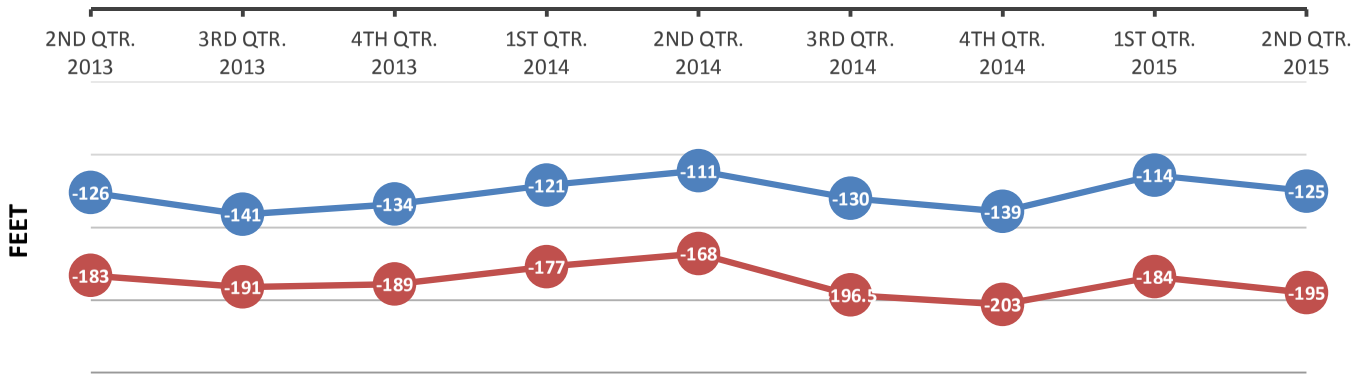
Elk Grove Water District

Static and Pumping Levels

Well 4D Webb St



Sounding Quarter/Year



Latest Well Sounding

Static:	125 Ft
Pumping:	195 Ft
Drawdown:	70 Ft
GPM:	1,716.00
Specific Capacity:	24.514

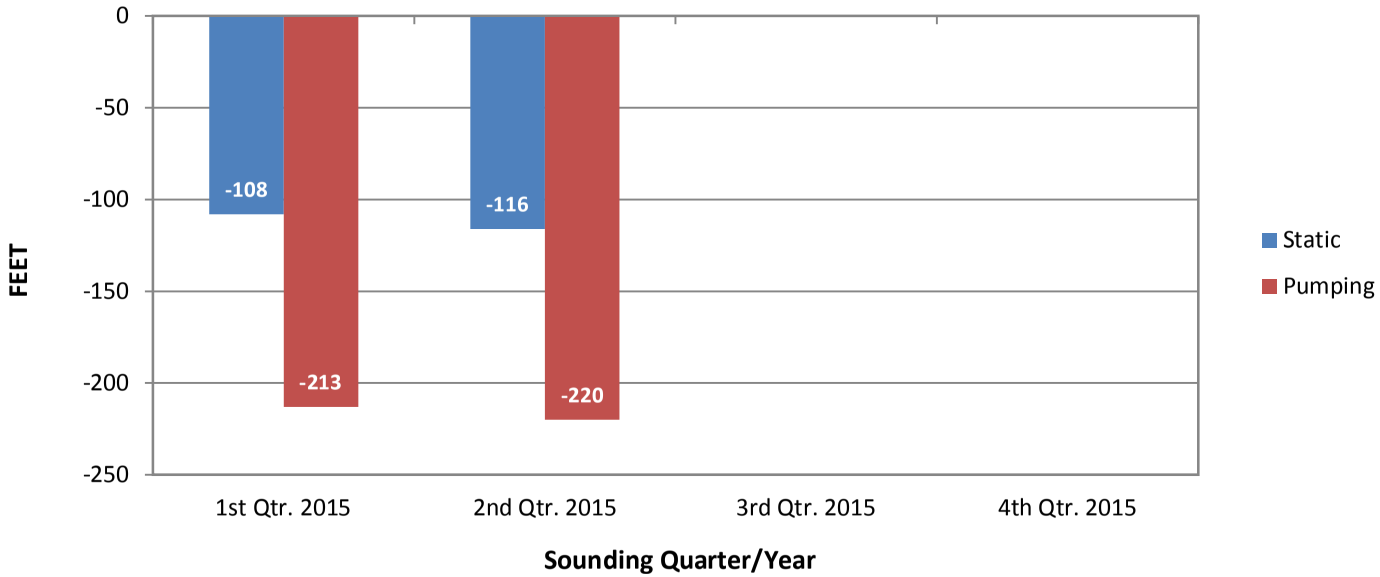
Latest Sand Tester Results:

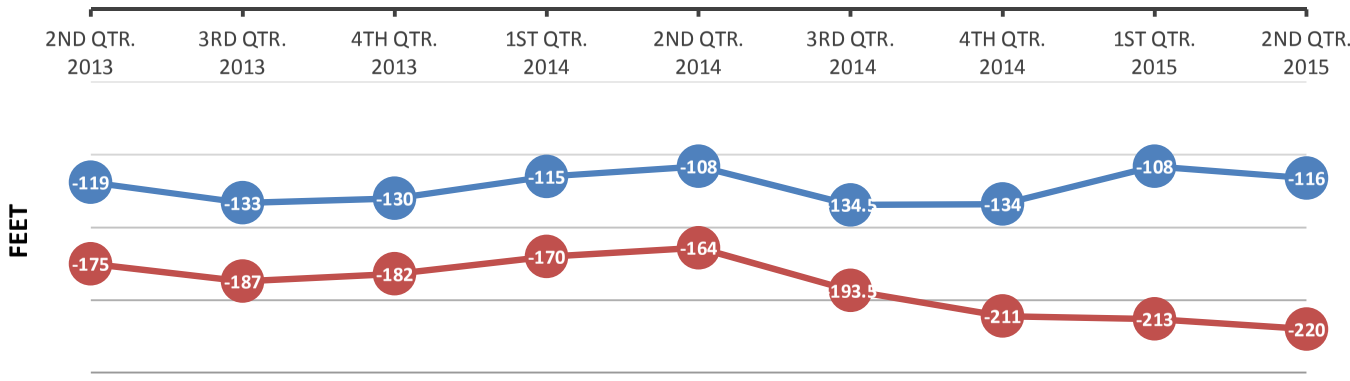
15 Min: < 5 ppm

Elk Grove Water District

Static and Pumping Levels

Well 11D Dino





Latest Well Sounding

Static:	116 Ft
Pumping:	220 Ft
Drawdown:	104 Ft
GPM:	1,688.00
Specific Capacity:	16.231

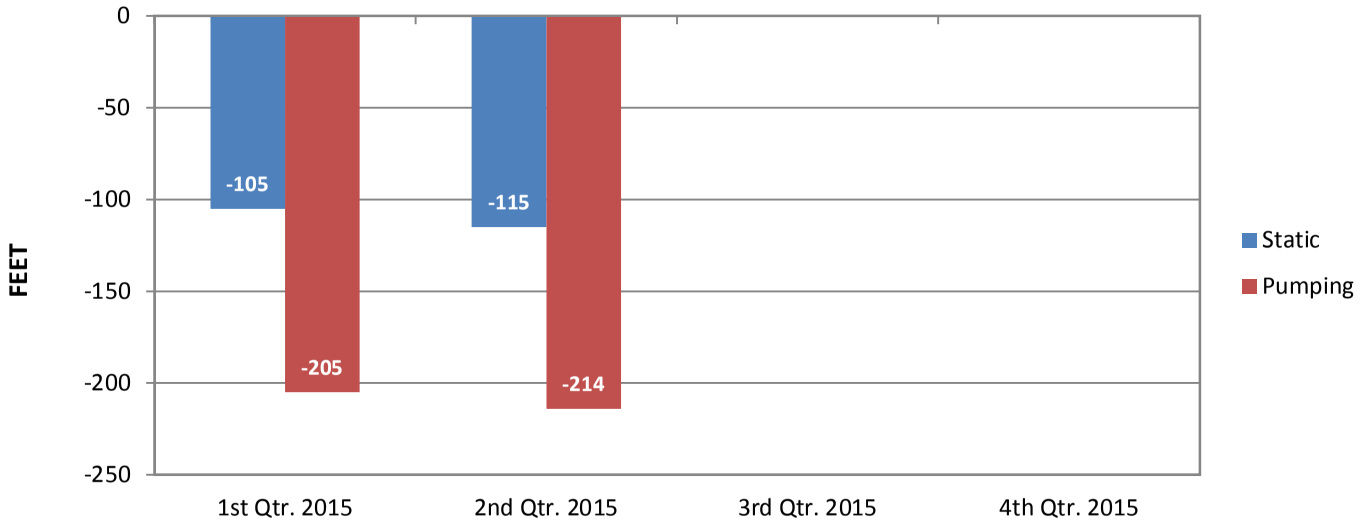
Latest Sand Tester Results:

15 Min: < 5 ppm

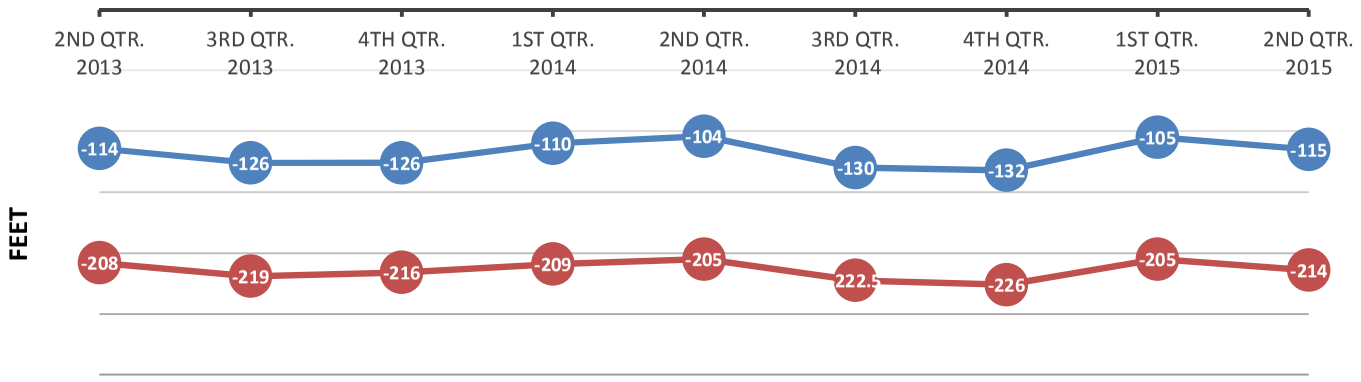
Elk Grove Water District

Static and Pumping Levels

Well 14D Railroad



Sounding Quarter/Year



Latest Well Sounding

Static:	115 Ft
Pumping:	214 Ft
Drawdown:	99 Ft
GPM:	1,608.00
Specific Capacity:	16.242

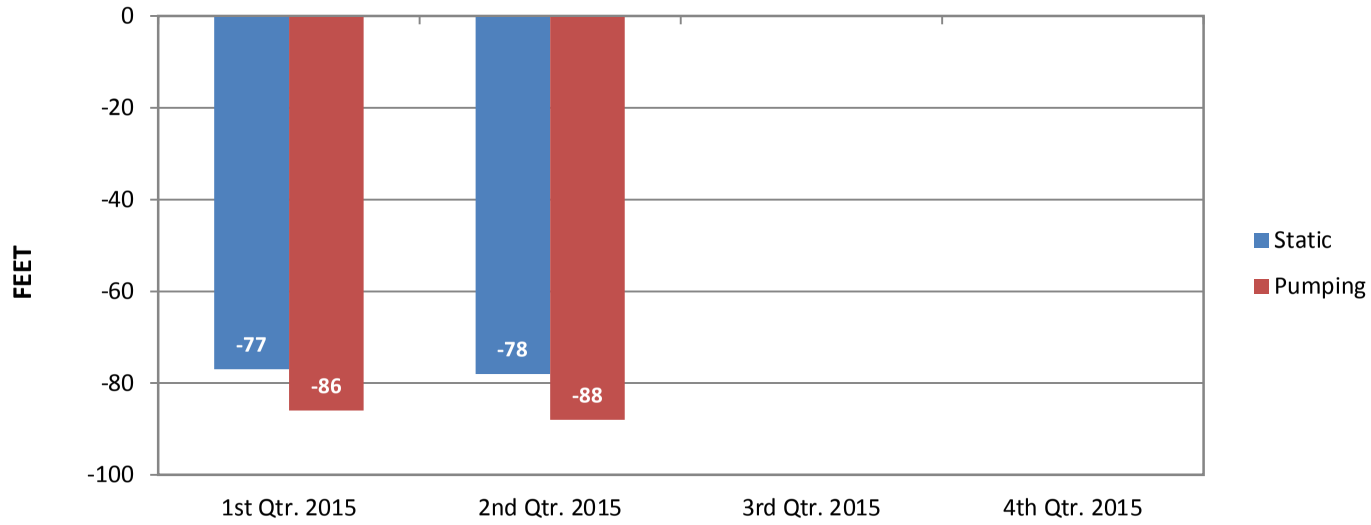
Latest Sand Tester Results:

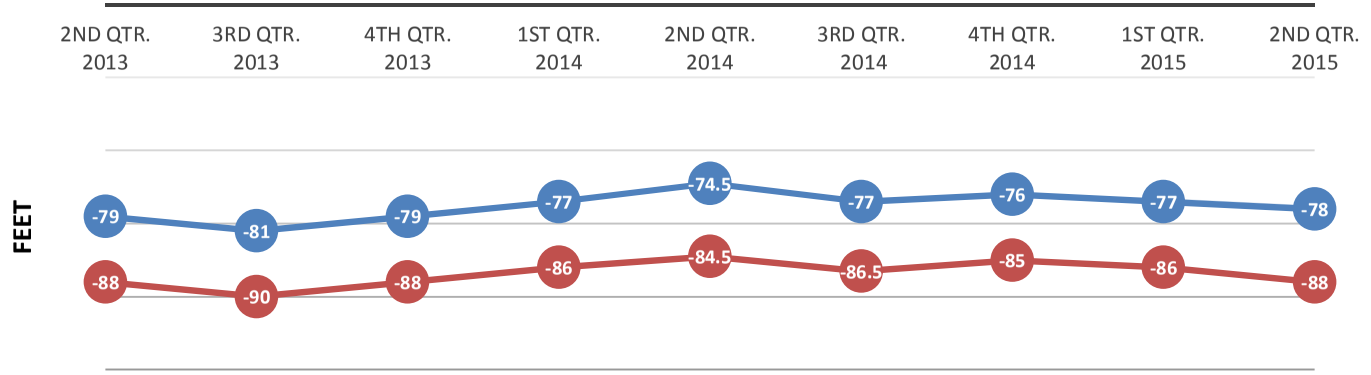
15 Min:	< 5 ppm

Elk Grove Water District

Static and Pumping Levels

Well 3 Mar-Val





Latest Well Sounding

Static:	78 Ft
Pumping:	88 Ft
Drawdown:	10 Ft
GPM:	890.00
Specific Capacity:	89.000

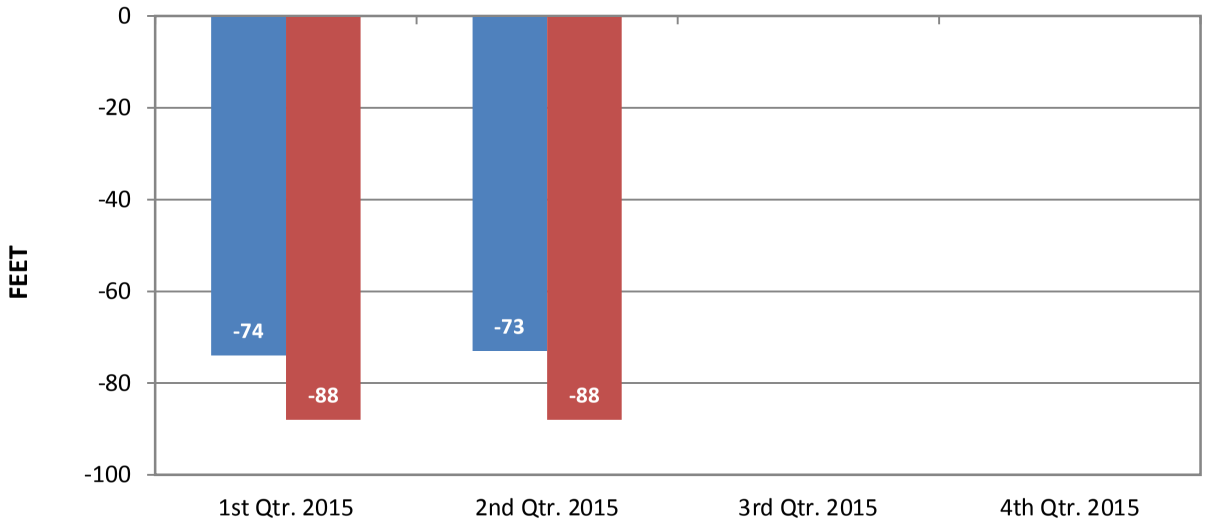
Latest Sand Tester Results:

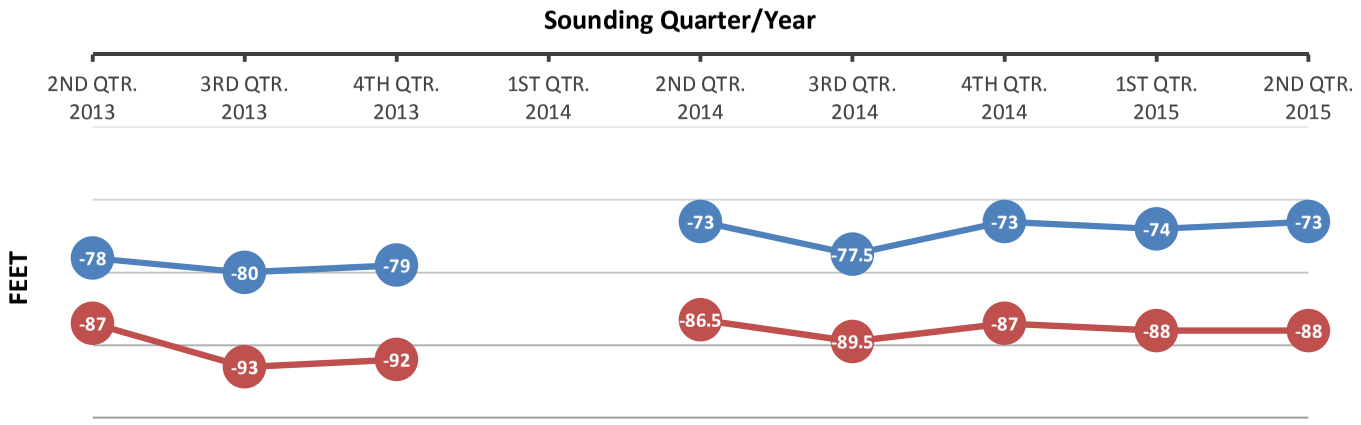
15 Min: 10.5 ppm

Elk Grove Water District

Static and Pumping Levels

Well 8 Williamson





Latest Well Sounding

Static:	73 Ft
Pumping:	88 Ft
Drawdown:	15 Ft
GPM:	800.00
Specific Capacity:	53.333

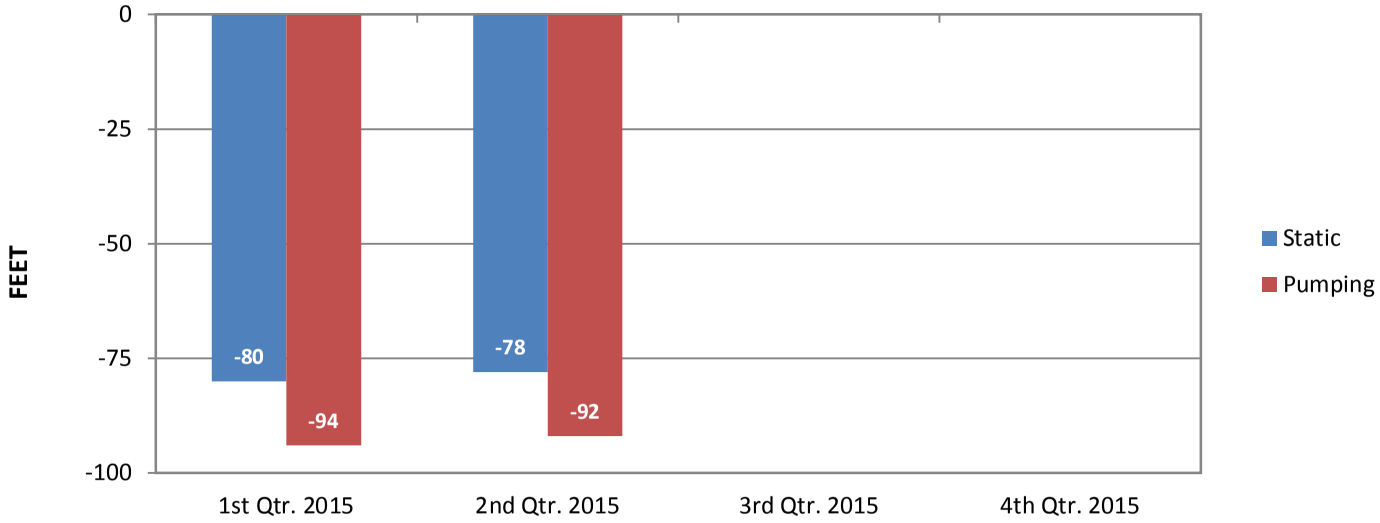
Latest Sand Tester Results:

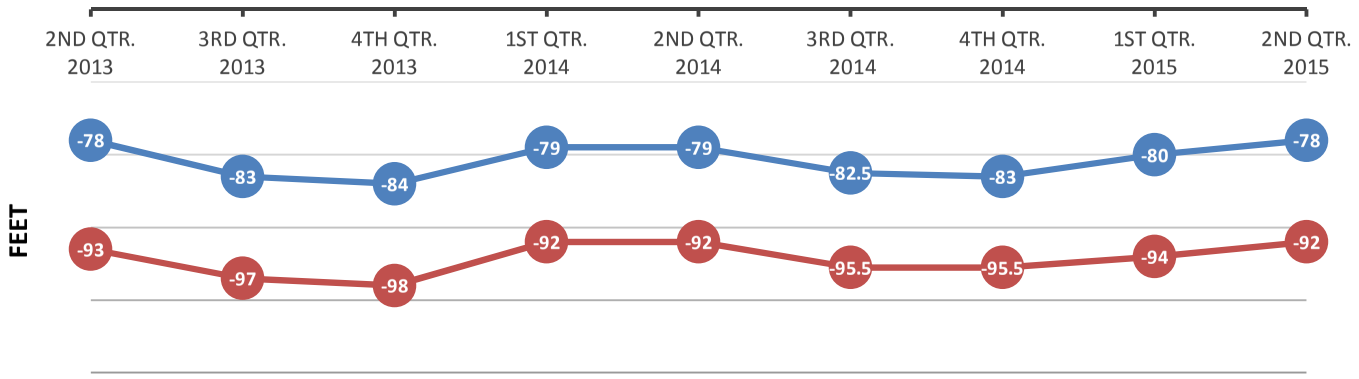
15 Min: < 5 ppm

Elk Grove Water District

Static and Pumping Levels

Well 9 Polhemus





Latest Well Sounding

Static:	78 Ft
Pumping:	92 Ft
Drawdown:	14 Ft
GPM:	460.00
Specific Capacity:	32.857

Latest Sand Tester Results:

15 Min:	< 5 ppm

Monthly Sample Report - JUNE 2015
Water System: Elk Grove Water System

Sampling Point: 01 - 8693 W. Camden			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**
6/2/2015	Distribution System	Bacteriological	Week
6/9/2015	Distribution System	Bacteriological	Week
6/16/2015	Distribution System	Bacteriological	Week
6/23/2015	Distribution System	Bacteriological	Week
6/30/2015	Distribution System	Bacteriological	Week

Sampling Point: School Well 01D - Raw Water			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**

Sampling Point: 02 - 9425 Emerald Vista			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**
6/2/2015	Distribution System	Bacteriological	Week
6/9/2015	Distribution System	Bacteriological	Week
6/16/2015	Distribution System	Bacteriological	Week
6/23/2015	Distribution System	Bacteriological	Week
6/30/2015	Distribution System	Bacteriological	Week

Sampling Point: Mar-Val Well 3 Raw Water			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**

Sampling Point: 03 - 8809 Valley Oak			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**
6/2/2015	Distribution System	Bacteriological	Week
6/9/2015	Distribution System	Bacteriological	Week
6/16/2015	Distribution System	Bacteriological	Week
6/23/2015	Distribution System	Bacteriological	Week
6/30/2015	Distribution System	Bacteriological	Week

Sampling Point: Webb Well 04D - Raw Water			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**

Sampling Point: 04 - 10122 Glacier Point			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**
6/2/2015	Distribution System	Bacteriological	Week
6/9/2015	Distribution System	Bacteriological	Week
6/16/2015	Distribution System	Bacteriological	Week
6/23/2015	Distribution System	Bacteriological	Week
6/30/2015	Distribution System	Bacteriological	Week

Sampling Point: 05 - 9230 Amsden Ct.			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**
6/2/2015	Distribution System	Bacteriological	Week
6/9/2015	Distribution System	Bacteriological	Week
6/16/2015	Distribution System	Bacteriological	Week
6/23/2015	Distribution System	Bacteriological	Week
6/30/2015	Distribution System	Bacteriological	Week

Sampling Point: 06 - 9227 Rancho Dr.			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**
6/2/2015	Distribution System	Bacteriological	Week
6/9/2015	Distribution System	Bacteriological	Week
6/16/2015	Distribution System	Bacteriological	Week
6/23/2015	Distribution System	Bacteriological	Week
6/30/2015	Distribution System	Bacteriological	Week

Sampling Point: 07 - Al Gates Park Mainline Dr.			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**
6/2/2015	Distribution System	Bacteriological	Week
6/9/2015	Distribution System	Bacteriological	Week
6/16/2015	Distribution System	Bacteriological	Week
6/23/2015	Distribution System	Bacteriological	Week
6/30/2015	Distribution System	Bacteriological	Week

Sampling Point: Williamson Well 8 Raw Water			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**

Sampling Point: 09 - 9436 Hollow Springs Wy.			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**
6/2/2015	Distribution System	Bacteriological	Week
6/9/2015	Distribution System	Bacteriological	Week
6/16/2015	Distribution System	Bacteriological	Week
6/23/2015	Distribution System	Bacteriological	Week
6/30/2015	Distribution System	Bacteriological	Week

Sampling Point: Polhemus Well 9 Raw Water			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**

Sampling Point: 09 - 8417 Blackman Wy.			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**
6/2/2015	Distribution System	Bacteriological	Week
6/9/2015	Distribution System	Bacteriological	Week
6/16/2015	Distribution System	Bacteriological	Week
6/23/2015	Distribution System	Bacteriological	Week
6/30/2015	Distribution System	Bacteriological	Week

Sampling Point: 10 - 9373 Oreo Ranch Cir.			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**
6/2/2015	Distribution System	Bacteriological	Week
6/9/2015	Distribution System	Bacteriological	Week
6/16/2015	Distribution System	Bacteriological	Week
6/23/2015	Distribution System	Bacteriological	Week
6/30/2015	Distribution System	Bacteriological	Week

Sampling Point: Dino Well 11D - Raw Water			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**

Sampling Point: Hampton Well 13 - Raw Water			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**

Sampling Point: Hampton WTP Effluent			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**

Sampling Point: Hampton WTP Baskwash Tank			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**

Sampling Point: Railroad Well 14D - Raw Water			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**

Sampling Point: Railroad WTP Effluent			
Sample Date	**Sample Class**	**Sample Name**	**Collection Occurrence**
6/2/2015	Treated Plant Effluent	WTP Eff - Fe,Mn,As Total	Month
6/2/2015	Treated Plant Effluent	WTP Eff - Fe,Mn,As Dissolved	Month

Sampling Point: Special Distribution/Construction Samples			
Sample Date	**Sample Class**	**Sample Name**	**Collection Description**
6/16/2015	Distribution System	Bacteriological	8795 Elk Grove Blvd. Fire Hydrant Replacement

Colors	Monthly Total	Yearly Total
Black = Scheduled	51	335
Green = Unscheduled	2	67
Red = Incomplete Sample	0	0

Elk Grove Water District
A DEPARTMENT OF THE
Florin Resource Conservation District

July 7, 2015

Division of Drinking Water and Environmental Mgmt.
California Dept. of Public Health
P.O. Box 997377, MS 7418
1616 Capital Ave
Sacramento, CA 95899-7377

MONTHLY SUMMARY OF DISTRIBUTION SYSTEM COLIFORM MONITORING

Enclosed is the Monthly Summary of Distribution System Coliform Monitoring report from Elk Grove Water District for June 2015.

If you have any further questions, you may contact me at 916-687-3155 ext. 102.

STEVE SHAW
WATER TREATMENT FOREMAN

9257 Elk Grove Blvd. Elk Grove, CA 95624 (916) 685-3556 Fax (916) 685-5376

State of California –Health and Human Services Agency

Department of Health Services
Drinking Water Program

MONTHLY SUMMARY OF DISTRIBUTION SYSTEM COLIFORM MONITORING

System Name	System Number
ELK GROVE WATER SERVICE	3410008
Sampling Period	**Year**
Month: June	2015

	Number Required	Number Collected	Number Total Coliform Positives	Number Fecal/E.coli Positives
1. Routine Samples (see note 1)	50	50	0	0
2. Repeat Samples Following Samples Which are Total Coliform Positive and Fecal/E.coli Negative (see notes 5 and 6)		0	0	0
3. Repeat Samples Following Routine Samples Which are Total Coliform Positive and Fecal/E.coli Positive (see notes 5 and 6)		0	0	0
4. MCL Computation For Total Coliform Positive Samples				
a. Totals (sum of columns)	50	50	0	
b. If 40 or more samples collected in month, determine percent of samples that are total coliform positive [(total number positive/total number collected) x 100]	0			
c. Is system in compliance… …with fecal/E. coli MCL? (see notes 2 and 3)	☑ Yes	☐ No		
…with monthly MCL? (see note 4)	☑ Yes	☐ No		
5. Source Samples Triggered by Routine Samples that are Total Coliform Positive (This applies only to systems subject to the Groundwater Rule - see notes 7 and 8)		0	0	0

6. Invalidated Samples
(Note what samples, if any, were invalidated; who authorized the invalidation; and when replacement samples were collected. Attach additional sheets, if necessary.)

7. Summary Completed By: **Steve Shaw**

Signature 

Title: Water Treatment Foreman

Date: 7/7/2015

NOTES AND INSTRUCTIONS:

1. Routine samples include:
a. Samples required per 22 CCR, Section 64423;
b. Extra samples required for systems collecting less than five routine samples per month that had one or more total coliform positives in previous month;
c. Extra samples for systems with high source water turbidities that are using surface water or groundwater under direct influence of surface water and do not practice filtration in compliance with regulations;
2. Note: For a repeat sample following a total coliform positive sample, any fecal/E.coli positive repeat (boxed entry) constitutes an MCL violation and requires immediate notification to the department (22, CCR, Section 64426.1).
3. Note: For repeat sample following a fecal/E.coli positive sample, any total coliform positive repeat (boxed entry) constitutes an MCL violation and requires immediate notification to the department (22, CCR, Section 64426.1).
4. Total coliform MCL (Notify Department within 24 hours of MCL violation):
a. For systems collecting less than 40 samples, if two or more samples are total coliform positive, then the MCL is violated.
b. For systems collecting 40 or more samples, if more than 5.0 percent of samples collected are total coliform positive, then the MCL is violated. 5. Positive results and their associated repeat samples must be tracked on the worksheet on the other side.
6. For systems collecting more than one routine sample per month, three repeat samples must be collected for each total coliform positive sample. Repeat samples must be collected within 24 hours of being notified of the positive results.
7. For systems collecting one or less routine samples per month, four repeat samples must be collected for each total coliform positive sample.

DHS 8477 (8/92) – Headings updated 11/01

State Water Resources Control Board
Division of Drinking Water

June 24, 2015

PWS No. 3410008

Certified Mail Return/Receipt
No. 7009 2250 0004 3622 0079

Mark Madison
General Manager
Elk Grove Water District
9257 Elk Grove Boulevard
Elk Grove, CA 95624

ELK GROVE WATER DISTRICT PUBLIC WATER SYSTEM (PWS No. 3410008)
CITATION No. 01-09-15C-001

Mark Madison:

Enclosed is a copy of the Division of Drinking Water Citation No. 01-09-15C-002 issued to the Elk Grove Water District public water system (PWS# 3410008). Please note there are certain deadlines associated with this Compliance Order.

If you have any questions, please feel free to contact Salvador Turrubiartes at (916) 552-9998 or via email at Salvador.Turrubiartes@Waterboards.ca.gov.

Sincerely,

Ali R. Rezvani, P.E.,
Sacramento District Engineer
Drinking Water Field Operations Branch

Enclosures

cc: Salvador Turrubiartes, P.E., Associate Sanitary Engineer

Cheryl Hawkins, REHS
Supervising Environmental Specialist
Environmental Management Department
10590 Armstrong Ave
Mather, CA 95655

ATTACHMENT 1:

PUBLIC NOTIFICATION TEMPLATE

Instructions for Tier 2 Resolved Total Coliform Notice Template

Template Attached

Since exceeding the total coliform bacteria maximum contaminant level is a Tier 2 violation, you must provide public notice to persons served as soon as practical but within 30 days after you learn of the violation [California Code of Regulations, Title 22, Chapter 15, Section 64463.4(b)]. **Each water system required to give public notice must submit the notice to the State Water Resources Control Board, Division of Drinking Water (DDW) for approval prior to distribution or posting, unless otherwise directed by the DDW [64463(b)].**

Notification Methods

You must use the methods summarized in the table below to deliver the notice to consumers. If you mail, post, or hand deliver, print your notice on letterhead, if available.

If You Are a…	*You Must Notify Consumers by…*	*…and By One or More of the Following Methods to Reach Persons Not Likely to be Reached by the Previous Method…*
Community Water System [64463.4(c)(1)]	Mail or direct delivery (a)	Publication in a local newspaper
		Posting (b) in conspicuous public places served by the water system or on the Internet
		Delivery to community organizations
Non-Community Water System [64463.4(c)(2)]	Posting in conspicuous locations throughout the area served by the water system (b)	Publication in a local newspaper or newsletter distributed to customers
		Email message to employees or students
		Posting (b) on the Internet or intranet
		Direct delivery to each customer

(a) Notice must be distributed to each customer receiving a bill including those that provide their drinking water to others (e.g., schools or school systems, apartment building owners, or large private employers), and other service connections to which water is delivered by the water system.

(b) Notice must be posted in place for as long as the violation or occurrence continues, but in no case less than seven days.

The notice attached is appropriate for the methods described above. However, you may wish to modify it before using it for posting. If you do, you must still include all the required elements and leave the health effects and notification language in italics unchanged. This language is mandatory [64465].

Multilingual Requirement

The notice must (1) be provided in English, Spanish, and the language spoken by any non-English-speaking group exceeding 10 percent of the persons served by the water

system and (2) include a telephone number or address where such individuals may contact the water system for assistance.

If any non-English-speaking group exceeds 1,000 persons served by the water system but does not exceed 10 percent served, the notice must (1) include information in the appropriate language(s) regarding the importance of the notice and (2) contain the telephone number or address where such individuals may contact the water system to obtain a translated copy of the notice from the water system or assistance in the appropriate language.

Population Served

Make sure it is clear who is served by your water system -- you may need to list the areas you serve.

Description of the Violation

Make sure that the notice is clear about the fact that the coliform problem has been resolved, and there is no current cause for concern. The description of the violation and the MCL vary depending on the number of samples you take. The following table should help you complete the second paragraph of the template.

If You Take Fewer Than 40 Samples a Month	**If You Take 40 or More Samples a Month**
State the number of samples testing positive for coliform. The standard is that no more than one sample per month may be positive.	State the percentage of samples testing positive for coliform. The standard is that no more than 5.0 percent of samples may test positive each month.

Corrective Action

In your notice, describe corrective actions you have taken. Listed below are some steps commonly taken by water systems with total coliform violations. Use one or more of the following actions, if appropriate, or develop your own:

- "We have increased sampling for coliform bacteria to catch the problem early if it recurs."
- "The well and/or distribution system has been disinfected and additional samples do not show presence of coliform bacteria."

After Issuing the Notice

Send a copy of each type of notice and a certification that you have met all the public notice requirements to the DDW within ten days after you issue the notice [64469(d)].

It is recommended that you notify health professionals in the area of the violation. People may call their doctors with questions about how the violation may affect their health, and the doctors should have the information they need to respond appropriately.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

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

[System] Had Levels of Coliform Bacteria Above the Drinking Water Standard

Our water system recently violated a drinking water standard. Although this is not an emergency, as our customers, you have a right to know what you should do, what happened, and what we did to correct this situation.

We routinely monitor for drinking water contaminants. We took [number] samples to test for the presence of coliform bacteria during [month year]. [Number/percentage] of those samples showed the presence of total coliform bacteria. The standard is that no more than [1 sample per month/5.0 percent of samples] may do so.

What should I do?

- **You do not need to boil your water or take other corrective actions.**
- This is not an emergency. If it had been, you would have been notified immediately. Total coliform bacteria are generally not harmful themselves. *Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.*
- Usually, coliforms are a sign that there could be a problem with the system's treatment or distribution system (pipes). Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or *E. coli*, are present. **We did not find any of these bacteria in our subsequent testing, and further testing shows that this problem has been resolved.**
- People with severely compromised immune systems, infants, and some elderly may be at increased risk. These people should seek advice about drinking water from their health care providers. General guidelines on ways to lessen the risk of infection by microbes are available from U.S. EPA's Safe Drinking Water Hotline at 1(800) 426-4791.
- If you have other health issues concerning the consumption of this water, you may wish to consult your doctor.

What happened? What was done?

[Describe corrective action].

For more information, please contact [name of contact] at [phone number] or [mailing address].

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this public notice in a public place or distributing copies by hand or mail.

Secondary Notification Requirements

Upon receipt of notification from a person operating a public water system, the following notification must be given within 10 days [Health and Safety Code Section 116450(g)]:

- SCHOOLS: Must notify school employees, students, and parents (if the students are minors).
- RESIDENTIAL RENTAL PROPERTY OWNERS OR MANAGERS (including nursing homes and care facilities): Must notify tenants.
- BUSINESS PROPERTY OWNERS, MANAGERS, OR OPERATORS: Must notify employees of businesses located on the property.

This notice is being sent to you by [system].

State Water System ID#: _____. Date distributed: _____.

ATTACHMENT 2:

PROOF OF NOTIFICATION FORM

PROOF OF NOTIFICATION

Citation No. 01-09-15C-001

Name of Water System: Elk Grove Water District

Public System Number: 3410008

Certification

As required by Section 116450 of the California Health and Safety Code, we notified the users of the water supplied by the Elk Grove Water District water system of the violation of the Total Coliform Maximum Contaminant Level (MCL) during the month of May 2015. We complied with Citation No. 01-09-15C-001 as indicated below:

Required Action	Date Completed
Public Notification – Daily Newspaper Notice	
Public Notification – Mail or Hand Delivery	

_____ _____

Signature of Water System Representative Date

Please attach a copy of the notice as published in the daily newspaper within the areas served by the system.

THIS FORM MUST BE COMPLETED AND RETURNED TO THE DEPARTMENT

Disclosure: Be advised that Section 116725 and 116730 of the California Health and Safety Code states that any person who knowingly makes any false statement on any report or document submitted for the purpose of compliance with the attached order may be liable for a civil penalty not to exceed five thousand dollars ($5,000) for each separate violation for each day that violation continues. In addition, the violators may be prosecuted in criminal court and upon conviction, be punished by a fine of not more than $25,000 for each day of violation, or be imprisoned in county jail not to exceed one year, or by both the fine and imprisonment.

STATE OF CALIFORNIA

WATER RESOURCES CONTROL BOARD

DIVISION OF DRINKING WATER

TO: Elk Grove Water District
9257 Elk Grove Boulevard
Elk Grove, CA 95624

Attn: Mark Madison, General Manager
Elk Grove Water District

CITATION FOR VIOLATION OF CALIFORNIA CODE OF REGULATIONS, TITLE 22, SECTION 64426.1- WATER SYSTEM NO. 3410008

CITATION NO. 01-09-15C-001

Issued on June 24, 2015

Section 116650 of the California Health and Safety Code (CHSC) authorizes the issuance of a citation to a public water system for violation of the California Safe Drinking Water Act (Health and Safety Code, Division 104, Part 12, Chapter 4, commencing with Section 116270) (hereinafter "California SDWA"), or any regulation, standard, permit or order issued or adopted thereunder.

In accordance with CHSC, Division 104, Part12, Chapter 4, Article 1, Section 116271, the State Water Resources Control Board, acting by and through its Division of Drinking Water (hereinafter "Division") and the Deputy Director for the Division (hereinafter "Deputy Director"), hereby issues a citation to the Elk Grove Water District

California Code of Regulations, Title 22, Section 64426.1 provides, in relevant part:

(a) Results of all samples collected in a calendar month pursuant to Sections 64423, 64424, and 64425 that are not invalidated by the Department or the laboratory shall be included in determining compliance with the total coliform MCL. Special purpose samples such as those listed in §64421(b) and samples collected by the water supplier during special investigations shall not be used to determine compliance with the total coliform MCL.

(b) A public water system is in violation of the total coliform MCL when any of the following occurs:

(1) For a public Water system which collects at least 40 samples per month, more than 5.0 percent of the samples collected during any month are total coliform-positive; or

(2) For a public water system which collects fewer than 40 samples per month, more than one sample collected during any month are total coliform-positive; or

(3) Any repeat sample is Fecal coliform Positive or E. coli-positive; or

(4) Any repeat sample following a fecal coliform-positive or E. coli-positive routine sample is total coliform-positive.

(c) If a public water system is not in compliance with paragraphs (b)(1) through (4), during any month in which it supplies water to the public, the water supplier shall notify the Department by the end of the business day on which this is determined, unless the determination occurs after the Department office is closed, in which case the supplier shall also notify the Department within 24 hours of the determination.

(hereinafter, Water System) (9257 Elk Grove Blvd., Elk Grove, CA 95624) for violation of California Code of Regulations (CCR), Title 22, Section 64426.1.

APPLICABLE AUTHORITIES

Section 116650 of California Health and Safety Code provides:

(a) If the department determines that a public water system is in violation of this chapter or any regulation, permit, standard, citation, or order issued or adopted thereunder, the department may issue a citation to the public water system. The citation shall be served upon the public water system personally or by certified mail. Service shall be deemed effective as of the date of personal service or the date of receipt of the certified mail. If a person to whom a citation is directed refuses to accept delivery of the certified mail, the date of service shall be deemed to be the date of mailing.

(b) Each citation shall be in writing and shall describe the nature of the violation or violations, including a reference to the statutory provision, standard, order, citation, permit, or regulation alleged to have been violated.

(c) A citation may specify a date for elimination or correction of the condition constituting the violation.

(d) A citation may include the assessment of a penalty as specified in subdivision (e).

(e) The department may assess a penalty in an amount not to exceed one thousand dollars ($1,000) per day for each day that a violation occurred, and for each day that a violation continues to occur. A separate penalty may be assessed for each violation.

The water supplier shall also notify the consumers served by the water system. A Tier 2 Public Notice shall be given for violations of paragraphs (b) (1) or (2), pursuant to section 64463.4. A Tier 1 Public Notice shall be given for violations of paragraphs (b)(3) or (4), pursuant to section 64463.1.

STATEMENT OF FACTS

The Elk Grove Water District public water system is operated under Water Supply Permit No. 01-09-05-PER-009, issued on September 23, 2005.

The Elk Grove Water District public water system serves approximately 41,660 year-round residents through 12,261 service connections, and as such, is classified as a community water system. The water system consists of two service areas, Service Area 1 and Service Area 2, which are served by two separate water systems that are closed off from each other. Service Area 1 is served by groundwater wells owned and operated by the Elk Grove Water District and Service Area 2 is supplied by purchased water from Sacramento County Water Agency (SCWA). The Water System, according to Section 64423 of Title 22, is required to collect 10 samples per week for analysis of coliform bacteria content to determine compliance with the MCL for total and fecal coliform bacteria.

On May 12, 2015, the Water System collected 10 routine bacteriological samples from the distribution system. Of the 10 samples taken on May 12, 2015, five of the samples had results of total coliform-positive, E.coli-negative. Of the five samples that had results of total coliform-positive, E.coli-negative, three (3) of the samples were from Service Area 2 and two (2) of the samples were from Service Area 1. Chlorine

residuals taken at the sample stations at the time of sample collection ranged between 1.08 mg/L (ppm) to 1.43 mg/L (ppm).

On May 13, 2015, the water system collected repeat distribution, triggered groundwater source samples, and other storage tank samples, in response to the May 12, 2015, total coliform-positives. All samples collected on May 13, 2015, reported negative for both total coliform and *E. coli*. Chlorine residuals taken at the sample stations at the time of sample collection ranged between 0.76 mg/L (ppm) to 1.39 mg/L (ppm). On May 13, 2015, the domestic Water System notified the Division of the violation of the Maximum Contaminant Level (MCL) of the bacteriological samples collected from the distribution system as required in the Total Coliform Rule (TCR). The remaining water samples collected during May 2015 monitoring period were negative for the presence of total coliform bacteria.

The Elk Grove public water system had a total of five total coliform-positive results for the month of May 2015, which resulted in non-compliance of the Total Coliform Rule (TCR) MCL.

DETERMINATION

The Water System has failed to comply with MCL of the TCR regulations for the Elk Grove public water system distribution samples in the month of May 2015. Consequently, the Division has determined that the Water System violated Section 64426.1, Title 22, of the CCR for the month of May 2015.

DIRECTIVES

The Water System is hereby directed to take the following actions:

1. Comply with Section 64426.1, Title 22, of the CCR in future monitoring periods.

2. Within 30 days of the issuance of this Citation, notify all persons served by the Elk Grove public water system of the MCL violation as required by Section 64426.1(c), Title 22, of the CCR. Notification shall be completed in accordance with each of the following:

   a. Mail or direct delivery of the notice contained in Attachment 'A' to each customer receiving a bill including those that provide their drinking water to others (e.g., schools or school systems, apartment building owners, or large private employers), and other service connections to which water is delivered by the Water System.

   b. Provide the notice contained in Attachment 'A' to customers using one or more of the following methods to reach persons not likely to be reached by a public posting:

      i. Publication in a local newspaper,
      ii. Posting in conspicuous public places within the service area,
      iii. Posting on the Internet, or
      iv. Delivery to community organizations.

      Changes and/or modifications to Attachment 'A' shall not be made unless approved by the Division.

3. Complete and return Attachment 'B' "Certification of Completion of Public Notification" form within 10 days of giving public notice. A copy of the notice used to provide public notification shall be attached to the form.

4. Within 30 days of receipt of this Citation, the Water System shall submit a written response to the Division indicating its willingness to comply with directives of this Citation.

The Division reserves the right to make such modifications to this Citation as it may deem necessary to protect public health and safety. Such modifications may be issued as amendments to this Citation, and shall be deemed effective upon issuance.

Nothing in this Citation relieves Water System of its obligation to meet the requirements of the California Safe Drinking Water Act, or of any regulation, permit, standard, or order issued or adopted thereunder.

All submittals required by this Citation shall be submitted to the Division at the following address:

Ali R. Rezvani, P.E.
Sacramento District Engineer
Division of Drinking Water
State Water Resources Control Board
P.O. Box 997413, MS 7400
Sacramento, CA 95899-7413
(916) 449-5600

PARTIES BOUND

This Citation shall apply to and be binding upon the Golden State Water Company – Cordova Water System, its officers, directors, shareholders, agents, employees, contractors, successors, and assignees.

SEVERABILITY

The Directives of this Citation are severable, and the Water System shall comply with each and every provision thereof, notwithstanding the effectiveness of any other provision.

FURTHER ENFORCEMENT ACTION

The California SDWA authorizes the Division to: issue citation with assessment of administrative penalties to a public water system for violation or continued violation of the requirements of the California SDWA or any permit, regulation, permit or order issued or adopted thereunder including, but not limited to, failure to correct a violation identified in a citation or compliance order. The California SDWA also authorizes the Division to take action to suspend or revoke a permit that has been issued to a public water system if the system has violated applicable law or regulations or has failed to comply with an order of the Division; and to petition the superior court to take various enforcement measures against a public water system that has failed to comply with violates an order of the Division. The Division does not waive any further enforcement action by issuance of this citation.

June 24, 2015

Date

Ali R. Rezvani, P.E.,
Sacramento District Engineer
Division of Drinking Water
State Water Resources Control Board

Attachments:

1. Public Notification Template
2. Proof of Notification Form

Certified Mail No. 7009 2250 0004 3622 0079

cc: County of Sacramento, Department of Environmental Health

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

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

Elk Grove Water District Had Samples Test Positive for Total Coliform Bacteria

The Elk Grove Water District, in accordance with state law, routinely samples its water system to test for the presence of total coliform bacteria. Total coliform bacteria, which are naturally present in the environment, are generally not harmful. The presence of total coliform bacteria, however, may indicate that other potentially-harmful bacteria may be present.

On May 12, 2015, Elk Grove Water District had water samples test positive for total coliform bacteria, but negative for E. coli bacteria. Elk Grove Water District staff immediately resampled in accordance with drinking water regulations. All resamples were negative for total coliform bacteria. At no time was the public safety of the water system ever compromised. Elk Grove Water District has an excellent record of compliance with drinking water standards. The anomaly of positive-coliform samples was most likely the result of poor sampling conditions and possibly technique.

What should I do?

No action is necessary. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did to address this situation.

For more information, please contact Mark J. Madison, General Manager, at (916) 685-3556 or 9257 Elk Grove Blvd., Elk Grove, CA 95624.

This notice is being sent to you by Elk Grove Water District, Public Water System No. 3410008.
Date distributed: August 2015.

Elk Grove Water District
A DEPARTMENT OF THE
Florin Resource Conservation District

July 7, 2015

Sacramento Regional County
Sanitation District
Environmental Specialist
10060 Goethe Rd.
Sacramento, Ca. 95827

MONTHLY COMPLIANCE REPORT

Enclosed is the Monthly Compliance Report Form from Elk Grove Water District for June 2015.

If you have any further questions, you may contact me at 916-687-3155 ext. 102.

STEVE SHAW
WATER TREATMENT FOREMAN

9257 Elk Grove Blvd. Elk Grove, CA 95624 (916) 685-3556 Fax (916) 685-5376

COMPLIANCE REPORT FORM

Attn: Nicole Sears	Wastewater Source Control Section
Phone # (916) 876-7378	Fax # (916) 876-6374
From: Steve Shaw	
Company: Elk Grove Water Service	Permit# **WTP010**

The following reports and information are attached (check all that apply):

Month:	6	Year:	2015

☑ Water use/flow meter report

Railroad WTP: 0

Hampton WTP: 25,906

☐ Monitoring results/analytical report

	Date	Time	pH
Hampton WTP			
Railroad WTP			

☑ **Discharge Rate**

Check the statement below that applies to this report:

☐ Based on a review of this facilities flow data, discharge rate limit was exceeded

☑ I certify that this facility is in compliance with the discharge rate limit.

☐ Attached is a description of anticipated changes that may significantly alter the nature, quality, or volume of the wastewater discharged.

☐ Flow monitoring equipment certification (Flow or pH meter, etc.)

☐ Other (describe)

Domestic Calculation

Domestic Usage	Number of Employees	Business Days per Month	Allowance (gallons per day)	Gallons
Production	2	20	25	1000
Office	3	20	20	1200
Drivers/Field	17	20	5	1700
			Total	3900

Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations".

SIGNATURE of Authorized Representative: _____

PRINTED NAME, TITLE: Steve Shaw (Name) Water Treatment Foreman (Title)

DATE: 7-7-2015

Date: 6/2015

Operator	Date	Waste Meter	Gallons
wquintero@egws.lan	6/1/2015 8:30:00 AM	10664688	0
wquintero@egws.lan	6/2/2015 8:00:00 AM	10664688	0
wquintero@egws.lan	6/3/2015 8:15:00 AM	10664688	0
wquintero@egws.lan	6/4/2015 8:15:00 AM	10664688	0
jdiaz@egws.lan	6/5/2015 8:07:00 AM	10664688	0
jdiaz@egws.lan	6/6/2015 8:24:00 AM	10664688	0
jdiaz@egws.lan	6/7/2015 8:21:00 AM	10664688	0
wquintero@egws.lan	6/8/2015 8:20:00 AM	10664688	0
wquintero@egws.lan	6/9/2015 8:15:00 AM	10664688	0
wquintero@egws.lan	6/10/2015 7:50:00 AM	10664688	0
wquintero@egws.lan	6/11/2015 8:15:00 AM	10664688	0
wquintero@egws.lan	6/12/2015 8:30:00 AM	10664688	0
jcarrillo@egws.lan	6/13/2015 7:30:00 AM	10664688	0
jcarrillo@egws.lan	6/14/2015 8:00:00 AM	10664688	0
wquintero@egws.lan	6/15/2015 8:15:00 AM	10664688	0
wquintero@egws.lan	6/16/2015 8:15:00 AM	10664688	0
wquintero@egws.lan	6/17/2015 8:15:00 AM	10664688	0
wquintero@egws.lan	6/18/2015 8:05:00 AM	10664688	0
smendoza@egws.lan	6/19/2015 8:05:00 AM	10664688	0
smendoza@egws.lan	6/20/2015 7:58:00 AM	10664688	0
smendoza@egws.lan	6/21/2015 7:51:00 AM	10664688	0
wquintero@egws.lan	6/22/2015 8:15:00 AM	10664688	0
wquintero@egws.lan	6/23/2015 8:30:00 AM	10664688	0
wquintero@egws.lan	6/24/2015 8:05:00 AM	10664688	0
wquintero@egws.lan	6/25/2015 8:05:00 AM	10664688	0
wquintero@egws.lan	6/26/2015 7:35:00 AM	10664688	0
jmendoza@egws.lan	6/27/2015 7:50:00 AM	10664688	0
jmendoza@egws.lan	6/28/2015 7:19:00 AM	10664688	0
wquintero@egws.lan	6/29/2015 8:30:00 AM	10664688	0
wquintero@egws.lan	6/30/2015 8:15:00 AM	10664688	0
Grand Total			0

Year: 2015

Elk Grove Water District

Preventative Maintenance Program

M.C.C. and Lab

Item		Quarterly Refer.	1st	2nd	3rd	4th	Annual Refer.	2015
Fume Hood	Initials	Sect: 1.1.1	AH	AH			Sect: 1.2.3	
	Date		3/31/15	6/11/15				
	W.O. #		12205	12720				
Dulco-meter	Initials	Sect: 1.1.2	AH	AH				
	Date		2/25/15	6/11/15				
	W.O. #		12205	12720				
M.C.C.	Initials						Sect: 1.2.1	
	Date							
	W.O. #							
Circuit Breaker	Initials						Sect: 1.2.2	
	Date							
	W.O. #							
Cl2 DPD Handheld	Initials	Sect: 1.1.3	WQ	WQ/AH				
	Date		2/23/15	6/15/15				
	W.O. #		12205	12720				

Year: 2015

Elk Grove Water District

Preventative Maintenance Program

Backwash System and Storage Tanks

Item		MONTHLY												Semi-annual			Annu./Bi-annu.		
		Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	1ST 6-MO.	2ND 6-MO.	Refer.	2015	Periodic
Mag meter	Initials																	Sect: 2.3.2		
	Date																			
	W.O. #																			
MCC	Initials																	Sect: TBD		
	Date																			
	W.O. #																			
Pressure Transdcr	Initials																	Sect: 2.2.1		
	Date																			
	W.O. #																			
Backwash Tank	Initials																	Sect: 2.3.4		
	Date																			
	W.O. #																			
Return Pumps	Initials	Sect: TBD	AH	WQ	AH	AH	WQ	AH							Sect: TBD	AH/WQ				
	Date		1/15/15	2/24/15	3/23/15	4/27/15	5/27/15	6/8/15								6/12/15				
	W.O. #		11842	12210	12302	12520	12603	12718								12719				
Storage Tanks	Initials																	Sect: 2.4.1		
	Date																			
	W.O. #																			
Bray Valves	Initials																	Sect: 2.2.2		
	Date																			
	W.O. #																			

Year: 2015

Elk Grove Water District

Preventative Maintenance Program

Booster Pumps

Item		Monthly												Semi-annual			Annual	
		Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	1ST 6-MO.	2ND 6-MO.	Refer.	2015
Electric Motor	Initials	Sect: 3.1.1	AH	WQ	AH	AH	WQ	WQ							Sect: 3.2.1	AH			
	Date		1/15/15	2/10/15	3/23/15	4/27/15	5/19/15	6/18/15								6/30/15			
	W.O. #		11846	2196	12303	12519	12605	12721								12722			
PUMP	Initials	Sect: 3.1.2	AH	WQ	AH	AH	WQ	WQ										Sect: 3.2.4	
	Date		1/15/15	2/10/15	3/23/15	4/27/15	5/19/15	6/18/15											
	W.O. #		11846	12196	12303	12519	12605	12721											
A.R.V.	Initials																	Sect: 3.3.1	WQ
	Date																		2/20/15
	W.O. #																		12203
Rising stem Valve	Initials																	Sect: 3.3.3	WQ/AH
	Date																		3/30/15
	W.O. #																		12203

Year: 2015

Elk Grove Water District

Preventative Maintenance Program

Clor-Tec System

Item		Monthly													Quarterly					Annual	
		Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	1st	2nd	3rd	4th	Refer.	2015
CL2 Meter System	Initials	Sect: 4.2.1	WQ	WQ	WQ	WQ	WQ	WQ												Sect: 4.4.1	
	Date		1/13/15	2/5/15	3/11/15	4/16/15	5/27/15	6/10/15													
	W.O. #		11624	12190	12294	12517	12607	12714													
Exhaust Fan	Initials														Sect: 4.3.1	WQ	WQ				
	Date															2/25/15	6/30/15				
	W.O. #															12202	12715				
Hydrogen Blow/Det.	Initials																			Section: 4.4.2/4.4.3	
	Date																				
	W.O. #																				
Cell and Electrode	Initials														Sect: 4.3.2	WQ	WQ				
	Date															2/18/15	6/10/15				
	W.O. #															12202	12715				
Hypo/Brine Tank	Initials	Sect: 4.2.3	WQ	WQ	WQ	WQ	WQ	WQ												Sect: 4.4.5	
	Date		1/13/15	2/5/15	3/11/15	4/16/15	5/27/15	6/10/15													
	W.O. #		11624	12190	12294	12517	12607	12714													
Water Softener	Initials																			Sect: 4.4.6	
	Date																				
	W.O. #																				
Rectifier	Initials	Sect: 4.2.4	WQ	WQ	WQ	WQ	WQ	WQ													
	Date		1/13/15	2/5/15	3/11/15	4/16/15	5/27/15	6/10/15													
	W.O. #		11624	12190	12294	12517	12607	12714													
Clor-Tec Unit	Initials	Sect: 4.2.2	WQ	WQ	WQ	WQ	WQ	WQ												Sect: 4.4.4	
	Date		1/13/15	2/5/15	3/11/15	4/16/15	5/27/15	6/10/15													
	W.O. #		11624	12190	12294	12517	12607	12714													

Year: 2015

Elk Grove Water District

Preventative Maintenance Program

Filter Vessels

Item		Monthly Refer	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Semi-annual Refer.	1ST 6-MO.	2ND 6-MO.	Annual Refer.	2015
Air/Vac Valves	Initials																	Sect: 5.2.1	
	Date																		
	W.O. #																		
Bray Valves	Initials														Sect: 5.2.2	AH			
	Date															6/18/15			
	W.O. #															12724			
CLA-VAL	Initials																	Sect: 5.3.1	
	Date																		
	W.O. #																		
Pilot Valves	Initials	Sect: 5.1.1	AH	AH/WQ	AH/WQ	AH	WQ	WQ										Sect: 5.3.2	
	Date		1/15/15	2/9/15	3/18/15	4/27/15	5/18/15	6/18/15											
	W.O. #		11845	12194	12299	12508	12606	12723											
Press. Diff. Trnsdcr.	Initials																	Sect: 5.3.3	
	Date																		
	W.O. #																		
Vessels	Initials																	Sect: 5.3.4	
	Date																		
	W.O. #																		

Year: 2015

Elk Grove Water District

Preventative Maintenance Program

Standby Generator

Item		Monthly												Semi-annual			Annual/Biannual		
		Refer	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer	1ST 6-MO.	2ND 6-MO.	Refer	2015	Periodic
Fuel Tank	Initials	Sect: 6.1.1	WQ	WQ	AH	WQ	WQ	AH							Sect: 6.2.1	AH		Sect: 6.3.1		
	Date		1/8/15	2/6/15	3/30/15	5/1/15	5/27/15	6/17/15								6/17/15				
	W.O. #		11550	12192	12311	12501	12604	12716								12717				
Radiator	Initials														Sect: 6.2.2	AH		Section: 6.3.2/6.4.1		
	Date															6/17/15				
	W.O. #															12717				
Battery/ Charger	Initials	Sect: 6.1.2	WQ	WQ	AH	WQ	WQ	AH												
	Date		1/8/15	2/6/15	3/30/15	5/1/15	5/27/15	6/17/15												
	W.O. #		11550	12192	12311	12501	12604	12716												
Coolant Heater	Initials																	Sect: 6.3.3		
	Date																			
	W.O. #																			
Generator	Initials	Sect: 6.1.3	WQ	WQ	AH	WQ	WQ	JD												
	Date		1/8/15	2/6/15	3/30/15	5/1/15	5/27/15	6/5/15												
	W.O. #		11550	12192	12311	12501	12604	12716												
Engine	Initials														Sect: 6.2.3	AH		Section: 6.3.4/6.4.2		
	Date															6/17/15				
	W.O. #															12717				

Year: 2015

Elk Grove Water District

Preventative Maintenance Program

Well 1D School

Item		Monthly Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Semi-annual Refer.	1ST 6-MO.	2ND 6-MO.	Annual Refer.	2015
Pump	Initials	Sect: 13.1.1	WQ	WQ	WQ	AH	AH	WQ							Sect: 13.2.1	AH/WQ			
	Date		1/9/15	2/10/15	3/3/15	4/1/15	5/27/15	6/16/15								6/22/15			
	W.O. #		11831	12195	12310	12514	12599	12727								12728			
Motor	Initials	Sect: 13.1.2	WQ	WQ	WQ	AH	AH	WQ							Sect: 13.2.2	AH/WQ			
	Date		1/9/15	2/10/15	3/3/15	4/1/15	5/27/15	6/16/15								6/22/15			
	W.O. #		11831	12195	12310	12514	12599	12727								12728			
Press/Lvl Transdcr.	Initials																	Sect: 13.3.2	
	Date																		
	W.O. #																		
Isolation Valves	Initials																	Sect: 13.3.6	WQ
	Date																		4/13/15
	W.O. #																		12512
Cla-Val	Initials																	Sect: 13.3.1	
	Date																		
	W.O. #																		
Mag-Meter	Initials																	Sect: 13.3.3	
	Date																		
	W.O. #																		
A.R.V.	Initials														Sect: 13.2.3	AH/WQ		Sect: 13.3.4	
	Date															6/22/15			
	W.O. #															12728			
M.C.C.	Initials																	Sect: 13.3.5	
	Date																		
	W.O. #																		

Year: 2015

Elk Grove Water District

Preventative Maintenance Program

Well 4D Webb

Item		Monthly Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Semi-annual Refer.	1ST 6-MO.	2ND 6-MO.	Annual/Biannual Refer.	2015	Periodic
Pump	Initials	Sect: 8.1.1	WQ	WQ	WQ	WQ	WQ	WQ							Sect: 8.2.1	WQ				
	Date		1/7/15	2/12/15	3/17/15	4/2/15	5/6/15	6/15/15								6/29/15				
	W.O. #		11829	12198	12300	12502	12602	12731								12732				
Motor	Initials	Sect: 8.1.2	WQ	WQ	WQ	WQ	WQ	WQ							Sect: 8.2.2	WQ				
	Date		1/7/15	2/12/15	3/17/15	4/2/15	5/6/15	6/15/15								6/29/15				
	W.O. #		11829	12198	12300	12502	12602	12731								12732				
Press/Lvl Transdcr.	Initials																	Sect: 8.3.2		
	Date																			
	W.O. #																			
Isolation Valves	Initials																	Sect: 8.3.6	WQ	
	Date																		4/13/15	
	W.O. #																		12207	
Cla-Val	Initials																	Sect: 8.3.1		
	Date																			
	W.O. #																			
Mag-Meter	Initials																	Sect: 8.3.3		
	Date																			
	W.O. #																			
A.R.V.	Initials														Sect: 8.2.3	WQ		Sect: 8.3.4		
	Date															6/29/15				
	W.O. #															12732				
M.C.C.	Initials																	Sect: 8.3.5		
	Date																			
	W.O. #																			
Portable Generator	Initials	Sect: 8.1.3	WQ	WQ	WQ	WQ	WQ	WQ							Sect: 8.2.4	WQ		Section: 8.3.7/8.4.1		
	Date		1/7/15	2/12/15	3/17/15	4/2/15	5/6/15	6/15/15								6/29/15				
	W.O. #		11829	12198	12300	12502	12602	12731								12732				
Generator Set	Initials																	Sect: 8.4.2		
	Date																			
	W.O. #																			

Year: 2015

Elk Grove Water District

Preventative Maintenance Program

Well 11D Dino

Item		Monthly Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Semi-annual Refer.	1ST 6-MO.	2ND 6-MO.	Annual/Biannual Refer.	2015	Periodic
Pump	Initials	Sect: 9.1.1	WQ	WQ	WQ	AH	AH	WQ							Sect: 9.2.1	WQ				
	Date		1/6/15	2/2/15	3/24/15	4/2/15	5/27/15	6/15/15								6/29/15				
	W.O. #		11827	12186	12304	12503	12601	12725								12726				
Motor	Initials	Sect: 9.1.2	WQ	WQ	WQ	AH	AH	WQ							Sect: 9.2.2	WQ				
	Date		1/6/15	2/2/15	3/24/15	4/2/15	5/27/15	6/15/15								6/29/15				
	W.O. #		11827	12186	12304	12503	12601	12725								12726				
Press/Lvl Transdcr.	Initials																	Sect: 9.3.2		
	Date																			
	W.O. #																			
Isolation Valves	Initials																	Sect: 9.3.6	WQ	
	Date																		4/13/15	
	W.O. #																		12206	
Cla-Val	Initials																	Sect: 9.3.1		
	Date																			
	W.O. #																			
Mag-Meter	Initials																	Sect: 9.3.3		
	Date																			
	W.O. #																			
A.R.V.	Initials														Sect: 9.2.3	WQ		Sect: 9.3.4		
	Date															6/29/15				
	W.O. #															12726				
M.C.C.	Initials																	Sect: 9.3.5		
	Date																			
	W.O. #																			
Portable Generator	Initials	Sect: 9.1.3	WQ	WQ	WQ	AH	AH	WQ							Sect: 9.2.4	WQ		Section: 9.3.7/9.4.1		
	Date		1/6/15	2/2/15	3/24/15	4/2/15	5/27/15	6/15/15								6/29/15				
	W.O. #		11827	12186	12304	12503	12601	12725								12726				
Generator Set	Initials																	Sect: 9.4.2		
	Date																			
	W.O. #																			

Year: 2015

Elk Grove Water District

Preventative Maintenance Program

Well 14D Railroad

Item		Monthly Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Semi-annual Refer.	1ST 6-MO.	2ND 6-MO.	Annual Refer.	2015
Pump	Initials	Sect: 7.1.1	WQ	WQ	WQ	WQ	WQ	WQ							Sect: 7.2.1	WQ			
	Date		1/8/15	2/4/15	3/30/15	4/1/15	5/20/15	6/17/15								6/29/15			
	W.O. #		11830	12188	12308	12504	12600	12735								12736			
Motor	Initials	Sect: 7.1.2	WQ	WQ	WQ	WQ	WQ	WQ							Sect: 7.2.2	WQ			
	Date		1/8/15	2/4/15	3/30/15	4/1/15	5/20/15	6/17/15								6/29/15			
	W.O. #		11830	12188	12308	12504	12600	12735								12736			
Press/Lvl Transdcr.	Initials																	Sect: 7.3.2	
	Date																		
	W.O. #																		
Isolation Valves	Initials																	Sect: 7.3.6	WQ
	Date																		3/6/15
	W.O. #																		12293
Cla-Val	Initials																	Sect: 7.3.1	
	Date																		
	W.O. #																		
Mag-Meter	Initials																	Sect: 7.3.3	
	Date																		
	W.O. #																		
A.R.V.	Initials														Sect: 7.2.3	WQ		Sect: 7.3.4	
	Date															6/29/15			
	W.O. #															12736			
M.C.C.	Initials																	Sect: 7.3.5	
	Date																		
	W.O. #																		

Year: 2015

Elk Grove Water District

Preventative Maintenance Program

WELL 3 MAR-VAL

Item		Monthly Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Motor	Initials	Section: 12.1.2	AH	WQ	AH	WQ	WQ	WQ						
	Date		1/9/15	2/5/15	3/25/15	4/6/15	5/7/15	6/15/15						
	W.O. #		11832	12191	12306	12506	12598	12733						
Pump	Initials	Section: 12.1.1	AH	WQ	AH	WQ	WQ	WQ						
	Date		1/9/15	2/5/15	3/25/15	4/6/15	5/7/15	6/16/15						
	W.O. #		11832	12191	12306	12506	12598	12733						
Chlorine Pump	Initials													
	Date													
	W.O. #													
Air Charger	Initials													
	Date													
	W.O. #													
Check Valve	Initials													
	Date													
	W.O. #													
A.R.V.	Initials													
	Date													
	W.O. #													
M.C.C.	Initials													
	Date													
	W.O. #													
Pneumat Tank	Initials													
	Date													
	W.O. #													
Isolation Valves	Initials													
	Date													
	W.O. #													
Propeller Meter	Initials													
	Date													
	W.O. #													

Item		Quarterly Refer.	2010	2nd	3rd	4th
Chlorine Pump	Initials	Section: 12.2.1	WQ	WQ		
	Date		2/24/15	6/15/15		
	W.O. #		12208	12734		
Air Charger	Initials	Section: 12.2.2	WQ	WQ		
	Date		2/24/15	6/15/15		
	W.O. #		12208	12734		
Pneumat Tank	Initials	Section: 12.2.3	WQ	WQ		
	Date		2/24/15	6/15/15		
	W.O. #		12208	12734		

Item		Semi-annual Refer.	1ST 6-MO.	2ND 6-MO.
Motor	Initials	Section: 12.3.2	WQ/AH	
	Date		6/22/15	
	W.O. #		12740	
Pump	Initials	Section: 12.3.1	WQ	
	Date		6/22/15	
	W.O. #		12740	
Check Valve	Initials	Section: 12.3.3	WQ	
	Date		6/22/15	
	W.O. #		12740	
A.R.V.	Initials	Section: 12.3.4	WQ	
	Date		6/22/15	
	W.O. #		12740	

Item		Annual Refer.	2015
A.R.V.	Initials	Section: 12.4.4	
	Date		
	W.O. #		
M.C.C.	Initials	Section: 12.4.1	
	Date		
	W.O. #		
Pneumat Tank	Initials	Section: 12.4.5	
	Date		
	W.O. #		
Isolation Valves	Initials	Section: 12.4.3	WQ
	Date		4/13/15
	W.O. #		12509
Propeller Meter	Initials	Section: 12.4.2	
	Date		
	W.O. #		

Year: 2015

Elk Grove Water District

Preventative Maintenance Program

Well 8 Williamson

Item		Monthly													Quarterly					Semi-annual			Annual	
		Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	1st	2nd	3rd	4th	Refer.	1ST 6-MO.	2ND 6-MO.	Refer.	2015
Motor	Initials	Section: 11.1.2	WQ	WQ	AH	WQ	WQ	WQ												Section: 11.3.2	AH/WQ			
	Date		1/12/15	2/12/15	3/3/15	4/6/15	5/28/15	6/17/15													6/22/15			
	W.O. #		11834	12199	12309	12507	12597	12737													12739			
Pump	Initials	Section: 11.1.1	WQ	WQ	AH	WQ	WQ	WQ												Section: 11.3.1	AH/WQ			
	Date		1/12/15	2/12/15	3/3/15	4/6/15	5/28/15	6/17/15													6/22/15			
	W.O. #		11834	12199	12309	12507	12597	12737													12739			
Chlorine Pump	Initials														Section: 11.2.1	WQ	AH/WQ							
	Date															3/24/15	6/22/15							
	W.O. #															12350	12738							
Air Charger	Initials														Section: 11.2.2	WQ	AH/WQ							
	Date															3/24/15	6/22/15							
	W.O. #															12350	12738							
Check Valve	Initials																			Section: 11.3.3	AH/WQ			
	Date																				6/22/15			
	W.O. #																				12739			
A.R.V.	Initials																			Section: 11.3.4	AH/WQ		Section: 11.4.4	
	Date																				6/22/15			
	W.O. #																				12739			
M.C.C.	Initials																						Section: 11.4.1	
	Date																							
	W.O. #																							
Pneumat Tank	Initials														Section: 11.2.3	WQ	AH/WQ						Section: 11.4.5	
	Date															3/24/15	6/22/15							
	W.O. #															12350	12738							
Isolation Valves	Initials																						Section: 11.4.3	WQ
	Date																							4/13/15
	W.O. #																							12510
Propeller Meter	Initials																						Section: 11.4.2	
	Date																							
	W.O. #																							

Year: 2015

Elk Grove Water District

Preventative Maintenance Program

Well 9 Polhemus

Item		Monthly Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Quarterly Refer.	1st	2nd	3rd	4th	Annual Refer.	2015
Check Valve	Initials																				
	Date																				
	W.O. #																				
Chlorine Pump	Initials	Sect: TBD	WQ	WQ	AH	WQ	WQ	WQ							Section: TBD	WQ	WQ			Section: TBD	
	Date		1/20/15	2/19/15	3/25/15	4/3/15	5/4/15	6/15/15								2/24/15	6/15/15				
	W.O. #		11764	12203	12307	12505	12596	12729								12209	12730				
Air Charger	Initials														Section: TBD	WQ	WQ				
	Date															2/24/15	6/15/15				
	W.O. #															12209	12730				
Isolation Valves	Initials																			Section: TBD	WQ
	Date																				4/13/15
	W.O. #																				12511
A.R.V.	Initials																			Section: TBD	
	Date																				
	W.O. #																				
M.C.C.	Initials																			Section: TBD	
	Date																				
	W.O. #																				
Pneumat Tank	Initials														Section: TBD	WQ	WQ			Section: TBD	
	Date															2/24/15	6/15/15				
	W.O. #															12209	12730				
Propeller Meter	Initials																			Section: TBD	
	Date																				
	W.O. #																				

Elk Grove Water District
Backflow Prevention Program 2015

Backflow Device Reports		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
CURRENT													
Notices Issued		9	24	95	4	56	38						
	Pass:	4	17	26	2	40	13						
Results Received	Fail:	0	2	0	0	0	0						
Failed Devices Retested----Passed			2										
Outstanding Results Due		5	5	69	2	16	25						

DELINQUENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Investigations													
Deactivated Devices				2									
	Sent:	5	5	69	2	16	25						
2nd Notice	Received:	0	4	0	2	8	20						
	Sent:	5	1	67		8	0						
3rd Notice	Received:	4	1	67		2	0						
Schedule Code Changed		1											
Outstanding Delinquents		0	0	0	0	6	5						
Carryover from 2014	0												

Total Outstanding Delinquents	**11**

Elk Grove Water District
Safety Meetings/Training
May-15

Date:	Topic:	Attendees:	Hosted By:
6/1/2015	Job Hazard Analysis: Identify and Reduce Hazards	Jose C, Jose M, John D, Sean, Michael, Justin, Richard, Alan, Brandon, Steve, Aaron, Travis, Wilfredo, David	Steve Shaw
6/8/2015	CPR and AEDs Save Lives	Jose M, Sean, Michael, Justin, Richard, Alan, Brandon, Steve, Aaron, Travis, Wilfredo, David	Steve Shaw
6/15/2015	Quick Equipment Checks: A Basic Safety Tool	Jose C, Jose M, John V, John D, Sean, Michael, Justin, Richard, Brandon, Steve, Aaron, Travis, Wilfredo, David	Steve Shaw
6/22/2015	Avoiding Slips and Trips	Jose C, Jose M, John V, John D, Sean, Michael, Richard, Alan, Brandon, Steve, Aaron, Travis, Wilfredo, David	Steve Shaw
6/29/2015	Be Kind to Your Body: Stretch Before Work	Jose C, Jose M, John V, John D, Sean, Michael, Justin, Richard, Alan, Brandon, Steve, Travis, Wilfredo, David	Steve Shaw

Legend

- Services to Replace
- Replaced Services in June 2015
- Replaced Services

Services to Replace: 516	Projected Coordinate System: NAD 83 State Plane, Californa II, FIPS 0420
Services Replaced in June 2015: 0	Source: City of Elk Grove, EGWD and Sacramento County GIS databases
Total Service Replaced: 88	Created by: Travis Franklin
	Date: July 1, 2015

Elk Grove Water District
Service Line Replacement

0 500 1,000 2,000 Feet

N W E S

June 2015	
Main Line Leaks: 1	YTD: 9
Service Line Leaks: 5	YTD: 44
Total Leaks: 6	YTD: 53

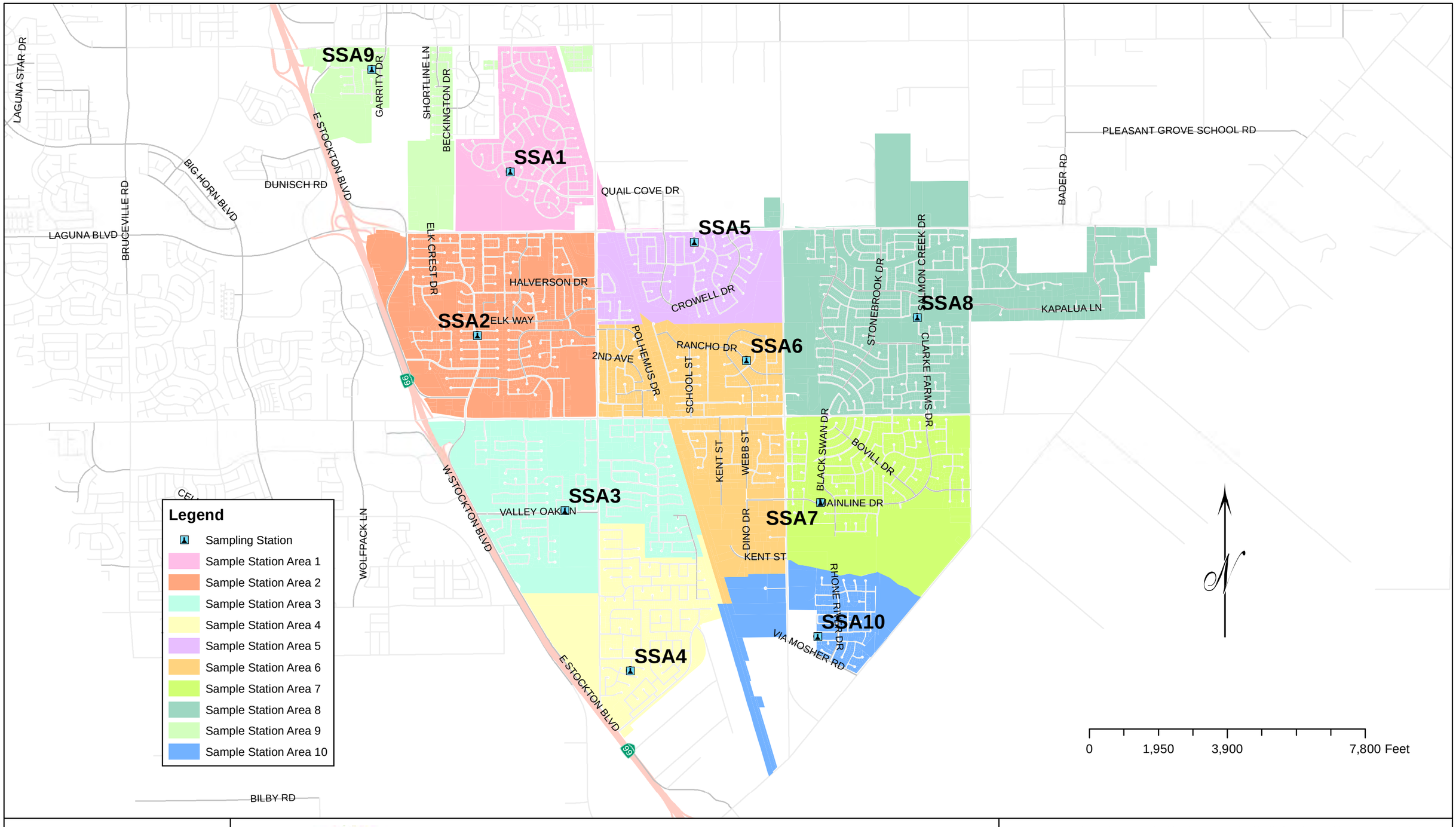
Elk Grove Water District

Service and Main Leaks Map

0 3,500 7,000 Feet

N W E S

Elk Grove Water District
Service / Main Leaks
Created by: Travis Franklin
Date: July 6, 2015



Sample Stations: 10

Elk Grove Water District

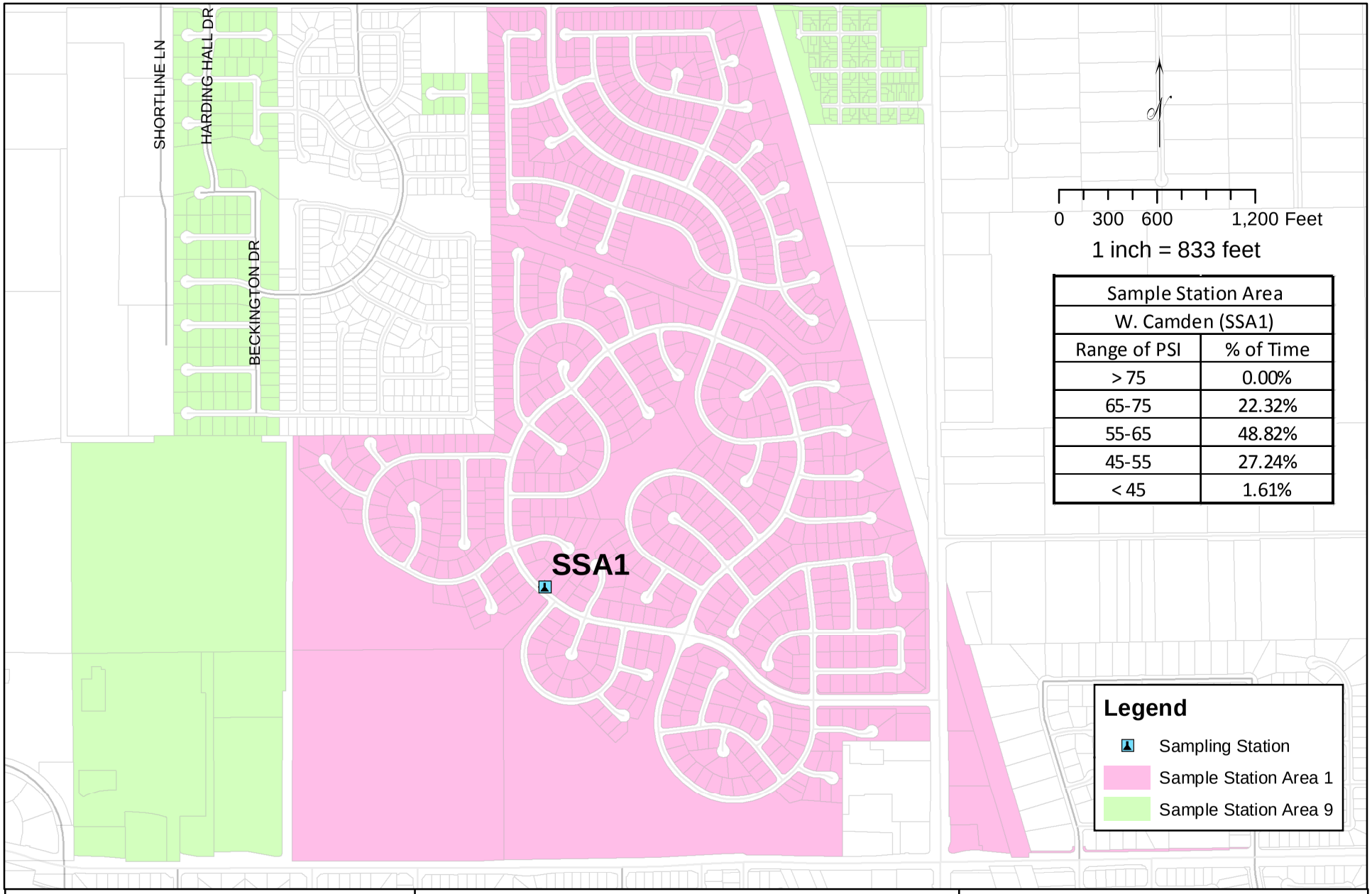
Sample Station Areas

Projected Coordinate System: NAD 83 State Plane CA II FIPS 0402

Source: EGWD GIS database

Modified by: Travis Franklin

July 13, 2015



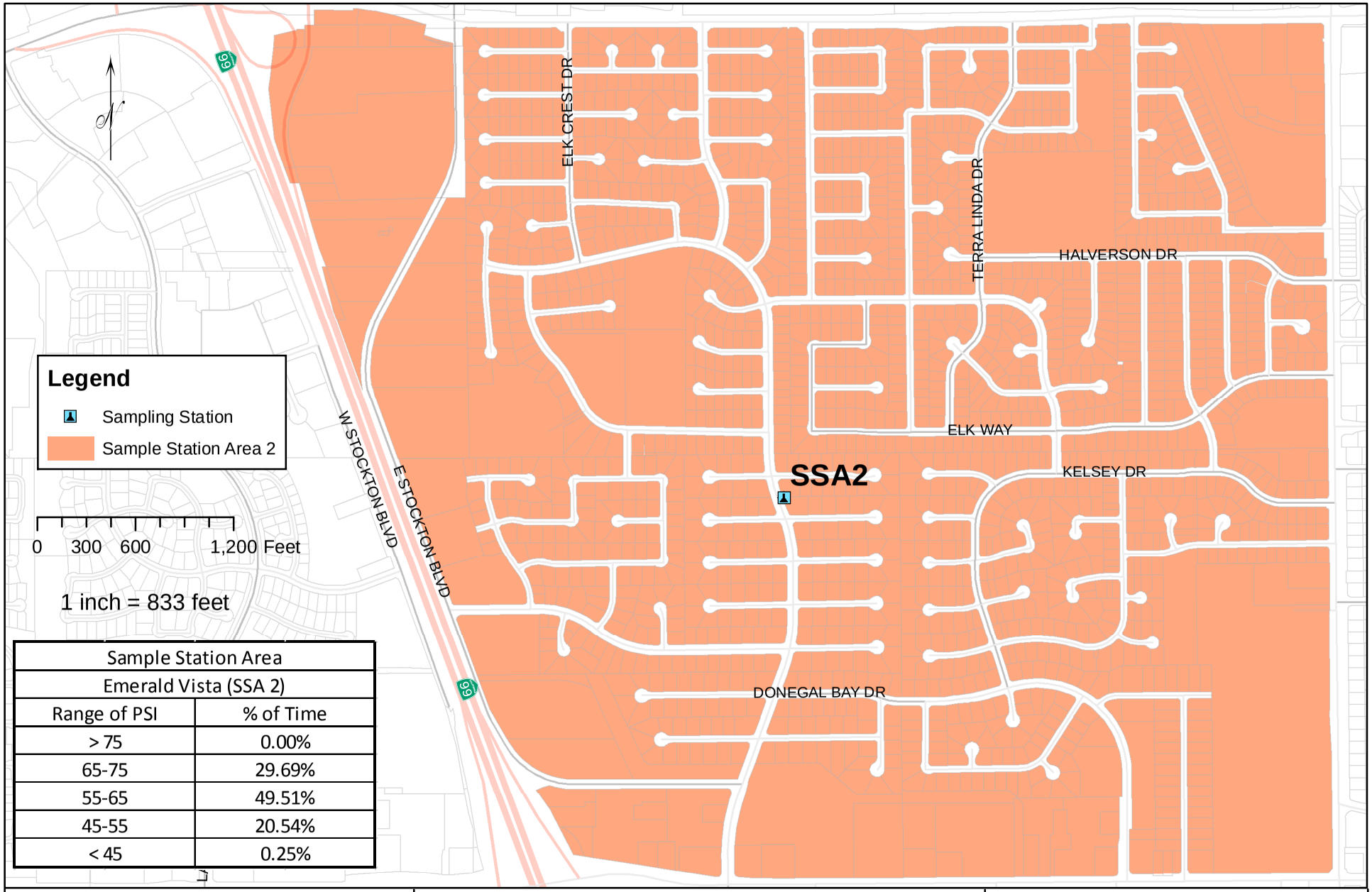
Sample Station Area	
W. Camden (SSA1)	
Range of PSI	% of Time
> 75	0.00%
65-75	22.32%
55-65	48.82%
45-55	27.24%
< 45	1.61%

Sample Station #1
Note: Sample Station takes a reading every 5 minutes.
June 2015

Elk Grove Water District

System Pressure Monitoring

Projected Coordinate System:
NAD 83 State Plane CA II FIPS 0402
Source:EGWD GIS database
Created by: Travis Franklin
July 13, 2015



Sample Station Area	
Emerald Vista (SSA 2)	
Range of PSI	% of Time
> 75	0.00%
65-75	29.69%
55-65	49.51%
45-55	20.54%
< 45	0.25%

Sample Station #2

Note: Sample Station takes a reading every 5 minutes.

June 2015

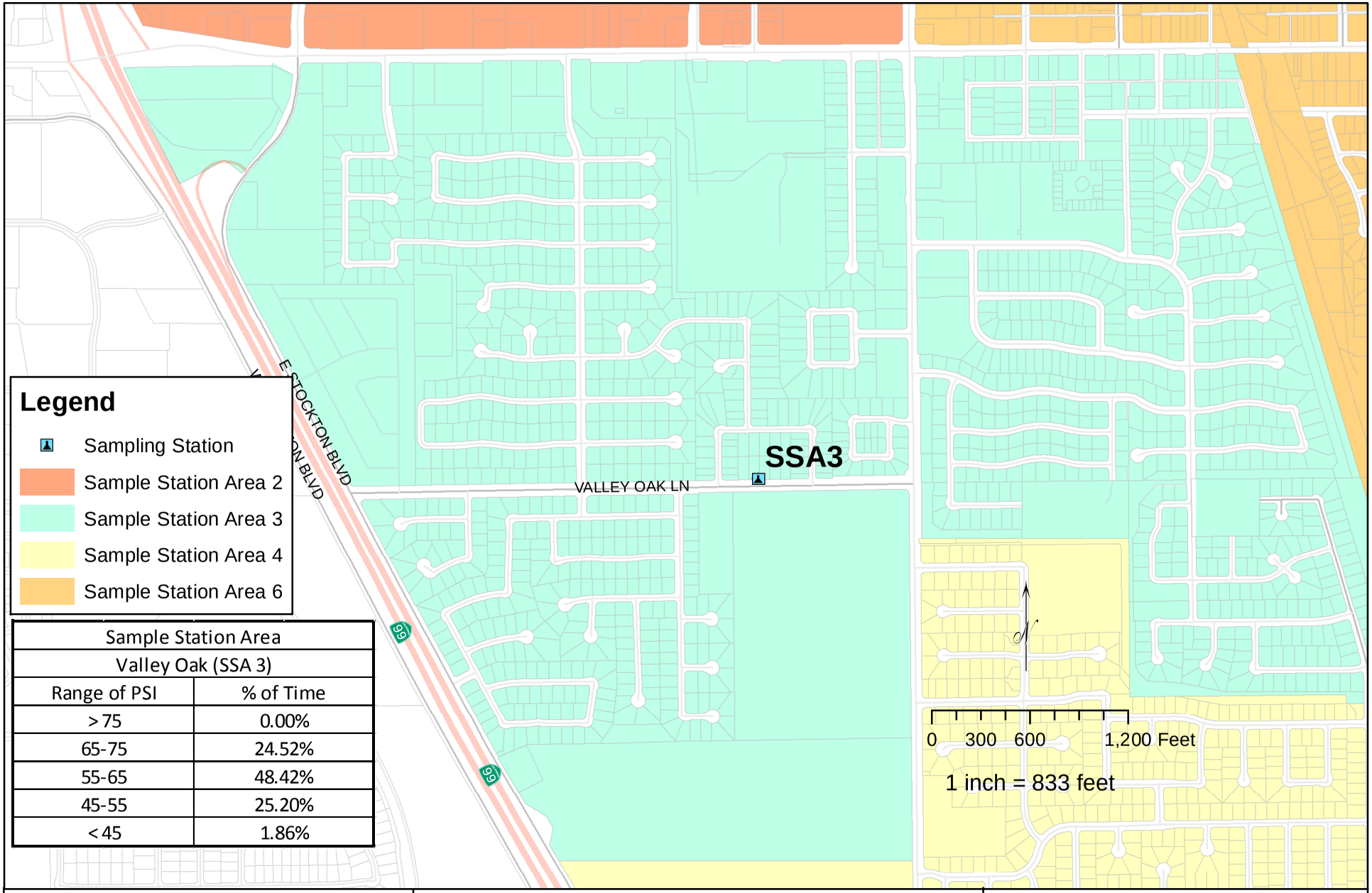
Elk Grove Water District

System Pressure Monitoring

Projected Coordinate System:
NAD 83 State Plane CA II FIPS 0402

Source: EGWD GIS database

Created by: Travis Franklin
July 13, 2015



Legend

- Sampling Station
- Sample Station Area 2
- Sample Station Area 3
- Sample Station Area 4
- Sample Station Area 6

Sample Station Area	
Valley Oak (SSA 3)	
Range of PSI	% of Time
> 75	0.00%
65-75	24.52%
55-65	48.42%
45-55	25.20%
< 45	1.86%

Sample Station #3

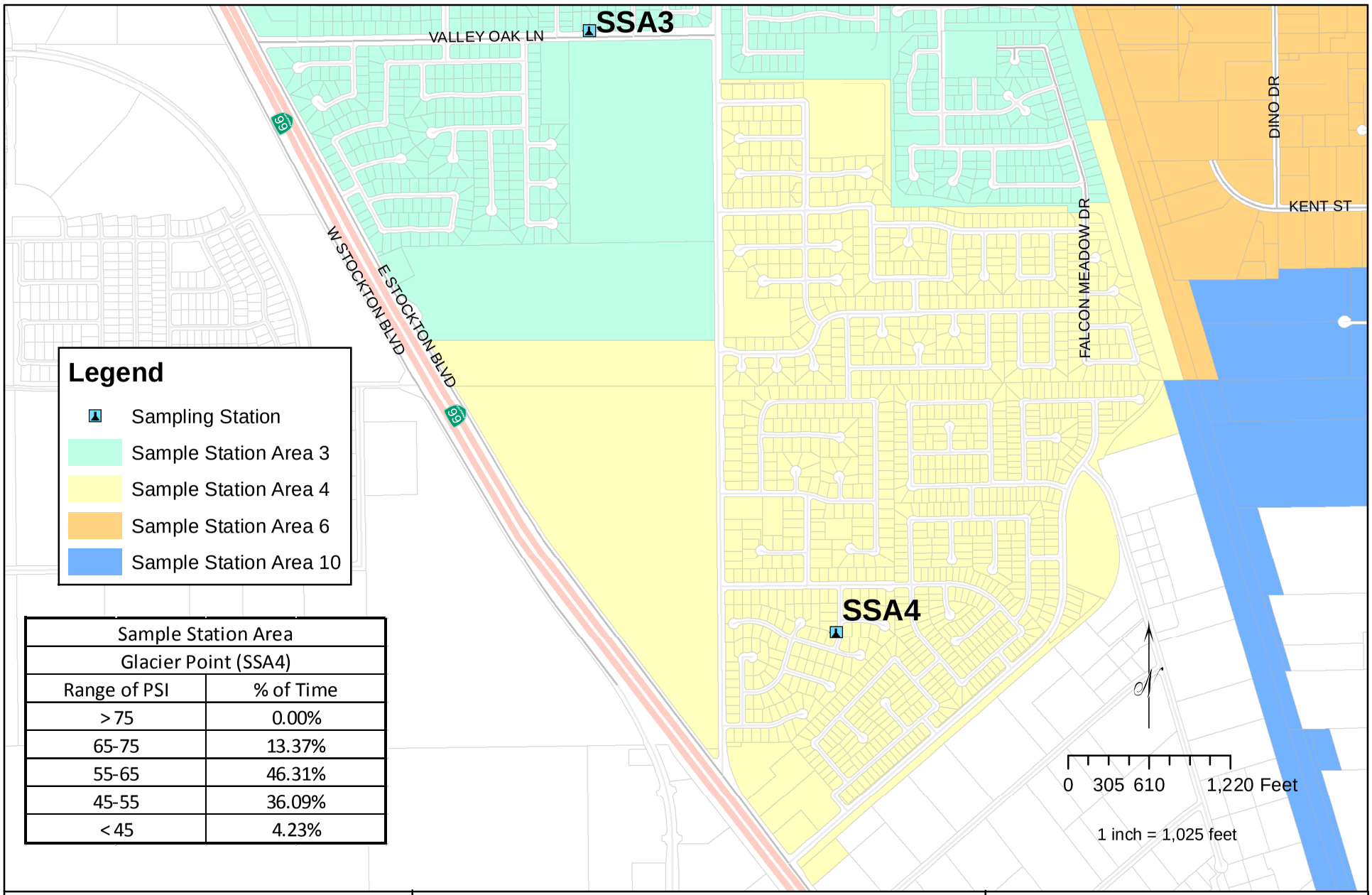
Note: Sample Station takes a reading every 5 minutes.

June 2015

Elk Grove Water District

System Pressure Monitoring

Projected Coordinate System:
NAD 83 State Plane CA II FIPS 0402
Source: EGWD GIS database
Created by: Travis Franklin
July 13, 2015



Sample Station Area	
Glacier Point (SSA4)	
Range of PSI	% of Time
> 75	0.00%
65-75	13.37%
55-65	46.31%
45-55	36.09%
< 45	4.23%

Sample Station #4

Note: Sample Station takes a reading every 5 minutes.

June 2015

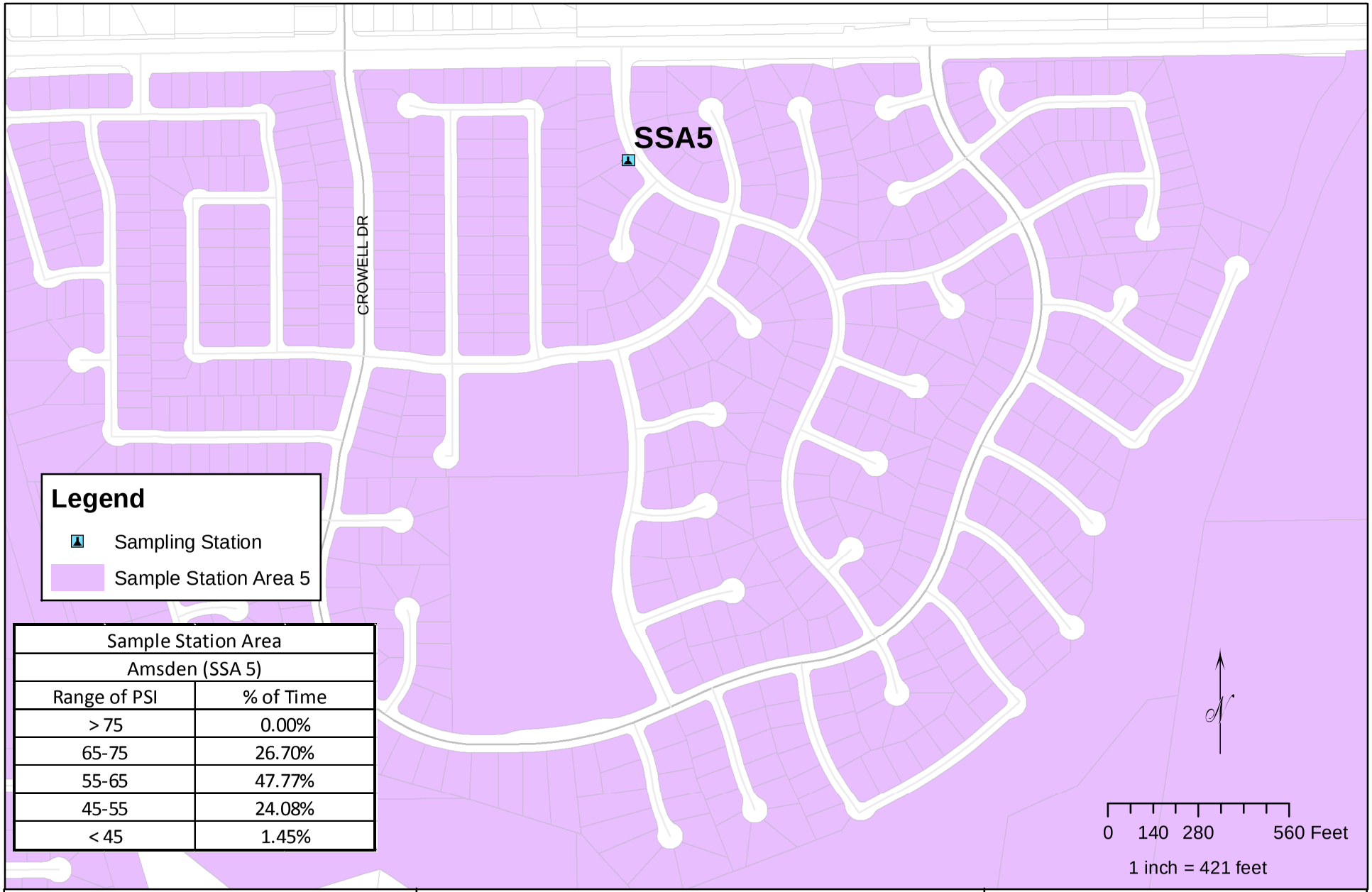
Elk Grove Water District

System Pressure Monitoring

Projected Coordinate System:
NAD 83 State Plane CA II FIPS 0402

Source: EGWD GIS database

Created by: Travis Franklin
July 13, 2015



Sample Station Area	
Amsden (SSA 5)	
Range of PSI	% of Time
> 75	0.00%
65-75	26.70%
55-65	47.77%
45-55	24.08%
< 45	1.45%

Sample Station #5

Notes: Sample Station takes a reading every 5 minutes.

June 2015

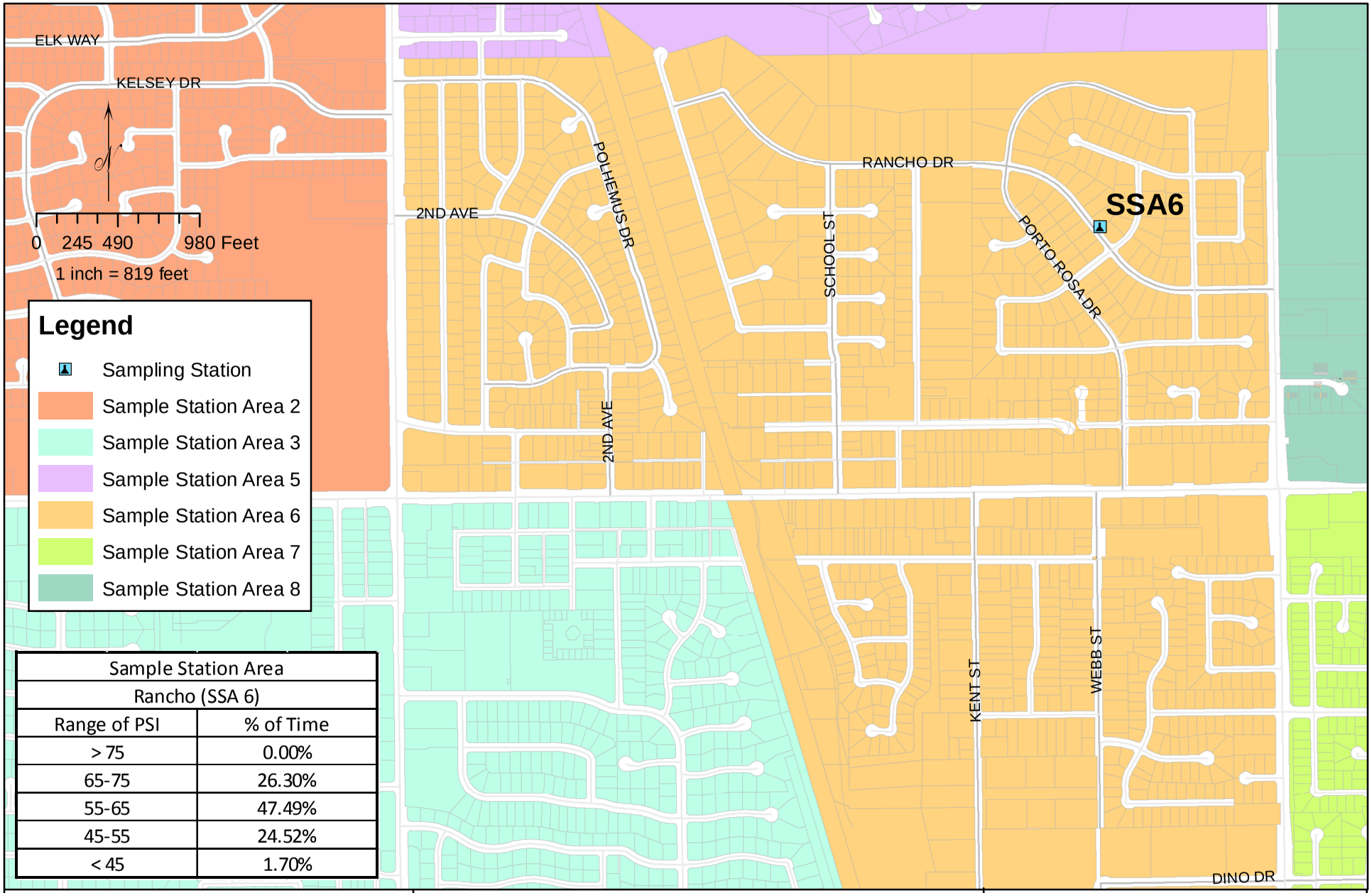
Elk Grove Water District

System Pressure Monitoring

Projected Coordinate System:
NAD 83 State Plane CA II FIPS 0402

Source: EGWD GIS database

Created by: Travis Franklin
July 13, 2015



Sample Station Area	
Rancho (SSA 6)	
Range of PSI	% of Time
> 75	0.00%
65-75	26.30%
55-65	47.49%
45-55	24.52%
< 45	1.70%

Sample Station #6

Note: Sample Station takes a reading every 5 minutes.

June 2015

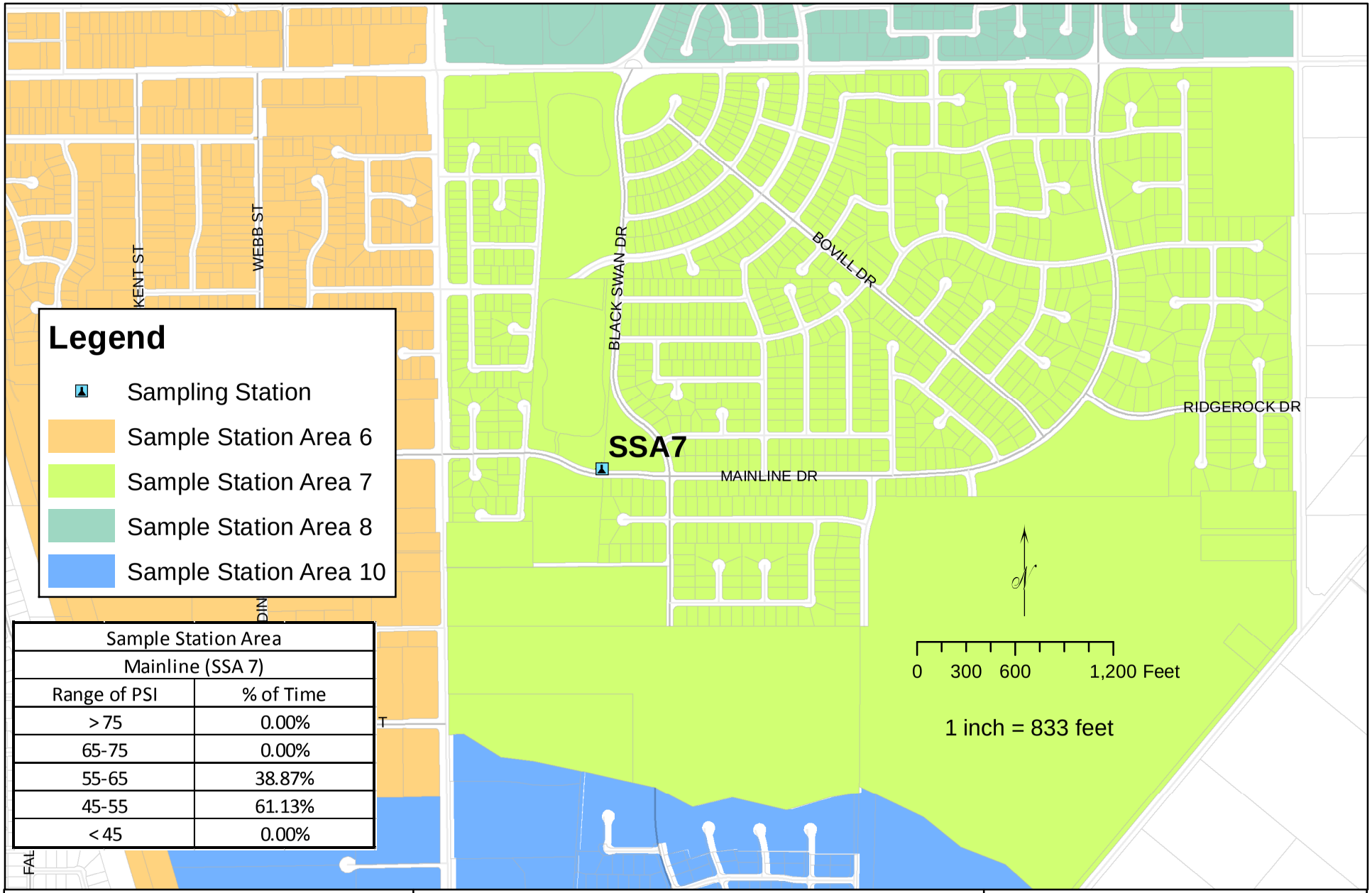
Elk Grove Water District

System Pressure Monitoring

Projected Coordinate System:
NAD 83 State Plane CA II FIPS 0402

Source: EGWD GIS database

Created by: Travis Franklin
July 13, 2015



Sample Station Area	
Mainline (SSA 7)	
Range of PSI	% of Time
> 75	0.00%
65-75	0.00%
55-65	38.87%
45-55	61.13%
< 45	0.00%

Sample Station #7

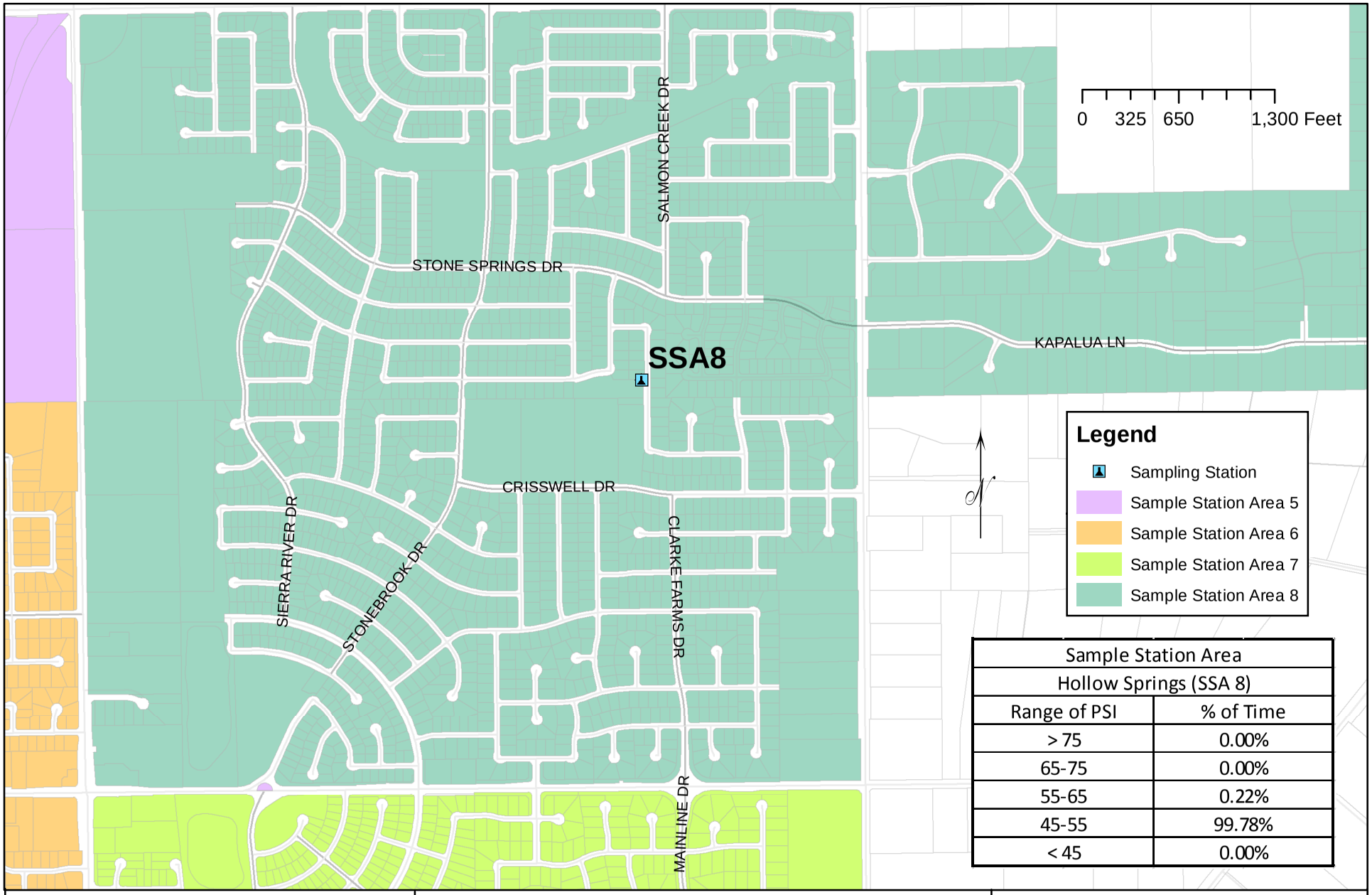
Note: Sample Station takes a reading every 5 minutes.

June 2015

Elk Grove Water District

System Pressure Monitoring

Projected Coordinate System:
NAD 83 State Plane CA II FIPS 0402
Source: EGWD GIS database
Created by: Travis Franklin
July 13, 2015



Sample Station Area	
Hollow Springs (SSA 8)	
Range of PSI	% of Time
> 75	0.00%
65-75	0.00%
55-65	0.22%
45-55	99.78%
< 45	0.00%

Sample Station #8

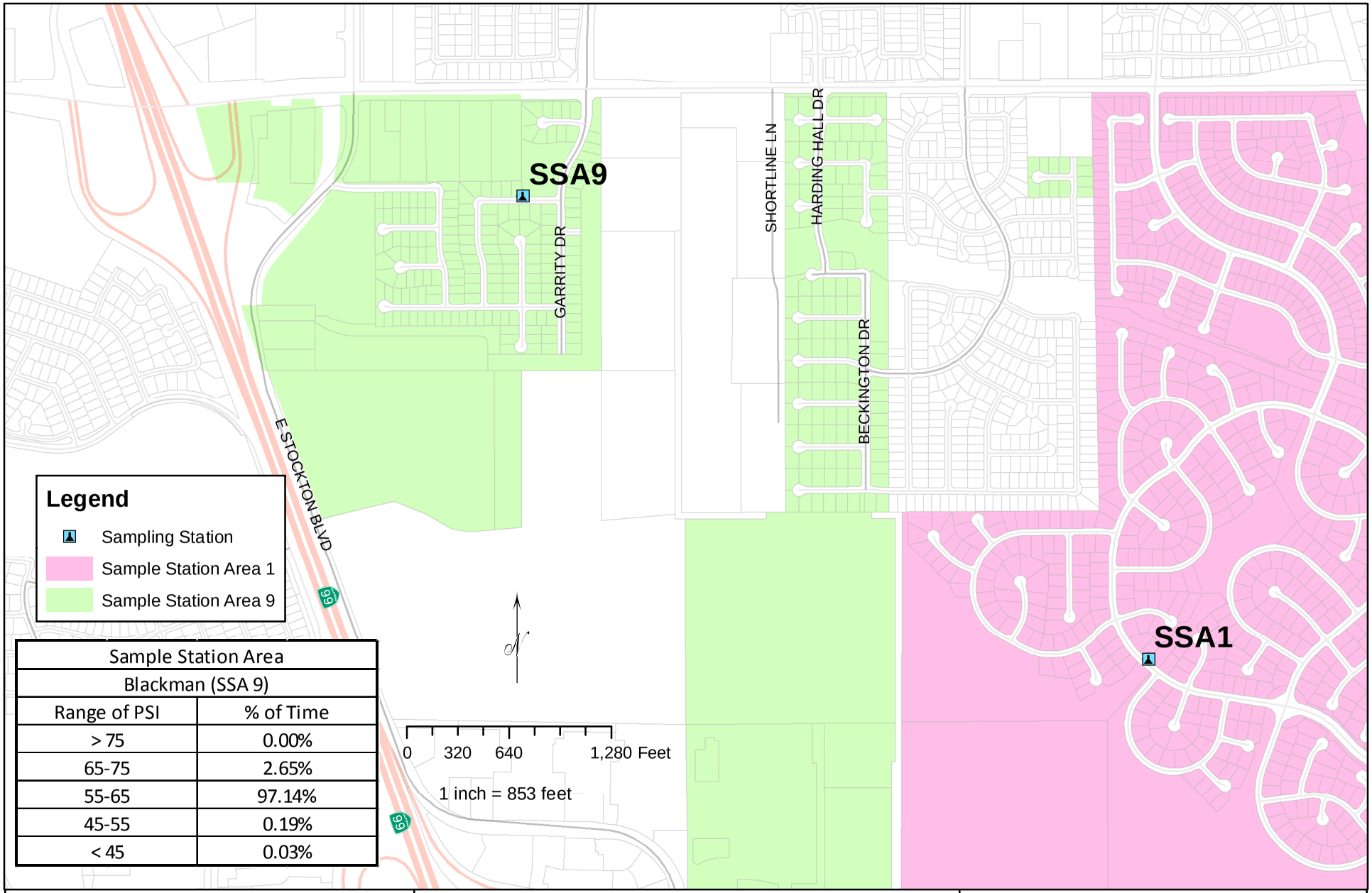
Note: Sample Station takes a reading every 5 minutes.

June 2015

Elk Grove Water District

System Pressure Monitoring

Projected Coordinate System:
NAD 83 State Plane CA II FIPS 0402
Source: EGWD GIS database
Created by: Travis Franklin
July 13, 2015



Sample Station Area	
Blackman (SSA 9)	
Range of PSI	% of Time
> 75	0.00%
65-75	2.65%
55-65	97.14%
45-55	0.19%
< 45	0.03%

Sample Station #9

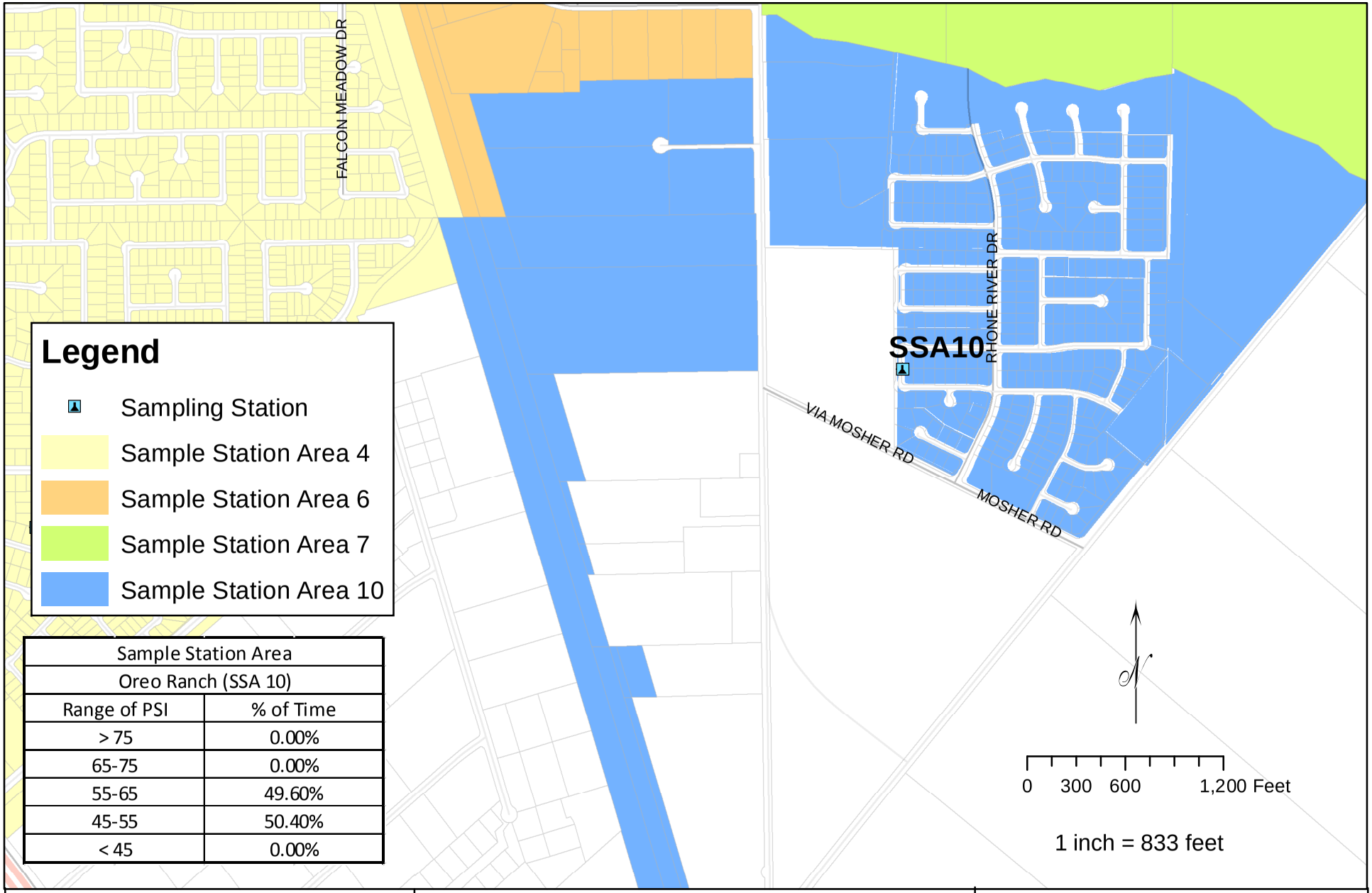
Note: Sample Station takes a reading every 5 minutes.

June 2015

Elk Grove Water District

System Pressure Monitoring

Projected coordinate system:
NAD 83 State Plane CA II FIPS 0402
Source: EGWD GIS database
Created by: Travis Franklin
July 13, 2015



Sample Station Area	
Oreo Ranch (SSA 10)	
Range of PSI	% of Time
> 75	0.00%
65-75	0.00%
55-65	49.60%
45-55	50.40%
< 45	0.00%

Sample Station #10

Note: Sample Station takes a reading every 5 minutes.

June 2015

Elk Grove Water District

System Pressure Monitoring

Projected Coordinate System:
NAD 83 State Plane CA II FIPS 0402

Source: EGWD GIS database

Created by: Travis Franklin

July 13, 2015

July 29, 2015

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Bruce M. Kamilos, Associate Civil Engineer

SUBJECT: **AUTOMATIC METER READING / ADVANCED METER INFRASTRUCTURE FEASIBILITY STUDY**

RECOMMENDATION

It is recommended that the Board of Directors of the Florin Resource Conservation District accept and file the Automatic Meter Reading/Advanced Meter Infrastructure Feasibility Study report.

Summary

The Elk Grove Water District (EGWD) hired MC Engineering to conduct an Automatic Meter Reading/Advanced Meter Infrastructure (AMR/AMI) feasibility study. The purpose of the feasibility study was to determine if EGWD should move forward with either an automatic meter reading (AMR) system or advanced meter infrastructure (AMI). The Infrastructure Committee met on July 15, 2015 to discuss the study's findings and agreed that at this time, EGWD should not proceed with AMR or AMI. The Infrastructure Committee recommends that the EGWD revisit AMR/AMI in a couple of years as technological advances are made in the area. Staff recommends that the Board of Directors accept and file the attached AMR/AMI Feasibility Study report.

DISCUSSION

Background

The EGWD, in its capital improvement program, scheduled a project to install AMI in the fiscal year 2019/2020. Last fiscal year, the Board of Director's authorized EGWD staff to proceed with a study to review the feasibility of implementing AMR or AMI. The EGWD hired MC Engineering to perform the study and the attached Automatic Meter Reading/Advanced Meter Infrastructure Feasibility Study report is the deliverable product of that study.

Present Situation

The Infrastructure Committee met on July 15, 2015 to discuss the findings of the AMR/AMI feasibility study. Everyone at the meeting agreed that automated meter reading (AMR) was not a good alternative because of its high cost with minimal operating gains; i.e., water usage data would continue to be accumulated on a monthly basis. For an additional 20% of AMR's capital cost, EGWD could install AMI and fully automate the gathering of real-time water usage data. On an economic basis alone, the feasibility study clearly shows that installing AMR or AMI is not justified. The Infrastructure Committee discussed the merits of AMI to improve customer service and provide EGWD staff with greater data for use in analytical analysis. The committee reached a consensus that at this time, EGWD should not move forward with AMI but would revisit the topic in a couple of years as technological advances are made in the area.

ENVIRONMENTAL CONSIDERATIONS

This is a feasibility study only. There are no environmental considerations related to this item.

STRATEGIC PLAN CONFORMITY

The AMR/AMI Feasibility Study made in this staff report conforms to FRCD/EGWD's Strategic Plan. As part of ensuring financial stability, the Strategic Plan directs EGWD to perform long-term planning for future asset needs. The AMR/AMI Feasibility Study reviewed in depth the need for AMR or AMI at EGWD.

FINANCIAL SUMMARY

There is no financial impact related to the recommendation of this staff report.

Respectfully Submitted,

B. M. Kamilos

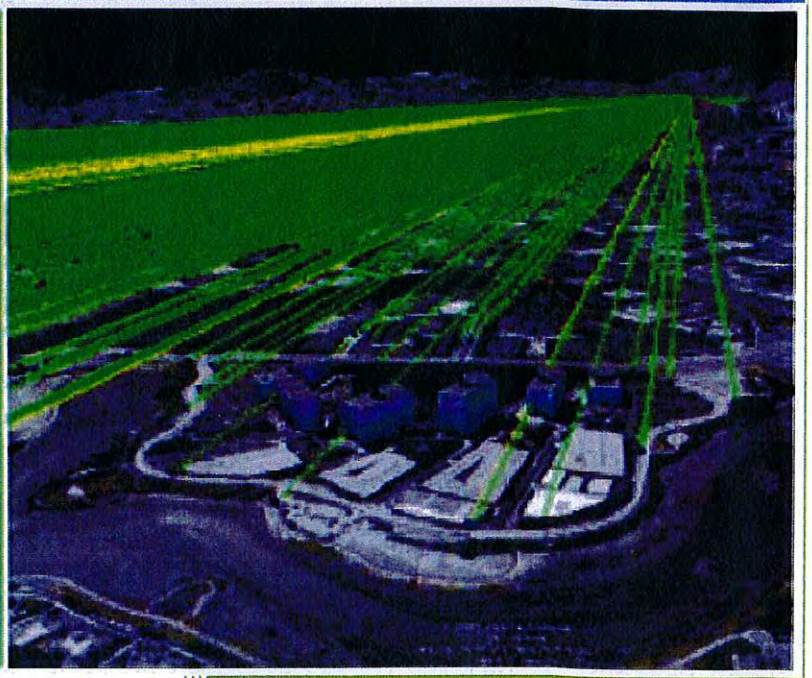
BRUCE M. KAMILOS, P.E.
ASSOCIATE CIVIL ENGINEER

BMK/mjm

Elk Grove Water District

A DEPARTMENT OF THE Florin Resource Conservation District

AUTOMATIC METER READING/ADVANCED METER INFRASTRUCTURE FEASIBILITY STUDY



Submitted by:

MC Engineering, Inc.

Mark A. Carey, P.E.

7/22/2015

Table of Contents

Executive Summary

MC Engineering was retained by the District to investigate the feasibility of installing either AMR (drive-by) or AMI (fixed base) meter reading technology. The study included investigating corresponding infrastructure needs pertaining to the District's existing meter population and investigating both capital costs and potential benefits from related investments. Workshops were held to review technology options and discuss non-monetary factors associated with new meter reading technologies and meter data management capabilities. A variety of software solutions were investigated and presented in the report along with AMR/AMI vendor offering descriptions for five leading technology solution providers.

Three primary alternatives were considered in the related business case analysis which included:

- Alternative 1: Install AMR system
- Alternative 2: Install AMI system and change out registers for meters older than 10 years
- Alternative 3: Same as alternative 2 with the added benefit of meter change outs for meters that have exceeded their useful life or are in the need of repair and/or replacement due to inappropriate typing

The estimated capital costs for Alternative 1, 2, and 3 are $2,403,677, $3,046,333, and $3,158, 955, respectively. Alternatives 2 and 3 for AMI improvements include additional costs of $476,805 for installing new registers on approximately 5000 meters to accommodate 1 cubic foot accuracy to facilitate leak detection capabilities through the use of new solid state registers. Alternative 3 includes increased annual benefits from decreased Real and Apparent Losses through programs for leak detection and replacement of meters with historically high usage.

The three business cases that were analyzed produced similar rates of return and simple payback periods for the AMR (Alternative 1) and AMI (Alternative 2) scenarios, both of which have payback periods in the range of 30 years which exceeds the useful life of the equipment. To the extent the District elects to factor in reductions in both Apparent and Real Losses, along with corresponding monetary benefits, the rate of return and payback period for AMI are more favorable. A summary of the financial analysis for each of the three alternatives considered in presented below in Table ES-1.

Table ES-1
Summary of Benefit Cost Analysis

EGWD Summary of Benefit Cost Analysis					
Scenario	**Capital Cost**	**Annual Benefit**	**NPV**	**IRR**	**Simple Payback**
1	$2,403,677	$71,108	-$645,670	-4.85%	33.8
2	$3,046,333	$87,208	-$1,103,544	-4.55%	34.9
3	$3,158,955	$185,924	$969,124	3.64%	17.0

It is recommended that the district implement Alternative 2 or 3 for an AMI system to leverage the benefits of analytics it provides. Alternative 3 includes both higher capital costs and added benefits from replacing aging meters that are currently out of warranty or inappropriately typed or maintained along with actively reducing water losses through a combination of leveraging AMI technology and implementing proactive leak detection to repair leaking pipes. Despite the higher capital costs, the added benefits with Scenario 3 result in more favorable financial performance indicators by reducing water losses (Real and Apparent) while reaping the non-monetary benefits identified in the Tables 10, 11, and 12, in the main body of the report, prepared during Workshop No. 2.

AMI is becoming the industry standard for efficient water utility operations. This has become increasingly evident in the recent drought experienced in California. A well operating, fully configured AMI system and related software can drive water conservation programs and efficiencies at both the utility and customer level. Utilities are more able to track consumption for each account and customers are provided with in-depth insights into their daily consumption profile.

Aside from the monetary implications presented in the business cases above, the District should include weighing the more qualitative social, economic, and environmental factors when determining the viability of either option. When coupled with the goals of minimizing water losses, improving employee retention, and increasing customer satisfaction, there is a good case for moving forward with an AMI installation. The project viability can be improved to the extent costs are reduced through a combination of possible grant funding, reductions in installation costs for endpoint installation by District crews, and other non-monetary benefits.

Background

The Elk Grove Water District provides water service to approximately 11,784 residential and 512 commercial customers on the east side of SR 99 in Elk Grove, California. The District retained MC Engineering to evaluate the feasibility of investing in new water meter reading technology to replace the existing Touch Read meter reading system. The scope of work included evaluating and contrasting the merits of both an Automatic Meter Reading (AMR) drive-by radio read technology versus an Advanced Meter Infrastructure (AMI) fixed base radio reading system.

The District recently made efforts to improve the efficiency of their Touch Read system by optimizing the existing routes while adding additional meters to achieve the goal of metering all customer accounts which was completed in 2015. The AMI consulting RFP included answering several questions posed by staff and comparing the merits of AMI and AMR, related capabilities, and retrofit needs.

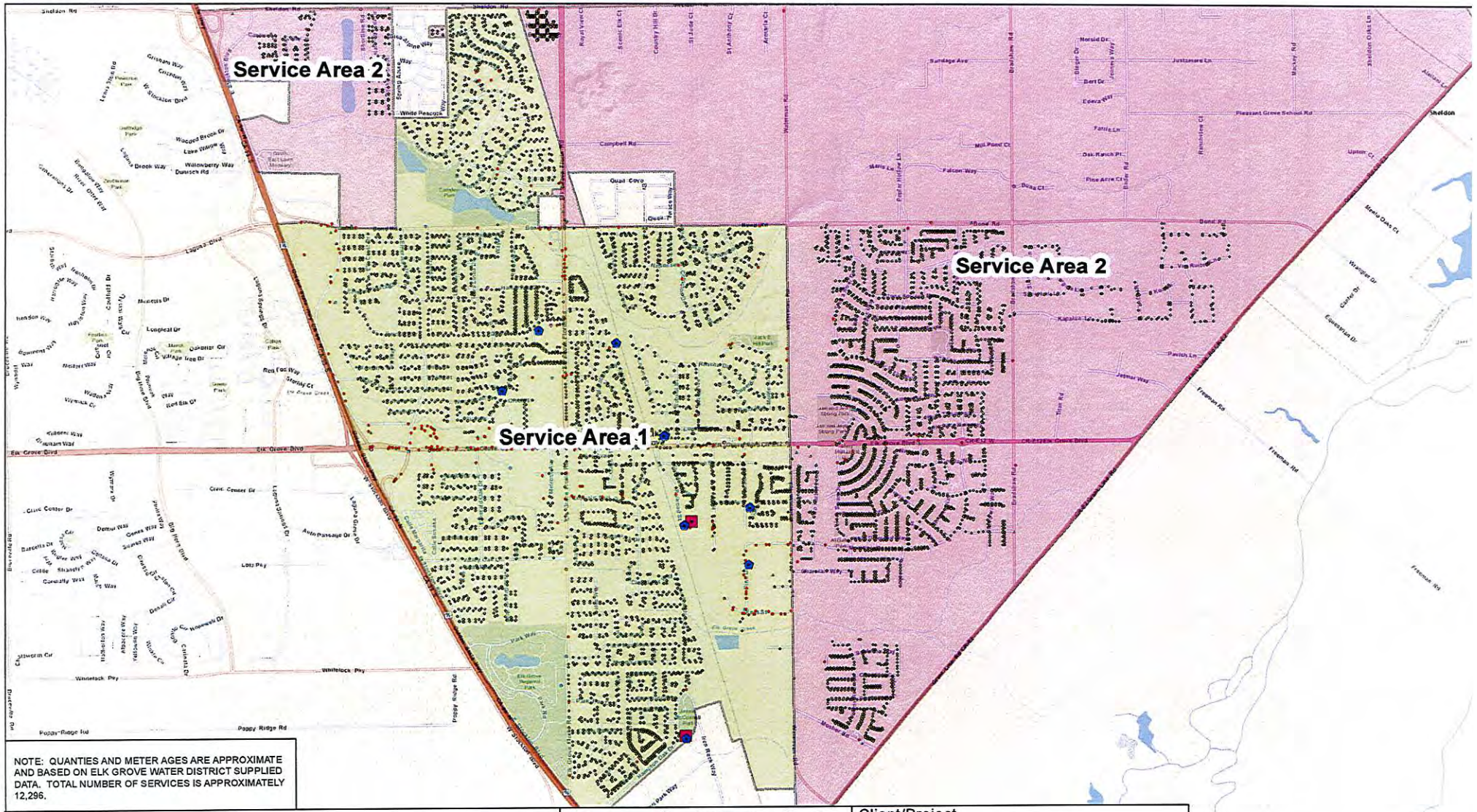
To complete the study, questionnaires were provided to staff to solicit input on current customer service, operations, and meter reading practices with a focus on potential efficiency gains that could be attributed to new meter reading technology and meter data management (MDM) capabilities. A summary of potential efficiency gains are presented in the sections that follow along with a comparison of AMI and AMR meter reading capabilities, meter data management functions, and a related business case for making an investment in AMR or AMI. Capital costs are compared for AMI and AMR and weighed against both monetary and qualitative benefits associated therewith.

Meter Population Statistics

As part of the investigations, MC Engineering solicited input in the form of historical meter billing data and related information on each customer meter. Table 1 below provides a breakdown by meter size category, the number of meters in each size category, and the relative amount of billed water for each category for the year 2014. A map of the various meters throughout the EGWD system is presented in Figure 1.

Table 1
Meter Population Size and Consumption History

2014 Meter Population Size and Consumption				
Meter Size	Meter Count	2014 Usage (HCF)	2014 Usage (Acre-Feet)	Percent of Billed Metered Consumption (HCF)
5/8" to 1"	11,834	2119810	4866	80.03%
1.5"	90	76146	175	2.87%
2"	327	255372	586	9.64%
3"	23	55961	128	2.11%
4"	19	75082	172	2.83%
6"	2	62038	142	2.34%
8"	1	4470	10	0.17%
Total System Billed Metered (HCF)		2,648,873		



NOTE: QUANTIES AND METER AGES ARE APPROXIMATE AND BASED ON ELK GROVE WATER DISTRICT SUPPLIED DATA. TOTAL NUMBER OF SERVICES IS APPROXIMATELY 12,296.

LEGEND

- 5/8" TO 1" METER
- 1.5" METER
- 2" METER
- 3" METER
- 4" METER
- 6" METER
- 8" METER
- SERVICE AREA 1
- SERVICE AREA 2
- ACTIVE PRODUCTION WELL
- WATER TREATMENT PLANT

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www.mcarey-eng.com

Client/Project

ELK GROVE WATER DISTRICT
AMI/AMR FEASIBILITY STUDY

Sheet Title:

FIGURE 1 - District Wide System Characterization

Meter Retrofit Needs

The meters in the EGWD are well suited for conversion to radio read capabilities since they are currently read using a touch coupler that penetrates the meter box through a 1-3/4" diameter hole. When installing radios, the touch coupler is removed by unscrewing the nut at the base of the lid while a new meter transceiver unit (MXU) is installed in its place. Figure 2 below shows 2 examples of existing EGWD meter boxes with TouchRead technology. Figure 3 is a graphical representation of the MXU that will be installed in place of the existing TouchRead transceiver, assuming a Sensus radio is installed, along with a typical photo of an existing TouchRead meter box.

Figure 2
EGWD Typical Meter Boxes with Thru-pit Touch Pad

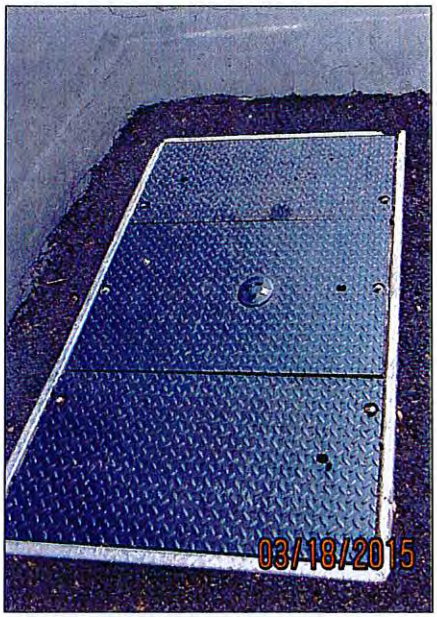
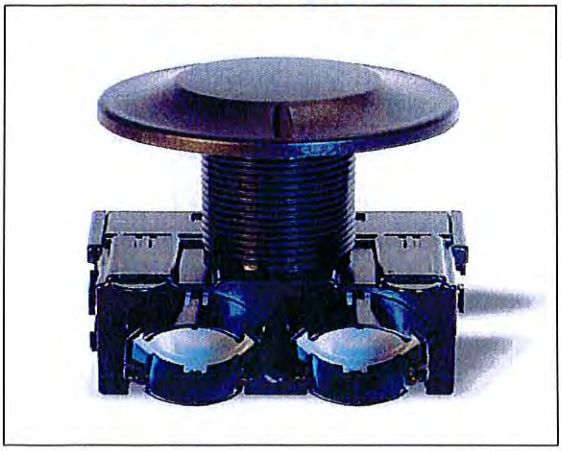


Figure 3
Sensus 520M FlexNet SmartPoint Radio Transceiver and Typical Installation



Field Survey and Related Findings

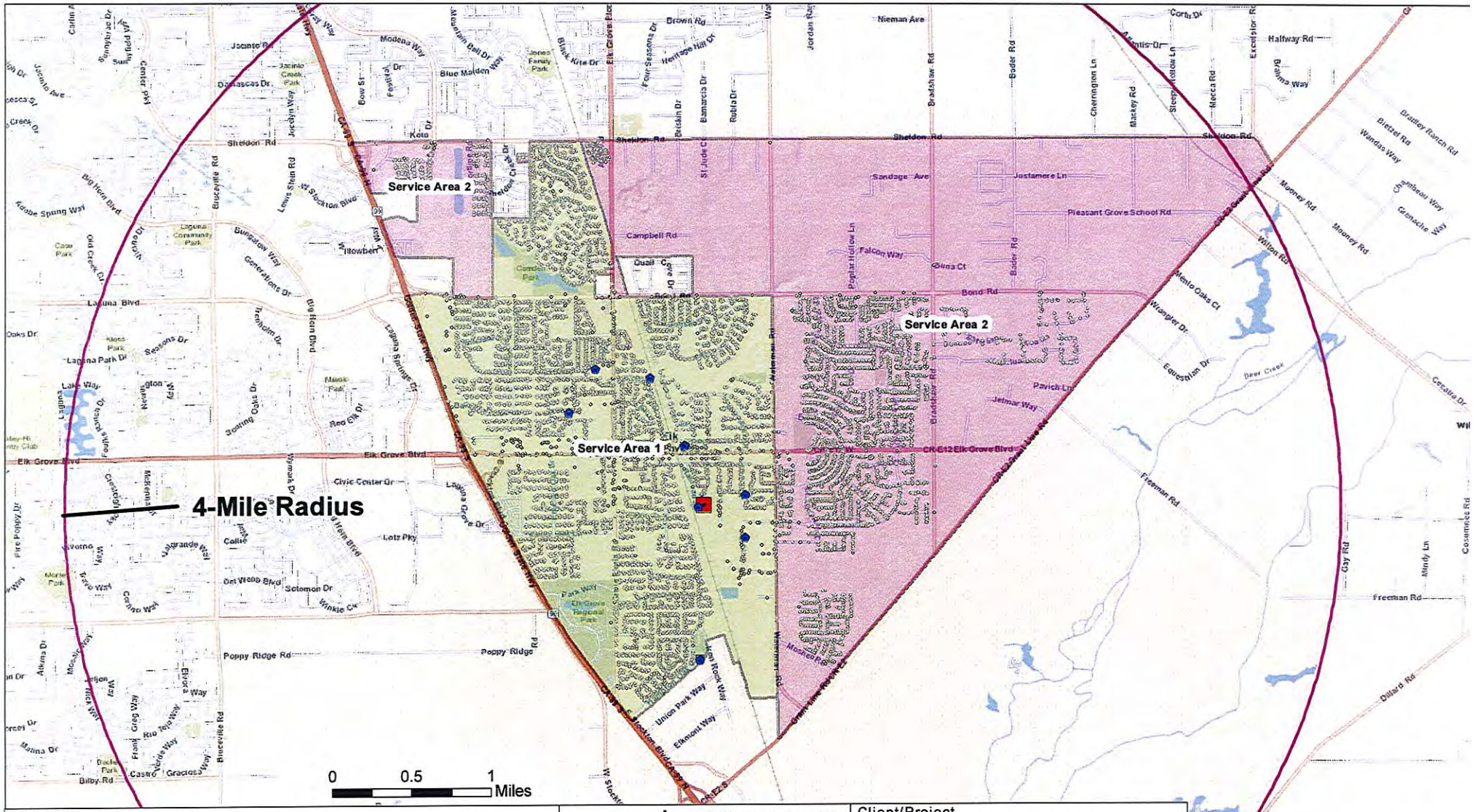
A field survey was conducted to document existing conditions within the EGWD system. A total of 22 meter locations were surveyed with meters ranging in size from 1-inch to 8-inch. The field survey consisted of documenting information such as meter type, meter size, meter serial number, meter condition, meter box type, meter box condition, meter box lid condition, and whether the meter lid had an existing TouchRead coupler. Pictures were taken of the meter, meter box, meter register, and relative location to the service address. When possible, flow was passed through the meter to observe the meter response time, whether the meter was registering low flows, and if the meter was functioning properly. Some of the findings of the field survey were presented in Workshop 2 and are summarized below:

1) All of the meter boxes and lids investigated were in good condition
2) All of the meters had an existing TouchRead coupler
3) 2 of the 22 meters surveyed were stuck and not functioning at all. Both of these meters are considered high usage meters based on the type of facility served
4) 1/3 of the meters surveyed were intermediate to large size Turbo meters. Turbo meters typically do not record low flow and are good candidates for testing and/or replacement with a more modern meter such as a Sensus Omni or a more accurate single jet meter.
5) One 8-inch Hersey compound meter did not respond to a low flow test which indicated a good potential for maintenance or replacement following a more formal test to confirm results.
6) In general it was determined that the District has good potential to recover Apparent Losses through a more detailed meter survey and testing program with an emphasis on repairing or replacing commercial meters, replacing existing turbo meters where appropriate, and focusing on meters that have exceeded their useful life.

Potential AMI Antenna Locations

The field survey also included determining possible locations for a potential future AMI tower/antenna and related collector. Four well locations were included in the field survey and while they are all viable candidates to be a potential location for the AMI antenna, a good location to consider would be the new 60' tower being built at the site of the existing Water Treatment Plant. As shown in Figure 4, a Sensus Tower Gateway Base Station (TGB) could be expected to effectively read meters within a 4-mile radius. Extending out from the water treatment plant it appears that one tower could effectively achieve this goal.

A variety of vendor solutions are described in more detail below. A more detailed propagation study would be required with each alternative prior to implementation and the number of collectors for other meter vendor AMI technologies will likely require significantly more antennas to effectively read all meters within the District.



LEGEND

- EXISTING METER LOCATIONS
- SERVICE AREA 1
- SERVICE AREA 2
- ACTIVE PRODUCTION WELL
- POTENTIAL ANTENNA LOCATION (WTP1)
- 4-MILE RADIUS
- WTP2

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ELK GROVE WATER DISTRICT
AMI/AMR FEASIBILITY STUDY

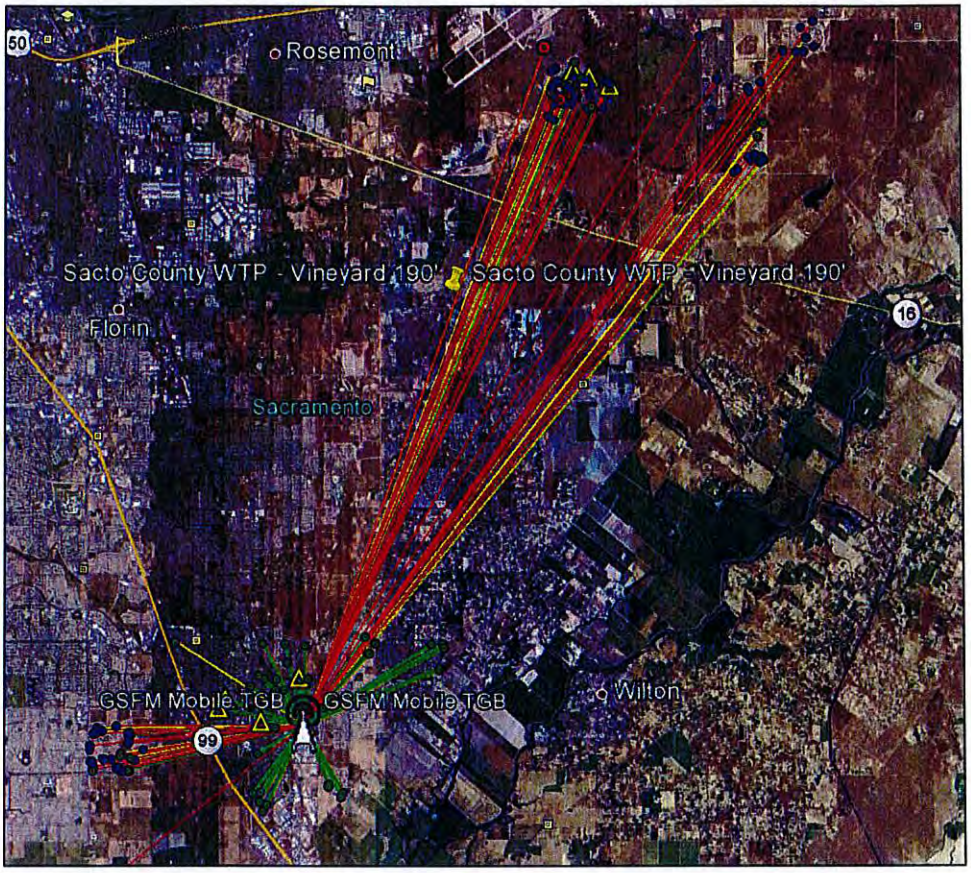
Sheet Title:

FIGURE 4 - Potential Antenna Location

Previous AMI Propagation Study

In April of 2010, Sensus performed a preliminary propagation study. A six corner approach was used and the study indicated that one tower would likely provide sufficient radio coverage for the entire district. Figure 5 below presents the extent and range of the TGB Antenna which read meters as far away as the Anatolia subdivision in Rancho Cordova located in the northeast portion of the figure.

Figure 5
April 2010 Propagation Study



Technology Considerations

Meter Reading Technology Alternatives

Water meters and meter reading technologies have evolved significantly over the past decade. These advances are being recognized and many utilities have converted from manual and touch read technology to implementing automated meter reading (AMR) or advanced meter reading infrastructure (AMI) solutions. Meters were predominantly read manually until around the early 1980s at which point water utilities began to install meters with solid state electronics that were able to accommodate the

use of touch read systems. Beginning in the late 1990s and, in many cases still surviving as the preferred technology, new radios were developed that accommodated "drive by" AMR, thus eliminating the need to visit each customer location to read meters and providing an incremental reduction in the associated manpower requirements. More recently, the use of AMI systems has become a commonly accepted technology standard that provides even greater benefits and efficiencies.

Manual Read

District staff are not currently reading any meters manually. There are a number of disadvantages associated with reading meters in this fashion, the greatest being the amount of time required to complete a cycle. This approach requires meter readers to go to each physical location, lift lids, visually record register reads and enter them manually onto a handheld device. Some of the disadvantages associated with this method for meter reading include difficulty reading the meters that are often covered with dirt or submerged, increased potential for workman's comp claims due to injury, higher propensity for meter reading errors, and additional time requirements associated with having to drive or walk to each customer's meter location.

Touch Read

Currently, all meters in the EGWD system are read using a Sensus Touch Read system. Touch read technology offers benefits over manually reading meters because the reads are transferred electronically to a handheld device. By automating this process the meter reader can easily overlook anomalies such as a stuck meter if the handheld is not configured to alert to these conditions. The technology replaced manual reading for many utilities in the 1980s. Touch read capabilities accelerate the meter reading process and allow the meter reader to obtain an accurate reading even if the meter box is filled with dirt or deep within an underground pit or vault. It does not rely on radios and battery life like AMR or AMI. Additional efficiency gains were added to the current system in Elk Grove recently by optimizing the meter reading routes as part of a project with MC Engineering.

With the touch read system, meter reading data is downloaded to the utility billing office from handheld computers where it is used to generate customer bills. Although the meter reading process is accelerated with touch read technology, staff are still exposed to the elements and required to visit each physical location. Touch read does not offer as many benefits of radio reads with respect to an increasing number of meter data management capabilities and customer solutions.

Automatic Meter Reading (AMR)

Automatic Meter Reading is in many cases the preferred meter reading technology where topography creates issues with radio signals thus precluding the use of fixed base or AMI. AMR allows meter readers to drive within the general vicinity of a water meter with a device mounted in the vehicle to collect meter reads via radio transmissions. This greatly accelerates the meter reading process and it is estimated that one meter reader could easily obtain reads for all 12,300 meters within the District in one day with AMR.

AMR technology also improves employee health and safety by allowing staff to collect meter reads while remaining inside a vehicle. AMR minimizes the need for personnel to enter private property which is favorable for both customers and District employees. Some main disadvantages of AMR are that the

reads are only available as often as the routes are read (i.e. monthly), there is no two-way communication capability, and real-time leak detection and alerting is not available. The incremental cost of installing a tower and moving to AMI is usually justified once all the radios are installed. The Sensus system currently relies on the 520M radio which can be used in both AMR and AMI applications. Given the flat topography and expected high performance of a fixed base AMI system in the EGWD, paying the incremental cost and installing an AMI system is recommended in this report as discussed further below.

Advanced Meter Infrastructure (AMI)

Advanced meter infrastructure (AMI) consists of "fixed base" antennas for intercepting radio reads from endpoints (meters), backhaul communications, and head end meter data management through an internet connected computer. AMI became the leading technology for reading meters in the early 2000s. To this day AMI has been gaining momentum and has been recognized by many in the industry as an important part of the future of water utility operations and management. Having survived several challenges associated with early versions of the AMI technology, the motivation for new systems has shifted from strictly considering labor savings associated with meter reading to emphasizing the benefits of the increased data availability and related meter data management (MDM) capabilities.

A variety of AMI systems are available today and, although similar in that meters are read from a fixed base, there are several important technology considerations. The most fundamental distinction has to do with the overall system architecture. The two basic structures are mesh (point to point), and star (point to multi-point) designs.

In a mesh system, meters communicate with each other and, in some cases, intermediate collectors, to convey meter reads to a common location where the data is transmitted back to the head end using a variety of options (typically radio or cellular communications). With meshed systems the meters can often communicate with each other and/or a variety of low power transceivers consisting of small antennas mounted on light poles, fire hydrants, or other strategic locations. Variables including the power of the radios in the meters, the type of frequency, and topography, often dictate the number of antennas needed for an AMI system. The number and type of collectors are important considerations, particularly since the collectors usually need a power source, communication medium, and potentially the acquisition of right-of-way or easements. Many organizations installing mesh type AMI systems have found that deploying a large number of antennas for the fixed base system is one of the biggest challenges.

With a star, or point to multi-point system, the collectors communicate with each end-point and may rely on a limited number of repeaters for receiving radio reads and polling or programming the meters remotely. Higher power systems often require fewer antennas but they may require greater heights and strategic placement to receive reliable readings.

Topography that provides a good line of sight from a central location is often conducive to cost effective fixed base designs. Mesh systems may have an advantage when peer to peer communications between meters can be used to offset limitations due to terrain, trees, buildings, and other obstructions. As a fallback, a hybrid approach that relies on both AMI and AMR transmitting capabilities may be the best

approach in certain situations. In either case, the need to ensure good radio communications is of utmost importance.

Another major consideration with AMI system design is the level of communications between the head end and the endpoints that is accommodated by the system architecture. On-demand meter reads generally require two-way communications whereby the end user can query a meter and receive immediate feedback for up to date reads or re-programming. One way communications are typically based on the meter providing data to the end user on a pre-programmed interval. Other communications capabilities include:

- 1-1/2 Way: Full two-way communication between the controlling computer and the collectors but only one-way communication from the endpoint to the collector.
- 1-3/4 Way: A specific endpoint can be interrogated and respond but the endpoint cannot be reprogrammed through the controlling computer.
- 2-Way Variations:
    - Full two-way communication between the controlling computer and the endpoint but *only at scheduled intervals*, which prohibits interrogating a specific endpoint at will. This could be defined as "limited" 2-way communication.
    - Full two-way communication between the controlling computer and the endpoint. A specific endpoint can be interrogated and reprogrammed at will.

Regardless of the technology selected by EGWD, careful consideration should be taken to ensure compatibility with all existing meters. Experience has shown that having the same manufacturer for the meters and the AMI system has several benefits, primarily that there is only one vendor to look to when problems arise in the system. Given that the majority of the meters in the EGWD system are Sensus meters, a Sensus "Flexnet" fixed based AMI system was assumed for estimating purposes. If a Flexnet system is ultimately installed, EGWD will likely be able to read all of the meters in the District with one antenna. One antenna was thus assumed for estimating purposes. This should be confirmed based on an official propagation study that would form the basis of a contractual obligation for read reliability.

AMI vs. AMR Comparisons

There are several key considerations when assessing the merits of AMI and AMR technology. The table below lists various features and capabilities and compares the value provided by each technology. Items in green/teal are considered advantages whereas the red/rouge colored cells are considered disadvantages.

Table 2
AMR vs. AMI Benefits Comparison

Feature	AMI	AMR
Capital Cost	Added cost for tower, software, and server (or hosting service)	Lower cost (see business case analysis)
Recurring Costs	Backhaul communications fees (cellular), Higher technical support (IT costs), annual software and maintenance fees for collectors and servers	Limited recurring costs
Meter Data Availability	On-demand data (two-way communications with head end)	Monthly (or as needed based on drive-by schedule)
Customer Solutions	Enhanced Capabilities including: • Timely and accurate response to customer inquiries • Prompt notifications and alarms • Near real-time customer portal for increased awareness • Virtual "turn-ons" and "turn-offs" to reduce staff time	Limited Options for Viable Customer Solutions
Bill Date Flexibility	• Easily modified and spread out to eliminate one-time monthly work-load	Monthly (or as needed based on drive-by schedule)
Meter Data Analytics	• Accurate real-time data for modeling and planning purposes • Easily accommodates District Meter Areas (DMAs) • Enhanced Leak Detection	Limited to monthly consumption totals for subsequent analysis
Drought Response	• Real-time consumption data supports conservation pricing and enforcement of irrigation restrictions	Limited to monthly consumption totals for subsequent analysis

AMI and AMR Reliability Considerations

System reliability and data storage capability will vary by vendor. For example, a Sensus AMR system will typically include a new 520M MXU. The MXU can store from 1 week to one month of data depending upon data compression settings. For example, a register configured to read down to 1/10 of a cubic foot could result in approximately one week of storage whereas lower resolution will accommodate the greater storage intervals. For those installations with an iPERL meter, 39 days of storage can be achieved in the meter itself with 1 hour data resolution. For an AMI system using the Sensus TGB collector typical storage time is in the range of 30 days. Lastly, for the Sensus remote network interface (RNI) database server, Sensus typically provides up to two years of data storage. Downtime for the system would primarily be associated with loss of power to the collector. Those relying on a solar array would be subject to local weather conditions whereas collectors on grid power would be subject to the related

utility power reliability and outage history. Battery backup for the collectors, to be relied on in the event of a power outage are typically sized for a minimum of three days of backup power.

Radio Communication Alternatives

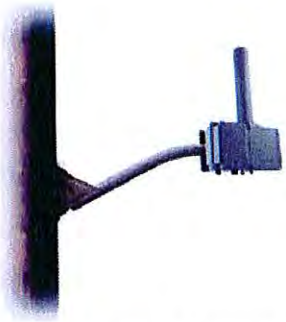
AMR and AMI systems typically rely on either the 450 MHz radio spectrum or spectrums in the 900 MHz frequency range. These frequencies can either be licensed or un-licensed with the FCC. A primary license is provided with the Sensus AMI system thus accommodating up to 2 watts of power at the endpoint affording the opportunity to minimize the number of collectors and improve read rate reliability. Both Itron and Master Meter provide 3G cellular communications options. Costs for 3G cellular service can be up to $0.85 per read, thus adding considerably to the monthly costs for communicating meter reads. As the network providers transition to a 4G system the older 3G communications platforms will likely be obsolete. In general, radio reading technology using drive by or fixed base AMR in the 450 or 900 MHz frequency ranges will likely provide the lower long-term cost solution for systems with a large number of endpoints to read and communicate with on a regular basis. Cellular communications, on the other hand, can reduce initial capital costs and provide a viable solution to fill coverage gaps in service territories with a mix of urban, suburban, and rural geographies.

Examples of Leading Vendor AMI Technologies

As with any product, there tends to be a variety of options with a select few products distinguishing themselves as market leaders. For the purpose of this study, MC Engineering included analysis of 5 leading vendors with a brief summary of each technology discussed briefly below along with a picture of a typical endpoint and collector for each. A link to each vendor website is included in Table 4.

Aclara (STAR_select network): Aclara provides AMI solutions for the water, electric, and gas industry. Aclara MTUs transmit over the 450-470 MHz radio frequency over distances of about one mile, depending upon topology. The Aclara MTU is mounted under non-metallic lids. Multiple collectors would typically be required to effectively obtain reads from all endpoints within the EGWD service territory with an Aclara system. The MTUs typically communicates with at least three Data Collector Units (DCUs). These DCUs are typically mounted on utility poles or other convenient locations, some of which may need to include assets not belonging to the District and requiring a lease option and easement. Power to each DCU and backhaul communications from multiple units would need to be considered. This technology is often convenient for investor owned electric utilities, like PG&E, with established locations for providing power and mounting DCUs.

Itron (Water AMI Choice Connect): Itron water endpoints typically rely on their 100W ERT for transmitting data via a 900 MHz un-licensed frequency to a centrally located collector (CCU 100) coupled with their model 100 repeater units where necessary. The 100W can be connected to a thru the lid (TTL) antenna to improve signal strength. The 100 W is available with power outputs up to 1 watt. The 100W can communicate in both mobile (AMR) and fixed base (AMI) configurations.



Sensus (Flexnet): The Flexnet AMI system by Sensus will typically rely on the 520M meter transmitting unit (MXU). The 520M MXU is presented above in Figure 3. The 520M transmits via an FCC primary use licensed 900 MHz frequency to a central collector with or without their metro repeater which is used in select installations where warranted by terrain, obstacles, or distance. The "M" in the 520M stands for migratable, meaning it accommodates both fixed-base and drive-by reading (AMR) capabilities. The primary license allows endpoints to communicate with up to 2 watts of power, thus accommodating longer range transmissions and fewer collectors than most competing products.

Mueller (Mi.Net): Mueller provides a variety of products for water systems including leak detection equipment, AMI, and related products. The Mueller AMI endpoint consists of their "Hot Rod" transmitter which is mounted on a PVC pipe under the lid. Range is limited to approximately 1200 feet. One innovative feature is their reliance on repeaters installed on hydrants that are used to boost signals for ultimately transmitting data to the head end. The Mueller repeaters typically consist of high capacity long-life battery packs with a 10-15 year life expectancy. The repeaters communicate with the Mi.Hub data collector with a range of 1 to 3 miles over a 900 mHZ radio frequency.

HOT ROD Transmitter

Neptune: Neptune utilizes the R450 System which is a two-way RF fixed network communications framework that operates in the 450-470 MHz licensed band. Using Neptune's R450 System, endpoints communicate with fixed network data collectors (DCs) which communicate to the host server via various backhaul options. The R450 MIU utilizes a C-cell battery that has a 20 year published warranty. The R450 utilizes a licensed frequency band with an output power between 100 mW and 1 Watt. Depending on environmental factors, the range of the system will cover multiple miles.

Master Meter: Master Meter has a variety of products that measure, collect and manage distribution system related device data. Their AMR system uses a standard Dialog 3G water meter register and Gridstream communication technology. Their Interpreter register design integrates the encoder register, RF transceiver, battery and antenna inside the register's stainless steel body - all "under the glass" for durable environmental protection in even the most harsh environments. The programmable design allows it to perfectly mimic the meter body's original register while delivering AMR technology without wires or connections.

AMI Software Options

All leading AMI vendors provide some level of meter data management software package for use with their standard AMI system. Rather than describe the various features for each vendor in detail a hyperlink is provided below to the website describing each vendor's standard offering. Additional, non-vendor specific, MDM solutions are described below under the section on Third Party Software Developers. Cost for vendor supplied software can be high, in some instances, and the add-on features such as customer portals for viewing monthly usage can often be provided by one of the third party software development companies at a lower cost. In all cases MDM software is quickly evolving and generally requires an investment in user specific configuration to provide the desired benefits which tend to vary for each utility customer. For more information click the hyperlinks below in Table 3.

AMI Vendor	Vendor AMI Software	Table 3, Hyperlink for Detailed Description
Aclara	STAR-prestige MDM	www.aclara.com/wp-content/uploads/309-R1-Aclara-STAR_prestige-MDM_12-14_R3.pdf
Itron	Water Analytics	www.itron.com/na/productsAndServices/Pages/water%20analytics.aspx#
Sensus	Logics	www.sensus.com/documents/10157/32152/Logic%20Meter%20Data%20Management%20Datasheet%20(DS-S-LOG-00-0112-01-A).pdf
Mueller	MiHost	www.muellersystems.com/docs/pdf2/MiHost11-09-2010.pdf
Neptune	R450/R900	www.neptunetg.com/Meter-Reading/The-N_SIGHT-Software-Suite/
Master Meter	MasterLinx	www.mastermeter.com/en/Masterlinx-Enterprise-MGMT-SW.html

Third Party Software Developers

A number of software solutions are emerging that leverage customer billing data using a cloud computing platform based on data fed from either real-time (AMI) or monthly (AMR) billing data. These solutions offer programming resources and software dedicated to meter data analytics that can be customized to interface with data files from the metered accounts for making better use of billing data, often more cost effectively than software provided by the meter vendor. Three examples are listed below along with highlighted features. A link is provided to the on-line company resources for complete information.

Aqua Hawk

www.aquahawkalerting.com

Aqua Hawk is a Web-based, customer portal solution for municipal utilities that use fixed base Advanced Metering Infrastructure (AMI) or Automated Meter Reading (AMR) systems. AquaHawk is a powerful customer service and efficiency application that water utilities can use to create a better customer experience. Some of the core features of the Aquahawk software include:

- Estimated bill to date calculations
- Usage threshold alerting
- Landscape watering guide
- Mobile device support
- Advanced leak detection notification
- Powerful graphic interface

Recent Reference: Dublin San Ramon Services District

Drop Counter

www.dropcountr.com

Dropcountr Software provides utility and software solutions in the form of their "Clear" software and related mobile apps, respectively. Clear is a powerful MDM solution that was co-designed with water utilities to provide analytics and a platform for customer engagement. The software provides a graphic overlay using Google maps as a background to display account locations and statistics. Some key questions easily answered include:

- Who were the highest users in the last month?
- Which accounts are trending upward on usage?
- How should we sort accounts by leak flags?
- How should we sort accounts by geography?
- How should accounts be filtered into accurate groups for messaging and follow-up reporting?
- How can we generate intuitive and detailed reports quickly?

The mobile app provides alerting and a convenient tool for establishing water budgets with solutions similar to those listed above for the Aqua Hawk software.

Recent Reference: Purissima Hills Water District

Water Smart
www.watersmart.com

One of the core features of the Water Smart software is to provide residential customers with personalized water reports that motivate and enable water use efficiency. Features include:

- A personalized home WaterScore every billing period
- Social norm-based, apples-to-apples comparison of water use with similar households
- Data insights to improve understanding of water use
- Customized, water-saving recommendations
- Targeted communications regarding investments, incentives, or other important utility messages

The emphasis for the Water Smart software is providing customers with benchmarks and comparisons to others within the community with similar landscape and occupancy characteristics. Many agencies have found that relying on social norms and comparisons is one of the most effective means for reducing water usage.

Recent References: City of Sacramento, East Bay Municipal Utility District (EBMUD)

Staff Workshops

Two key workshops were held with District staff to solicit input on anticipated customer service, billing, meter reading, and related operational processes that would potentially be impacted by the installation of a new meter reading system and related meter data management (MDM) capabilities. The first workshop, held on March 10, 2015 dealt with responses to a questionnaire submitted to staff to estimate current time spent on various functions such as processing high bill complaints, addressing move-ins and move-outs, etc. A list of related Customer Service impacts are summarized below in Table 4 along with anticipated reductions in staff time associated with each process that could potentially be attributed to implementing an AMR system. Related savings in field staff time for meter reading with an AMR system is summarized below in Table 5. Similar lists of related impacts and potential savings are summarized below in Table 6 and 7 for an AMI system.

Table 4
AMR Savings Analysis

Customer Service AMR Savings Analysis			
Customer Service Processes Affected by AMR	**Approx. Staff Hours/Month**	**Estimated Percent Reduction Associated with AMR System**	**Annual Savings**
On-Cycle monthly bill processing	30	25%	$3,278
On-Cycle Bill Exception processing	15	10%	$656
Call Center Activities and Customer Interface	160	15%	$10,489
Customer High Bill Complaints	1	50%	$219
Shut-offs and Turn-ons	10	0%	$0
Move-ins and Move-outs	5	0%	$0
Disconnect Checks	5	0%	$0
Delinquent Payment Processing	80	10%	$3,497
Theft	NA	15%	$0
		Total Annual Savings	**$18,139**

Table 5
AMR Field Staff Savings Analysis

Field Staff AMR Savings Analysis		
Parameter	**Cost**	**Savings as a result of AMR**
Meter Reading	$58,608	$47,402
Other staff impacts	$11,133	$5,567
District Vehicle Mileage	-	$0
	Total Savings:	**$52,969**

Table 6
AMI Savings Analysis

Customer Service AMI Savings Analysis			
Customer Service Processes Affected by AMI and New Meters	**Approx. Staff Hours/Month**	**Estimated Percent Reduction Associated with AMI System**	**Annual Savings**
On-Cycle monthly bill processing	30	25%	$3,278
On-Cycle Bill Exception processing	15	25%	$1,639
Call Center Activities and Customer Interface	160	25%	$17,482
Customer High Bill Complaints	1	80%	$350
Shut-offs and Turn-ons	10	15%	$656
Move-ins and Move-outs	5	15%	$328
Disconnect Checks	5	100%	$2,186
Delinquent Payment Processing	80	15%	$5,245
Theft	NA	15%	$0
		Total Annual Savings	**$31,164**

Table 7
AMI Field Staff Savings Analysis

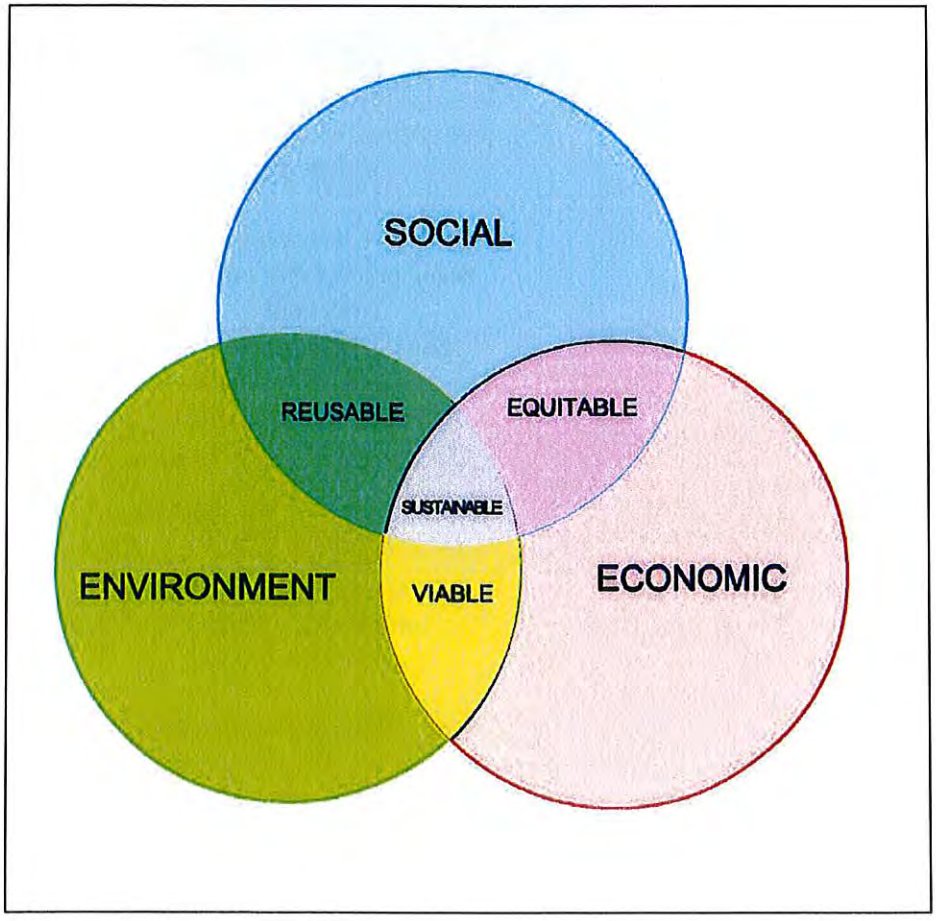
Field Staff AMI Savings Analysis		
Parameter	**Cost**	**Savings as a result of AMI**
Meter Reading	$58,608	$49,817
Other staff impacts	$11,133	$5,567
District Vehicle Mileage	-	$660.00
	Total Savings:	**$56,044**

A factor common to both AMR and AMI systems is a reduction in staff time for reading meters. In the case of an AMR system, staff will no longer need to touch each box and instead will simply need to drive within close proximity of the meter box to collect reads. Currently, the touch read process requires an average of 165 man hours per month to complete a meter reading cycle. With an AMR system it is estimated that this would be reduced to 8 hours each month. With a fixed base AMI system, the meter reading time would be virtually eliminated with the exception of re-reads that may occasionally occur. Potential for re-reads are considered a common factor to all meter reading strategies.

For estimating purposes, it is assumed that an AMR system would save approximately 157 hours per month valued at approximately $47,402 annually. Savings for an AMI system for eliminating meter reading is estimated at 165 hours per month or a savings of $49,817 annually. These savings, along with the monetary savings identified in Tables 6 and 8 above are used below in the related business case analysis for evaluating the feasibility of implementing either technology versus leaving the current touch-read system in-place.

A second workshop was held with staff on April 2, to review the non-monetary impacts that could be attributed to installing an AMI system. Some of the benefits listed would apply to both AMR and AMI technology and are noted as such in the summary worksheets found in Appendix A. This workshop was structured around three matrices designed to spur discussion and solicit feedback on what are referred to as "Triple Bottom Line" impacts. Those attributes are inter-related as presented in the Venn diagram below and they deal with the social, economic, and environmental impacts that implementing an AMI meter reading system might have on the District.

Figure 6
Triple Bottom Line Assessment Matrix



The Importance Ranking Criteria that were used to rank the impacts are presented in Table 8 below. These ranking criteria were developed based on staff input for each features listed in Tables 9, 10, and 11.

Table 8
Importance Ranking Criteria

Importance Ranking Criteria:	
1	Marginally Important
2	Should be Considered
3	High priority
4	Considered a Top Priority

The top ranking considerations from the triple bottom line discussion are presented below in Table 10 along with a brief description of the feature and notes made during Workshop No. 2 based on staff input.

Table 9
Top Ranking Considerations

TBL Category	TBL Consideration	Importance	Feature/Benefit Description	Notes
Social	Customer Service/Solutions (Leak Detection and Budgeting)	4	Two way meter communications, web portals, customer interface and alerting	Alerts can be linked to emails, automated phone calls, etc.
Social	Customer Satisfaction	4	Improved communications and billing practices for improved relations	Goal is to minimize truck rolls for customer visits
Social	Employee Satisfaction	4	Eliminating touch-read can improve employee satisfaction, minimize staff turnover rates, and reduce injury	-Frees 2 people full time from meter reading -Improves Safety -Eliminates backyard reading and dog threats
Social	Employee Changes	3	Re-allocation of staff and training on new technology	Staff can be re-allocated to proactive leak detection meter maintenance
Env./Econ	Water Use Efficiency (Conservation Programs)	3	AMI allows the district to monitor target allocations during drought conditions along with providing customers with real-time data.	Public perception of being monitored could cause concerns
Soc./Econ	Planning and Engineering	3	DMAs and usage profiles provide valuable data for infrastructure assessment	Cost to put in additional sub-metering must be considered

The highest ranking benefits for the triple bottom line matrix included enhanced customer solutions, better customer service, and improved employee satisfaction. Although these benefits are listed by a qualitative ranking only, each of these high priority items would have added monetary benefits if one were to consider the value of a satisfied customer and improved employee morale and retention.

Workshop No. 2 also included soliciting input related to potential risks that could be experienced with the adoption of new AMI meter reading technology. The top ranking considerations from the District staff perspective are listed below in Table 11 along with brief notes and mitigation measures discussed with staff.

Table 10
Top Risk Considerations

Operational Risks	Importance	Utility Implications	Notes	Mitigation Measures
Poor Vendor Performance	3	Extensive vendor support required (planning, implementation and operations)	District is dependent upon m for support	Good contract language and good vendor history of customer service should be verified in advance
Loss of "Boots on the Ground"	3	Staff will no longer be visiting each meter which reduces field awareness	Currently feedback is provided on problematic accounts by meter readers	Analytics of AMI can help mitigate the loss of boots on the ground

Lastly, in the event the District elects to install radio read transceivers and a related AMI system with MDM functions, there are issues that will be presented during the implementation and data integration phase. These impacts are expected to be minimized to some degree by relying on seasoned District personnel to deploy the MXUs over a relatively short time period. The top considerations, from the District staff's perspective, are listed below in Table 12 along with a related notes and mitigation measure for each concern.

Table 11
Top Implementation Considerations

Implementation Considerations	Importance	Utility Implications	Notes	Mitigation Measures
Software Requirements	3	Billing, utility solutions, customer solutions, third party software	Leverage available customer solutions	Interview variety of software providers and verify TruePoint billing system compatibility with new system
Procurement Process and Financing	3	Funding by performance model, bonds, existing CIP, etc. affect ROI	no debt to be issued	Grant funding potential should be explored and capital costs prioritized against other projects in the CIP
Meter Data Management Strategy	3	Third party software support, customer solutions, GIS needs, etc.	Implement appropriate third party solutions	Interview a variety of third party providers and compare service and cost to vendor provided options

Business Case Analysis

The business cases that follow include three scenarios. The first scenario considers implementing an AMR system with some limited analytics in the form of a third party software customer solution and related analytics. This case assumes that drive-by meter reading of the entire meter population can be completed in one day. Under scenario 2, an AMI system is considered with the benefits from eliminating meter reading entirely along with a full host of related process improvements as identified above in Table 7. The third scenario is an extension of scenario 2 with the added benefits of a proactive leak detection program whereby 25% of the Real Losses are recovered and an estimated 50% of the Apparent Losses are eliminated through a proactive meter testing and replacement program. A more thorough discussion on each alternative along with the corresponding capital costs, anticipated benefits, and a business case are summarized below. Each scenario includes a discount rate of 1.00%, estimated annual inflation rate and operational cost increases of 3.00%, a rate of financing of 4.00%, and a 20 year finance term. Each scenario also assumes a capital contribution of $1,000,000. This contribution may be in the form of a grant or other financing mechanism.

Alternative 1, Install AMR System and Limited MDM Software Features

Under this scenario, the existing Touch Read pads would be replaced with radio transceivers and a third party software would be implemented to provide enhanced customer solutions and meter data management. This scenario has the benefit of reducing current meter reading times from 20.5 days to being able to read all meters in one day. Because the billing data will be compiled quicker and in a cohesive database format it is anticipated this will help accommodate the successful development of third party software solutions including a customer portal and easy access and manipulation of billing data for internal process improvements. No meter register retrofits were considered with this alternative. Table 12 below presents a summary of the costs associated with implementing an AMR system while Table 13 presents an overview of the Cost Benefit Analysis. For a more detailed breakdown of the cost estimate and the cost benefit analysis see Appendix B.

Table 12
AMR Cost Summary

EGWD Preliminary Cost Estimate AMR System	
Bid Item	**Cost**
District-Wide	
AMR Implementation	$48,000
Transceiver Costs	$1,967,360
Additional Costs	$388,317
Total Cost	**$2,403,677**

Table 13
AMR Cost Benefit Analysis

EGWD AMR Cost Benefit Analysis - Alternative 1			
Project Start Date:	2015		
Total Project Cost:	$2,403,677	Discount Rate:	1.00%
City Annual Capital Contribution:	$0	Estimated Annual Rate Increase:	3%
Customer Funded Meter Contribution:	$1,000,000	Estimated Operational Cost Increases:	3%
Total Cost to Finance:	$1,403,677		
		20 year Net Present Value:	-$645,670
Rate of Financing:	4.00%	20 year Internal Rate of Return:	-4.85%
Term of Financing:	20	Simple Payback (years):	33.8

Alternative 2, AMI System without Reductions in Real and Apparent Losses

This option includes upgrading the current Touch Read system to an AMI system by installing radios in place of all existing touch read pads. The following items were taken into consideration when developing the business case:

1) Any meter that is 10 years old or older would need to be retrofitted with an updated register that is AMI compatible and capable of registering flows in 1 CF increments to facilitate AMI based leak detection. Older registers that may be AMI compatible typically only register down to 100 CF accuracy.
2) A new Transceiver would need to be installed in all 12,300 meters
3) A meter replacement program is not included in this analysis
4) Infrastructure repairs to leaking pipes are not included in this analysis
5) Leak detection or any other kind of water loss analysis is not included in this analysis

A draft cost estimate and a cost benefit analysis has been included with this study in Appendix B. A summary of the draft cost estimate and cost benefit analysis are presented below in Tables 14 and 15.

Table 14
Base AMI Cost Summary (Alternative 2)

EGWD Preliminary Cost Estimate Base AMI System	
Bid Item	**Cost**
District-Wide	
AMI Implementation	$112,250
Register Retrofit Costs	$476,805
Transceiver Costs	$1,967,360
Additional Costs	$489,918
Total Cost	**$3,046,333**

Table 15
Base AMI Cost Benefit Analysis (Alternative 2)

EGWD Base AMI Cost Benefit Analysis - Alternative 2			
Project Start Date:	2015		
Total Project Cost:	$3,046,333	Discount Rate:	1.00%
City Annual Capital Contribution:	$0	Estimated Annual Rate Increase:	3%
Customer Funded Meter Contribution:	$1,000,000	Estimated Operational Cost Increases:	3%
Total Cost to Finance:	$2,046,333		
		20 year Net Present Value:	-$1,103,544
Rate of Financing:	4.00%	20 year Internal Rate of Return:	-4.55%
Term of Financing:	20	Simple Payback (years):	34.9

Alternative 3, Install AMI Concurrent with Proactive Leak Detection and Meter Accuracy Improvements

This alternative includes the same options as identified for Scenario 2 with the addition of the following items:

1) Implementing a proactive leak detection program with a goal of reducing Real Losses by a minimum of 25%. The estimated added benefits for this component is valued at 25% of the value of assumed Real Losses for Service Areas 1 and 2 combined.

2) Strategically replacing meters with high historical usage and meters in conjunction with a proactive meter targeting, testing, and replacement program with the goal of eliminating 50% of the Apparent Losses. The estimated added benefits for this component is valued 50% of the value of assumed Apparent Losses for Service Areas 1 and 2 combined.

A draft cost estimate and a cost benefit analysis has been included with this study in Appendix B. A summary of the draft cost estimate and cost benefit analysis are presented below in Tables 16 and 17.

The cost of upgrading to an AMI system and reducing losses is estimated at approximately $3.2 M and the simple payback based on operational efficiency gains, increased revenues, and recovered water is 17.0 years.

Table 16
AMI Cost Summary (Alternative 3)

EGWD Preliminary Cost Estimate Full AMI System	
Bid Item	**Cost**
District-Wide	
AMI Implementation	$112,250
Meter Installation	$95,040
Register Retrofit Costs	$476,805
Transceiver Costs	$1,967,360
Additional Costs	$507,500
Total Cost	**$3,158,955**

Table 17
AMI Cost Benefit Analysis (Alternative 3)

EGWD Full AMI Project Cost Benefit Analysis - Alternative 3			
Project Start Date:	2015		
Total Project Cost:	$3,158,955	Discount Rate:	1.00%
City Annual Capital Contribution:	$0	Estimated Annual Rate Increase:	3%
Customer Funded Meter Contribution:	$1,000,000	Estimated Operational Cost Increases:	3%
Total Cost to Finance:	$2,158,955		
		20 year Net Present Value:	$969,124
Rate of Financing:	4.00%	20 year Internal Rate of Return:	3.64%
Term of Financing:	20	Simple Payback (years):	17.0

Benefits of AMI on Water Conservation

AMI facilitates water conversation through a two-fold approach, one focused on improved utility operations and a second that is based in increased customer awareness. When coupled with the appropriate meter data management software capabilities, AMI provides powerful tools for water purveyors to look at the system as a whole, easily identify anomalies, and manage water losses in real time. By employing a customer portal with alerting capabilities, customers are able to quickly analyze their individual water use, set targets, and improve their overall awareness of behavioral impacts on water use.

Real time consumption data can be analyzed by the water utility to compare differences between system input volume and customer consumption while using this same data for a variety of other enterprise-wide solutions. The proliferation of real time data allows investigations to be conducted to pinpoint where the Real or Apparent losses are occurring while identifying locations where the system is stressed throughout daily operations. Policies aimed at reducing water use during critical irrigation periods can be readily analyzed and enforced using AMI by comparing base line consumption with irrigation use and easily flagging accounts in violation of target consumption goals and drought response programs.

The ability to record hourly data is exclusive to AMI technology. Unlike AMR which only provides one monthly read, the more granular AMI data provides customers with the ability to truly understand daily consumption patterns. The benefits of this improved customer engagement have less tangible metrics to assign, although these should not be discounted. Most individuals are concerned with water conservation and the analytics provided by AMI allows them to address their water consumption throughout the day as compared to a monthly snapshot. Customer complaints of high water bills are often more easily resolved. By providing actual data related to consumption for irrigation, showering or other habits the related behaviors can be revised in response.

Conclusions and Recommendations

AMI is becoming the industry standard for efficient water utility operations. This has become increasingly evident in the recent drought experienced in California. A well operating, fully configured AMI system and related software can drive efficiencies and facilitate water conservation at both the utility and customer level. Utilities are more able to track consumption for each account and customers are provided with in-depth insights into their daily consumption profile. Given the importance of measuring and tracking water usage, minimizing losses, and increasing efficiencies, it is recommended that the District consider implementing an AMI project.

When compared to many similar sized utilities, the EGWD meter reading, customer service, and field crews are operating relatively effectively using the existing touch-read system. The preliminary water audits, field investigations, and staff workshops indicate that improvements can be made through improved meter reading to reduce non-revenue water and improve operational efficiency. The three business cases presented above produced similar rates of return and simple payback periods for the AMR (Scenario 1) and AMI (Scenario 2) alternatives, both of which have payback periods in the range of 30 years which exceeds the useful life of the equipment. To the extent the District elects to factor in reductions in both Apparent and Real Losses, along with corresponding monetary benefits, the rate of return and payback period for AMI are more favorable. A summary of the financial analysis for each of the three alternatives considered in presented below in Table 18.

Table 18
Summary of Benefit Cost Analysis

EGWD Summary of Benefit Cost Analysis					
Scenario	**Capital Cost**	**Annual Benefit**	**NPV**	**IRR**	**Simple Payback**
1	$2,403,677	$71,108	-$645,670	-4.85%	33.8
2	$3,046,333	$87,208	-$1,103,544	-4.55%	34.9
3	$3,158,955	$185,924	$969,124	3.64%	17.0

As indicated above, installing AMR has lower capital costs than either of the two AMI options which is expected. The relatively high difference in cost between Scenarios 1 and 2 ($642,656) is due to both the added cost for AMI infrastructure and, more importantly, the added cost to retrofit an estimated 5,019 registers in order to have solid state registers with 1 cubic foot accuracy on all existing meters. This added cost for register retrofits, estimated at $476,805, was determined based on the install date being more than 10 years old as obtained from the District's GIS data. Additional confirmation of the number of existing mechanical registers should be completed along with verification of the District's commitment to having leak detection down to 1 cubic foot accuracy. Replacing these older registers concurrent with the endpoint installation is recommended since there will be economy of scale for both labor and materials.

It is recommended that the district implement Alternative 2 or 3 for an AMI system to leverage the benefits of analytics it provides. Alternative 3 includes both higher capital costs and added benefits from replacing aging meters that are currently out of warranty or inappropriately typed or maintained

along with actively reducing water losses through a combination of leveraging AMI technology and implementing proactive leak detection to repair leaking pipes. Despite the higher capital costs, the added benefits with Scenario 3 result in more favorable financial performance indicators by reducing water losses (Real and Apparent) while reaping the non-monetary benefits identified in the Tables 10, 11, and 12 above during Workshop No. 2.

The business cases reflected above include a negative number for the net present value for alternatives 1 and 2 along with a negative return on investment for both alternative 1 and 2 when assessing these options from a net cash flow perspective. Alternative 3 includes a positive rate of return of 20 year net present value of $969,124 indicating it would be a viable investment from a financial perspective provided the added benefits associated with reducing non-revenue water are realized.

Aside from the monetary implications presented in the business cases above, the District should include weighing the more qualitative social, economic, and environmental factors when determining the viability of either option. When coupled with the goals of minimizing water losses, improving employee retention, and increasing customer satisfaction, there is a good case for moving forward with an AMI installation. The project viability can be improved to the extent costs are reduced through a combination of possible grant funding, reductions in installation costs from endpoint installation by District crews, and other non-monetary benefits.

Appendices

APPENDIX A

Triple Bottom Line Evaluation Matrix

Elk Grove Water District
AMI Evaluation Matrix

Triple Bottom Line Evaluation

TBL Category	TBL Consideration	Importance	Feature/Benefit Description	Notes	Mitigation Measures
Social	Customer Service/Solutions (Leak Detection and Budgeting)	4	Two way meter communications, web portals, customer interface and alerting	Alerting Access-email,phone call	
Social	Customer Satisfaction	4	Improved communications and billing practices for improved relations	Reduce visit time to houses	
Social	Employee Satisfaction	4	Eliminating touch-read can improve employee satisfaction and reduce injury	Frees 2 people full time meter reading Improves Safety-Backyard Reading-Dogs	
Social	Employee Changes	3	Re-allocation of staff and training on new technology will be needed	Leak Detection Meter Maintenance	
Environmental	GHG/CO2 Reductions	1	Greenhouse gas reductions available by reducing driving and water losses	On foot or bicycle	
Env./Econ	Water Use Efficiency (Leak Detection)	1	Leak detection can be deployed with AMI for monitoring and tracking Real Losses in the system	Stand alone leak detection may be more viable	
Env./Econ	Water Use Efficiency (Conservation Programs)	3	AMI can be used to monitor target allocations during drought conditions	Public perception of being monitored	
Soc./Econ	Planning and Engineering	3	DMAs and usage profiles provide valuable data for infrastructure assessment	Cost to put in additional sub-metering	
Soc./Econ	Rate Case Analysis	2	Detailed usage information can be used to set optimal rate policies	Future potential but not current	

Importance Ranking Criteria:		
	1	Marginally Important
	2	Should be Considered
	3	High priority
	4	Considered a Top Priority

Elk Grove Water District
AMI Evaluation Matrix

Operations Risk Review

Operational Risks	Importance	Utility Implications	Notes	Mitigation Measures
Staff Re-allocation	1	Reduction in meter reading time and customer call center activities	Fear of job displacement	Meter Readers are cross-trained Potential benefits
Loss of Meter Equipment Diversity	2	AMI/AMR requires on-going commitment to a specific vendor	For established vendors/lower risk	
Lack of Customer Buy-in	2	Threat of customer fears (i.e. PG&E history with issues on radio reading)	Risk tempered by drought	
IT/Data Reconciliation Workload	4	Increased data management and IT workload can be expected	Currently Contracted	Potentially transfer to full time position
Radio Transmission Errors	2	Not all radios will be read due to transmission errors	Technology dependent	Appropriate propagation study Radio communication strategy
Poor Vendor Performance	3	Extensive vendor support required (planning, implementation and operations)	Dependent upon other parties for support	Good contract language Good vendor history of customer service
Loss of "Boots on the Ground"	3	Staff will no longer be visiting each meter which reduces field awareness	Currently feedback is provided on problematic accounts	Analytics of AMI can offset
AMI Vendor Company Viability	2	Company solvency and major long-term consideration with a 20 year min. term	Vendor dependent	Contract with stable company

Importance Ranking Criteria:		
	1	Marginally Important
	2	Should be Considered
	3	High priority
	4	Considered a Top Priority

Elk Grove Water District
AMI Evaluation Matrix

Implementation Considerations

Implementation Considerations	Importance	Utility Implications	Notes	Mitigation Measures
Implementation Strategy/Schedule	2	Time to implement and contractor vs. staff installation	In house crews to implement	Appropriate training/freeing up staff
Meter Compatibility	1	Register compatibility, boxes, lids, etc.	Largely AMI compatible	
Performance Requirements	2	Vendor qualifications, propagation study, reading accuracy, etc.	Flat terrain conducive to good radio propagation	
Software Requirements	3	Billing, utility solutions, customer solutions, third party software	Leverage available customer solutions	Interview variety of software providers Investigate Truepoint compatibility with reading
RFP and Bid Requirements	2	Sole source vs. competitive bidding, agency vs. contractor responsibilities	Minimized by staff labor and existing legacy systems	add or equal language to contracts
Procurement Process and Financing	3	Funding by performance model, bonds, existing CIP, etc. affect ROI	no debt to be issued	Grant funding potential Prioritized against other projects in the CIP
Process and Performance Review	2	Quality control and integration requirements	minimized by utilizing in-house staff	
Installation Schedule and Controls	1	Project duration and integration period affects ROI and impacts operations	High-performance in-house crews to do install	Financial concerns dominate timing
Network Design	1	Hosted vs. non-hosted, new computers and servers, etc. must be determined	Recommend hosted service	Verify firewall and security and consider hosted costs.
Meter Data Management Strategy	3	Third party software support, customer solutions, GIS needs, etc.	Implement appropriate	
Construction/Installation	1	Contractor requirements and support	self-install	
Contract Management	1	Outside CM needs, staff commitment, etc.	in house ta	

Importance Ranking Criteria:		
	1	Marginally Important
	2	Should be Considered
	3	High priority
	4	Considered a Top Priority

APPENDIX B

Cost Benefit Analysis

APPENDIX B-1

AMR Cost Benefit Analysis

EGWD Preiminary Cost Estimate
AMR System

Bid Item	Res/ Com	Quantity (EA.)	Unit Price Material/Installation		Cost
City-Wide					
VGB (Hardware, Software, GPS Mapping)	Res/Com	1	$45,000		$45,000
Annual Support	Res/Com	LS	$1,900		$1,900
AMR Training	Res/Com	LS	$1,100		$1,100
Service Area 1 and 2					
Transceiver	Res/Com	12,296	$135	$25	$1,967,360
			Sub-Total Cost		**$2,015,360**
Materials Tax[1] (8.00%)					$136,397.00
Engineering/Project Management (7.5%)					$151,152.00
Contingency (5%)					$100,768.00
			Total Cost		**$2,403,677**

[1] Based on City of EGWD 2014 Sales Tax. Cost only factored on Materials

EGWD AMR Cost Benefit Analysis - Alternative 1

Project Start Date:	2015		
Total Project Cost:	$2,403,677 (see note 5)	Discount Rate:	1.00%
City Annual Capital Contribution:	$0	Estimated Annual Rate Increase:	3%
Customer Funded Meter Contribution:	$1,000,000	Estimated Operational Cost Increases:	3%
Total Cost to Finance:	$1,403,677		
		20 year Net Present Value:	-$645,670
Rate of Financing:	4.00%	20 year Internal Rate of Return:	-4.85%
Term of Financing:	20	Simple Payback (years):	33.8

Year	Capital (1)	Water Revenue Increase (2)	Operational Savings (3)	Leak Detection Savings (4)	Total Annual Benefits	Annual Debt Service	Ongoing Server and Maintenance Fees(6)	Total Annual Cost	Net Present Cash Flow	Cummulative Cash Flow	Year
1	$0	$0	$71,108	$0	$71,108	$103,285	$20,000	$123,285	-$52,177	-$52,177	2015
2	$0	$0	$73,241	$0	$73,241	$103,285	$20,600	$123,885	-$50,644	-$102,821	2016
3	$0	$0	$75,438	$0	$75,438	$103,285	$21,218	$124,503	-$49,065	-$151,885	2017
4	$0	$0	$77,702	$0	$77,702	$103,285	$21,855	$125,140	-$47,438	-$199,323	2018
5	$0	$0	$80,033	$0	$80,033	$103,285	$22,510	$125,795	-$45,763	-$245,086	2019
6	$0	$0	$82,434	$0	$82,434	$103,285	$23,185	$126,471	-$44,037	-$289,123	2020
7	$0	$0	$84,907	$0	$84,907	$103,285	$23,881	$127,166	-$42,259	-$331,382	2021
8	$0	$0	$87,454	$0	$87,454	$103,285	$24,597	$127,883	-$40,429	-$371,811	2022
9	$0	$0	$90,077	$0	$90,077	$103,285	$25,335	$128,620	-$38,543	-$410,354	2023
10	$0	$0	$92,780	$0	$92,780	$103,285	$26,095	$129,381	-$36,601	-$446,954	2024
11	$0	$0	$95,563	$0	$95,563	$103,285	$26,878	$130,163	-$34,600	-$481,555	2025
12	$0	$0	$98,430	$0	$98,430	$103,285	$27,685	$130,970	**-$32,540**	-$514,094	2026
13	$0	$0	$101,383	$0	$101,383	$103,285	$28,515	$131,800	**-$30,417**	-$544,512	2027
14	$0	$0	$104,424	$0	$104,424	$103,285	$29,371	$132,656	**-$28,231**	-$572,743	2028
15	$0	$0	$107,557	$0	$107,557	$103,285	$30,252	$133,537	**-$25,980**	-$598,722	2029
16	$0	$0	$110,784	$0	$110,784	$103,285	$31,159	$134,444	**-$23,660**	-$622,383	2030
17	$0	$0	$114,107	$0	$114,107	$103,285	$32,094	$135,379	**-$21,272**	-$643,655	2031
18	$0	$0	$117,531	$0	$117,531	$103,285	$33,057	$136,342	**-$18,811**	-$662,466	2032
19	$0	$0	$121,057	$0	$121,057	$103,285	$34,049	$137,334	**-$16,277**	-$678,743	2033
20	$0	$0	$124,688	$0	$124,688	$103,285	$35,070	$138,355	**-$13,667**	-$692,410	2034
21	$0	$0	$128,429	$0	$128,429	$103,285	$36,122	$139,407	**-$10,978**	-$703,388	2035

Notes and Preliminary Savings Related Assumptions:

(1) $1,000,000 capital infusion is included.

(2) This analysis assumes no water revenue increases

(3) Operational savings assume $52,969 in field staff savings. Other misc. savings include savings related to reducing re-reads, improved billing related services, and other related savings.

(4) No Leak Detection related savings or revenue increase from improved meter accuracy was assumed in this analysis.

(5) The total project cost is based on installing 12,296 new Transceivers. A VGB is included in the cost along with training, computer software, and hardware.

(6) Costs to be verified subsequent to vendor prices that will need to be verified in response to a future replacement project RFP.

APPENDIX B-2

Base AMI Cost Benefit Analysis

EGWD Preiminary Cost Estimate
Base AMI System

Bid Item	Res/ Com	Quantity (EA.)	Unit Price		Cost
			Materials	Installation	
City-Wide					
AMI Collector (Base Station)	Res/Com	1	$33,000	$25,000	$58,000
AMI Hardware (ECHO)	Res/Com	2	$5,000	$1,800	$13,600
AMI Software	Res/Com	1	$33,750		$33,750
AMI Training	Res/Com	1	$6,900		$6,900
Service Area 1 & 2					
<=1-inch Register Replacement	Res/Com	4,878	$85	$10	$463,410
1.5-inch Register Replacement	Res/Com	39	$85	$10	$3,705
2-inch Register Replacement	Res/Com	88	$85	$10	$8,360
3-inch Register Replacement	Res/Com	2	$85	$10	$190
4-inch Register Replacement	Res/Com	9	$85	$10	$855
6-inch Register Replacement	Res/Com	2	$85	$10	$190
8-inch Register Replacement	Res/Com	1	$85	$10	$95
Transceiver	Res/Com	12,296	$135	$25	$1,967,360
Sub-Total Cost - Service Area 1 and 2					**$2,444,165**

Sub-Total Cost	**$2,556,415**
Materials Tax[1](8.00%)	$170,366.00
Engineering/Project Management (7.5%)	$191,731.13
Contingency (5%)	$127,820.75
Total Cost	**$3,046,333**

[1]Based on City of EGWD 2014 Sales Tax. Cost only factored on Materials

EGWD Base AMI Cost Benefit Analysis - Alternative 2

Project Start Date:	2015		
Total Project Cost:	$3,046,333 (see note 5)	Discount Rate:	1.00%
City Annual Capital Contribution:	$0	Estimated Annual Rate Increase:	3%
Customer Funded Meter Contribution:	$1,000,000	Estimated Operational Cost Increases:	3%
Total Cost to Finance:	$2,046,333		
		20 year Net Present Value:	-$1,103,544
Rate of Financing:	4.00%	20 year Internal Rate of Return:	-4.55%
Term of Financing:	20	Simple Payback (years):	34.9

Year	Capital (1)	Water Revenue Increase (2)	Operational Savings (3)	Leak Detection Savings (4)	Total Annual Benefits	Annual Debt Service	Ongoing Server and Maintenance Fees(6)	Total Annual Cost	Net Present Cash Flow	Cummulative Cash Flow	Year
1	$0	$0	$87,208	$0	$87,208	$150,573	$20,000	$170,573	-$83,365	-$1,083,365	2015
2	$0	$0	$89,824	$0	$89,824	$150,573	$20,600	$171,173	-$81,349	-$1,164,713	2016
3	$0	$0	$92,519	$0	$92,519	$150,573	$21,218	$171,791	-$79,272	-$1,243,985	2017
4	$0	$0	$95,295	$0	$95,295	$150,573	$21,855	$172,427	-$77,133	-$1,321,118	2018
5	$0	$0	$98,153	$0	$98,153	$150,573	$22,510	$173,083	-$74,930	-$1,396,048	2019
6	$0	$0	$101,098	$0	$101,098	$150,573	$23,185	$173,758	-$72,660	-$1,468,708	2020
7	$0	$0	$104,131	$0	$104,131	$150,573	$23,881	$174,454	-$70,323	-$1,539,031	2021
8	$0	$0	$107,255	$0	$107,255	$150,573	$24,597	$175,170	-$67,915	-$1,606,946	2022
9	$0	$0	$110,472	$0	$110,472	$150,573	$25,335	$175,908	-$65,436	-$1,672,382	2023
10	$0	$0	$113,787	$0	$113,787	$150,573	$26,095	$176,668	-$62,882	-$1,735,264	2024
11	$0	$0	$117,200	$0	$117,200	$150,573	$26,878	$177,451	**-$60,251**	-$1,795,514	2025
12	$0	$0	$120,716	$0	$120,716	$150,573	$27,685	$178,257	**-$57,541**	-$1,853,056	2026
13	$0	$0	$124,338	$0	$124,338	$150,573	$28,515	$179,088	**-$54,750**	-$1,907,806	2027
14	$0	$0	$128,068	$0	$128,068	$150,573	$29,371	$179,943	**-$51,876**	-$1,959,681	2028
15	$0	$0	$131,910	$0	$131,910	$150,573	$30,252	$180,825	**-$48,915**	-$2,008,596	2029
16	$0	$0	$135,867	$0	$135,867	$150,573	$31,159	$181,732	**-$45,865**	-$2,054,461	2030
17	$0	$0	$139,943	$0	$139,943	$150,573	$32,094	$182,667	**-$42,724**	-$2,097,185	2031
18	$0	$0	$144,142	$0	$144,142	$150,573	$33,057	$183,630	**-$39,488**	-$2,136,673	2032
19	$0	$0	$148,466	$0	$148,466	$150,573	$34,049	$184,621	**-$36,156**	-$2,172,829	2033
20	$0	$0	$152,920	$0	$152,920	$150,573	$35,070	$185,643	**-$32,723**	-$2,205,552	2034

Notes and Preliminary Savings Related Assumptions:

(1) $1,000,000 capital infusion is included.

(2) Water related revenue increases were not factored in for this analysis.

(3) Operational savings assume $56,044 in field staff savings. Other misc. savings include savings related to reducing re-reads, improved billing related services, and other related savings.

(4) No Leak Detection related savings or revenue increase from improved meter accuracy was assumed in this analysis.

(5) The total project cost is based on installing 5,019 new AMI compatible registers along with 12,296 new radio transmitters on all meters. One antenna for reading meters and related meter data management software also included.

(6) Costs to be verified subsequent to vendor prices that will need to be verified through a future replacement project RFP.

APPENDIX B-3

Full AMI Cost Benefit Analysis

EGWD Preiminary Cost Estimate
AMI System with Targeted Meter Replacement

Bid Item	Res/ Com	Quantity (EA.)	Unit Price		Cost
			Materials	Installation	
City-Wide					
AMI Collector (Base Station)	Res/Com	1	$33,000	$25,000	$58,000
AMI Hardware (ECHO)	Res/Com	2	$5,000	$1,800	$13,600
AMI Software	Res/Com	1	$33,750		$33,750
AMI Training	Res/Com	1	$6,900		$6,900
Service Area 1 & 2					
1-inch Meter Replacement	Res/Com	432	$165	$55	$95,040
<=1-inch Register Replacement	Res/Com	4,878	$85	$10	$463,410
1.5-inch Register Replacement	Res/Com	39	$85	$10	$3,705
2-inch Register Replacement	Res/Com	88	$85	$10	$8,360
3-inch Register Replacement	Res/Com	2	$85	$10	$190
4-inch Register Replacement	Res/Com	9	$85	$10	$855
6-inch Register Replacement	Res/Com	2	$85	$10	$190
8-inch Register Replacement	Res/Com	1	$85	$10	$95
Transceiver	Res/Com	12,296	$135	$25	$1,967,360
Sub-Total Cost - Service Area 1 & 2					**$2,539,205**

Sub-Total Cost	**$2,651,455**
Materials Tax[1](8.00%)	$176,068.00
Engineering/Project Management (7.5%)	$198,859.13
Contingency (5%)	$132,572.75
Total Cost	**$3,158,955**

[1]Based on City of EGWD 2014 Sales Tax. Cost only factored on Materials

EGWD Full AMI Project Cost Benefit Analysis - Alternative 3

Project Start Date:	2015		
Total Project Cost:	$3,158,955	Discount Rate:	1.00%
City Annual Capital Contribution:	$0	Estimated Annual Rate Increase:	3%
Customer Funded Meter Contribution:	$1,000,000	Estimated Operational Cost Increases:	3%
Total Cost to Finance:	$2,158,955		
		20 year Net Present Value:	$969,124
Rate of Financing:	4.00%	20 year Internal Rate of Return:	3.64%
Term of Financing:	20	Simple Payback (years):	17.0

Year	Capital (1)	Water Increase (2)	Operational Savings (3)	Leak Detection Savings (4)	Total Annual Benefits	Annual Debt Service	Ongoing Server and Maintenance Fees(6)	Total Annual Cost	Net Present Cash Flow	Cummulative Cash Flow	Year
1	$0	$73,916	$87,208	$24,800	$185,924	$158,860	$20,000	$178,860	$7,064	$7,064	2015
2	$0	$76,133	$89,824	$24,800	$190,758	$158,860	$20,600	$179,460	**$11,298**	$18,362	2016
3	$0	$78,417	$92,519	$24,800	$195,736	$158,860	$21,218	$180,078	**$15,659**	$34,021	2017
4	$0	$80,770	$95,295	$24,800	$200,865	$158,860	$21,855	$180,714	**$20,150**	$54,171	2018
5	$0	$83,193	$98,153	$24,800	$206,146	$158,860	$22,510	$181,370	**$24,777**	$78,948	2019
6	$0	$85,689	$101,098	$24,800	$211,587	$158,860	$23,185	$182,045	**$29,542**	$108,490	2020
7	$0	$88,260	$104,131	$24,800	$217,190	$158,860	$23,881	$182,741	**$34,450**	$142,939	2021
8	$0	$90,907	$107,255	$24,800	$222,962	$158,860	$24,597	$183,457	**$39,505**	$182,444	2022
9	$0	$93,635	$110,472	$24,800	$228,907	$158,860	$25,335	$184,195	**$44,712**	$227,156	2023
10	$0	$96,444	$113,787	$24,800	$235,030	$158,860	$26,095	$184,955	**$50,075**	$277,231	2024
11	$0	$99,337	$117,200	$24,800	$241,337	$158,860	$26,878	$185,738	**$55,599**	$332,830	2025
12	$0	$102,317	$120,716	$24,800	$247,833	$158,860	$27,685	$186,544	**$61,289**	$394,119	2026
13	$0	$105,387	$124,338	$24,800	$254,524	$158,860	$28,515	$187,375	**$67,149**	$461,269	2027
14	$0	$108,548	$128,068	$24,800	$261,416	$158,860	$29,371	$188,230	**$73,186**	$534,454	2028
15	$0	$111,805	$131,910	$24,800	$268,515	$158,860	$30,252	$189,112	**$79,403**	$613,857	2029
16	$0	$115,159	$135,867	$24,800	$275,826	$158,860	$31,159	$190,019	**$85,807**	$699,664	2030
17	$0	$118,613	$139,943	$24,800	$283,357	$158,860	$32,094	$190,954	**$92,403**	$792,067	2031
18	$0	$122,172	$144,142	$24,800	$291,113	$158,860	$33,057	$191,917	**$99,197**	$891,264	2032
19	$0	$125,837	$148,466	$24,800	$299,103	$158,860	$34,049	$192,908	**$106,194**	$997,458	2033
20	$0	$129,612	$152,920	$24,800	$307,332	$158,860	$35,070	$193,930	**$113,402**	$1,110,860	2034
21	$0	$133,501	$157,507	$24,800	$315,808	$158,860	$36,122	$194,982	**$120,826**	$1,231,686	2035

Notes and Preliminary Savings Related Assumptions:

(1) $1,000,000 capital infusion is included.

(2) Water related revenue increases assumes meter accuracy improvements (50% of Apparent Losses from AWWA Water Audit).

(3) Operational savings assume $56,044 in field staff savings. Other misc. savings include savings related to reducing re-reads, improved billing related services, and other related savings.

(4) Leak detection related annual savings assumes 25% of the real losses identified in the AWWA water audit are identified and repaired.

(5) The total project cost is based on installing 5,019 new AMI compatible registers along with 12,296 new radio transmitters on all meters. One antenna for reading meters and related meter data management software also included.

(6) Costs to be verified subsequent to vendor prices that will need to be verified through a future replacement project RFP.

APPENDIX C

Warranty Information

Sensus Limited Warranty

I. General Product Coverage

Sensus USA Inc. ("Sensus") warrants its products and parts to be free from defects in material and workmanship for one (1) year from the date of Sensus shipment and as set forth below. All products are sold to customer ("Customer") pursuant to Sensus' Terms of Sale, available at: sensus.com/TC ("Terms of Sale").

II. SR II® and accuSTREAM ™5/8", 3/4" & 1" Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for five (5) years from the date of Sensus shipment or until the registration shown below, whichever occurs first. Sensus further warrants that the SR II meter will perform to at least AWWA Repaired Meter Accuracy Standards for fifteen (15) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

	New Meter Accuracy	Repair Meter Accuracy
5/8" SR II Meter and accuSTREAM Meter	500,000 gallons	1,500,000 gallons
3/4" SR II Meter and accuSTREAM Meter	750,000 gallons	2,250,000 gallons
1" SR II Meter and accuSTREAM Meter	1,000,000 gallons	3,000,000 gallons

III. SR® 5/8", 3/4" & 1" Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment. Sensus further warrants that the 5/8", 3/4" and 1" SR meter will perform to at least AWWA Repaired Meter Accuracy Standards for fifteen (15) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

	Repair Meter Accuracy
5/8" SR Meter	1,500,000 gallons
3/4" SR Meter	2,250,000 gallons
1" SR Meter	3,000,000 gallons

IV. SR 1-1/2" & 2"...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment. Sensus further warrants that the 1-1/2" and 2" SR meter will perform to at least AWWA Repaired Meter Accuracy Standards for ten (10) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

	Repair Meter Accuracy
1-1/2" SR	5,000,000 gallons
2" SR	8,000,000 gallons

V. PMM® 5/8", 3/4", 1" Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment. Sensus further warrants that the 5/8", 3/4", and 1" PMM meter will perform to at least AWWA Repaired Meter Accuracy Standards for fifteen (15) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

	Repair Meter Accuracy
5/8" PMM	1,500,000 gallons
3/4" PMM	2,000,000 gallons
1" PMM	3,000,000 gallons

VI. PMM 1-1/2", 2" Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment. Sensus further warrants that the 1-1/2", and 2" PMM meter will perform to at least AWWA Repaired Meter Accuracy Standards for ten (10) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

	Repair Meter Accuracy
1-1/2" PMM	5,000,000 gallons
2" PMM	8,000,000 gallons

VII. iPERL™ Water Management Systems...

that register water flow are warranted to perform to the accuracy levels set forth in the iPERL Water Management System Data Sheet available at sensus.com/iperl/datasheet or by request from 1-800-METER-IT, for twenty (20) years from the date of Sensus shipment. The iPERL System warranty does not include the external housing.

VIII. Maincase...

of the SR, SR II and PMM in both standard and low lead alloy meters are warranted to be free from defects in material and workmanship for twenty-five (25) years from the date of Sensus shipment. Composite and E-coated maincases will be free from defects in material and workmanship for fifteen (15) years from the date of Sensus shipment.

IX. Sensus "W" Series Turbo Meters, OMNI™ Meters and Propeller Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment.

X. Sensus accuMAG™ Meters...

are warranted to be free from defects in material and workmanship, under normal use and service, for 18 months from the date of Sensus shipment or 12 months from startup, whichever occurs first.

XI. Sensus Registers...

are warranted to be free from defects in material and workmanship from the date of Sensus shipment for the periods stated below or until the applicable registration for AWWA Repaired Meter Accuracy Standards, as set forth above, are surpassed, whichever occurs first:

5/8" thru 2" SR, SR II, PMM, accuSTREAM Standard Registers	25 years
5/8" thru 2" SR, SR II, PMM, accuSTREAM Encoder Registers	10 years
Electronic Communication Index (ECI)	10 years
All HSPU, IMP Contactor, R.E.R. Elec. ROFI	1 year
Standard and Encoder Registers for:"W" Turbo and Propeller Meters	1 year
OMNI Register with Battery	10 years

XII. Sensus Electric Meters...

are warranted to be free from defects in material and workmanship for one (1) year from the date of Sensus shipment. Spare parts and components are warranted to be free from defects in material and workmanship for one (1) year from the date of Sensus shipment.

Repaired or refurbished equipment repaired by Sensus is warranted to be free from defects in material and workmanship for ninety (90) days from the date of Sensus shipment or for the time remaining on the original warranty period, whichever is longer.

XIII. Batteries, iPERL System Components, AMR and FlexNet™ System AMI Interface Devices...

are warranted to be free from defects in material and workmanship from the date of Sensus shipment for the period stated below:

Electronic TouchPad	10 years
RadioRead® MXU (Model 505C, 510R or 520R) and Batteries	20 years*
Act-Pak® Instrumentation	1 year
TouchRead® Coupler and AMR Equipment	1 year
FlexNet Water or Gas SmartPoint™ Modules and Batteries	20 years*
Hand Held Device	1 year
Vehicle Gateway Base Station	1 year
FlexNet Base Station (including the Metro and M400 base stations)	1 year
Echo Transceiver	1 year
Remote Transceiver	1 year
iConA and FlexNet Electricity SmartPoint Module	1 year
iPERL System Battery and iPERL System Components	20 years*
Residential Electronic Register	20 years*

* Sensus will repair or replace non-performing:

- RadioRead® MXU (Model 505C, 510R and 520R) and Batteries,
- FlexNet Water or Gas SmartPoint Modules (configured to the factory setting of six transmissions per day under normal system operation of up to one demand read to each SmartPoint Module per month and up to two firmware downloads during the life of the product) and batteries,
- Residential Electronic Register with hourly reads, and
- iPERL System Batteries, and/or the iPERL System flowtube, the flow sensing and data processing assemblies, and the register ("iPERL System Components") with hourly reads

at no cost for the first ten (10) years from the date of Sensus shipment, and for the remaining ten (10) years, at a prorated percentage, applied towards the published list prices in effect for the year product is accepted by Sensus under warranty conditions according to the following schedule:

Years	Replacement Price	Years	Replacement Price
1 – 10	0%	16	55%
11	30%	17	60%
12	35%	18	65%
13	40%	19	70%
14	45%	20	75%
15	50%	>20	100%

Note: Software supplied and licensed by Sensus is warranted according to the terms of the applicable software license agreement. Sensus warrants that network and monitoring services shall be performed in a professional and workmanlike manner.

XIV. Return...

Sensus' obligation, and Customer's exclusive remedy, under this Sensus Limited Warranty is, at Sensus' option, to either (i) repair or replace the product, provided the Customer (a) returns the product to the location designated by Sensus within the warranty period; and (b) prepays the freight costs both to and from such location; or (ii) deliver replacement components to the Customer, provided the Customer installs, at its cost, such components in or on the product (as instructed by Sensus), provided, that if Sensus requests, the Customer (a) returns the product to the location designated by Sensus within the warranty period; and (b) prepays the freight costs both to and from such location. In all cases, if Customer does not return the product within the time period designated by Sensus, Sensus will invoice, and Customer will pay within thirty days of the invoice date, for the cost of the replacement product and/or components.

The return of products for warranty claims must follow Sensus' Returned Materials Authorization (RMA) procedures. Water meter returns must include documentation of the

8601 Six Forks Road, Suite 700
Raleigh, NC 27615
1-800-638-3748

Customer's test results. Test results must be obtained according to AWWA standards and must specify the meter serial number. The test results will not be valid if the meter is found to contain foreign materials. If Customer chooses not to test a Sensus water meter prior to returning it to Sensus, Sensus will repair or replace the meter, at Sensus' option, after the meter has been tested by Sensus. The Customer will be charged Sensus' then current testing fee. Sensus SmartPoints modules and MXU's returned must be affixed with a completed return evaluation label. For all returns, Sensus reserves the right to request meter reading records by serial number to validate warranty claims.

For products that have become discontinued or obsolete ("Obsolete Product"), Sensus may, at its discretion, replace such Obsolete Product with a different product model ("New Product"), provided that the New Product has substantially similar features as the Obsolete Product. The New Product shall be warranted as set forth in this Sensus Limited Warranty.

THIS SECTION XIV SETS FORTH CUSTOMER'S SOLE REMEDY FOR THE FAILURE OF THE PRODUCTS, SERVICES OR LICENSED SOFTWARE TO CONFORM TO THEIR RESPECTIVE WARRANTIES.

XV. Warranty Exceptions and No Implied Warranties...

This Sensus Limited Warranty does not include costs for removal or installation of products, or costs for replacement labor or materials, which are the responsibility of the Customer. The warranties in this Sensus Limited Warranty do not apply to goods that have been: installed improperly or in non-recommended installations; installed to a socket that is not functional, or is not in safe operating condition, or is damaged, or is in need of repair; tampered with; modified or repaired with parts or assemblies not certified in writing by Sensus, including without limitation, communication parts and assemblies; improperly modified or repaired (including as a result of modifications required by Sensus); converted; altered; damaged; read by equipment not approved by Sensus; for water meters, used with substances other than water, used with non-potable water, or used with water that contains dirt, debris, deposits, or other impurities; subjected to misuse, improper storage, improper care, improper maintenance, or improper periodic testing (collectively, "Exceptions."). If Sensus identifies any Exceptions during examination, troubleshooting or performing any type of support on behalf of Customer, then Customer shall pay for and/or reimburse Sensus for all expenses incurred by Sensus in examining, troubleshooting, performing support activities, repairing or replacing any Equipment that satisfies any of the Exceptions defined above. The above warranties do not apply in the event of Force Majeure, as defined in the Terms of Sale.

THE WARRANTIES SET FORTH IN THIS SENSUS LIMITED WARRANTY ARE THE ONLY WARRANTIES GIVEN WITH RESPECT TO THE GOODS, SOFTWARE LICENSES AND SERVICES SOLD OR OTHERWISE PROVIDED BY SENSUS. SENSUS EXPRESSLY DISCLAIMS ANY AND ALL OTHER REPRESENTATIONS, WARRANTIES, CONDITIONS, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE, REGARDING ANY MATTER IN CONNECTION WITH THIS SENSUS LIMITED WARRANTY OR WITH THE TERMS OF SALE, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, NON-INFRINGEMENT AND TITLE.

SENSUS ASSUMES NO LIABILITY FOR COSTS OR EXPENSES ASSOCIATED WITH LOST REVENUE OR WITH THE REMOVAL OR INSTALLATION OF EQUIPMENT. THE FOREGOING REMEDIES ARE CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES FOR THE FAILURE OF EQUIPMENT, LICENSED SOFTWARE OR SERVICES TO CONFORM TO THEIR RESPECTIVE WARRANTIES.

XVI. Limitation of Liability...

SENSUS' AGGREGATE LIABILITY IN ANY AND ALL CAUSES OF ACTION ARISING UNDER, OUT OF OR IN RELATION TO THIS AGREEMENT, ITS NEGOTIATION, PERFORMANCE, BREACH OR TERMINATION (COLLECTIVELY "CAUSES OF ACTION") SHALL NOT EXCEED THE TOTAL AMOUNT PAID BY CUSTOMER TO SENSUS UNDER THIS AGREEMENT. THIS IS SO WHETHER THE CAUSES OF ACTION ARE IN TORT, INCLUDING, WITHOUT LIMITATION, NEGLIGENCE OR STRICT LIABILITY, IN CONTRACT, UNDER STATUTE OR OTHERWISE.

AS A SEPARATE AND INDEPENDENT LIMITATION ON LIABILITY, SENSUS' LIABILITY SHALL BE LIMITED TO DIRECT DAMAGES. SENSUS SHALL NOT BE LIABLE FOR: (I) ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES; NOR (II) ANY REVENUE OR PROFITS LOST BY CUSTOMER OR ITS AFFILIATES FROM ANY END USER(S), IRRESPECTIVE OF WHETHER SUCH LOST REVENUE OR PROFITS IS CATEGORIZED AS DIRECT DAMAGES OR OTHERWISE; NOR (III) ANY IN/OUT COSTS; NOR (IV) MANUAL METER READ COSTS AND EXPENSES; NOR (V) DAMAGES ARISING FROM MAINCASE OR BOTTOM PLATE BREAKAGE CAUSED BY FREEZING TERMPERATURES, WATER HAMMER CONDITIONS, OR EXCESSIVE WATER PRESSURE. "IN/OUT COSTS" MEANS ANY COSTS AND EXPENSES INCURRED BY CUSTOMER IN TRANSPORTING GOODS BETWEEN ITS WAREHOUSE AND ITS END USER'S PREMISES AND ANY COSTS AND EXPENSES INCURRED BY CUSTOMER IN INSTALLING, UNINSTALLING AND REMOVING GOODS. "END USER" MEANS ANY END USER OF ELECTRICITY/WATER/GAS THAT PAYS CUSTOMER FOR THE CONSUMPTION OF ELECTRICITY/WATER/GAS, AS APPLICABLE.

The limitations on liability set forth in this Agreement are fundamental inducements to Sensus entering into this Agreement. They apply unconditionally and in all respects. They are to be interpreted broadly so as to give Sensus the maximum protection permitted under law.

To the maximum extent permitted by law, no Cause of Action may be instituted by Customer against Sensus more than TWELVE (12) MONTHS after the Cause of Action first arose. In the calculation of any damages in any Cause of Action, no damages incurred more than TWELVE (12) MONTHS prior to the filing of the Cause of Action shall be recoverable.

July 29, 2015

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Jim Malberg, Finance Manager/Treasurer

SUBJECT: **ELK GROVE WATER DISTRICT FISCAL YEAR 2014-15 QUARTERLY OPERATING BUDGET STATUS REPORT**

RECOMMENDATION

This item is presented for discussion purposes only. No action is requested of the Board at this time.

Summary

Staff is presenting the unaudited fourth quarter Elk Grove Water District (EGWD) budget status report for the 2014-15 fiscal year. This report is to keep the Board and the public informed on the financial status of the Elk Grove Water District.

DISCUSSION

Background

On June 25, 2014, the Board approved the Fiscal Year (FY) 2014-15 EGWD Operating Budget. The adopted FY 2014-15 EGWD Operating Budget has total revenues of approximately $14.463 million and total expenditures of approximately $14.458 million, including depreciation and amortization of approximately $1.85 million.

Present Situation

The following is a summary of the EGWD's financial status as of June 30, 2015:

ELK GROVE WATER DISTRICT FISCAL YEAR 2014-15 QUARTERLY OPERATING BUDGET STATUS REPORT

Elk Grove Water District
Revenues and Expenses Actual to Budget
June 30, 2015

	YTD Activity	Annual Budget	12/12=100% Variance	%
Revenues	13,322,813	14,463,784	-1,140,971	92.11%
Salaries & Benefits (1)	3,358,270	3,721,605	-363,335	90.24%
Seminars, Conventions and Travel	26,613	38,007	-11,394	70.02%
Office & Operational (2)	3,479,565	4,111,168	-631,603	84.64%
Outside Services	730,241	820,558	-90,317	88.99%
Equipment Rent, Taxes, Utilities	335,982	439,846	-103,864	76.39%
Total Operational Expenses	7,930,671	9,131,184	-1,200,513	86.85%
Net Operations	5,392,142			
Non-Operating Activity				
Depreciation & Amortization	1,850,000	1,850,000	0	100.00%
Bond Interest Accrued	2,546,826	2,546,826	0	100.00%
Interest Earned	17,967	10,000	7,967	179.67%
Other Income	214,869	0	214,869	
Revenues in Excess of Expenditures (Net Revenues)	1,228,152			
Capital Expenses & Equipment	1,899,028			
Bond Retirement: $1,290,000	1,290,000			
Total Capital And Debt Retirement Expenditures	3,189,028			
Net Position after Capital and Debt Retirement Expenditures	(1,960,876)			

(1) Approximately $400,000 of salary expenses will be capitalized at year end.
(2) Estimated Expenditures: Purchased Water $226,403 in June

The revenues collected through the fourth quarter for FY 2014-15 total $13,322,813 and are 92.1% of the $14,463,784 annual budget. The revenues reflect a decrease for lower sales through the fourth quarter due conservation efforts related to the drought. The revenues collected year to date are $110,560 or 0.8% lower than the same period last year.

Total Operational Expenses were $7,930,671 through June and this is 86.9% of the annual budget of $9,131,184. The actual expenses were $794,230 or 11.1% above the same period of the prior fiscal year.

The Personnel expenditures total $3,358,270 through June are at 90.2% of the annual budget of $3,721,605. The actual expenses were $528,623 or 18.7% above the same period of the prior fiscal year which does not yet reflect a transfer of a portion of the personnel costs to capital projects. Staff estimates $400,000 of personnel costs to be transferred to the Capital Improvement Budget at year end.

The Seminars, Conventions and Travel expenditures total $26,613 and this is 70.0% of the annual budget of $38,007. The actual expenses were $7,966 or 42.7% above the same period of the prior fiscal year.

The Office and Operational expenditures total $3,479,565 through June are at 84.6% of the total Budget of $4,111,168. The actual expenses were $68,820, or 2.0%, above the same period of the prior fiscal year. The major expenditure in this category is the estimated Purchased Water costs of $2,587,097 through June which is $69,412, or 2.6%, below the same period last fiscal year. Purchased water expenditures reflect a decrease for lower sales through the fourth quarter due to conservation efforts related to the drought.

The Outside Services expenditures total $730,241 through June and this is 89.0% of the annual budget of $820,558. The actual expenses were $247,627 or 51.3% above the same period of the prior fiscal year. The expenditures for Contracted Services, Engineering, Legal Services and Financial Consultants are the major expenditures at $243,495, $75,633, $117,005 and $68,601, respectively. Approximately half of the Contracted Services are for the District's Information Technology consultant.

The Equipment Rent, Taxes and Utilities expenditures total $335,982 through June and this is 76.4% of the annual budget of $439,846. The actual expenses were $58,806, or 14.9%, below the same period of the prior fiscal year. The major expenditure in this category is the electricity costs of $295,131.

The District had expenditures $1,899,028 for capital projects and equipment as follows:

- Capital Improvements $ 1,395,827
- Capital Replacements $ 451,864
- Equipment $ 51,337

The capital expenditures are detailed in the Quarterly Capital Reserve Report.

FINANCIAL SUMMARY

This report is provided to the Board for information only. There is no financial impact associated with this item at this time.

Staff has attached a copy of the Fourth Quarter Budget Review. The Fourth Quarter Budget Review includes the line item detail for the expenditure categories for the fourth quarter for FY 2014-15, as well as the comparative detail from last fiscal year.

Respectfully submitted,

JIM MALBERG
FINANCE MANAGER/TREASURER

JM

Attachment

ELK GROVE WATER DISTRICT
QUARTERLY BUDGET REVIEW
THROUGH JUNE 30, 2015
FISCAL YEAR 2014-15
(UNAUDITED)

Revenues

Account	Description	FY 14-15 Budget	Y-T-D 6/30/2015	100.00% Percentage	Y-T-D 6/30/2014	Change from prior year
4100	Water Payment Revenues - Residential	$11,940,565	11,438,427	95.79%	$ 11,166,355	$ 272,072
4110	Water Payment Revenues - Commercial	1,891,647	1,540,827	81.45%	1,715,300	(174,473)
4120	Water Payment Revenues - Fire Service	317,122	126,084	39.76%	262,293	(136,210)
4200	Meter Fees/Plan Check/Water Capacity	50,376	29,346	58.25%	68,128	(38,782)
4201	Backflow Installation	74,000	70,456	95.21%	14,138	56,318
4520	Door Hanger Fees	131,737	121,950	92.57%	121,300	650
4540	New account Fees	32,187	24,330	75.59%	28,530	(4,200)
4550	NSF Fees	2,400	2,975	123.96%	3,465	(490)
4570	Shut-off Fees	75,667	60,500	79.96%	67,598	(7,098)
4590	Credit Card Fees	8,082	5,505	68.11%	7,470	(1,965)
4900	Customer Refunds	(60,000)	(97,588)	162.65%	(21,205)	(76,382)
	TOTAL GROSS REVENUES	**$ 14,463,783**	**$ 13,322,813**	**92.11%**	**$ 13,433,372**	$ (110,560)

ELK GROVE WATER DISTRICT
QUARTERLY BUDGET REVIEW
THROUGH JUNE 30, 2015
FISCAL YEAR 2014-15
(UNAUDITED)

Revenues

Expenditures

Account	Description	FY 14-15 Budget	Y-T-D 6/30/2015	100.00% Percentage	Y-T-D 6/30/2014	Change from prior year
	Salaries & Benefits					
5100	Executive Salary	146,535	151,441	103.35%	150,220	1,221
5110	Exempt Salaries	491,114	478,058	97.34%	490,179	(12,121)
5120	Non-Exempt Salaries	1,362,435	1,289,722	94.66%	984,039	305,683
5130	Overtime Compensation	60,396	46,139	76.39%	43,063	3,077
5140	On Call Pay	18,250	18,200	99.73%	18,320	(120)
5150	Holiday Pay	112,794	92,531	82.04%	81,913	10,618
5160	Vacation Pay	106,790	92,381	86.51%	118,646	(26,264)
5170	Personal Time Pay	91,654	88,813	96.90%	74,871	13,942
5180	Internship Program	12,164	0	0.00%	0	0
5200	Medical Benefits	589,705	529,566	89.80%	372,689	156,877
5195	EAP	880	820	93.15%	883	(63)
5210	Dental/Vision/Life Insurance	64,013	54,681	85.42%	41,289	13,392
5220	Retirement Benefits	372,214	287,376	77.21%	260,688	26,688
5225	Retirement Benefits - Post Employment	80,000	73,169	91.46%	68,355	4,814
5230	Medical Tax, Social Security and SUI	45,981	47,618	103.56%	44,880	2,738
5240	Worker's Compensation Insurance	81,660	84,984	104.07%	55,314	29,669
5250	Education Assistance	35,200	4,687	13.32%	1,290	3,397
5260	Employee Training	47,100	15,103	32.07%	21,895	(6,792)
5270	Employee Recognition	600	2,694	449.00%	910	1,784
5280	Meetings	2,120	286	13.49%	203	83
	Less Capitalized Expenditures				-	
	Category Subtotal	**3,721,605**	**3,358,270**	**90.24%**	**2,829,647**	**528,623**
	Seminars, Conventions and Travel					
5300-20	Airfare	3,150	3,035	96.34%	318	2,717
5310-20	Hotels	9,200	6,318	68.68%	4,999	1,320
5320-20	Meals	4,347	4,109	94.53%	2,371	1,738
5330-20	Auto Rental	1,450	336	23.18%	131	205
5340-20	Seminars & Conferences	9,300	6,645	71.45%	3,160	3,485
5345-20	Seminars & Conferences - Board	3,350	0	0.00%	1,435	(1,435)
5350-20	Mileage Reimbursement, Parking, Tolls	1,630	1,370	84.07%	1,394	(24)
5375-20	Auto Allowance	5,580	4,800	86.02%	4,840	(40)
	Category Subtotal	**38,007**	**26,613**	70.02%	**18,648**	7,966

ELK GROVE WATER DISTRICT
QUARTERLY BUDGET REVIEW
THROUGH JUNE 30, 2015
FISCAL YEAR 2014-15
(UNAUDITED)

Revenues

Expenditures (Continued)

Account	Description	FY 14-15 Budget	Y-T-D 6/30/2015	100.00% Percentage	Y-T-D 6/30/2014	Change from prior year
	Office & Operational					
5410	Advertising	5,300	11,062	208.71%	3,754	7,307
5415	Association Dues	65,392	61,518	94.08%	53,823	7,695
5420	Insurance	75,000	76,462	101.95%	68,815	7,647
5425	Licenses, Certifications, Fees	10,300	13,488	130.95%	5,809	7,679
5430	Repairs & Maintenance - Automotive	27,533	31,179	113.24%	16,584	14,595
5432	Repairs & Maintenance - Building	17,081	9,067	53.09%	22,001	(12,934)
5434	Repairs & Maintenance - Computers	9,100	21,591	237.27%	1,839	19,752
5435	Repairs & Maintenance - Equipment	93,728	82,974	88.53%	52,277	30,696
5438	Fuel	64,813	43,846	67.65%	41,337	2,510
5440	Materials	296,692	167,670	56.51%	143,563	24,106
5445	Chemicals	27,000	14,813	54.86%	21,945	(7,132)
5450	Meter Repairs	600	5,179	863.09%	91	5,087
5453	Permits	36,600	36,983	101.05%	31,194	5,789
5455	Postage	59,300	64,082	108.06%	65,770	(1,689)
5460	Printing	12,400	10,060	81.13%	8,085	1,975
5465	Safety Equipment	14,550	3,428	23.56%	12,993	(9,565)
5470	Software Programs & Updates	97,244	135,002	138.83%	114,980	20,022
5475	Supplies	33,000	29,708	90.02%	22,427	7,280
5480	Telephone	37,055	35,291	95.24%	38,333	(3,042)
5485	Tools	19,521	23,834	122.09%	11,069	12,765
5490	Clothing Allowance	9,500	7,449	78.41%	9,901	(2,451)
5491	EGWD-Other Clothing	6,959	7,782	111.83%	7,645	137
5495	Purchased Water	3,092,500	2,587,097	83.66%	2,656,509	(69,412)
	Less Capitalized Expenditures				-	
	Category Subtotal	**4,111,169**	**3,479,565**	**84.64%**	**3,410,745**	68,820
	Outside Services					
5505	Administration Services	1,500	2,252	150.13%	1,012	1,241
5510	Bank Charges	48,000	62,407	130.01%	47,799	14,608
5515	Billing Services	27,400	24,218	88.39%	28,308	(4,090)
5520	Contracted Services	228,830	243,495	106.41%	136,029	107,466
5525	Accounting Services	60,000	26,615	44.36%	43,344	(16,729)
5530	Engineering	130,000	75,633	58.18%	14,798	60,835
5535	Legal Services	185,000	117,005	63.25%	98,307	18,698
5540	Financial Consultants	20,000	68,601	343.01%	29,654	38,948
5545	Community Relations	13,700	19,587	142.97%	14,065	5,522
5552	Misc. Medical	1,000	1,485	148.50%	2,086	(601)
5550	Pre-employment	25,000	6,508	26.03%	630	5,878
5555	Janitorial	6,440	6,299	97.81%	5,935	364
5560	Bond Administration	8,500	6,917	81.38%	7,353	(436)
5570	Security	22,188	30,706	138.39%	26,412	4,294
5575	Sampling	40,000	35,513	88.78%	23,858	11,655
5580	Board Secretary/Treasurer	3,000	3,000	100.00%	3,025	(25)
	Category Subtotal	**820,558**	**730,241**	**88.99%**	**482,614**	**247,627**

ELK GROVE WATER DISTRICT
QUARTERLY BUDGET REVIEW
THROUGH JUNE 30, 2015
FISCAL YEAR 2014-15
(UNAUDITED)

Revenues

Expenditures (Continued)

Account	Description	FY 14-15 Budget	Y-T-D 6/30/2015	100.00% Percentage	Y-T-D 6/30/2014	Change from prior year
	Equipment Rent, Taxes and Utilities					
5610	Occupancy	-	-		-	
5620	Equipment Rental	25,871	15,347	59.32%	38,047	(22,700)
5710	Property Taxes	4,100	4,701	114.66%	3,992	709
5720	Water	-	-	0.00%	-	-
5740	Electricity	379,694	295,131	77.73%	333,039	(37,908)
5750	Natural Gas	600	416	69.36%	437	(21)
5760	Sewer and Garbage	29,581	20,387	68.92%	19,273	1,114
	Category Subtotal	**439,846**	**335,982**	**76.39%**	**394,787**	**(58,806)**
	Total Operational Expenses	**9,131,185**	**7,930,671**	**86.85%**	**7,136,441**	794,230

July 29, 2015

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Jim Malberg, Finance Manager/Treasurer

SUBJECT: **ELK GROVE WATER DISTRICT FISCAL YEAR 2014-15 QUARTERLY RESERVE STATUS REPORT**

RECOMMENDATION

This item is presented for information only. No action by the Board is proposed at this time.

Summary

Staff is presenting the unaudited fourth quarter status report for Fiscal Year (FY) 2014-15 Elk Grove Water District (EGWD) Reserve Funds reflecting expenditures and budget appropriations through June 30, 2015. This report is to keep the Board and public informed on the status of the Elk Grove Water District Reserve Funds utilized, notably for the FY 2014-15 Capital Improvement Program (CIP).

DISCUSSION

Background

On August 22, 2012 the Board approved Resolution 08.22.12.01 adopting a revised Elk Grove Water District Reserve and Capital Investment Policy. The revised policy established six reserve funds, as detailed later in this report, as well as defining the financial targets for each of those specific reserve funds.

On June 25, 2014, the Board approved the EGWD FY 2014-15 CIP that included an appropriation of $2,775,000 in unrestricted funds to the FY 2014-15 CIP reserve fund. On July 23, 2014, the Board appropriated an additional $711,039 of unrestricted funds to the FY 2014-15 CIP reserve fund for the Hampton Village Water Treatment Plant Refurbishment project. These appropriations are reflected in the current balances and budgets of the reserve funds.

Present Situation

EGWD has appropriated Reserve Funds for FY 2014-15 as follows:

• Operations Reserves (120 days)	$ 4,819,000
• FY 2014/15 Capital Improvement Fund	$ 2,860,000
• FY 2014/15 Capital Replacement Fund	$ 626,000
• Elections and Special Studies	$ 102,599
• Future Capital Improvements	$ 2,694,301
• Future Capital Replacements	$ 898,100
TOTAL	$12,000,000

In addition to the $102,599 spent on election costs, the EGWD has expended $1,899,028 for capital expenditures through June 30, 2015 as follows:

• Capital Improvement Fund	
○ Meter Retrofit Program	$ 188,975
○ Service Line Replacements	$ 45,973
○ Wharf Hydrant Replacements	$ 101,155
○ Melrose Ave. Water Main	$ 124,345
○ Hampton Rd. WTP Refurbishment	$ 568,458
○ SCADA Improvements	$ 96,467
○ Truck Replacements	$ 112,890
○ Admin Bldg. Improvements	$ 5,860
○ RRWTF Parking Lot Improvements	$ 18,778
○ Railroad Corridor Water Line	$ 184,263
TOTAL	$ 1,447,164
• Capital Replacement Fund	
○ Hampton Rd. WTP Refurbishment	$ 427,274
○ Hydropneumatic Tanks Refurbishments	$ 9,360
○ Well Destructions	$ 15,230
TOTAL	$ 451,864

The EGWD remaining reserve fund balances as of June 30, 2015 are as follows:

• Operations Reserves (120 days)	$ 4,819,000
• FY 2014/15 Capital Improvement Fund	$ 1,412,836
• FY 2014/15 Capital Replacement Fund	$ 174,136
• Elections and Special Studies	$ 0
• Future Capital Improvements	$ 2,694,301
• Future Capital Replacements	$ 898,100
TOTAL	$ 9,998,373

The Hampton Rd. WTP Refurbishment project includes funding from both the Capital Improvement Fund as well as the Capital Replacement Fund as indicated above. Total project expenditures as of June 30, 2015 were $995,732.

Please note that Staff will be capitalizing a portion of the personnel costs, as well as operations expenses, to the Melrose, Service Line Replacement and Meter Retrofit capital projects at year end. Staff estimates transfers of $400,000 of personnel costs to be transferred to the CIP.

Included are two schedules reflecting the reserve fund balances and the Capital Improvement Program expenditures through June 30, 2015. Staff will update the ending balances for the fourth quarter once the FY 2014-15 audit is complete.

FINANCIAL SUMMARY

There is no financial impact with this report.

Respectfully submitted,

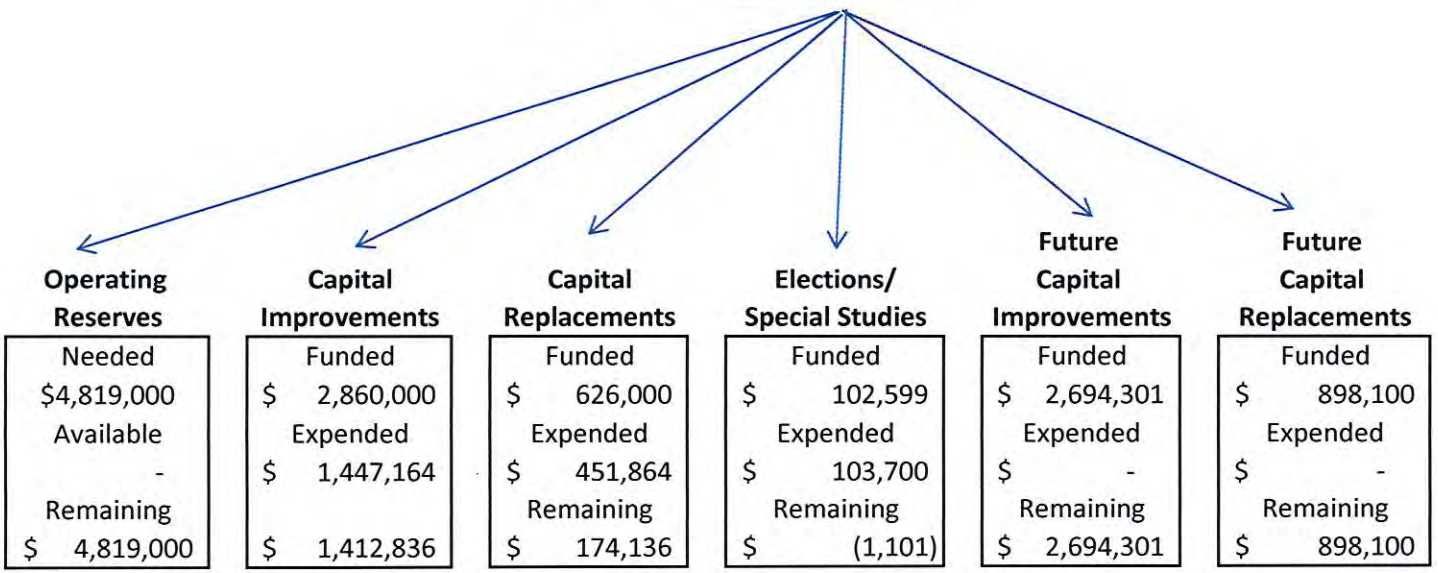
JIM MALBERG
FINANCE MANAGER/TREASURER

JM:

Attachments

ELK GROVE WATER RESERVES
Fiscal Year 2014-15
As of June 30, 2015

Total Available $ 12,000,000



Attachment 1

Capital Improvement Funds

Retrofit Program	Supply/Dist. Improvements	Treatment Plant Improvements	Building & Site Improvements	Unforeseen Capital Projects
Funded	Funded	Funded	Funded	Funded
$ 134,000	$ 1,500,000	$ 742,000	$ 440,000	$ 100,000
Expended	Expended	Expended	Expended	Expended
$ 188,975	$ 271,473	$ 664,925	$ 321,791	$ -
Remaining	Remaining	Remaining	Remaining	Remaining
$ (54,975)	$ 1,228,527	$ 77,075	$ 118,209	$ 100,000

Capital Replacement Funds

Supply/Dist. Improvements	Treatment Plant Improvements	Building & Site Improvements	Unforeseen Capital Projects
Funded*	Funded	Funded	Funded
$ 22,000	$ 448,000	$ -	$ 100,000
Expended	Expended	Expended	Expended
$ 9,360	$ 427,274	$ -	$ 15,230
Remaining	Remaining	Remaining	Remaining
$ 12,640	$ 20,726	$ -	$ 84,770

July 29, 2015

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Mark J. Madison, General Manager

SUBJECT: **LEGAL OPINION – FLORIN RESOURCE CONSERVATION DISTRICT ADMINISTRATIVE FEE**

RECOMMENDATION

It is recommended that the Board receive and discuss the legal opinion from Best Best & Krieger regarding the Florin Resource Conservation District's legal authority to charge an administrative fee to the Elk Grove Water District.

Summary

The Florin Resource Conservation District Board of Directors requested a legal opinion on whether the Florin Resource Conservation District may charge an administrative fee to the Elk Grove Water District. This opinion is attached.

This item is provided to the Board for information only. There is no action requested by the Board at this time.

DISCUSSION

Background

On June 12, 2015, a Special Meeting of the Finance Committee was held to review the draft Fiscal Year 2015-16 Florin Resource Conservation District (FRCD) budget. During that meeting, there was considerable discussion about the lack of revenue and corresponding decline of the FRCD reserves.

Director Tom Nelson then requested a legal opinion from Best Best & Krieger as to if the FRCD could charge the Elk Grove Water District (EGWD) an administrative fee. After considerable discussion, General Manager Mark Madison requested that the Board clarify the question so that a sound legal opinion could be rendered. Specifically, the Board was asked to clarify if the question was: a) Can the FRCD seek reimbursement from the EGWD for costs that it incurs in providing services to the EGWD or, b) Can the FRCD

simply assess an administrative fee to the EGWD. Mr. Nelson indicated that his request for legal opinion was the latter of the two, and this was affirmed by a consensus of the Board.

Present Situation

The attached opinion concludes that the FRCD may not charge an administrative fee to the EGWD. Administrative fees not based on the actual cost of reimbursement to one fund from another have been struck down by the courts as a violation of Proposition 218. After reviewing the analysis and opinion, other related questions have been raised by board members and are addressed as follows:

1. Can the FRCD charge an administrative fee to EGWD because FRCD owns the office building, the water treatment plant, and the other facilities used to provide water?

   No, because all of these properties and facilities were paid for with water revenues, and no reimbursement is warranted or appropriate.

2. Can FRCD charge EGWD an administrative fee because the Board of Directors devotes time and energy to managing the EGWD?

   No, because there is no actual cost associated with these efforts, and no reimbursement is warranted or appropriate.

3. Can the FRCD obtain reimbursement from EGWD for the General Manager's salary?

   No, because his salary is already paid for with water revenues and such reimbursement would result in a double charge against the EGWD.

4. Can the FRCD continue to be reimbursed by EGWD for a portion of the election costs?

   Yes, to the extent that the FRCD pays for something on behalf of the EGWD that is not already paid for by water revenues, it may seek reimbursement. The amount

of such reimbursement cannot be arbitrary. Instead, it must be based on a documented rationale for apportioning the cost between the FRCD and the EGWD.

STRATEGIC PLAN CONFORMITY

The legal opinion, although not a specific goal or objective, as identified in the Florin Resource Conservation District/Elk Grove Water District Strategic Plan, does comport with the Challenge specified for the FRCD which reads "EGWD finances cannot be used for the benefit of greater FRCD. Projects need to be cost neutral."

FINANCIAL SUMMARY

There is no direct financial impact associated with this item at this time.

Respectfully Submitted,

MARK J. MADISON
GENERAL MANAGER

Attachment

BEST BEST & KRIEGER LLP
ATTORNEYS AT LAW

CONFIDENTIAL
ATTORNEY/CLIENT PRIVILEGE

Memorandum

To: Florin Resource Conservation District **File No.:** 82106.00001
From: Kelly J. Salt
Kimberly E. Hood
Date: July 9, 2015
Re: Legal Opinion re Administrative Charge to EGWD

QUESTION PRESENTED

May the Florin Resource Conservation District ("FRCD") charge an administrative fee to the Elk Grove Water District ("EGWD")?

SHORT ANSWER

No. An administrative fee may be charged only to reimburse the FRCD for actual costs attributable to providing water service which are not already paid with water rate revenues. Any other administrative fee would be in violation of California Constitution article XIII D, section 6 (commonly referred to as Proposition 218). In accordance with Proposition 218, water service fees may only be used for the purpose for which the fees are imposed (i.e., for costs of providing water service). Cal. Const. art. XIII D, §§ 6(b)(2). Transfers of water service fee revenues to other funds is appropriate, but only to the extent such transfers reflect reimbursements necessary to cover direct or indirect costs of providing water service. Such transfers must be supported with documentation supporting the reimbursements. The courts have struck down such administrative fees or reimbursements from a utility enterprise fund where the public agency failed to prove the fee or reimbursement reflected the actual cost of providing the utility service not already paid with utility rate revenues.

In this case, all EGWD water service administrative and personnel costs are directly paid with EGWD customer water service fee revenues and there is no reimbursement owed to the FRCD. To charge an additional administrative charge from the EGWD to the FRCD for such expenses would result in an impermissible double charge for the same services and could be likened to an impermissible subsidy if used to fund non-water enterprise activities, which would be a violation of Proposition 218.

BACKGROUND

The facts upon which this opinion is based are as follows: (1) the EGWD is not a separate legal entity; (2) the EGWD is a department of the FRCD and is governed by the FRCD's Board of Directors; and (3) all employees oversee and run EGWD and are paid exclusively from EGWD funds. EGWD operates and maintains the water system serving approximately 43,000 customers within the City of Elk Grove. The EGWD and the FRCD have separate budgets to segregate and separately account for the water enterprise from the general resource conservation functions. The EGWD's budget is the equivalent of the water enterprise budget or fund typically maintained by local public agencies, which have a general fund as well as separate enterprise funds for each utility. The enterprise fund collects the service fees and charges from utility customers necessary to operate the water fund (i.e., the enterprise fund collects the costs of the water service). The FRCD does not receive property taxes and has no present source of income other than the EGWD's water service fee revenues. The FRCD does have a bank account with approximately $127,000 accumulated from past rental income from a building that it has since sold.

The FRCD shares certain expenses with the EGWD, such as an annual audit, insurance, and legal fees and expenses. The water rate study on which the current EGWD water rates are calculated was adopted on June 26, 2013, and takes the proportional percentages of these expenses attributable to the EGWD into account. Water rates are based only on the water enterprise's expenses, including the water enterprise's percentage of the audit, election costs, and insurance expenses that are currently paid with EGWD water service fee revenues.

The FRCD has no staff, although the General Manager's contract prescribes that he works for the FRCD Board. All staff, including the General Manager, have been paid in their entirety with EGWD water service fee revenues. All non-water-related resource conservation efforts are supposed to be conducted by the board members themselves, who are not compensated. Where EGWD staff has expended efforts on FRCD activities, those efforts have reportedly been conducted on a voluntary basis.

EGWD water facilities and the EGWD building have been paid for with EGWD customer water revenues. In addition, the FRCD's purchase of the EGWD is being paid for with bonded indebtedness secured by EGWD water revenues and the EGWD rate payers are paying 100% of the debt service payments. .

ANALYSIS

A. Overview of Proposition 218

In November 1996, California voters approved Proposition 218, which amended the California Constitution by adding articles XIII C ("Article XIII C") and XIII D ("Article XIII D"). Article XIII C pertains to general and special taxes. . Pertinent here, Article XIII D, section 6, placed substantive limitations on the use of the revenue collected from property-related fees and on the amount of the fee that may be imposed on each parcel. . Water service fees like those

the EGWD charges for water service are property-related fees within the meaning of Article XIII D, section 6, and therefore are subject to its substantive limitations . . *Richmond v. Shasta Cmty. Services Dist.*, 32 Cal. 4th 409 (2004); *Bighorn-Desert View Water Agency v. Virjil*, 39 Cal. 4th 205 (2006). .

In accordance with these constitutional provisions, a property-related fee must meet all of the following requirements: (1) revenues derived from the fee must not exceed the funds required to provide the property-related service; (2) revenues from the fee must not be used for any purpose other than that for which the fee is imposed; (3) the amount of a fee imposed upon any parcel or person as an incident of property ownership must not exceed the proportional cost of the service attributable to the parcel; (4) the fee may not be imposed for a service, unless the service is actually used by, or immediately available to, the owner of the property subject to the fee; and (5) no fee may be imposed for general governmental services, such as police, fire, ambulance, or libraries, where the service is available to the public in substantially the same manner as it is to property owners. . Cal. Const,. art. XIII D, §§ 6(b)(1)-(5).

B. Inter-fund Transfers to Account for Administrative Charges

Property-related fees (including water user fees) may only be used for the purpose for which they are imposed. . Cal. Const. art. XIII D, §§ 6(b)(2). . The courts have interpreted this requirement under Proposition 218 to allow spending of such fees on "anything related to the maintenance and management of the [water] system," taking into account "all the required costs of providing service, short-term, and long-term, including operation, maintenance, financial, and capital expenditures." *Moore v. City of Lemon Grove,* 237 Cal. App. 4th 363, 368 (2015) (quoting *Howard Jarvis Taxpayers Association v. City of Roseville*, 97 Cal. App. 4th 637, 648 (2002)). . To do so, however, the public agency must be able to show that any inter-fund transfers from the water enterprise fund reflect a reasonable estimate of the actual costs for which the transfer or reimbursement is being made. . *Id.*

The courts have struck down flat fee transfers from utility enterprise funds to the public agency general fund where the public agency failed to prove the transfer reflected the actual cost of providing the utility service. . *Howard Jarvis Taxpayers Association v. City of Fresno,* 127 Cal. App. 4th 914 (2005); *Howard Jarvis Taxpayers Association v. City of Roseville*, 97 Cal. App. 4th 637, 648 (2002). . For example, in *Roseville*, operated water, sewer, and garbage utilities and collected a four percent "in lieu franchise fee" from utility customers. . The idea behind the fee was that private utilities pay franchise fees to use streets and rights-of-ways for utility service but that city-owned utilities do not. . The in lieu fee was passed along to ratepayers and transferred to the city's general fund to reimburse the general fund for such expenses paid by the general fund. . The court recognized that the city "may charge its water, sewer and refuse utilities for the street, alley, and right-of-way costs attributable to the utilities; and [the city] may transfer these revenues to its general fund to pay for such costs (the general fund supports or pays for [the city's] streets, alleys, and rights-of-way)." *Roseville,* 97 Cal. App. 4th at 648. . The problem was that the city failed to connect the four percent in lieu franchise fee

to the actual portion of those general fund expenditures attributable to the utility services. . As such, the flat fee amounted to a charge for general governmental services in violation of Proposition 218. . *Id.* at 650.

Similarly, in *Fresno,* the city required each city utility to pay, in lieu of property and other taxes normally charged to other private businesses, an amount specified by the city council in a master fee resolution. . At the time of the decision, the fee was one percent of the assessed value of the utility department or divisions' fixed assets. . In analyzing whether the in lieu fee violated Proposition 218, the court explained:

> [Proposition 218] makes it necessary – if [the city] wishes to recover all of its utilities costs from user fees – that it reasonably determine the unbudgeted costs of utilities enterprises and that those costs be recovered through rates proportional to the cost of providing service to each parcel. . Undoubtedly this is a more complex process than the assessment of the in lieu fee and the blending of that fee into the rate structure. . Nevertheless, such a process is now required by the California Constitution.

Fresno, 127 Cal. App. 4th at 923 (internal citations omitted). . Fresno failed to make this requisite showing and the court held that collection of such a flat fee without any accounting of actual costs or identifiable financial transactions violated Proposition 218's requirement that the fees collected not exceed the cost of service. .

In contrast, an appellate court very recently held that the transfer of revenues from a wastewater utility (the Lemon Grove Sanitation District) to the city's general fund complied with Proposition 218 and the city was able to provide "ample evidence" that the amount of money transferred was based on reliable estimates of the time and cost of personnel and administrative expenses paid for out of general fund proceeds that was attributable to providing wastewater services. . *Moore v. City of Lemon Grove,* 237 Cal. App. 4th 363, 372(2015) [2015 Cal. App. LEXIS 479]. . In *Lemon Grove*, a wastewater customer challenged the sanitation district's annual transfer of revenues from its wastewater utility to the City of Lemon Grove's general fund. . The sanitation district has three employees who exclusively perform work for the utility. . All other functions to operate the utility (accounting and finance, receptionists, analysts, engineers, inspectors, plan checkers, etc.) are performed by city employees whose salaries are paid by the general fund. . The plaintiff alleged that the utility transfers were not tied to actual costs incurred for the utility's benefit, and that the city failed to properly identify, earmark or quantify these costs. The plaintiff asserted that the transferred funds did not reflect the cost of the wastewater service and were instead used for general governmental purposes in violation of Proposition 218. . The court disagreed and distinguished the facts from *Roseville* and *Fresno*. . *Id.* at 371-372.

Lemon Grove presented evidence at trial showing that most of the functions required to operate the utility are provided by city employees who divide their time among various activities. . Additionally, basic operational tools, such as accounting software, computer

and "GIS" systems, design programs, and office space are owned and provided by the city. . *Id.* at 369. In return, the sanitation district reimburses the city's general fund for the appropriate percent of city expenses and time spent by these employees to provide services related to sanitation services. *Id.* at 369-370. The apportionment of time related to services provided to the utility were done in accordance with the city's best estimate of the actual time spent on sanitation matters. *Id.* at 370. Overhead-related expenses were determined by examining the budgeted expenditures for each fund or activity. *Id.* The sanitation district rate study further affirmed the reasonable apportionment of funds to the city's general fund based on revenue. The city also provided evidence showing that, after the wastewater rates are established, it monitors expenditures to make certain that city employees stay within budgetary parameters. *Id.* at 373. As the court concluded,

> Here, [the sanitation district] presented evidence linking the fees to its costs and showing its fees did not exceed the costs of providing the service. The [sanitation district] then reimburses the city for services and expenditures related to the services provided by the city.... [T]he general fund can subsidize any other fund, including sanitation. Respondents' action of reimbursing the general fund for its costs did not violate [Proposition 218].

Lemon Grove, 237 Cal. App. 4th at 377.

The *Roseville*, *Fresno*, and *Lemon Grove* cases make it clear FRCD may charge, and EGWD may transfer, that portion of the water user fees from the water enterprise fund to FRCD's general fund necessary to reimburse the FRCD for expenses incurred by the FRCD in providing water service to EGWD customers. The personnel and administrative charges, including an appropriate allocation of election, insurance and legal costs attributable to providing water service to EGWD customers is paid out of the water rate revenues, and the FRCD does not use other non-water rate revenues to pay for any portion of the EGWD water service. Accordingly, there is no reimbursement owed to FRCD as there was in *Lemon Grove*. If FRCD paid the employee salaries or other EGWD expenses out of non-water rate revenues, it would be entitled to an equivalent administrative interfund transfer from the water enterprise fund, but all EGWD costs are already paid out of the water enterprise fund. The water enterprise would be double-charged if such a transfer were permitted under these facts because water revenues are already used to pay directly for its administrative and personnel expenses so no further administrative transfer is warranted. Such a double-charge cannot be justified as a legitimate cost of service and would violate Proposition 218 as an improper subsidy of non-water enterprise or general government services.

CONCLUSION

Although Proposition 218 permits transfers of water rate revenues to other funds to reimburse another fund for the cost of services provided in support of providing water service to utility customers, such transfers must be supported with documentation to ensure the transfer reflects an equitable and reasonable reimbursement for personnel and administrative services. Because the FRCD does not currently provide such services paid for with non-water rate revenues, no transfer of funds from the EGWD to the FRCD is permissible under Proposition 218. If an unsupported transfer were made, it would likely constitute an impermissible subsidy of non-enterprise services.

Please do not hesitate to contact us with any questions regarding this analysis.

KEH

cc: Ann M. Siprelle

July 29, 2015

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Mark J. Madison, General Manager

SUBJECT: **POTENTIAL RESTRICTION OF THE FLORIN RESOURCE CONSERVATION DISTRICT ACTIVITIES**

RECOMMENDATION

It is recommended that the Board discuss the concept of restricting the activities of the Florin Resource Conservation District, to water related efforts only, as suggested by Director Tom Nelson.

Summary

Director Tom Nelson has requested a discussion of an idea to restrict all activities of the Florin Resource Conservation District (FRCD) to water related efforts only. His idea further suggests that where the FRCD expends efforts and where a direct benefit to the Elk Grove Water District (EGWD) ratepayers can be demonstrated, that the costs for these efforts be paid for by EGWD funds.

This item is provided to the Board for discussion purposes only. There is no specific action requested by the Board at this time.

DISCUSSION

Background

On June 12, 2015, a Special Meeting of the Finance Committee was held to review the draft Fiscal Year 2015-16 Florin Resource Conservation District (FRCD) budget. During that meeting, there was lengthy discussion about the lack of revenue and corresponding decline of the FRCD reserves.

Director Tom Nelson then requested that we solicit a legal opinion from Best Best & Krieger as to whether the FRCD could charge the Elk Grove Water District (EGWD) an administrative fee. After considerable discussion, General Manager Mark Madison requested that the Board clarify the question so that a sound legal opinion could be

rendered. Specifically, the Board was asked to clarify if the question was: a) Can the FRCD seek reimbursement from the EGWD for costs that it incurs in providing services to the EGWD or, b) Can the FRCD simply assess an administrative fee to the EGWD. Mr. Nelson indicated that his question was the latter of the two, and this was affirmed by a consensus of the Board.

Present Situation

A legal opinion was solicited and provided by Best Best & Krieger, and this will be presented to the Board as a separate item on this agenda. This legal opinion indicates, in part, that in accordance with Proposition 218, water enterprise funds may be used by the FRCD if the activity can be demonstrated that there is a direct benefit to the EGWD ratepayers and if it is not already being paid for by EGWD funds.

Recently, Tom Nelson has posed a suggestion that the Board consider restricting the activities of the FRCD to water related efforts only. His idea further suggests that where the FRCD expends efforts and where a direct benefit to the Elk Grove Water District (EGWD) ratepayers can be demonstrated, that the costs for these efforts be paid for entirely by EGWD funds.

Mr. Nelson's idea appears to conform to the requirements of Proposition 218 so long as the costs incurred by the FRCD can be demonstrated to provide a direct benefit to the EGWD ratepayers. Mr. Nelson has also suggested that, if this restriction was to be approved, the budgets for the FRCD and the EGWD could be merged.

This item is being presented for the Board's consideration and discussion purposes only, and no action is requested at this time. It is staff's opinion that if the Board is interested in pursuing this idea, several actions would be necessary.

First, a legal evaluation should be conducted to ensure that the restriction of activities are in compliance with Proposition 218 and Resource Conservation District regulations. Second, the Board should consider a means to entertain public input on this matter before any decisions are made. Lastly, the FRCD By-Laws and the FRCD Strategic Plan would need to be amended and approved by the FRCD Board of Directors.

STRATEGIC PLAN CONFORMITY

The idea, although not related to a specific goal or objective as identified in the Florin Resource Conservation District/Elk Grove Water District Strategic Plan, does comport with the Challenge specified for the FRCD which reads "EGWD finances cannot be used for the benefit of greater FRCD. Projects need to be cost neutral."

FINANCIAL SUMMARY

There is no direct financial impact associated with this item at this time.

Respectfully Submitted,

MARK J. MADISON
GENERAL MANAGER

MJM

July 29, 2015

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Stefani Phillips, Board Secretary

SUBJECT: **ELECTION OF DIRECTORS TO THE SPECIAL DISTRICT RISK MANAGEMENT AUTHORITY BOARD OF DIRECTORS**

RECOMMENDATION

It is recommended that the Board of Directors of Florin Resource Conservation district vote for up to three candidates nominated for the Special District Management Authority Board of Directors, and adopt Resolution 07.29.15.01 of the governing board of the Florin Resource Conservation District for the election of Directors to the Special District Risk Management Authority Board of Directors.

Summary

The Special District Risk Management Authority (SDRMA) Election Committee is seeking ballots for three (3) seats on the SDRMA Board of Directors. The Candidate's Statement of Qualifications are attached. These seats will serve a four-year term, which will begin on January 1, 2016 and terminate on December 31, 2019.

By this action, the Board may vote for up to three (3) candidates from the ballot and adopt Resolution No. 07.29.15.01 for the election of directors to the SDRMA Board of Directors.

DISCUSSION

Background

The SDRMA Board of Directors is comprised of seven directors elected from member agencies participating in both SDRMA's Property/Liability and Workers' Compensation Programs. The Board of Directors' responsibilities include establishing policy, providing oversight, and setting direction and vision to ensure SDRMA meets its mission, obligations and commitment to its members.

Present Situation

The SDRMA Board of Directors have three (3) seats up for election. The three seats will serve a four-year term beginning January 1, 2016 through December 31, 2019. The SDRMA Election

Committee have requested the ballots and resolutions by Tuesday, August 25, 2015. The ballots will be opened and counted on August 26, 2015; and the election results will be announced and the candidates will be notified on August 27, 2015.

STRATEGIC PLAN CONFORMITY

Electing Directors to be seated on the SDRMA Board of Directors complies with the Florin Resources Conservation District's (FRCD) Cooperative Programs and the FRCD/Elk Grove Water District's (EGWD) Financial Stability sections of the 2012-2017 Strategic Plan.

FINANCIAL SUMMARY

There is no financial impact on the FRCD or EGWD Fiscal Year (FY) 2015-16 Budgets.

Respectfully submitted,

STEFANI PHILLIPS
BOARD SECRETARY

SP

Attachments

Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates – no attachments will be accepted. No statements are endorsed by SDRMA.

Nominee/Candidate: Robert Swan
District/Agency: Groveland Community Services District
Work Address: P.O. Box 350, Groveland, CA 95321
Work Phone: 209-962-7161 Home Phone: 209-962-6535

Why do you want to serve on the SDRMA Board of Directors? (Response Required)

SDRMA's services are particularly important to the successful operation of smaller special districts, such as the one I serve. I would like to contribute what I can to ensuring that SDRMA continues to provide its vital services to its member agencies, prudently and cost-effectively.

Board oversight can be time-consuming. Due to my personal circumstances (retired, single, two hours from Sacramento), I will be able to participate regularly in Board activities.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization) (Response Required)

I have been a member of the governing Board of the Groveland Community Services District (water, sewer, fire and parks district) since June 2013. I've served as Board President since January 2014.

Since February of 2010, member of the Board of Pine Cone Performers, a community choral and drama organization.

During 1995 to 2001, I was a delegate to the Institute of Electrical and Electronics Engineers (IEEE) committees working on standards development in the area of wireless communications.

Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications

What special skills, talents, or experience (including volunteer experience) do you have? (Response Required)

In my work career in the semiconductor industry, I managed business operations and organizations with annual budgets in the range of ten to twenty million dollars, so I have a good working knowledge of budgeting and accounting principles. My academic background (BS in Physics, MS in Computer Science) and work experience have given me a solid understanding of statistical modeling and economic cost-benefit analysis.

What is your overall vision for SDRMA? (Response Required)

SDRMA has a well-defined role in providing comprehensive insurance coverage to member agencies. Clearly, continuing this function is central to its future operations. I would like to see continued expansion of the educational and loss-prevention aspects of the operation, as these are the keys to improving cost-effectiveness. However, as an insurance entity, prudent financial management is of paramount importance, and functional expansion must be thoughtfully controlled.

I certify that I meet the candidate qualifications as outlined in the SDRMA election policy. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature Robert J. Aaron Date 4-9-15

Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates – no attachments will be accepted. No statements are endorsed by SDRMA.

Nominee/Candidate Ed Gray
District/Agency Chino Valley Independent Fire District
Work Address 14011 City Center Drive, Chino Hills, CA 91709
Work Phone 909 902-5260 Home Phone 909 9627-4821

Why do you want to serve on the SDRMA Board of Directors? (Response Required)

When appointed to the Board of Directors of SDRMA in November of 2010, and my election to the Board 2012, I made a commitment to be an effective member of the SDRMA team and to work hard to ensure the continued success of the organization. As a Board member, I believe I have shown that I seek to understand issues and use common sense when making decisions. I wish to continue my service to SDRMA, as I can be a positive member of the SDRMA team and an asset to the members, Board and staff.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization) (Response Required)

I currently serve on the Board of Directors of the SDRMA and serve as Secretary. I have been an elected Director of the Chino Valley Independent Fire District since 2004. During my tenure, I have served multiple terms as President and Vice-President, and as a member of our Finance, Planning, and Personnel Committees. I have served as Liaison to the City Councils of Chino and Chino Hills and to the San Bernardino County Board of Supervisors. I am also the District's representative and current Chairman of the Citizens Advisory Committee for the California Institution for Men in Chino. I am a member of the Chino Valley Lions Club. I also serve on the Governing Board of the Green Valley Lake Mutual Water Company.

Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications

What special skills, talents, or experience (including volunteer experience) do you have? (Response Required)

After serving in the US Army, I enjoyed a lengthy career in law enforcement retiring in 2004 as a Police Lieutenant. I learned early in my career, that to be an effective individual and leader, it was important to actively listen to people; to seek understanding of all sides of an issue; and make decisions based on common sense and "rightness".

My experience as an elected official has broadened my knowledge and reinforced my belief that decisions must be made based on what is right, and not on what is a personal preference.

What is your overall vision for SDRMA? (Response Required)

I see SDRMA as continuing its journey as a successful, effective and efficiant service provider through innovation, right thinking and conservative business strategies. I can visualize the organization exploring other avenues of financial endeavors that will benefit our customers.

I certify that I meet the candidate qualifications as outlined in the SDRMA election policy. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature Ed Vasey Date 3-30-2015

Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates – no attachments will be accepted. No statements are endorsed by SDRMA.

Nominee/Candidate R MICHAEL WRIGHT
District/Agency LOS OSOS COMMUNITY SERVICES DISTRICT
Work Address 2122 9th STREET, LOS OSOS CA 93402
Work Phone 805-528-9370 Home Phone 805-234-4513

Why do you want to serve on the SDRMA Board of Directors? (Response Required)

WITH 38 YEARS EXPERIENCE IN THE INSURANCE FIELD, I BELIEVE I HOLD THE SKILL SET THAT WILL BENEFIT THE OPERATIONS OF THE SDRMA.
I HAVE OWNED AND OPERATED MY OWN INSURANCE AGENCY SUCCESSFULLY AND HAVE SOLD AND SERVICED ALL LINE OF INSURANCE INCLUDING COMMERCIAL AND WORK COMP.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization) (Response Required)

I AM CURRENTLY THE PRESIDENT OF THE LOS OSOS CSD. I WAS VICE PRESIDENT THE YEAR BEFORE. BEFORE I WAS ON THE LOCSD BOARD, I WAS A MEMBER OF THE LOS OSOS CSD EMERGENCY SERVICES COMMITTEE FOR SIX YEARS.

Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications

What special skills, talents, or experience (including volunteer experience) do you have? (Response Required)

LICENSED PROPERTY CASUALTY INSURANCE AGENT SINCE 1977. OVER 730 HOURS OF INSURANCE CONTINUING EDUCATION
I ALSO HOLD A 6 AND 63 SECURITIES LICENSE.

What is your overall vision for SDRMA? (Response Required)

THE OVERALL VISION OF THE SDRMA IS TO PROVIDE THE BEST POSSIBLE COVERAGE AND SERVICE TO ITS MEMBERS AND TO ALSO EDUCATE THEIR MEMBERS TO ALERT THEM TO COST EFFECTIVE SAFETY PROGRAMS TO SAFE GUARD THEIR EMPLOYEES HEALTH AND WELFARE.

I certify that I meet the candidate qualifications as outlined in the SDRMA election policy. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature R Michael Wright Date April 20, 2015

Special District Risk Management Authority
Board of Directors
Candidates' State of Qualifications

This Information will be distributed to the membership with the ballot, "exactly as submitted' by the candidates – no attachments will be accepted. No statements are endorsed by SDRMA

Nominee/Candidate: Sandy Seifert-Raffelson
District/Agency: Herlong Public Utility District
Work Address: 447-855 Plumas St, P O Box 515, Herlong CA 96113
Work Phone: (530) 827-3150 Home Phone: (530) 254-0234

Why do you want to serve on the SDRMA Board of Directors?

I am a current Board member of SDRMA and feel that I have added my financial background to make better informed decisions for our members. As a Board member, I have learned a lot about insurance issues and look forward to representing small District's and Northern California as a voice on the SDRMA Board. I feel I am an asset to the Board with my degree in business and my 29 years' experience in accounting and auditing. I have audited small districts and know what they need and what they can afford.

I understand the challenges that small District face every day when it comes to managing liability insurance and worker's compensation for a few employees with limited revenues and staff. My education and experience gives me an appreciation of the importance of risk management services and programs, especially for smaller district's that lack expertise with insurance issues on a daily basis.

I feel I am an asset to this Board and would love a chance to stay on the Board for 4 more years.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization)

I have worked as the District Clerk for the Herlong PUD for the last 7 years. Before that, I served as the Secretary to the Board of Herlong Utilities, Inc. and Office Administrator. I worked directly with the formation of our District which included working for 2 separate Board's of Directors and the transfer of assets from a public benefit corporation to a special district. As part of the team that worked to form the District I was directly involved with LAFCo, Lassen County Board of Supervisors and County Clerk to establish the District's initial Board of Directors as well as the transfer of multiple permits and closure procedures from multiple agencies for the seamless transition of our District operations. I closed out the Corporation books and established the books for the District transitioning to fund accounting. I have also administered the financial portion of a large capital improvement project with USDA as well as worked on the first ever successful water utility privatization project with the US Army and Department of Defense. I am currently working on HPUD's 2nd loan/grant for 4.8 million with USDA to improve the community's sewer system. I also am the primary administrator of a federal contract for utility services with the Federal Bureau of Prison.

While on the SDRMA Board, I have served on the nomination committee and SDLF Board. I have enjoyed learning and completing my duties on both boards and feel I have been an asset to both. I have served on CSDA's Audit and Financial Committee's for the last 2 years. In the last 20 years I have served on several Boards including school, church, 4-H, County and U.C. Davis.

Special District Risk Management Authority
Board of Directors
Candidates' State of Qualifications

What special skills, talents, or experience (including volunteer experience) do you have?

I have my Bachelors Degree in Business with a minor in Sociology. I have audited Small Districts for 5 years, worked for a Small District for 10 years and have 25 years of accounting experience. I am a good communicator and organizer. I have served on several Boards and feel I work well within groups or special committees. I am willing to go that extra mile to see things get completed.

I believe in recognition for jobs well done. I encourage Incentive programs that get members motivated to participate and strive to do their very best to keep all losses at a minuim and reward those with no losses.

I have completed my Certificate for Special District Board Secretary/Clerk Program in both regular and advance coursework through CSDA and co-sponsored by SDRMA. I have completed the CSDA Special District Leadership Academy and Special District Governance Academy. I have helped my small District obtain their District of Transparency and currently we are working on the District of Distinction.

I work for a District in Northeastern California that has under gone major changes from a Cooperative Company to a 501c12 Corporation, to finally a Public Utility District. I have worked with LAFCo to become a District. Also my District is currently working on a consolidation through LAFCo with another small District to better serve our small community. Through past experience I feel I make a great Board member representing the small districts of Northern California and their unique issues and will make decisions that would help all rural/small districts.

What is your overall vision for SDRMA?

For SDRMA to be at the top of the risk management field and have all of the Special Districts in the State utilizing their quality insurance and support at a price all California Special Districts can afford.

I certify that I meet the candidate qualifications as outlined in the SDRMA election policy. I further certify that I am willing to serve as director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature: Sandy Seifert-Raffelson **Date:** 4/2/15

RESOLUTION NO. 07.29.15.01

A RESOLUTION OF THE GOVERNING BODY OF THE
Florin Resource Conservation District
FOR THE ELECTION OF DIRECTORS TO THE SPECIAL DISTRICT
RISK MANAGEMENT AUTHORITY BOARD OF DIRECTORS

WHEREAS, Special District Risk Management Authority (SDRMA) is a Joint Powers Authority formed under California Government Code Section 6500 et seq., for the purpose of providing risk management and risk financing for California special districts and other local government agencies; and

WHEREAS, SDRMA's Sixth Amended and Restated Joint Powers Agreement specifies SDRMA shall be governed by a seven member Board of Directors nominated and elected from the members who have executed the current operative agreement and are participating in a joint protection program; and

WHEREAS, SDRMA's Sixth Amended and Restated Joint Powers Agreement Article 7 - Board of Directors specifies that the procedures for director elections shall be established by SDRMA's Board of Directors; and

WHEREAS, SDRMA's Board of Directors approved Policy No. 2015-01 Establishing Guidelines for Director Elections specifies director qualifications, terms of office and election requirements; and

WHEREAS, Policy No. 2015-01 specifies that member agencies desiring to participate in the balloting and election of candidates to serve on SDRMA's Board of Directors must be made by resolution adopted by the member agency's governing body.

NOW, THEREFORE, BE IT RESOLVED that the governing body of the Florin Resource Conservation District selects the following candidates to serve as Directors on the SDRMA Board of Directors:

(continued)

SDRMA

OFFICIAL 2015 ELECTION BALLOT
SPECIAL DISTRICT RISK MANAGEMENT AUTHORITY
BOARD OF DIRECTORS

VOTE FOR ONLY THREE (3) CANDIDATES

Mark each selection directly onto the ballot, voting for no more than three (3) candidates. Each candidate may receive only one (1) vote per ballot. A ballot received with more than three (3) candidates selected will be considered invalid and not counted. All ballots must be sealed and received by mail or hand delivery in the enclosed self-addressed, stamped envelope at SDRMA on or before 5:00 p.m., Tuesday, August 25, 2015. Faxes or electronic transmissions are NOT acceptable.

☐ **ROBERT SWAN**
Director/President, Groveland Community Services District

☐ **ED GRAY** (INCUMBENT)
Director/President, Chino Valley Independent Fire District

☐ **R. MICHAEL WRIGHT**
Director/President, Los Osos Community Services District

☐ **SANDY SEIFERT-RAFFELSON** (INCUMBENT)
District Clerk, Herlong Public Utility District

ADOPTED this ____ day of _____, 2015 by the Florin Resource Conservation District by the following roll call votes listed by name:

AYES: _____

NOES: _____

ABSTAIN: _____

ABSENT: _____

ATTEST: APPROVED:

_____ _____

July 29, 2015

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Ellen Carlson, Management Analyst

SUBJECT: **LEGISLATIVE UPDATE**

RECOMMENDATION

This item is presented for information only. No action by the Board is proposed at this time.

Summary

California legislators passed a $115.4 billion budget on June 19, 2015. The California State Legislature adjourned for its summer recess on Friday, July 17. The Assembly will resume work at noon on August 17, the Senate at 2 PM the same day. Two bills, AB 1 and AB 149 have already been chaptered.

DISCUSSION

Background

The Board requests monthly updates of legislation items related to the District. Attached is a table of bills being tracked by Staff.

Present Situation

The Budget Trailer Bill 825 discussed in the previous legislative report passed and is included in the new budget. The State Water Resources Control Board has the authority to consolidate local water systems of disadvantaged communities if they consistently fail to provide an adequate water supply.

AB 1, signed by Governor Brown on July 13th, prohibits cities and counties from imposing fines on property owners for failure to water lawns or for having brown lawns during a Governor-declared drought. AB 149 establishes deadlines for the next Urban Water Management Plans. Urban water suppliers must submit the 2015 Urban Water

Management Plan by July 1, 2016 to the Department of Water Resources and the 2020 report by July 1, 2021. The Department of Water Resources is required to submit their subsequent report to the Legislature by July 1, 2017 and the 2020 plan by July 1, 2022.

STRATEGIC PLAN CONFORMITY

Tracking active legislation complies with the District's Regulatory Compliance goals of the 2012-2017 Strategic Plan.

FINANCIAL SUMMARY

There is no direct financial impact associated with the legislative items at this time.

Respectfully submitted,

ELLEN R. CARLSON
MANAGEMENT ANALYST

Attachments

Current Legislation

Federal

Bill	HR 98
Author (s)	Conyers
Title	Preventing Termination of Utility Services in Bankruptcy Act of 2015
Introduced	1/6/2015
Summary	Dispenses with deposit requirements for utility services under certain conditions
Status	2/2/2015 referred to House committee on Regulatory Reform, Commercial and Antitrust Law
Support	
Opponents	

Bill	HR 212
Author (s)	Latta
Title	Drinking water protection act
Introduced	1/8/2015
Summary	Evaluates the risks of Cyanotoxin (from algae blooms) to public water systems
Status	2/25/2015 Received in Senate
Support	
Opponents	

Bill	HR 243
Author (s)	Kaptur
Title	Safe and Secure Drinking Water Act of 2015
Introduced	1/9/2015
Summary	Establishes regulations for microcystins in drinking water
Status	1/16/2015 referred to the subcommittee on Environment and the Economy
Support	
Opponents	

Bill	HR 291
Author (s)	Napolitano
Title	W21, Water in the 21st Century
Introduced	1/14/2015
Summary	Expands grants and water efficiency programs, supports local investments in water recycling and improved groundwater management and storage; invests in water saving research and desalination and establishes an open water data system, establishes a WaterSense program
Status	3/2/2015 referred to subcommittee on Water, Power and Oceans
Support	Metropolitan Water of Southern California, Western Recycled Water Coalition, Clean Water Construction Coalition, Northern California Water Association, North Bay Water Use Authority, WateReuse Association, Plumbing Manufacturers International, Water Now
Opponents	

Bill	HR 499
Author (s)	Duncan
Title	Sustainable Water Infrastructure Investment Act of 2015
Introduced	1/22/2015
Summary	Volume cap of private activity bonds will not apply for bonds financing water and sewage facilities
Status	1/22/2015 referred to House Ways and Means committee
Support	
Opponents	

Bill	HR 1482
Author (s)	DeGetter
Title	Fracturing Responsibility and Awareness of Chemical Act of 2015
Introduced	3/19/2015
Summary	Repeals the exemption of hydraulic fracturing in the Safe Drinking Water Act
Status	3/20/2015 referred to House sub-committee on Environment and the Economy
Support	
Opponents	

Bill	HR 1668
Author (s)	McClintock
Title	Save Our Water Act
Introduced	3/26/2015
Summary	Amends the Endangered Species Act of 1973 to provide for the suspension of application of the Act to water releases by Federal and State agencies in drought affected river basins and other purposes
Status	3/26/2015 referred to House committee on Natural Resources
Support	
Opponents	

Bill	HR 1709
Author (s)	McNerney
Title	Safe Drinking Water Act amendment for drought assessment and management
Introduced	3/26/2015
Summary	Would direct the EPA to monitor water quality in regions affected by drought and to make recommendations on how to mitigate those effects.
Status	3/27/2015 referred to sub-committee on Environment and the Economy
Support	
Opponents	

Bill	HR 1710
Author (s)	McNerney
Title	Drought Resilience Investment Act of 2015
Introduced	3/26/2015
Summary	Would suspend a ban on tax-exempt bonds in projects under the Water Infrastructure Finance and Innovation Act when the governor declares a drought state of emergency
Status	3/27/2015 referred to sub-committee on Environment and the Economy
Support	
Opponents	

Bill	HR 2898
Author (s)	Valadao
Title	Western Water and American Food Security Act of 2015
Introduced	6/25/2015
Summary	Promotes water delivery to Central Valley farmers and supports financing of new dams, redirects water currently allocated for fish
Status	7/16/2015 passed House with punctuation corrections made by Clerk
Support	
Opponents	

Bill	HR 2983
Author (s)	Huffman
Title	Drought Relief and Resilience Act
Introduced	7/8/2015
Summary	Funds water recycling, storm water capture and cleanup of polluted groundwater, provides a tax credit to homeowners who install water saving devices
Status	7/10/2015 in Natural Resources committee and committees on the Budget, Science, Space and Technology, Transportation and Infrastructure, Energy and Commerce, the Judiciary, Ways and Means, and Armed Services
Support	
Opponents	

Bill	HR 2993
Author (s)	Matsui
Title	Water Recycling Acceleration Act of 2015
Introduced	7/9/2015
Summary	Authorizes funding for water recycling projects in areas experiencing extreme drought
Status	7/9/2015 Referred to House committee on Natural Resources
Support	
Opponents	

Bill	HR 2997
Author (s)	Ross
Title	Private Investment in Housing Act of 2015
Introduced	7/9/2015
Summary	Directs Housing and Urban Development to establish a program for 12 years that establishes agreements for water and energy conservation projects in elderly, disabled multifamily housing units
Status	7/15/2015 Referred to Senate committee on Banking, Housing and Urban Affairs
Support	
Opponents	

Bill	HR 3045
Author (s)	McNerney
Title	California Water Recycling and Drought Relief Act
Introduced	7/13/2015
Summary	Authorizes 27 water recycling projects in California, mostly in the Bay Area or Fresno
Status	7/13/2015 Referred to House committee on Natural Resources
Support	
Opponents	

Bill	S 176
Author (s)	Boxer
Title	W21, Water in the 21st Century
Introduced	1/13/2015
Summary	Advances integrated water management and development through innovation, resiliency, conservation and efficiency in the 21st Century
Status	1/13/2015 referred to the committee on Environment and Public Works
Support	
Opponents	

Bill	S 268
Author (s)	Sanders
Title	Rebuild America Act of 2015
Introduced	1/27/2015
Summary	Allocates funds for revolving water project loans
Status	1/27/2015 read twice and referred to committee on Banking, Housing and Urban Affairs
Support	
Opponents	

Bill	S 741
Author (s)	Cardin
Title	Infrastructure Resiliency and Sustainability Act of 2015
Introduced	3/16/2015
Summary	Authorizes EPA to establish a program for awarding grants to owners/operators of water systems to increase the resiliency or adaptability of the systems to any ongoing or forecasted changes to the hydrologic conditions of a region of the United States
Status	3/16/2015 referred to committee on Environment and Public Works
Support	
Opponents	

Bill	S 886
Author (s)	Udall
Title	Smart Energy and Water Efficiency Act of 2015
Introduced	3/26/2015
Summary	Amends the Energy Policy Act of 2005 to provide for a smart energy and water efficiency pilot program
Status	4/30/2015 in committee on Energy and Natural Resources
Support	
Opponents	

California Assembly

Bill	AB 1
Author (s)	Brown
Title	Drought: local government
Introduced	12/1/2014
Summary	Prohibits cities or counties from imposing fines for not watering or having brown lawns during a Governor declared drought
Status	7/13/2015 signed into law by Governor Brown
Support	California Building Industry Association, Coachella Valley Water District, Desert Water Agency, East Bay Municipal Utility District, El Dorado Irrigation District, Municipal Water District of Orange County, Santa Clara Water District, Sierra Club
Opponents	

Bill	AB 21
Author (s)	Perea
Title	California Global Warming Solutions Act of 2006
Introduced	12/1/2014
Summary	Requires the state board by January 2018 to recommend a target for statewide emissions reduction for 2030
Status	6/30/2015 in Senate Environmental Quality committee, ordered to third reading
Support	California Chamber of Commerce, California Independent Oil Marketers Assoc., Agricultural Council of California, Industrial Environmental Association
Opponents	

Bill	AB 23
Author (s)	Patterson
Title	California Global Warming Solutions Act of 2006
Introduced	12/1/2014
Summary	Exempts certain persons or entities from compliance obligations through 2020
Status	3/23/2015 failed passage, reconsideration granted
Support	Greater Fresno Chamber of Commerce, Association of California Car Clubs, California Fresh Fruit Association, National Federation of Independent Business
Opponents	American Lung Association in California, California League of Conservation Voters, California Municipal Utilities Association

Bill	AB 33
Author (s)	Quirk
Title	California Global Warming Solutions Act of 2006: Sector Emissions Reduction Advisory Council
Introduced	12/1/2014
Summary	Changed to bill creating a Climate Change Advisory Council
Status	7/7/2015 passed Senate Rules committee and referred to Senate committee on Environmental Quality
Support	California Energy Storage Alliance, California Manufacturers and Technology Association
Opponents	

Bill	AB 78
Author (s)	Mathis
Title	Groundwater basin
Introduced	1/5/2015
Summary	Non substantive changes to the new groundwater basin law
Status	1/5/2015 Read first time, to print
Support	
Opponents	

Bill	AB 88
Author (s)	Gomez
Title	Sales and use tax exemptions
Introduced	1/7/2015
Summary	Exempts taxes for purchases of energy efficient or water efficient appliances by utilities for the installation in low income participants in an efficiency program
Status	7/15/2015 Read second time and amended, referred to Senate Appropriations committee
Support	California Building Industry Association, California League of Conservation Voters, Central Basin Municipal Water District, Community Water Center, San Diego County Water Authority, State Board of Equalization, Sierra Club
Opponents	California State Association of Counties, League of California Cities

Bill	AB 149
Author (s)	Chavez
Title	Urban Water Management Plans
Introduced	1/15/2015
Summary	Changes the deadline for the next UWMP from 2015 to 2017 and the 2020 report to 2022.
Status	7/6/2015 approved by Governor Brown and chaptered
Support	ACWA, Metropolitan Water District of Southern California (MET), San Diego County Water Authority, City of Sacramento, , East Bay Municipal Utility District, El Dorado Irrigation District
Opponents	

July 29, 2015/7

Bill	AB 153
Author (s)	Gomez
Title	Integrated regional water management plans
Introduced	1/15/2015
Summary	Technical, nonsubstantive change
Status	1/15/2015 from the printer
Support	
Opponents	

Bill	AB 259
Author (s)	Dababneh
Title	Personal information privacy
Introduced	2/9/2015
Summary	Requires that agencies held responsible for the compromise of a person's social security number or driver's license provide identity theft protection and related services
Status	7/15/2015 Referred to Senate appropriations committee
Support	AFL-CIO, California Chamber of Commerce, American Federation of State, County, and Municipal Employees
Opponents	CSDA, California Association of Joint Powers Authorities

Bill	AB 307
Author (s)	Mathis
Title	Groundwater recharge
Introduced	2/12/2015
Summary	Permits usage of residential, commercial and industrial graywater for the recharge of a groundwater basin or aquifer
Status	2/13/2015 from the printer
Support	
Opponents	

Bill	AB 356
Author (s)	Williams
Title	Oil and gas: groundwater monitoring
Introduced	2/17/2015
Summary	Requires well operators to implement monitoring programs for underground storage tanks and injection and disposal wells
Status	6/11/2015 reconsideration granted, moved to inactive file at author's request
Support	ACWA, Sierra Club, East Bay MUD,
Opponents	

Bill	AB 367
Author (s)	Dodd
Title	Clear Lake
Introduced	2/17/2015
Summary	Appropriates $2,400,000 from an unspecified source for the purpose of restoring Clear Lake wetlands
Status	5/29/2015 failed deadline pursuant to Rule 61 (a)(5)
Support	City of Lakeport, County of Lake, California Water Service, Elem Indian Colony, Save the Lake Committee, Lake County Association of Realtors
Opponents	

Bill	AB 453
Author (s)	Bigelow
Title	Groundwater Management
Introduced	2/23/2015
Summary	Authorizes the expenditure of moneys collected in the Water Rights Fund through fees imposed for the administration of the Sustainable Groundwater Management Act for the Sustainable Groundwater Management Act and certain groundwater reporting requirements.
Status	7/16/2015 read second time and amended, re-referred to Senate Appropriations
Support	ACWA, Valley Ag Water Coalition, Kings River Water Association, Regional Water Authority, Rural County Representative of California, California Citrus Mutual
Opponents	Center for Biological Diversity, Clean Water Action, Community Water Center

Bill	AB 454
Author (s)	Bigelow
Title	Sustainable Groundwater Management
Introduced	2/23/2015
Summary	Would require a high or medium priority basin to be managed by a groundwater sustainability plan or coordinated groundwater sustainability plan by 1/31/2023.
Status	4/14/2015 referred to Appropriations committee
Support	
Opponents	Center for Biological Diversity

Bill	AB 455
Author (s)	Bigelow
Title	Sustainable Groundwater Management: EIRs
Introduced	2/23/2015
Summary	Would require the Judicial Council to adopt procedures addressing the nullification of project EIRs by July 1, 2016.
Status	4/13/2015 referred to committees on Water, Parks and Wildlife and Natural Resources, first hearing cancelled at author's request
Support	
Opponents	

Bill	AB 585
Author (s)	Melendez
Title	Outdoor Water Efficiency Act of 2015: income tax credits
Introduced	2/24/2015
Summary	Would allow a 25% personal tax credit for water efficient improvements for qualified landowners up to $2,500
Status	7/16/2015 Re-referred to Assembly committee on Appropriations
Support	ACWA, CSDA, Metropolitan Water District of Southern California, California Apartment Association, California Landscape Contractors Association, California Municipal Utilities Association, Sierra Club
Opponents	

Bill	AB 603
Author (s)	Salas
Title	~~Turf removal tax credit~~ Every Drop Counts Tax Credit
Introduced	2/24/2015
Summary	Would allow a credit to taxpayers an amount equal to 25% of the costs to replace a conventional lawn, not to exceed $1,500
Status	5/28/2015 Joint Rule 62(a), file notice suspended. Held under submission
Support	ACWA, Metropolitan Water District of Southern California, San Diego County Water Authority, California Building Industry Association
Opponents	California Tax Reform Association

Bill	AB 606
Author (s)	Levine
Title	Water conservation: public properties
Introduced	2/24/2015
Summary	Would require the Department of General Services to examine public properties acquired after January 1, 2015 and identify and implement where irrigation efficiencies can be improved and requires drought tolerant landscaping in new landscaping projects
Status	7/6/2015, in Senate Appropriations committee, hearing scheduled for 8/17/2015
Support	ACWA, Ms. Honda's fourth grade class, Manor Elementary, Fairfax, CA; Regional Water Authority, San Diego County Water Authority, Water Reuse California
Opponents	

Bill	AB 639
Author (s)	Dahle
Title	Organization and membership of regional water quality boards
Introduced	2/24/2015
Summary	Technical, nonsubstantive changes
Status	2/25/2015 from the printer, may be heard after March 27
Support	
Opponents	

Bill	AB 647
Author (s)	Eggman
Title	Beneficial use: diversion of water underground
Introduced	2/24/2015
Summary	Finds that the diversion of water underground constitutes a beneficial use of water for which an appropriation may be made
Status	7/13/2015 in Senate Natural Resources and Water committee, hearing cancelled at the request of the author
Support	San Joaquin County Board of Supervisors, Stockton East Water District
Opponents	Metropolitan Water District of Southern California, Sierra Club, Center for Biological Diversity, Clean Water Action, Community Water Center, Natural Resources Defense Council, Leadership Counsel for Justice and Accountability

Bill	AB 723
Author (s)	Rendon
Title	~~Water Sense standards~~ Rental property: plumbing fixtures replacement
Introduced	2/25/2015
Summary	Requires rental or lease agreements for either a single family home or a multifamily residential property or a commercial property entered into or amended after July 1, 2016 or January 1, 2014 to include a written disclosure of the property owners requirement to replace all noncompliant plumbing fixtures with water conserving fixtures
Status	7/16/2015 from Senate Judiciary committee, read second time and amended, referred to Appropriations committee
Support	ACWA, San Diego County Water Authority
Opponents	California Association of Realtors, California Southern Cities

Bill	AB 761
Author (s)	Levine
Title	Carbon sequestration: working lands
Introduced	2/25/2015
Summary	Would require the Food and Drug Administration to establish a grant program to fund voluntary projects that increase carbon sequestration
Status	7/16/2015 Referred to Senate Appropriations committee
Support	Audubon California, California State Grange, California's Cattlemen's Association
Opponents	

Bill	AB 935
Author (s)	Salas
Title	~~Integrated Regional Water Management Plans~~ Water Projects
Introduced	2/26/2015
Summary	Would require the Department of Water Resources to fund a project on the Friant-Kern Canal restoration project and a project for the Delta-Mendota Canal
Status	7/17/2015 from Senate Natural Resources and Water committee, referred to Appropriations
Support	California Citrus Mutual, Desert Water Agency
Opponents	

Bill	AB 936
Author (s)	Salas
Title	Groundwater monitoring
Introduced	2/26/2015
Summary	Allows entities in an area that does not have groundwater monitoring to apply for grant funding to support a project that would create compliance with the monitoring requirements
Status	5/28/2015 in Appropriations committee; held under submission
Support	ACWA, Rural County Representatives of California, Valley Ag Water Coalition
Opponents	

Bill	AB 937
Author (s)	Salas
Title	~~Groundwater storage~~ Groundwater planning: technical assistance to disadvantaged communities
Introduced	2/26/2015
Summary	Requires the Department of Water Resources to provide technical assistance to disadvantaged communities so that they may participate in groundwater planning
Status	7/16/2015 Amended by Senate committee on Natural Resources and Water and re-referred to Senate Appropriations
Support	ACWA
Opponents	Center for Biological Diversity, Clean Water Action, Community Water Center, Leadership Counsel for Justice and Accountability

Bill	AB 938
Author (s)	Salas
Title	Groundwater basin reprioritization
Introduced	2/26/2015
Summary	Requires the establishment of a groundwater sustainability agency or submission of an alternative after the reprioritization of agencies overlying a groundwater basin
Status	7/13/2015 in Senate Natural Resources and Water committee, hearing cancelled at the request of the author
Support	ACWA, Rural County Representatives of California
Opponents	

Bill	AB 939
Author (s)	Salas
Title	Financial authority of groundwater sustainability agencies
Introduced	2/26/2015
Summary	Imposes the requirement of the establishment of a groundwater sustainability agency and requires groundwater sustainability agencies to make fee information available 20 days before a public meeting is held to discuss implementing or increasing this fee
Status	7/16/2015 Ordered to third reading, in Senate Natural Resources and Water committee
Support	
Opponents	

Bill	AB 954
Author (s)	Mathis
Title	Water and Wastewater Loan and Grant Pilot Program
Introduced	2/26/2015
Summary	Amended subject to a pilot program to provide low interest loans and grants for drinking water and wastewater treatment, transferring $10,000,000 from the General Fund for that purpose
Status	7/16/2015 Referred to Senate Appropriations committee
Support	California State Association of Counties, California League of Conservation Voters, Clean Water Action, Community Water Center, Friends of the River, Wholly H2O
Opponents	

Bill	AB 957
Author (s)	Mathis
Title	Water Quality, Supply and Infrastructure Improvement Act of 2014
Introduced	2/26/2015
Summary	Authorizes the issuance of $7,545,000,000 in bonds to finance a water quality, supply and infrastructure program, $725,000,000 of this for expenditures, grants and loans for water recycling and advanced treatment technology projects
Status	4/6/2015 amended and re-referred to Water, Parks & Wildlife
Support	Kern County Board of Supervisors
Opponents	ACWA

Bill	AB 1033
Author (s)	Garcia
Title	Infrastructure financing
Introduced	2/26/2015
Summary	Revises the definition of economic development facilities to include good movement facilities
Status	3/19/2015 referred to committees on Jobs, Economic Development and the Economy, and Transportation
Support	
Opponents	

Bill	AB 1128
Author (s)	Jones-Sawyer
Title	Water Conservation
Introduced	2/27/2015
Summary	Technical, nonsubstantive changes
Status	3/2/2015 read first time
Support	
Opponents	

Bill	AB 1137
Author (s)	Mullin
Title	Public utility districts: seal
Introduced	2/27/2015
Summary	Technical, nonsubstantive changes
Status	3/2/2015 read first time
Support	
Opponents	

Bill	AB 1139
Author (s)	Campos
Title	Tax Credit for Turf Removal
Introduced	2/27/2015
Summary	Would permit taxpayers participating in a lawn replacement program to receive a $2 per square foot tax credit up to $50,000
Status	5/4/2015 in Revenue and Taxation committee, hearing cancelled at author's request
Support	ACWA
Opponents	

Bill	AB 1164
Author (s)	Gatto
Title	Drought tolerant landscaping
Introduced	2/27/2015 (as autonomous vehicle bill)
Summary	Prohibits cities and counties from enacting regulations against the installation of synthetic turf
Status	7/16/2015 From Senate Natural Resources and Water committee, referred to Appropriations
Support	ACWA, City of Los Angeles, Metropolitan Water District of Southern California, Three Valleys MWD, California Association of Realtors
Opponents	

Bill	AB 1173
Author (s)	Williams
Title	Backflow prevention devices testing: certification
Introduced	2/27/2015
Summary	In the event that the local health officer does not maintain a backflow certification program, testing and maintenance of backflow devices may be performed by a person with a California-specific backflow certification deemed acceptable
Status	7/14/2015 in Senate Environmental Quality committee, hearing cancelled at the request of the author
Support	California State Association of Electrical Workers, International Association of Plumbing and Mechanical Officials, Western States Council of Sheet Metal Workers
Opponents	ACWA, California Municipal Utilities Association, California Water Association, Sacramento County Board of Supervisors

Bill	AB 1242
Author (s)	Gray
Title	Groundwater impacts
Introduced	2/27/2015
Summary	Requires State Board to take into consideration in formulating state policy for water quality control the requirements of the California Environmental Quality Act, any applicable groundwater sustainability plan or alternative
Status	7/16/2015 Passed Senate Environment Quality committee and referred to Appropriations
Support	ACWA, Coalition of California Utility Employees, Regional Water Authority, California Farm Bureau Federation, League of California Cities – Central Valley Division
Opponents	California League of Conservation Voters, Clean Water Action, Friends of the River, Center for Biological Diversity, The Nature Conservancy

Bill	AB 1243
Author (s)	Gray
Title	Groundwater recharge grants
Introduced	2/27/2015
Summary	Would establish the Groundwater Recharge Grant Fund and manage funds appropriated to the SWRCB for groundwater recharge grant programs
Status	3/23/2015 referred to committee on Water, Parks and Wildlife, hearing scheduled for 4/14/2015
Support	
Opponents	Union of Concerned Scientists, Clean Water Action, Community Water Center, Leadership Counsel for Justice & Accountability, Sierra Club

Bill	AB 1244
Author (s)	Gray
Title	Water rights: small irrigation use
Introduced	2/27/2015
Summary	Requires the SWRCB to adopt conditions for small irrigation use
Status	4/28/2015 in committee on Water, Parks and Wildlife, held under submission
Support	California Association of Winegrape Growers, California Farm Bureau Federation
Opponents	

Bill	AB 1251
Author (s)	Gomez
Title	Greenway Development and Sustainment Act
Introduced	2/27/2015
Summary	Enacts the Greenway Development and Sustainment Act and applies to greenway easements certain creation and transfer provisions similar to those of conservation easements. Also defines greenways
Status	7/13/2015 In Senate Appropriations committee, sent to suspense file
Support	California League of Conservation Voters, California Trout, Los Angeles County Board of Supervisors, Sierra Club
Opponents	Central Coast Forestry Association

Bill	AB 1390
Author (s)	Alejo and Perea
Title	Groundwater adjudication
Introduced	2/27/2015
Summary	Establishes procedures to streamline the groundwater adjudication process
Status	7/6/2015 amended and re-referred to Judiciary committee
Support	ACWA, if amended, California Chamber of Commerce, Agricultural Council of California, California Cattlemen's Association, California Chamber of Commerce
Opponents	California League of Conservation Voters, California State Association of Counties, Clean Water Action, Sierra Club

Bill	AB 1463
Author (s)	Gatto
Title	Onsite recycled water
Introduced	2/27/2015
Summary	Requires the SWRCB to establish water quality standards and requirements for onsite water recycling systems prior to authorizing their use for commercial and residential buildings
Status	7/8/2015 in Senate committee on Environmental Quality, hearing canceled at the request of author
Support	California Building Industry Association, California Business Properties Association, Sierra Club
Opponents	

Bill	AB 1531
Author (s)	Alejo
Title	State Water Resources Control Board
Introduced	3/23/2015
Summary	Authorizes the SWRCB to adopt emergency regulations without the review of the Office of Administrative Law
Status	7/16/2015 Amended and re-referred to Senate Appropriations committee
Support	
Opponents	ACWA, unless amended

California Senate

Bill	SB 1
Author (s)	Gaines
Title	California Global Warming Solutions Act of 2006
Introduced	12/1/2014
Summary	Creates exemptions for certain people or entities from compliance with the previous act
Status	4/7/2015 hearing in Environment Quality committee cancelled at author's request
Support	
Opponents	

Bill	SB 3
Author (s)	Leno
Title	Minimum wage increase
Introduced	12/1/2014
Summary	Increases minimum wage to $11 as of January 2016 and to $13 in July 2017
Status	7/9/2015 Passed Assembly Labor and Employment committee and referred to Appropriations
Support	ACLUU, American Association of University Women, CA; CA School Employees Association, AFL-CIO, California Rural Legal Assistance Foundation, Consumer Federation of California, National Domestic Workers Alliance, Organize Sacramento
Opponents	Agricultural Council of California, California Chamber of Commerce, California Farm Bureau Federation, California Taxpayers Association, Sacramento Metropolitan Chamber of Commerce, Western Growers Association

Bill	SB 5
Author (s)	Vidak
Title	California Global Warming Solutions Act of 2006
Introduced	12/1/2014
Summary	Exempts categories of people and entities through December, 2020.
Status	4/15/2015 failed passage, reconsideration granted
Support	American Refuse, Fresno County Board of Supervisors, Fresno County Farm Bureau
Opponents	American Lung Association, California Municipal Utilities Association

Bill	SB 7
Author (s)	Wolk
Title	Water meters: multi-units
Introduced	12/1/2014
Summary	Authorizes the Department of Housing and Community Development to develop standards for water submeter installation in multi-unit residential properties, amended to require the installation of the submeters to be completed by licensed plumbing contractors
Status	7/16/2015 In Assembly committee on Water, Park and Wildlife, referred to Appropriations
Support	Santa Clara Valley Water District, California Municipal Utilities Association, Sierra Club, California Association of Realtors, California Building Industry Association
Opponents	California State Pipe Trades Council, Coalition of California Utility Employees

Bill	SB 13
Author (s)	Pavley
Title	Groundwater sustainability
Introduced	12/1/2014
Summary	Amends the Sustainable Groundwater Management Act to provide local agencies or groundwater sustainability agencies up to 180 days to remedy deficiencies that designate basins as probationary
Status	7/16/2015 Ordered to second reading Assembly Appropriations
Support	ACWA, if amended, California Groundwater Coalition, Clean Water Action, Community Water Center, Leadership Counsel for Justice and Accountability
Opponents	

Bill	SB 20
Author (s)	Pavley
Title	Public availability of well reports
Introduced	12/1/2014
Summary	Requires DWR to make well reports available to the public on request, also authorizes State Water Resources Control Board to designate high or medium priority basins as probationary basins
Status	6/20/2015 in Assembly, read first time and held at desk.
Support	Sierra Club, American Society of Civil Engineers, East Bay Municipal Utility District, Friends of the River, Groundwater Resources Association of California
Opponents	California Chamber of Commerce, California Farm Bureau Federation, Valley Ag Water Coalition, California League of Food Processors, Family Winemakers of California

Bill	SB 32
Author (s)	Pavley
Title	Global Warming Solutions Act of 2006
Introduced	12/1/2014
Summary	Extends limitations on greenhouse gases to 2050, limitations to be 40% below the 1990 level to be achieved by 2030
Status	7/14/2015 Passed Assembly Natural Resources committee and referred to Appropriations
Support	Sierra Club, Bay Area Air Quality Management District, 350 Sacramento, American Cancer Society Cancer Action Network, American Academy of Pediatrics, American Heart Association, California Municipal Utilities Association
Opponents	Agricultural Council of California, Associated Builders and Contractors of California, California Chamber of Commerce, California Building Industry Association

Bill	SB 47
Author (s)	Hill
Title	Synthetic turf
Introduced	12/17/2014
Summary	Requires the Office of Environmental Health Hazards to develop a report analyzing synthetic turf for adverse health hazards; would prohibit schools and governments from installing synthetic turf until six months after the report's completion
Status	5/28/2015 held in Senate Appropriations committee and under submission
Support	California Native Plant Society, Center for Environmental Health, Sierra Club, California Safe Schools, The Turf Authority, Golden Gate Park Preservation Alliance
Opponents	American Sports Builders Association, California Association of School Business Officials, Liberty Tire Recycling, Synthetic Turf Council

Bill	SB 127
Author (s)	Vidak
Title	Water Quality, Supply and Infrastructure Improvement Act of 2014
Introduced	1/20/2015
Summary	Requires public agencies to comply with new environmental impact reporting standards for permit approval
Status	4/1/2015 hearing in Environmental Quality committee cancelled at author's request
Support	
Opponents	ACWA, unless amended; CSDA

Bill	SB 173
Author (s)	Nielson and Vidak
Title	Groundwater: di minimus extractors
Introduced	2/5/2015
Summary	Exempts from the Sustainable Groundwater Management act all domestic wells that drawn less than 10 acre feet per year
Status	3/24/2015 failed passage in committee, reconsideration granted
Support	
Opponents	ACWA, unless amended

Bill	SB 208
Author (s)	Lara
Title	Integrated Regional Water Management Plans: advanced payment for grants
Introduced	2/11/2015
Summary	Within 90 days of a grant award, regional water management groups will present evidence of projects supporting low income, disadvantaged communities and thereby will receive advanced payment of 50% of the grant awards
Status	7/15/2015 in Assembly Appropriations suspense file.
Support	ACWA, East Bay MUD, CSDA (if amended), San Diego County Water Authority, California Municipal Utilities Association, The Nature Conservancy
Opponents	

Bill	SB 226
Author (s)	Pavley
Title	Groundwater Rights
Introduced	2/13/2015
Summary	Will establish a timely method for determining the boundaries of groundwater basins
Status	7/7/2015 from Assembly Judiciary committee, referred to Appropriations
Support	Sierra Club, American River Conservancy, Clean Water Action, Sacramento River Preservation Trust, Restore the Delta, The Nature Conservanyc
Opponents	California Chamber of Commerce, ACWA unless amended, Agricultural Council of California, California Farm Bureau Federation, Western Growers Association

Bill	SB 228
Author (s)	Canella
Title	Groundwater storage: Beneficial use
Introduced	2/17/2015
Summary	Declares that the repelling of saline intrusion through the recharging of a groundwater basin is a beneficial purpose use of water
Status	4/6/2015 hearing scheduled for April 14 cancelled at author's request
Support	
Opponents	

Bill	SB 239
Author (s)	Hertzberg
Title	Fire Protection Services
Introduced	2/17/2015
Summary	Amended to address LAFCO consideration of fire protection services,
Status	7/16/2015 from Assembly Local Government committee, referred to Appropriations
Support	California Professional Firefighters, CAL FIRE, California Labor Federation
Opponents	CSDA, California State Association of Counties, League of California Cities

Bill	SB 246
Author (s)	Wieckowski
Title	Climate Action Team
Introduced	2/18/2015
Summary	Creates the Climate Adaptation and Resiliency Program under the direction of the Office of Planning and Research, consisting of representatives from various State agencies to coordinate State climate change goals
Status	7/14/2015 from Assembly Natural Resources committee, referred to Appropriations
Support	Audubon California, California League of Conservation Voters, Sacramento Metropolitan Air Quality Management District, Mosquito and Vector Control Association of California, TreePeople
Opponents	

Bill	SB 385
Author (s)	Hueso
Title	Primary drinking water standards: Hexavalent Chromium: compliance plan
Introduced	2/24/2015
Summary	Authorizes the state board, through 1/20/2020, to grant periods in which to comply with the standard, provided that the requesting water agency prepares and submits a compliance plan, notifies its customers of this plan and submits an annual update as to the status of that plan
Status	7/16/2015 Read second time and ordered to consent calendar in Assembly Appropriations
Support	ACWA, CSDA, Metropolitan Water of Southern California, AWWA, California Municipal Utilities Association, California Water Association, Regional Water Authority
Opponents	

Bill	SB 454
Author (s)	Allen
Title	Water quality: oil and gas exemptions
Introduced	2/25/2015
Summary	Prohibits the Division of Oil, Gas and Geothermal Resources from submitting a proposal for an aquifer exemption without concurrence from the State Water Resources Control Board
Status	6/8/2015 ordered to inactive file on author's request
Support	Sierra Club, ACWA, California League of Conservation Voters, League of Women Voters
Opponents	California Chamber of Commerce, Associated Builders & Contractors of California

Bill	SB 471
Author (s)	Pavley
Title	Reduction of greenhouse gas emissions
Introduced	2/26/2015
Summary	Requires that the Strategic Growth Council develop an emissions inventory of the greenhouse gas emissions from the State's water system. Requires a study on water-related energy use in California
Status	7/16/2015 From Assembly Natural Resources committee, referred to Appropriations
Support	ACWA, if amended; EBMUD, California Municipal Utilities Association
Opponents	

Bill	SB 487
Author (s)	Nielsen
Title	Groundwater Management Act: CEQA exemptions
Introduced	2/26/2015
Summary	Exempts from the CEQA requirements the formation of a groundwater sustainability agency, the amendment of a groundwater sustainability plan or a coordinated groundwater sustainability plan to the extent of the implementation of that plan, excepting the construction of a new facility
Status	4/30/2015 hearing canceled at request of the author
Support	ACWA, Rural County Representatives of California
Opponents	Clean Water Action, Community Water Center, Sierra Club

Bill	SB 553
Author (s)	Wolk
Title	Water conservation
Introduced	2/26/2015
Summary	Would require the department of General Services to identify each public property in the department's inventory where water consumption can be reduced and water efficiencies can be implemented through the model water efficiency landscape ordinance
Status	5/28/2015 May 28 hearing cancelled, held in Appropriations committee under submission
Support	ACWA, Metropolitan Water District of Southern California, San Diego Water Authority
Opponents	

Bill	SB 555
Author (s)	Wolk
Title	Water loss audits
Introduced	2/26/2015
Summary	Requires each urban water supplier to submit water loss audits by 1/1/2017 according to rules to be established by DWR by 10/1/2016. DWR will be required to publish the reports on their Web site and provide technical assistance to water loss detection programs
Status	7/14/2015 passed Assembly Appropriations committee and will go to Assembly vote
Support	California League of Conservation Voters, Clean Water Action, Sierra Club
Opponents	ACWA, unless amended, California Municipal Utilities Association, unless amended

Bill	SB 568
Author (s)	Fuller
Title	Groundwater management
Introduced	2/26/2015
Summary	Declares the intent of the Legislature to enact legislation related to the Sustainable Groundwater Management Act
Status	3/12/2015 referred to Rules committee
Support	
Opponents	

Bill	SB 664
Author (s)	Hertzberg
Title	Department of Water Resources
Introduced	2/27/2015
Summary	Adds seismic vulnerability of infrastructure to urban water management planning requirements
Status	7/15/2015 in Assembly Appropriations, placed in suspense file
Support	East Bay MUD, California State Council of Laborers, Sierra Club
Opponents	ACWA, unless amended

Bill	SB 768
Author (s)	Weickowski
Title	Water conserving plumbing fixtures
Introduced	2/27/2015
Summary	Technical, nonsubstantive changes
Status	3/19/2015 referred to Rules committee
Support	
Opponents	