

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

Wednesday, June 22, 2016

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

Associate Director Comment

Public Comment

2. Consent Calendar (Stefani Phillips, Board Secretary and Jim Malberg, Treasurer)

- a. Minutes of Regular Board Meeting of May 25, 2016
- b. Minutes of Special Meeting of June 8, 2016
- c. FRCD Cash Flow Worksheet – May, 2016
- d. Warrants Paid – May, 2016
- e. Active Accounts – May, 2016
- f. Bond Covenant Status for FY 2015-16 – May, 2016
- g. Revenues and Expenses – Actual vs Budget FY 2015-16 – May, 2016
- h. Cash Accounts – May, 2016
- i. Consultants Expenses – May, 2016
- j. Major Capital Improvement Projects – May, 2016

Associate Director Comment

Public Comment

Recommended Action: Approve FRCD Consent Calendar

- 3. Committee Meetings** (Stefani Phillips, Board Secretary)
 - a. Finance Committee Meeting – June 8, 2016

Associate Director Comment

Public Comment

Recommended Action: Accept minutes of the Finance Committee Meeting Minutes held on June 8, 2016

- 4. Florin Resource Conservation District Conservation Activities Report**
(Mark J. Madison, General Manager)

Associate Director Comment

Public Comment

- 5. Water Usage Report**
(Mark J. Madison, General Manager)

Associate Director Comment

Public Comment

- 6. Elk Grove Water District Operations Report – May 2016**
(Mark J. Madison, General Manager)

Associate Director Comment

Public Comment

- 7. General Manager's Report** (Mark J. Madison, General Manager)

Associate Director Comment

Public Comment

- 8. Florin Resource Conservation District/Elk Grove Water District Workers Compensation Insurance** (Stefani Phillips, Human Resources Administrator)

Associate Director Comment

Public Comment

Recommended Action: Adopt Resolution No. 06.22.16.01, of the Board of Directors of the Florin Resource Conservation District authorizing application to the Director of Industrial Relations, State of California for a Certificate of Consent to Self-Insure Workers' Compensation Liabilities

9. Public Hearing – 2015 Urban Water Management Plan

Associate Director Comment

Public Comment

Recommended Action: Approve Resolution 06.22.16.02 of the Board of the Directors of the Florin Resource Conservation District Adopting the 2015 Urban Water Management Plan subject to the receipt and consideration of comments during the public hearing on this matter.

10. Florin Resource Conservation District Fiscal Year 2016-17 Budget

(Jim Malberg, Finance Manager/Treasurer)

Associate Director Comment

Public Comment

Recommended Action: Adopt Resolution No. 06.22.16.03 approving the Florin Resource Conservation District Fiscal Year 2016-17 Budget

11. Elk Grove Water District Fiscal Year 2016-17 Operating Budget

(Jim Malberg, Finance Manager/Treasurer)

Associate Director Comment

Public Comment

Recommended Action: Adopt Resolution No. 06.22.16.04 approving the Elk Grove Water District Fiscal Year 2016-17 Operating Budget

12. Elk Grove Water District Fiscal Year 2017-2021 Capital Improvement Program

(Bruce Kamilos, Associate Civil Engineer)

Associate Director Comment

Public Comment

Recommended Action: Adopt Resolution 06.22.16.05 adopting the Elk Grove Water District Fiscal Year 2017- 2021 Capital Improvement Program

13. Investment Policy Guidelines Fiscal Year 2016-17

(Jim Malberg, Finance Manager/Treasurer)

Associate Director Comment

Public Comment

Recommended Action: Adopt Resolution No. 06.22.16.06 adopting the Fiscal Year 2016-17 Investment Policy Guidelines of the Florin Resource Conservation District

14. Directors Comments and Information

Adjourn to Regular Meeting – July 27, 2016.

June 22, 2016

TO: Chairman and Directors of the Florin Resource Conservation District
FROM: Stefani Phillips, Board Secretary and Jim Malberg, Treasurer
SUBJECT: CONSENT CALENDAR

RECOMMENDATION

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

Summary

By this action, the Board will approve FRCD Consent Calendar items a – j.

DISCUSSION

Background

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

FINANCIAL SUMMARY

N/A

Respectfully Submitted,



STEFANI PHILLIPS, BOARD SECRETARY AND
JIM MALBERG, TREASURER

SP

Attachments

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

Wednesday, May 25, 2016

The regular meeting of the Florin Resource Conservation District Board of Directors 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, Bob Gray, Elliot Mulberg, Jeanne Sabin
Directors Absent: Tom Nelson
Staff Present: Mark J. Madison, General Manager; Stefani Phillips, Secretary;
Bruce Kamilos, Assistant General Manager; Jim Malberg, Finance
Manager; Donella Murrillo, Finance Supervisor
Associate Directors Present: Lisa Medina, Mike Schmitz
General Counsel Present: Sigrid Asmundson, Best Best & Krieger (BB&K)
Consultants Present: Greg Young, Tully & Young

Public Comment

Chuck Dawson, Chairman, requested to move agenda item no. 8 behind agenda item no. 3.

1. Proclamations and Announcements

No comments were made.

2. Consent Calendar

- a. Regular Meeting Minutes – April 27, 2016
- b. FRCD Cash Flow Worksheet – April, 2016
- c. Warrants Paid – April, 2016
- d. Active Accounts – April, 2016
- e. Bond Covenant Status for FY 2015-16 – April, 2016
- f. Revenues and Expenses – Actual vs. Budget FY 2015-16 – April, 2016
- g. Cash Accounts – April, 2016
- h. Consultants Expenses – April, 2016
- i. Major Capital Improvement Projects – Budget vs. Actuals – April, 2016

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

3. Committee Meetings

There were two committee meetings held in the months of April and May:

- Special Meeting of the Infrastructure Committee Minutes – April 21, 2016
- Meeting of the Finance Committee Minutes – May 11, 2016

Mark Madison, General Manager, gave kudos to Bruce Kamilos, Assistant General Manager, on a job well done on the Draft Fiscal Year 2017-21 (FY 2017-21) Capital Improvement Plan (CIP) document. Mr. Madison then stated that revisions to the CIP document have been made and an updated version was sent to the Board. Mr. Madison commented that the Draft FY 2017-21 CIP will be presented at the Finance Committee meeting scheduled for June 8, 2016.

MSC (Sabin/Gray) to accept the minutes of the Special Meeting of the Infrastructure Committee held on April 21, 2016 and the Finance Committee meeting held on May 11, 2016 4/0: Ayes: Dawson, Gray, Mulberg, and Sabin.

8. Draft 2015 Urban Water Management Plan

Bruce Kamilos, Assistant General Manager presented the Draft 2015 Urban Water Management Plan (UWMP) to the Board.

Mr. Kamilos introduced Greg Young, P.E. with Tully & Young.

Mr. Young noted the following:

- 2015 UWMP public draft will be made available no sooner than 14 days to the June 22, 2016 Board meeting
- June 22, 2016 Board Meeting will be a public hearing and an adoption as required by the water statute Elk Grove Water District's (EGWD) water supplies are sufficient to meet forecasted water demand through 2045
- The UWMP 2020 water consumption target for EGWD's customer base will likely be achieved to comply with state-mandated conservation requirements

Elliot Mulberg, Director, commented that the demands are set equal to the supply in Chapter 7 (referencing Table 7-1 of the UWMP). Mr. Young responded stating the District has a stable supply to meet the demand due to the District having groundwater and that is why the demands are set equal to the supply. He then stated since the demand may vary the supply will vary (referencing Table 7-3 of the UWMP).

Mr. Mulberg inquired what assumptions were made going from the second dry year to the third dry year. Mr. Young responded stating 10 percent and then 25 percent.

Bob Gray, Director, inquired if the allowable draw on the basin was 270,000 AF/year. Mr. Young responded stating that was determined by the Central Sac County Groundwater Authority (referenced figure 3-5 on page 3-11).

Mark Madison, General Manager, asked for comments from the Board by Wednesday, June 1, 2016. Mr. Young clarified that a notification of a public hearing is scheduled for June 8, 2016 and the District has a choice on whether the document should be made available for viewing on or after June 8, 2016.

4. Amendment to Water Shortage Contingency Plan and Implementation of Normal Water Supply Stage

Mark Madison, General Manager, presented the Amendment to the Water Shortage Contingency Plan and Implementation of Normal Water Supply Stage to the Board. In summary, on May 9, 2016, Governor Brown issued an Executive Order adjusting water conservation regulations through the end of January 2017. On May 18, 2016, the State Water Resources Control Board (Water Board) adopted emergency regulations in compliance with the Governor's Order and for continued statewide urban water conservation, revising certain requirements of urban water suppliers. These new requirements will go into effect on June 1, 2016. As these new requirements relate to the District, water waste will continue to be prohibited.

Mr. Madison provided background on the previously enforced Stage 2 Plus.

Mr. Madison stated that the District customers have achieved a 35 percent level of water savings.

Mr. Madison provided much background on the Governor's Executive order.

Mr. Madison recommended the following notable items:

1. Modify the Normal Stage as identified in the District's Water Shortage Contingency Plan
2. Approve and direct the District to implement the Normal Stage

A discussion occurred regarding irrigation hours.

Bob Gray, Director, suggested that the District include a mailer requesting customers not to water mid-day.

Jeanne Sabin, Director, inquired if employees go into restaurants to check on whether they are serving water to all or when customers ask for it. Mr. Madison responded that the District has taken extra measures to ensure restaurants are serving water only when customers ask (i.e. tents cards on conservation).

Ms. Sabin encouraged enforcement during non-watering hours. Mr. Madison explained that if there isn't a designated employee for water conservation then someone else has to be pulled to research complaints. Elliot Mulberg, Director, commented that he agreed with Mr. Madison's explanation but then alluded that it could happen on other regulations if enforcement is not encouraged.

Greg Young, P.E. stated that restaurant restrictions are not mandated. Mr. Madison added that the Governor Executive Order has not included the restaurant restrictions under the current mandated regulations. He then repeated the five mandated regulations:

1. Hosing off sidewalks, driveways, and other hardscapes
2. Washing automobiles with hoses not equipped with a shut-off nozzle
3. Using non-recirculated water in a fountain or other decorative water feature
4. Watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation
5. Irrigating ornamental turf on public street medians

Mr. Gray inquired if the restrictions were the same as last year. Mr. Young responded stating that some restrictions were removed.

Forrest Williams, Board Member with Sacramento County Groundwater Authority, stated Sacramento County will implement new water regulations in three (3) weeks.

A discussion occurred on practices that should be considered required or encouraged.

Mr. Mulberg motioned and Chuck Dawson, Chairman seconded to keep the five prohibitions required reductions and encourage fixing water leaks, not serving water at restaurants unless requested, and not irrigating between 12:00 and 6:00 p.m. in the summer months.

Mr. Young commented that drip irrigation is excluded from time of day.

Ms. Sabin suggested to amend Mr. Mulberg's motion to add fixing of water leaks and serving of water to the prohibitions. She then suggested not permitting landscape irrigation

between the hours of 12:00 p.m. and 6:00 p.m. (during summer months of May - October), and have drip irrigation excluded from the time frames.

MSC (Mulberg/Dawson) to keep the five prohibitions required reductions and encourage fixing water leaks, not serving water at restaurants unless requested, and not irrigating between 12:00 p.m. and 6:00 p.m. in the summer months. 3/1: Ayes: Dawson, Gray, Mulberg; Noes: Sabin.

5. Florin Resource Conservation District Conservation Activities Report

Mark Madison, General Manager, presented the Florin Resource Conservation District Conservation Activities Report to the Board.

Mr. Madison spoke about the FRCD becoming the groundwater sustainability agency (GSA) for the FRCD jurisdictional area. He stated that he is not ready to make a recommendation at this time.

Mr. Madison commented that he would like to call a special board meeting on June 8, 2016 and to bring back the GSA discussion.

There was much discussion about what it will take to become a GSA. The Board stated they would like a report explaining the process to become a GSA.

Elliot Mulberg, Director, commented that he would like a recommendation brought back to the special meeting June 8, 2016. Mr. Madison responded stating that he would have a full report at the June 8, 2016 meeting.

Chuck Dawson, Chairman, commented that it would be best to wait for Tom Nelson, Vice-Chairman, prior to making a decision, since he has been a representative of this discussion. Ms. Sabin agreed with Mr. Dawson's comment.

6. Elk Grove Water District Operations Report – April 2016

Mark Madison, General Manager, presented the Elk Grove Water District Operations Report – April 2016 to the Board.

Comments and inquiries included:

- 302 Door Hangers
- 35 Shut Offs
- 4 Water Quality Complaints for the month
- 70 Hydrant Maintenance
- 119 Valve Exercising
- 8 Service Line Replacements
- Monthly Production
 - Well 1D – no production
 - Well 4D – big producer for the month
 - Well 11D – down for rehabilitation
 - Well 14D – ran for about a week
 - Well 3 – didn't run much, producing milky water
 - Well 8 – didn't run much
 - Well 9 – was a good producer
 - Well 13 – offline, working on Arsenic level
- Combined Total Production – usage down 33.69% from last year
- Total Demand/Production – usage down 34.4% from last year

- Static and Pumping levels – new sounding data for the quarter showing ground water levels are stable
- Water samples came back normal
- Preventative Maintenance Program is on track
- 2 outstanding delinquents for the Backflow Prevention Program
- 5 Safety Meetings for the month
- 2 Service line leaks for the month
- Pressure maps – Sample Station Area (SSA)1 and SSA2 are running within acceptable ranges

7. General Manager's Report

Mark Madison, General Manager, presented the General Manager's Report to the Board.

Mr. Madison presented his activities since May 25, 2016, they are as follows:

- Florin Resource Conservation District
 - Coordinate the FRCD's efforts to sponsor and participate with the EcoLandscape workshop at the City of Elk Grove held on April 30, 2016.
 - Expended significant efforts to explore the possibility of the FRCD in becoming a groundwater sustainability agency (GSA) for the FRCD jurisdictional area. Some of these efforts included:
 - Attending various sessions at the Association of California Water Agencies preparation of groundwater sustainability plans.
 - Attended the Sacramento Central Groundwater Authority (SCGA) Board meeting on May 11, 2016.
 - Attended the SCGA Subcommittee meeting on May 16, 2016.
 - Participated in a statewide discussion, which included 13 resource conservation districts (RCD's) to discuss issues involving RCD's desiring to become GSA's.
 - Prepare the May, 2016 Florin Resource Conservation Activities Staff Report
- Elk Grove Water District
 - Met with CPS Consultants to complete the new employee classification study for the proposed Program Manager position.
 - Met with the City of Elk Grove Public Works Director to discuss various issues between the City and the EGWD.
 - Attended the ACWA Conference in Monterey to attend various water related sessions, such as hose related to statewide water issues and AB 52.
 - Continued efforts to negotiate and complete the purchase of a property from the Wilton Rancheria Tribe.
 - Worked with staff to develop the 2015 Consumer Confidence Report.
 - Assisted Director Nelson is representing the FRCD/EGWD at the SCGA Board and Subcommittee meetings on May 11 and May 16, 2016, respectively.
 - Initiated outside services to continue and enhance the EGWD Safety Program and conduct safety monitoring and training for the District.
 - Conducted two private meeting with Board Members.
 - Conferenced with the Finance Manager and the EGWD's actuary regarding Other Post-Employment Benefits liability and our budget allocation in FY 2016-17.
 - Advanced efforts to prepare the FY 2016-17 EGWD Operating and Capital Improvement Program (CIP) budgets.
 - Continued efforts to maintain certain activities, previously performed by the Management Analyst, such as the water conservation program and water waste investigations.

- o Coordinated various efforts to mitigate problems arising from the Elk Grove power outage on May 17, 2016.

Elliot Mulberg, Director, inquired about Mr. Madison's discussion regarding RCD's desiring to become GSA's. Mr. Madison responded stating that the conference call was a discussion amongst the 13 RCD's and the issues they faced in becoming a GSA. He then stated, Karen Buhr, Executive Director with California Association of Resource Conservation Districts, made a statement that RCD's are prohibited from being a GSA. Mr. Madison challenged Ms. Buhr statement and confirmed with legal counsel that Ms. Buhr statement was incorrect.

9. **New Classification Request – Program Manager**

Stefani Phillips, Human Resources Administrator, presented the New Classification Request – Program Manager to the Board. In summary, after the vacancy of the Management Analyst position, some members of the leadership team met to discuss the needs of the District moving forward. After much discussion, a list of responsibilities and duties were developed for the vacant position, such as: Safety coordinator, Legislation tracking, Conservation, Grant writing, Public Information Officer. Mark Madison, General Manager then suggested the title of Program Manager. CPS HR Consulting was retained to perform a classification and salary study to evaluate a proposed position of Program Manager. The classification and salary study recommended the salary range for the position of Program Manager to be Grade 69 of the Elk Grove Water District Salary Schedule.

Staff is recommending the following four (4) actions:

1. Create a new position of Program Manager
2. Eliminate the Management Analyst position from the Florin Resource Conservation District (FRCD) Organization Chart
3. Modify the FRCD Organization Chart to add the Program Manager position
4. Amend the Elk Grove Water District Salary Schedule

MSC (Mulberg/Sabin) to adopt Resolution No. 05.25.16.01 approving the Florin Resource Conservation District/Elk Grove Water District Classification and Salary Study and authorizing associated changes to the Florin Resource Conservation District's Organization Chart and Elk Grove Water District Salary Schedule 4/0: Ayes: Dawson, Gray, Mulberg, and Sabin.

10. **Florin Resource Conservation District/Elk Grove Water District General Liability, Property and Workers Compensation Insurance**

Jim Malberg, Finance Manager, presented the Florin Resource Conservation District/Elk Grove Water District General Liability, Property and Workers Compensation Insurance to the Board. In summary, in order for the District to complete the application process to join the ACWA/JPIA Insurance Programs, the District must complete an application for a public entity certificate to self-insure as well as adopt the following resolutions:

1. Resolution No. 05.25.16.02, of the Board of Directors of the Florin Resource Conservation District authorizing application to the Director of Industrial Relations, State of California for a Certificate to Consent to Self-Insure Workers' Compensation Liabilities. This resolution is required by the State in order for the District to participate in the ACWA/JPIA Insurance Program pool of self-insured agencies.
2. Resolution No 05.25.16.03 of the Board of Directors of the Florin Resource Conservation District consenting to enter the Joint Protection Programs of the

Association of California Water Agencies/Joint Powers Insurance Authority. This resolution is required by the ACWA/JPIA for the District to enter into the ACWA/JPIA Insurance Programs.

3. Resolution No. 05.25.16.04 of the Board of Directors of the Florin Resource Conservation District authorizing volunteer personnel workers' compensation insurance. This resolution is required by the ACWA/JPIA in order for any volunteers performing work for the District to be covered by workers' compensation insurance.

Jim Malberg, Finance Manager explained that there was a possibility the Director of Industrial Relations could deny the application and resolution based on the usage of both organizations, the FRCD and EGWD, listed on the documents. He stated that in that case, staff would have to bring the application and resolution back to the Board at the June meeting for approval. Mr. Malberg also mentioned that ACWA/JPIA assured the District would have no lapse in insurance coverage.

MSC (Sabin/Dawson) to adopt Resolution No. 05.25.16.02, of the Board of Directors of the Florin Resource Conservation District authorizing application to the Director of Industrial Relations, State of California for a Certificate of Consent to Self-Insure Workers' Compensation Liabilities; Resolution No. 05.25.16.03 of the Board of Directors of the Florin Resource Conservation District consenting to enter the Joint Protection Programs of the Association of California Water Agencies/Joint Powers Insurance Authority; and Resolution No. 05.25.16.04 of the Board of Directors of the Florin Resource Conservation District authorizing volunteer personnel workers' compensation insurance 4/0: Ayes: Dawson, Gray, Mulberg, and Sabin.

11. Directors Comments

Elliot Mulberg, Director, commented to have a study completed on comparable agencies to the Florin Resource Conservation District/Elk Grove Water District for future salary adjustments or new positions placements.

Bob Gray, Director, commented that the Emergency Response Plan (ERP) does not cover the power outage. Mark Madison, General Manager, responded that the District learned a lot from that experience.

Mr. Gray suggested that the fuel storage capacity be large, for the generator.

Adjourn to Regular Meeting on Wednesday, June 22, 2016 at 6:30 p.m.

Respectfully submitted,

Stefani Phillips

Stefani Phillips, Secretary

SP/CR

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

Wednesday, June 8, 2016

The regular meeting of the Florin Resource Conservation District Board of Directors was called to order at 6:00 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, Jeanne Sabin
Directors Absent: Bob Gray
Staff Present: Mark J. Madison, General Manager; Stefani Phillips, Secretary;
Bruce Kamilos, Assistant General Manager
Associate Directors Present: Lisa Medina, Mike Schmitz
General Counsel Present: David Aladjem, Downey Brand LLP
Consultants Present: None

Public Comment

No comments were made.

1. Closed Session

a. Conference with Legal Counsel – Anticipated Litigation – Significant Exposure to Litigations – Gov't Code Section 54956.9(d)(2) (1 case).

b. Conference with Legal Counsel – Anticipated Litigation – Initiation of Litigation – Gov't Code Section 54956.9(d)(4) (1 case).

Nothing to report out of closed session.

2. Florin Resource Conservation District – Groundwater Sustainability Agency Filing

Mark Madison, General Manager, presented the Florin Resource Conservation District – Groundwater Sustainability Agency Filing to the Board.

Mr. Madison provided background on the Sustainable Groundwater Management Act (SGMA).

Tom Nelson, Vice-Chairman, provided additional background on SGMA and explained what the Florin Resource Conservation District (FRCD) wanted to see change through the Sacramento County Groundwater Authority (SCGA).

Mr. Nelson commented that the FRCD and others, this morning, were granted the option of designating the employee representative of choice. He then stated this will need to be approved by the governing agencies.

Mr. Madison stated that Carrie Schmitz with Sacramento County commented at the SCGA meeting that they would support independent agencies.

Mr. Madison recommended that the Board wait until the end of July to make a decision.

Elliot Mulberg, Director, inquired what the process of forming a GSA is. David Aladjem, General Counsel with Downey Brand LLP, responded and provided information on the process.

Mr. Nelson commented that he would like to spend time developing the Alternative Plan.

Mr. Mulberg commented that the SCGA would be a regulator and then inquired if any of the other RCD's have the power to become a GSA. Mr. Aladjem responded stating, "The way that SGMA works is, all the powers can be exercised by a local public agency. How the agency is defined is, one that manages water and conservation. An RCD has that kind of authority."

Public comments and inquiries include:

- Forrest Williams, Board Member with Sacramento County, commented, "The appropriate time for addressing changes to the JPA was during the GSP process and to do that currently would compromise more pressing issues that need to be addressed, for example the alternative plan." Mr. Williams then provided minutes of the last several meetings for the Board.
- Take your time and learn about the law and provide more public outreach
- Not the time to form a GSA
- What are the boundaries of the FRCD? Mr. Madison and Mr. Nelson showed a map of the boundaries the FRCD covers
- Discussion regarding how many agencies could form a GSA
- Sloughhouse RCD offered to partner with FRCD
- Concerned about a water war
- FRCD should be accountable to the landowner
- Transparency is important to have the support of landowners
- The general consensus from the public is the fear of how it will be governed

Mr. Mulberg asked for an explanation of police powers. Mr. Aladjem provided an explanation stating, "The state legislator can legislate any topic and when the state of California was formed the legislator delegated the power (a.k.a. police power) to political sub divisions of the state, the counties, and in most cases cities. There are a few things that cities and counties cannot legislate on. The main thing is that if the state legislator has already legislated on it they cannot develop a local ordinance that is inconsistent with the state law. The very broad police power is what SCGA has. The discussion that has been had amongst the lawyers is, is there a practical difference between having the police power and having the powers that would be vested in SCGA under SGMA once it has developed a GSP. There has been a disagreement on this particular issue but doesn't mean that the governance issues cannot be addressed. The question is about timing and what the goal of the FRCD is. Police power is a very broad authority and SGMA authority is more narrow and more focused on groundwater."

Mr. Nelson inquired at what point will the GSA's receive police powers. Mr. Aladjem responded stating after the GSP has been submitted.

Bruce Kamilos, Assistant General Manager, stated that there is a fear of a long term plan and people turn over within the City and County of Sacramento and believed this should be governed by an independent agency.

Mr. Aladjem commented that a GSA has to be a public agency, whether it is a local water district, city, county, or RCD. Members of the public do not get to vote to form a GSA.

Chuck Dawson, Chairman, stated he appreciated all public comments.

Mr. Mulberg thanked all the members of the public for coming out to the meeting.

Mr. Madison recommended that this matter be tabled to the regular board meeting on July 27, 2016.

MSC (Mulberg/Sabin) to bring this item back to the Regular Board Meeting on July 27, 2016, Ayes: Dawson, Mulberg, Nelson, Sabin

Adjourn to be determined.

Respectfully submitted,

Stefani Phillips

Stefani Phillips, Secretary

SP/CR



**FRC D Cash Flow
For the Month Ended May 31, 2016**

Cash in Bank – Beginning	\$ 104,091.51
Receipts:	
Interest Earned	\$ 7.05
Disbursements:	
Cash in Bank – Ending	\$ 104,098.56

Check History Report

5/1/2016 to 5/31/2016
Elk Grove Water District

Check Number	Check Date	Vendor Number	Vendor Name	Check	Explanation
040554	5/12/2016	A. TEIC	A. TEICHERT & SON, INC	209.38	
040555	5/12/2016	ATT&T	AT&T MOBILITY	307.68	
040556	5/12/2016	BEST	BEST, BEST & KRIEGER	8,547.66	Legal
040557	5/12/2016	BG SOLU	SOLUTIONS BY BG INC.	5,685.75	Daily Tasks/Help Tickets
040558	5/12/2016	BG SOLU	SOLUTIONS BY BG INC.	51.40	Daily Tasks/Help Tickets
040559	5/12/2016	BRINKS	BRINK'S INCORPORATED	274.99	
040560	5/12/2016	BSK4	BSK ASSOCIATES	660.00	Sampling
040561	5/12/2016	CAP RUB	CAPITAL RUBBER	109.59	
040562	5/12/2016	CD&POWE	CALIFORNIA DIESEL & POWER	3,060.00	(3) Invoices-Generator Annual Service
040563	5/12/2016	CITY EG	CITY OF ELK GROVE	77.85	
040564	5/12/2016	COEG	CITY OF ELK GROVE	2,235.00	
040565	5/12/2016	CONSOLI	CONSOLIDATED COMMUNICATIONS	1,255.49	Encroachment Fees-Colton/Orton Phones-MOC/ADMIN
040566	5/12/2016	CONSOLI	CONSOLIDATED COMMUNICATIONS	241.11	Ethernet Service
040567	5/12/2016	COUNTY4	SACRAMENTO COUNTY UTILITIES	127.94	
040568	5/12/2016	CRF FN	FIDELITY NATIONAL TITLE	18.13	
040569	5/12/2016	CRF LEN	LENNAR HOMES CA, INC	32.06	Account Closed-Credit Refund
040570	5/12/2016	CRF LEN	LENNAR HOMES CA, INC	38.53	Account Closed-Credit Refund
040571	5/12/2016	CRF LEN	LENNAR HOMES CA, INC	13.61	Account Closed-Credit Refund
040572	5/12/2016	CRF LEN	LENNAR HOMES CA, INC	1.77	Account Closed-Credit Refund
040573	5/12/2016	CRFBA	BRIAN ADKINS	42.57	Account Closed-Credit Refund
040574	5/12/2016	CRFCHTI	CHICAGO TITLE	68.44	Account Closed-Credit Refund
040575	5/12/2016	CRFJL	JULIE LONGSHORE	42.57	Account Closed-Credit Refund
040576	5/12/2016	CRFLDH	LORRAINE DIAS HERBON	12.20	Account Closed-Credit Refund
040577	5/12/2016	CRFMP	MARQUES PIPELINE INC	1,219.97	Account Closed-Credit Refund
040578	5/12/2016	CRFPELL	PAW'S ESTATE LLC	61.01	Account Closed-Credit Refund
040579	5/12/2016	CRFRDF	RONALD & DIANE FAIR	61.01	Account Closed-Credit Refund
040580	5/12/2016	CRFRW	ROBERTA WATSON	1.97	Account Closed-Credit Refund
040581	5/12/2016	CRFTBI	TITUS BUILDERS INC	31.30	Account Closed-Credit Refund
040582	5/12/2016	CRFTPD	TRISTATE PROPERTIES &	13.37	Account Closed-Credit Refund
040583	5/12/2016	DATAPRO	DATAPROSE LLC	6,825.43	Monthly Billing
040584	5/12/2016	E&M	E&M ELECTRIC & MACHINERY, INC	11,329.37	Renewal of Maintenance Contract-SCADA
040585	5/12/2016	EATON2	EATON PUMPS SALES & SERVICE	80,317.00	Well#11 Rehabilitation
040586	5/12/2016	EFFECT	EFFECTIVE PHONE SOLUTIONS INC.	1,265.85	Disaster Recovery
040587	5/12/2016	EMP REL	EMPLOYEE RELATIONS, INC	15.70	
040588	5/12/2016	FASTENA	FASTENAL COMPANY	524.32	
040589	5/12/2016	FIRECOD	FIRECODE SAFETY EQUIPMENT	16.20	
040590	5/12/2016	FLORIN	FLORIN AUTOMOTIVE REPAIR	517.78	
040591	5/12/2016	GRAINGE	GRAINGER	327.80	Repairs & Maintenance-Vehicles

040592	5/12/2016	HALING	CINDY HALING	330.00	
040593	5/12/2016	HANFORD	HANFORD SAND & GRAVEL, INC	786.24	Materials-Colton/Orton
040594	5/12/2016	HERBURG	HERBURGER PUBLICATIONS, INC	445.00	
040595	5/12/2016	INT STA	INTERSTATE OIL COMPANY	1,042.88	Fuel
040596	5/12/2016	JAN PRO	JAN-PRO CLEANING SYSTEMS OF	515.00	Janitorial Services
040597	5/12/2016	JAYS	JAY'S TRUCKING SERVICE	319.66	
040598	5/12/2016	NEWEGG	NEWEGG BUSINESS, INC	137.34	
040599	5/12/2016	NTS	NTS MIKEDON, LLC	184.80	
040600	5/12/2016	OREILLY	O'REILLY AUTO PARTS	23.80	
040601	5/12/2016	PACE	PACE SUPPLY CORP	2,912.90	Materials & Supplies-Colton/Orton
040602	5/12/2016	PAULA M	PAULA MAITA & COMPANY	2,491.91	(4) Invoices-Summer Shirts for OPS, Ellen's Retirement Plaque
040603	5/12/2016	PRE ALL	PREFERRED ALLIANCE, INC	176.00	
040604	5/12/2016	RADIAL	RADIAL TIRE OF ELK GROVE	45.05	
040605	5/12/2016	RCB BK	CARD SERVICE CENTER	371.96	Travel
040606	5/12/2016	RCB DO	CARD SERVICE CENTER	638.35	Supplies
040607	5/12/2016	RCB RS	CARD SERVICE CENTER	909.57	Materials & Supplies-Colton/Orton
040608	5/12/2016	RCB SP	CARD SERVICE CENTER	479.34	Postage, Seminars, Training, Employee Appreciation
040609	5/12/2016	RCB SS	CARD SERVICE CENTER	2,077.04	Hotel, Meals, Seminars, Materials
040610	5/12/2016	RCBJC	CARD SERVICE CENTER	670.83	Materials & Supplies-Distribution
040611	5/12/2016	REPUBLI	REPUBLIC SERVICES #922	773.62	
040612	5/12/2016	ROTH	ROTH STAFFING COMPANIES, L.P.	1,881.02	Temporary Customer Service Help
040613	5/12/2016	SIERRA	SIERRA OFFICE SUPPLIES	691.36	
040614	5/12/2016	SMUD	SMUD	840.80	
040615	5/12/2016	SMUD	SMUD	1,894.62	
040616	5/12/2016	SMUD	SMUD	8,012.85	
040617	5/12/2016	SMUD	SMUD	1,272.11	
040618	5/12/2016	SMUD	SMUD	80.48	
040619	5/12/2016	SMUD	SMUD	5,777.40	
040620	5/12/2016	SMUD	SMUD	792.29	
040621	5/12/2016	SMUD	SMUD	511.52	
040622	5/12/2016	SMUD	SMUD	55.99	
040623	5/12/2016	THREAT	THREATTRACK SERCURITY, INC.	780.00	VIPRE- Business Premium Subscription Renewal
040624	5/12/2016	TOSHIBA	TOSHIBA FINANCIAL SERVICES	528.93	Copier
040625	5/12/2016	ULTRA	ULTRA TRUCK WORKS, INC	10.75	
040626	5/12/2016	VALL MO	VALLEY MOTOR PARTS	64.69	
040627	5/12/2016	VERIZON	VERIZON WIRELESS	416.70	
040628	5/12/2016	WAC	WAC SOLUTIONS PARTNERS	522.50	Abra-Consultant Services
040629	5/12/2016	WEST	WEST COAST WELL LOGGING SERV	775.00	Well 11D Rehab Video-Post rehab video
040630	5/12/2016	WHITE	HDS WHITE CAP CONST SUPPLY	213.07	
040631	5/12/2016	ZOOM	ZOOM IMAGING SOLUTIONS, INC	8.09	
040632	5/13/2016	MADISON	MARK MADISON	376.72	Travel Reimbursement
040633	5/18/2016	AIRGAS	AIRGAS USA, LLC	51.92	
040634	5/18/2016	ALAN AR	ALAN ARAGON	351.50	Clothing Reimbursement
040635	5/18/2016	BAY ALA	BAY ALARM COMPANY	36.75	
040636	5/18/2016	BAY ALA	BAY ALARM COMPANY	411.00	
040637	5/18/2016	BEST	BEST, BEST & KRIEGER	9,092.30	Legal
040638	5/18/2016	CAP RUB	CAPITAL RUBBER	152.01	
040639	5/18/2016	CCPPM	CCPPM	1,063.80	Materials & Supplies-ADMIN

040640	5/18/2016	CRFBRTC	BEN RODRIQUEZ-TEICHERT	1,189.25	Account Closed-Credit Refund
040641	5/18/2016	GRAINGE	GRAINGER	321.29	
040642	5/18/2016	JAYS	JAY'S TRUCKING SERVICE	3,036.30	Materials & Supplies-Colton/Orton
040643	5/18/2016	KIRBY	KIRBY'S PUMP & MECHANICAL, INC	10,982.40	Well 4D Motor Repair
040644	5/18/2016	PACE	PACE SUPPLY CORP	50.80	
040645	5/18/2016	PG&E	PACIFIC GAS & ELECTRIC	19.16	
040646	5/18/2016	RADIAL	RADIAL TIRE OF ELK GROVE	641.09	Repairs & Maintenance-Vehicles
040647	5/18/2016	ROTH	ROTH STAFFING COMPANIES, L.P.	819.34	Temporary Customer Service Help
040648	5/18/2016	SIERRA	SIERRA OFFICE SUPPLIES	218.09	
040649	5/18/2016	SWRCB2	SWRCB-DWOCB	60.00	
040650	5/18/2016	VALL MO	VALLEY MOTOR PARTS	21.54	
040651	5/18/2016	WEBCO	WEBCO COMMUNICATION, INC	2,154.60	New Phone Setup for MOC
040652	5/25/2016	ACWAJPI	CB&T/ACWA-JPIA	51,581.96	CCR Review
040653	5/25/2016	B STARR	STARR CONSULTING	4,350.00	
040654	5/25/2016	BAY ALA	BAY ALARM COMPANY	324.45	Daily Tasks/Help Tickets
040655	5/25/2016	BG SOLU	SOLUTIONS BY BG INC.	5,343.75	Sampling
040656	5/25/2016	BSK4	BSK ASSOCIATES	200.00	Legal
040657	5/25/2016	DOWNEY	DOWNEY BRAND, LLP	3,382.00	
040658	5/25/2016	FRONT C	FRONTIER COMMUNICATIONS	221.38	Well site communications-Alarm and Security
040659	5/25/2016	FRONT C	FRONTIER COMMUNICATIONS	169.37	Well site communications-Alarm and Security
040660	5/25/2016	FRONT C	FRONTIER COMMUNICATIONS	174.75	Well site communications-Alarm and Security
040661	5/25/2016	GRAINGE	GRAINGER	91.04	
040662	5/25/2016	HACH	HACH COMPANY	380.00	
040663	5/25/2016	INT STA	INTERSTATE OIL COMPANY	1,302.74	Fuel
040664	5/25/2016	JAYS	JAY'S TRUCKING SERVICE	533.52	
040665	5/25/2016	JMENDOZ	JOSE MENDOZA	34.30	Travel Reimbursement
040666	5/25/2016	MONTIEL	MICHAEL MONTIEL	36.53	Travel Reimbursement
040667	5/25/2016	MUNIQUI	MUNIQUIP, INC	1,452.43	Chlorine Injection Pump-Rebuild Parts
040668	5/25/2016	PACE	PACE SUPPLY CORP	359.86	
040669	5/25/2016	PETTY	PETTY CASH	265.88	
040670	5/25/2016	RADIAL	RADIAL TIRE OF ELK GROVE	10.80	
040671	5/25/2016	RCB MM	CARD SERVICE CENTER	65.85	
040672	5/25/2016	ROTH	ROTH STAFFING COMPANIES, L.P.	842.42	Temporary Customer Service Help
040673	5/25/2016	SIERR C	SIERRA CHEMICAL COMPANY	1,503.21	Materials-Treatment
040674	5/25/2016	SIERRA	SIERRA OFFICE SUPPLIES	316.88	
040675	5/25/2016	ULTRA	ULTRA TRUCK WORKS, INC	60.20	
040676	5/25/2016	UNITED	UNITED SITE SERVICES	250.15	
040677	5/25/2016	VALL MO	VALLEY MOTOR PARTS	54.23	
040678	5/25/2016	WHITE	HDS WHITE CAP CONST SUPPLY	259.82	
040679	5/25/2016	ZOOM	ZOOM IMAGING SOLUTIONS, INC	221.87	
040680	5/31/2016	BSK4	BSK ASSOCIATES	550.00	Sampling
040681	5/31/2016	CLAYBAR	CLAYBAR ENGINEERING	1,912.50	RR Corridor Water Line
040682	5/31/2016	COUNTY4	SACRAMENTO COUNTY UTILITIES	29.16	
040683	5/31/2016	CR FID	FIDELITY NATIONAL TITLE	67.99	Account Closed-Credit Refund
040684	5/31/2016	CRF A&J	ANTHONY & JEANNETTE EKERUO	41.03	Account Closed-Credit Refund
040685	5/31/2016	CRF AB	ARNOLD BARRAZA	84.63	Account Closed-Credit Refund
040686	5/31/2016	CRF ARG	ACCELERATED REALTY GROUP	98.31	Account Closed-Credit Refund
040687	5/31/2016	CRF DMP	DENISE M PERCOX	45.22	Account Closed-Credit Refund

040688	5/31/2016	CRF KMC	KENNETH MCLAIN	22.97	Account Closed-Credit Refund
040689	5/31/2016	CRF LEN	LENNAR HOMES CA, INC	7.27	Account Closed-Credit Refund
040690	5/31/2016	CRF LEN	LENNAR HOMES CA, INC	11.36	Account Closed-Credit Refund
040691	5/31/2016	CRF RLE	ROBERT LEWIS	94.37	Account Closed-Credit Refund
040692	5/31/2016	CRF W&C	WILLIAM & SANDRA CHAPMAN	72.53	Account Closed-Credit Refund
040693	5/31/2016	CRF WIS	WILFREDO SACLOLO	16.11	Account Closed-Credit Refund
040694	5/31/2016	CRFCMP	CHARLES & MONICA PERKINS	13.84	Account Closed-Credit Refund
040695	5/31/2016	CRFFNC	FIDELITY NATIONAL TITLE COMP	52.36	Account Closed-Credit Refund
040696	5/31/2016	CRFID	FIDELITY NATIONAL TITLE CO	2.55	Account Closed-Credit Refund
040697	5/31/2016	CRFJA	JANICE WOLF	67.16	Account Closed-Credit Refund
040698	5/31/2016	CRFJAC	JACALYN CORDOVA	74.68	Account Closed-Credit Refund
040699	5/31/2016	CRFJWZ	JING LIN & WEIGUO ZHAO	64.86	Account Closed-Credit Refund
040700	5/31/2016	CRFORA	ORANGE COAST TITLE	98.98	Account Closed-Credit Refund
040701	5/31/2016	CRFORA	ORANGE COAST TITLE	90.32	Account Closed-Credit Refund
040702	5/31/2016	CRFST6	STEWART TITLE OF SACRAMENTO	62.59	Account Closed-Credit Refund
040703	5/31/2016	CSDS	CSDS SACRAMENTO	85.15	Account Closed-Credit Refund
040704	5/31/2016	ELK LOC	ELK GROVE LOCK AND SAFE CO	112.10	
040705	5/31/2016	EVO	EMERGENCY VEHICLE OUTFITTERS	917.16	(2) Invoices- Materials-Distribution
040706	5/31/2016	FASTENA	FASTENAL COMPANY	82.26	
040707	5/31/2016	HALING	CINDY HALING	180.00	
040708	5/31/2016	JMENDOZ	JOSE MENDOZA	80.18	Replacement Storage Server
040709	5/31/2016	NEWEGG	NEWEGG BUSINESS, INC	2,973.46	
040710	5/31/2016	OREILLY	O'REILLY AUTO PARTS	38.59	
040711	5/31/2016	PEST	PEST CONTROL CENTER INC	80.00	
040712	5/31/2016	PLAGER	RIVER CITY RENTALS	1,200.00	Skip Loader Rental-Colton/Orton
040713	5/31/2016	RADIAL	RADIAL TIRE OF ELK GROVE	903.94	Repairs & Maintenance-Vehicles
040714	5/31/2016	ROTH	ROTH STAFFING COMPANIES, L.P.	871.15	Temporary Customer Service Help
040715	5/31/2016	SAC ICE	SAC ICE	223.29	
040716	5/31/2016	WATKINS	ERICK WATKINS	5,500.00	Safety Consultant
Total:				287,770.58	

Elk Grove Water District
Active Account Information
5/31/2016

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
Water Accounts:												
Metered												
Residential	11,669	11,658	11,647	11,637	11,643	11,656	11,649	11,632	11,654	11,666	11,659	
Commercial	513	517	518	521	519	519	521	522	521	521	521	
Fire Service	121	122	122	124	122	122	122	122	122	123	122	
Total Accounts	12,303	12,297	12,287	12,282	12,284	12,297	12,292	12,276	12,297	12,310	12,302	-

Elk Grove Water District
Active Account Information
FY 2014/2015

	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

Bond Covenant Status

For Fiscal Year 2015-16

As of May 31, 2016

Operating Revenues:	
Charges for Services	\$ 11,961,440
 Operating Expenses:	
Salaries & Benefits	2,990,655
Seminars, Conventions and Travel	34,670
Office & Operational	617,177
Purchased Water	2,203,757
Outside Services	571,729
Equipment Rent, Taxes, an Utilities	255,700
Total Operating Expenses	6,673,688
Income From Operations	\$ 5,287,752
Interest & Principal Payments	
2,225,240 interest + 1,430,000 principal	3,350,637 *
 Debt Service Coverage Ratio:	
Actual	1.58
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
May 31, 2016

General Ledger Reference	May		YTD Activity	Annual Budget		Variance	10/12=91.67%	
	Activity	Budget		%	Realized			
Revenues	1,086,430	1,115,496	\$11,961,440	\$13,385,949	(\$1,424,509)			89.36%
Salaries & Benefits (1)	252,745	257,578	\$2,990,655	\$3,090,937	(\$100,282)			96.76%
Seminars, Conventions and Travel	1,774	3,679	\$34,670	\$44,150	(\$9,480)			78.53%
Office & Operational	60,964	82,767	\$617,177	\$993,202	(\$376,025)			62.14%
Purchased Water (2)	209,213	240,976	\$2,203,757	\$2,891,709	(\$687,952)			76.21%
Outside Services	60,854	67,665	\$571,729	\$811,983	(\$240,254)			70.41%
Equipment Rent, Taxes, Utilities	21,257	36,950	\$255,700	\$443,400	(\$187,700)			57.67%
Total Operational Expenses	606,807	689,615	\$6,673,688	\$8,275,381	(\$1,601,693)			80.65%
Net Operations	<u>479,623</u>		<u>\$5,287,752</u>					
Non-Operating Activity								
Capital Equipment & Expenditures	129,167	129,167	1,420,833	1,550,000	(129,167)			91.67%
Bond Interest Accrued	185,437	185,437	2,039,803	2,225,240	(185,437)			91.67%
Interest Earned	145	1,667	8,458	20,000	(11,542)			42.29%
Other Income	177	0	86,436	0	86,436			
Revenues in Excess of Expenditures (Net Revenues)	<u>165,341</u>		<u>1,922,009</u>					
Capital Expenses								
Capital Improvements			562,679					
Capital Replacements			343,081					
Equipment			62,255					
Bond Retirement: \$1,430,000			1,310,833					
Total Capital And Debt Retirement Expenditures			<u>2,278,849</u>					
Net Position after Capital and Debt Retirement Expenditures			<u>(356,839)</u>					

(1) Approximately \$233,315 of the budgeted \$509,238 of salary & benefit expenses has been capitalized to various capital projects.

(2) Estimated Expenditures: Purchased Water \$184,422 in April & \$209,213 in May

**Florin Resource Conservation District
CASH - Detail Schedule of Investments
5/31/2016**

**Consent
Calendar Item#**



G/L Account #	Money Market Fund	Account number / name	Investment Name	Investment Type	Restrictions	Market Value
HELD BY BOND TRUSTEE:						
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	187,951.94
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	192,426.82
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
1108-000-20	Water	BNY 892747 FRCD 2014A COI	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	0.00
1109-000-20	Water	BNY 892745 FRCD 2014A REDEMPTION	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	0.00
1110-000-20	Water	BNY 892744 FRCD 2014A DEBT SERVICE	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	9,145.84
			Subtotal			\$ 389,528.61
1001-000-20	Water	CASH ON HAND			Unrestricted	\$ 300.00
HELD BY RIVER CITY BANK:						
1010-000-10	FRCD	RCB 1111057982 CHECKING ACCOUNT			Unrestricted	104,098.56
1010-000-20	Water	RCB 1111063486 GENERAL CHECKING			Unrestricted	158,155.05
1020-000-20	Water	RCB 1111028001 MONEY MARKET			Unrestricted	2,999,014.17
1030-000-20	Water	RCB 1111025851 CHARGE CARD ACCOUNT			Unrestricted	300,624.24
1040-000-20	Water	RCB 1111096589 HIGH YIELD MONEY MARKET			Unrestricted	243.40
1050-000-20	Water	RCB 1111099502 DEBT SERVICE ACCOUNT			Unrestricted	8.27
1060-000-20	Water	RCB 1111097844 PAYROLL ACCOUNT			Unrestricted	181,801.02
1070-000-20	Water	RCB 1111097933 WEB PAYMENT RECEIPTS			Unrestricted	201,683.55
			Subtotal			\$ 3,945,628.26
1080-000-20	Water	Office of the Treasurer - Sacramento California	LAI F	Investment Pool	Unrestricted	\$ 6,345,873.55
	Water	Union Bank Global Custody Services-6736302330			N/A	\$ 995,700.55
	Water	CALTrust Short Term		Investment	N/A	\$ 1,000,687.35
	Water	CALTrust Medium Term		Investment	N/A	\$ 1,000,054.39
			Total			\$ 13,677,772.71
			Total Restricted			\$ 389,528.61
			Total Unrestricted			\$ 13,288,244.10

Consultant Expenses
May 31, 2016

Fiscal Retainer Contracts

Consultant	Description	Current Month	Paid to date	Budget/Contract Amount	Percent of year (92%)
Best Best, & Krieger**	Task orders	17,640	93,679	130,000	72.06%
Solutions by BG, Inc.	Task orders	11,030	117,266	124,636	94.09%
Downey Brand LLP**	Task orders	3,382	16,426	25,000	65.70%

Project Specific Contracts

Consultant	Description	Current Month	Paid to date	Budget/Contract Amount	Percent of Contract Amount
AECOM	ERP	1,743	75,700	74,720	101.31%

Consent
Calendar Num# _____

**Elk Grove Water District
Major Capital Improvement Project
Budget vs Actuals
May 31, 2016**

Capital Project	Total Project Budget	Expenditures to Date *	Percent Spent
Service Line Replacements	\$450,000	\$185,156	41.15%
Colton Ave./Orton St. Water Main	415,000	316,167	76.18%
Railroad Corridor Water Line	164,000	190,297	116.03%
Hampton Road WTP Refurbishment	1,346,000	1,107,363	82.27%
VFD's - Booster Pumps Railroad Street WTF	134,000	63,064	47.06%
SCADA Improvements	175,000	181,419	103.67%
Business Center/CSD Bldg. Water Main Looping	175,000	16,352	9.34%
Truck Replacements	120,000	62,255	51.88%
Administration Building Improvements	50,000	43,221	86.44%
RRWTF Modular Meeting Room & IT Center	125,000	1,727	1.38%
Railroad Street WTF Parking Lot Improvements	455,375	451,693	99.19%
Sub-Total	\$3,609,375	\$2,618,714	72.55%

*Includes \$226,194 of capitalized labor in FY 2015-16

Consent
Calendar Item#

J

June 22, 2016

TO: Chairman and Directors of the Florin Resource Conservation District
FROM: Stefani Phillips, Board Secretary
SUBJECT: **COMMITTEE MEETINGS**

RECOMMENDATION

It is recommended that the Board accept the minutes of the Finance Committee meeting held on June 8, 2016.

Summary

The Board has requested a monthly summary of committee meetings. One committee meeting was held in the month June 2016. The committee meeting minutes are attached.

DISCUSSION

Background

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. The committee meeting minutes shall be accepted by the FRCD Board of Directors.

Present Situation

The following committee meeting was held in the month of June 2016:

- a. Finance Committee Minutes – June 8, 2016

The committee meeting minutes listed above are attached.

FINANCIAL SUMMARY

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

June 22, 2016

COMMITTEE MEETINGS

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Respectfully Submitted,



STEFANI PHILLIPS,
BOARD SECRETARY

**Minutes of the Finance Committee
of the
Florin Resource Conservation District Board of Directors**

Wednesday, June 8, 2016

The finance committee meeting of the Florin Resource Conservation District Board of Directors was called to order at 8:00 p.m. by Chuck Dawson, Chair, at 9257 Elk Grove Blvd, Elk Grove CA.

Committee Members Present:	Chuck Dawson, Elliot Mulberg, Tom Nelson, Jeanne Sabin
Committee Members Absent:	Bob Gray
Staff Present:	Mark J. Madison, General Manager; Bruce Kamilos, Assistant General Manager; Stefani Phillips, Board Secretary; Jim Malberg, Finance Manager; Donella Murillo, Finance Supervisor
Associate Directors Present:	Lisa Medina, Mike Schmitz
Public:	None

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

1. Draft Fiscal Year 2017-21 Capital Improvement Program

Bruce Kamilos, Assistant General Manager, presented the Draft Fiscal Year 2017-21 Capital Improvement Program to the Board. Mr. Kamilos stated the committee has raised healthy comments, which were consolidated into the draft.

Mark Madison, General Manager, commented that Mr. Kamilos has done a spectacular job with the Capital Improvement Program (CIP) and the document itself.

The Board praised the committee for the planning that is involved with the CIP and thanked staff for doing a good job.

2. Draft Fiscal Year 2016-17 Elk Grove Water District Operating Budget

Jim Malberg, Finance Manager, presented the Draft Fiscal Year 2016-17 Elk Grove Water District Operating Budget to the Board.

Mr. Malberg covered items that changed from the last Finance Committee meeting on May 11, 2016.

- Operating Revenue: Increased \$206,098 (5% increase in consumption)
 - Residential: \$133,232
 - Commercial: \$36,929
 - Fire Service: \$35,937

- Salaries & Benefits: Increased \$12,931
 - Full contracted amount of GM salary shown in EGWD, offset by transfer from FRCD for 10% of salary & benefits
 - FY 2016-17 COLA is 1.30%
 - OPEB payment reduced by \$59,400

- Office & Operational: Increased \$27,146
 - Association Dues increased \$21,492 (this is for Legislation Tracking & Lobbying for RWA)
 - Telephone decreased by \$24,346
 - Water Conservation Materials increased \$30,000
- Purchased Water: Increased \$127,076 (5% increase in consumption)
- Outside Services: Increased \$114,000
 - IT Security Audit carry-over (\$75,000)
 - Safety consultant (\$39,000)
- Equipment Rent. Taxes & Utilities: Increased \$12,313
 - Electricity (5% increase in consumption)
- Non-operating Revenue/Expenses: Decreased \$26,566
 - Reflect transfer of 10% of GM Salary & Benefits
- Revenues in excess of expenditures
 - Now at \$19,415; was \$40,907

Elliot Mulberg, Director inquired if there was any money set aside for the study that will benchmark like agencies. Mr. Malberg responded stating \$10,000 was set aside.

3. **Draft Fiscal Year 2016-17 Elk Grove Water District Rates & Fees Schedule**

Jim Malberg, Finance Manager, presented the Draft Fiscal Year 2016-17 Elk Grove Water Rates & Fees Schedule to the Board.

Tom Nelson, Vice-Chairman, inquired if the capacity fee was applicable to service area 1. Bruce Kamilos, Assistant General Manager, responded stating the capacity fee is not applicable to service area 2 because it is part of Sacramento County's infrastructure, and is only applicable to service area 1.

Elliot Mulberg, Director, inquired when the next rate study is scheduled for. Mr. Malberg responded stating that he would like to get a request for proposal out in the middle of calendar year 2017.

Mr. Mulberg suggested that the District look at a method to help hardship cases (at the baseline rate) during the next rate study. Mark Madison, General Manager, responded stating that the District can look into this during the next rate study.

Mr. Malberg announced the closing of the Bond.

4. **Draft Fiscal Year 2016-17 Florin Resource Conservation District Operating Budget**

Jim Malberg, Finance Manager, presented the Draft Fiscal Year 2016-17 Florin Resource Conservation District Operating Budget to the Board.

Mr. Malberg covered the following:

- Projected revenues: \$75
- Total Expenditures: \$41,821

- Salaries & Benefits: \$26,566
- Insurance: \$2,875
- Bank Charges: \$30
- Accounting Services: \$350
- Election Costs: \$12,000
- The fund balance is expected to decrease from \$87,021 to \$45,274

The next Finance Committee Meeting is to be determined.

Respectfully submitted,

Stefani Phillips

Stefani Phillips, Secretary

SP/CR

June 22, 2016

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Mark J. Madison, General Manager

SUBJECT: **FLORIN RESOURCE CONSERVATION DISTRICT CONSERVATION
ACTIVITIES REPORT**

RECOMMENDATION

This information is provided for information only. No action by the Board is requested at this time.

Summary

There were no meetings of the Florin Resource Conservation District (FRCD) since the last report to the Board in May.

Most of the recent work conducted by staff on FRCD related matters involve the potential formation of a Groundwater Sustainability Agency (GSA) within the FRCD jurisdictional area. Staff also expended efforts to engage in the development of a groundwater bank as conceived by the Regional Water Authority.

DISCUSSION

Background

The Board has requested a monthly summary of Florin Resource Conservation District (FRCD) conservation activities performed by the Board and staff.

Present Situation

Considerable efforts have continued in compliance with the Sustainable Groundwater Management Act and the potential formation of a GSA for the FRCD's jurisdictional area.

Notably, staff and Director Nelson attended a Sacramento Central Groundwater Authority (SCGA) Board meeting where staff further expressed concerns about governance and financing. This meeting was followed by a Special FRCD Board meeting to consider whether, or not, the FRCD should file to become a GSA for the entire area within its legal jurisdiction. At that meeting, there were substantial concerns expressed by various individuals including representatives of the Sacramento County Water Agency and the

**FLORIN RESOURCE CONSERVATION DISTRICT CONSERVATION ACTIVITIES
REPORT**

Page 2

SCGA Board. Upon hearing the comments and recommendations from staff, the Board elected not to act and to reconsider the matter at the July regular Board meeting.

Staff has also recently engaged with the Regional Water Authority (RWA) and their consultant, MWH Americas Inc., to discuss the potential formation of a groundwater bank in this region. This concept is in the early stage of development, but could become a significant activity involving the FRCD, the Elk Grove Water District (EGWD), and many other agencies throughout the Sacramento region.

It should be noted that the formation of a groundwater bank would be a long term, and very expensive endeavor. In staff's opinion, it is not feasible for any single agency, such as the FRCD/EGWD to complete such a formation. To be successful, it will need to go forward using a collection of agencies such as the Regional Water Authority which is jointly funded using a joint powers agreement.

STRATEGIC PLAN CONFORMITY

Participation in regional conservation 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,



MARK J. MADISON
GENERAL MANAGER

June 22, 2016

TO: Chairman and Directors of the Florin Resource Conservation District
FROM: Mark J. Madison, General Manager
SUBJECT: **WATER USAGE REPORT**

RECOMMENDATION

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

Summary

Service Area 1 reduced its water consumption by 35.7% in May in comparison to May 2013 usage. Service Area 2 reduced by 41.6% for the same period. The combined reduction for both service areas was 37.71%. The cumulative reduction since June 2015, equaled 34.72% which was above the District's target of 25% in effect until June 1, 2016.

DISCUSSION

Background

On May 9, 2016, Governor Brown issued an Executive Order adjusting water conservation regulations through the end of January 2017. On May 18, 2018, the Water Board adopted emergency regulations in compliance with the Governor's Order and for continued statewide urban water conservation, revising certain requirements of urban water suppliers and these new requirements went into effect on June 1, 2016.

The new regulations adopted by the State Water Resources Control Board (Water Board) require water agencies to self-certify their ability to sustain adequate water supplies for another three years of drought. Based on the requirements in the regulations, the Elk Grove Water District (EGWD) is able to achieve compliance with a zero percent conservation requirement for the duration of this order.

On May 25, 2016, the Board adopted Ordinance No. 05-25-16-01 amending the Water Shortage Contingency Plan's Normal Water Supply Stage and ordering the implementation of the Normal Water Supply Stage from Stage 2 Plus.

The amended Water Shortage Contingency Plan – Normal Water Supply Stage does not include watering day and time restrictions. This stage reflects a concept that, during normal supply conditions, customers should not be restricted in their water use, but they should be prohibited from wasting water. The new Normal Water Supply Stage also

WATER USAGE REPORT

Page 2

continues to prohibit water waste and these are subject to enforcement and the penalties prescribed for that stage.

Present Situation

At the May 25 Board meeting, the Board directed staff to continue to monitor and track our water use reductions going forward. Staff has prepared the attached Water Usage Summary (Attachment 1) and this follows the same format as those provided to the Board since the start of the drought.

Under the new Water Board regulations, the EGWD is required to self-certify compliance with the new regulations and submit a water usage report to the State by June 22, 2016. Although those items have not been submitted at the time this staff report was prepared, staff expects to submit those documents meeting all requirements imposed.

It should also be noted that staff has made a substantial effort to inform our customers of the change from Stage 2 Plus to Normal. Specifically, inserts were mailed to all EGWD customers, the District's website was changed, and the General Manager worked with the Elk Grove Citizen to prepare an article for the local paper.

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,



MARK J. MADISON
GENERAL MANAGER

Attachment

Elk Grove Water District Water Usage

	Monthly Production (gallons)											
	January	February	March	April	May	June	July	August	September	October	November	December
2013												
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												
GW (SA1)	62,684,574	57,365,413	86,489,437	88,984,850	106,158,389	114,555,359	127,038,586	125,052,315	117,883,208	99,385,733	64,079,715	57,508,787
Purchased (SA2)	28,648,400	30,029,208	36,876,400	51,626,212	52,734,000	62,368,240	71,273,928	75,055,068	70,123,504	63,526,892	46,873,420	34,399,772
Total	91,332,974	87,394,621	123,365,837	140,611,062	158,892,389	176,923,599	198,312,514	200,107,383	188,006,712	162,912,625	110,953,135	91,908,559
2016												
GW (SA1)	54,579,679	53,455,693	56,776,025	80,317,655	110,937,338							
Purchased (SA2)	27,516,676	26,507,624	27,531,636	34,054,196	51,071,196							
Total	82,096,355	79,963,317	84,307,661	114,371,851	162,008,534	0	0	0	0	0	0	0
% Reduction	19.55%	28.79%	38.68%	34.09%	37.71%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
% Cumulative Reduction	35.24%	34.87%	35.12%	35.04%	34.72%	40.48%	40.51%	39.27%	37.42%	35.98%	36.19%	36.14%

*Notes

2013 January and February production numbers do not match actually recorded production because of an open intertie delivering water to SA2. Information below is further details.
 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

Service Area 2

	# Accts	CCF	Gallons
2016 Jan	4,269	36,787	27,516,676
Feb	4,268	35,438	26,507,624
Mar	4,269	36,807	27,531,636
Apr	4,269	45,527	34,054,196
May	4,269	68,277	51,071,196
Jun			0
Jul			0
Aug			0
Sep			0
Oct			0
Nov			0
Dec			0

June 22, 2016

TO: Chairman and Directors of the Florin Resource Conservation District
FROM: Mark J. Madison, General Manager
SUBJECT: **ELK GROVE WATER DISTRICT OPERATIONS REPORT – MAY 2016**

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 May. 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 May 2016 Operations Report.

Present Situation

The EGWD May 2016 Operations Report highlights are as follows:

- **Operations Activities Summary** – Notable items in the activities summary are that the District hung 385 door hangers for past due balances which resulted in 37 shutoffs.
- **Production** – Well 11D was offline for the entire month for a scheduled rehabilitation. Well 13 also remained offline while staff is working to reduce the arsenic levels in that well. The Combined Total Service Area 1 production graph on page 13 shows that production during the month of May decreased compared

ELK GROVE WATER DISTRICT OPERATIONS REPORT – MAY 2016

Page 2

to May 2015 and is also 35.73 percent less than what was produced in 2013. The Total Demand/Production for both service areas on page 14 shows that customer use during the month of May, compared to May 2013, was down by 37.71 percent.

- **Static and Pumping Level Graphs** – The second quarter soundings are shown and indicate the static water levels in deeper zones have slightly improved compared to 2013.
- **Treatment (Compliance Reporting)** – All samples taken during the month are 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.
- **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 May:
 - Well 11D Dino was taken off-line for a scheduled rehabilitation. Staff began executing the flushing and sampling procedures.
 - Staff corrected malfunctions involving the SCADA alarm program.
 - Staff identified and repaired Well 11D electrical stoppage.
 - The Bi-annual backwash tank cleaning and inspections were completed by the Treatment Division.
- **Backflow Prevention Program 2016** – There were 58 notices issued for the month. From the initial testing notice, 50 devices passed. As of this report, there is a total of 8 outstanding devices which will require further investigation.
- **Safety Meetings/Training** – There were 6 safety training sessions conducted for the month. Only 2 safety sessions are required by OSHA standards.
- **Service Line Replacement Map** – The District installed no service lines for residential services in the month of May.
- **Service and Main Leaks Map** – There were no main line leaks and 2 service line leaks reported for the month.

ELK GROVE WATER DISTRICT OPERATIONS REPORT – MAY 2016

Page 3

STRATEGIC PLAN CONFORMITY

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

MJM/ah

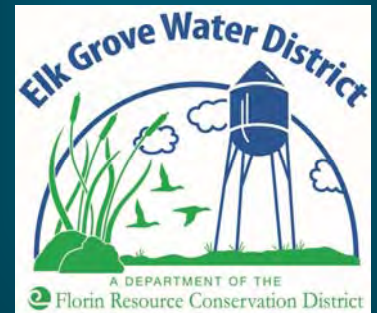
EGWD

OPERATIONS REPORT

May 2016



Elk
Grove
Water
District



Elk Grove Water District

Operations Report

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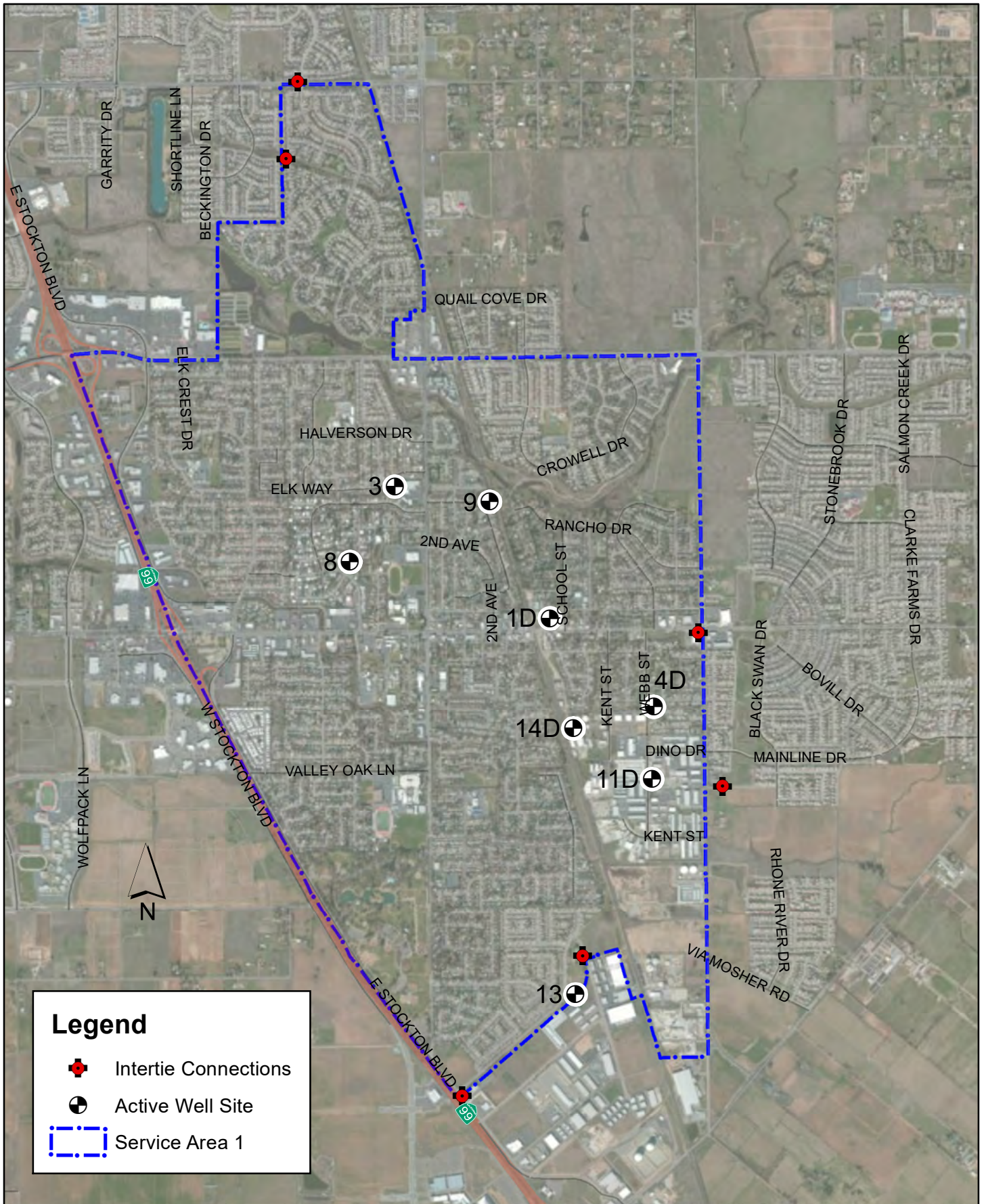
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6. Backflow Prevention Program 2016	4*

- 7. **Safety Meetings/Training** **4+**
- 8. **Service Line Replacement Map**..... **4,**
- 9. **Service and Main Leaks Map**..... **(-**
- 10. **Sample Station Areas Map** **) \$**
- 11. **Sample Station Area(s) Pressure Monitoring** **5%* \$**

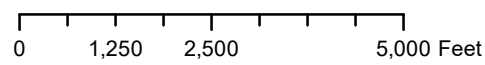
Operations Activities Summary

<u>Service Requests:</u>	May-16		YTD (Since July 1, 2015)	
<u>Department</u>	<u>Service Request</u>	<u>Hours</u>	<u>Service Request</u>	<u>Hours</u>
Distribution				
Door Hangers	385	9.75	4183	193.24
Shut offs	37	4	477	70.27
Turn ons	47	10.5	576	97.72
Investigations	33	17.75	369	238.34
USA Locates	137	34.25	1386	346.5
Customer Complaints				
-Pressure	1	0.5	17	12.25
-Water Quality	2	1	18	13
-Other	0	0	0	0

<u>Work Orders:</u>	May-16		YTD (Since July 1, 2015)	
<u>Department</u>	<u>Work Orders</u>	<u>Hours</u>	<u>Work Orders</u>	<u>Hours</u>
Treatment:				
Preventative Maint.	14	72.5	165	535
Corrective Maint.	2	6	27	249
Water Samples	25	67.5	145	414.5
Distribution:				
Meters Installed	0	0	2	4.5
Backflow Devices Installed	0	0	10	59
Preventative Maint.				
-Hydrant Flushing Program	0	0	0	0
-Hydrant Maintenance	176	53	711	500.22
-Valve Exercising	120	33	1271	417
-Other	4	39	10	88
Corrective Maint.				
-Leaks	2	22	52	996.75
-Other	10	25.25	255	1192.5
Valve Locates	0	0	23	172.5
Utility:				
Service Line Replacement	0	0	103	2205.19
Corrective Maint.	0	0	7	362



Active Well Sites & Intertie Connections



Elk Grove Water District



Elk Grove Water District

Monthly Production

Well ID School -- May 2016

Selected Month Production
2,945,262 Gallons

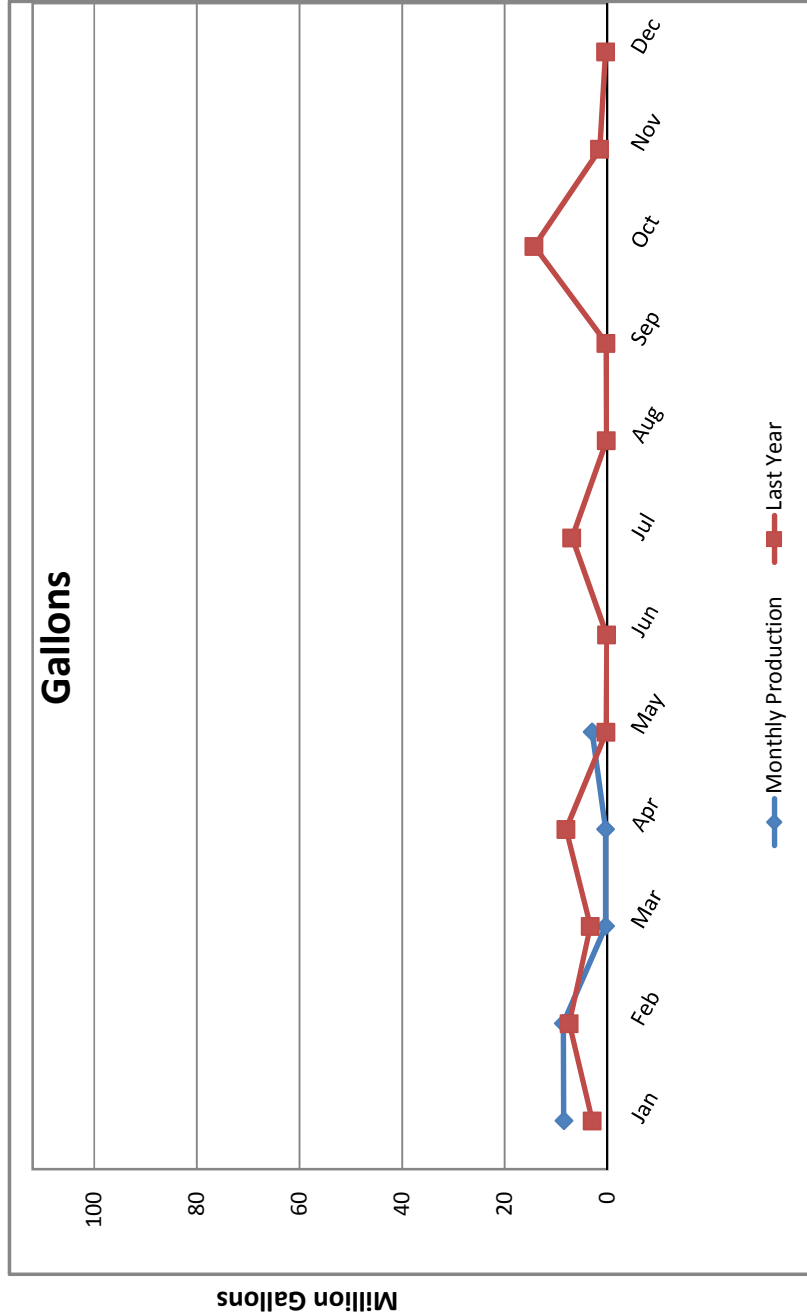
Average GPM:
1,818

Motor:
Volts: 469
Volts (Rated): 460
RPM: 2030
RPM (Rated): 2115
Amps A: 179
Amps A (Rated): 222
Amps B: 179
Amps B (Rated): 222
Amps C: 174
Amps C (Rated): 222

Motor Temp: 96.8 F
Hour Meter: 27.00
KW Hour Total: 3,760.00

Chlorine:
Dosing: 1.62
Demand: 0.78
Residual: 0.84

Vibration Reading:
Base Line: 0.05
Current: 0.01





Elk Grove Water District

Monthly Production

Well 4D Webb -- May, 2016

Selected Month Production
41,797,455 Gallons

Average GPM: 1,703

Motor:

Volts: 476
 Volts (Rated): 460
 RPM: 1836
 RPM (Rated): 1775
 Amps A: 184
 Amps A (Rated): 225
 Amps B: 183
 Amps B (Rated): 225
 Amps C: 182
 Amps C (Rated): 225

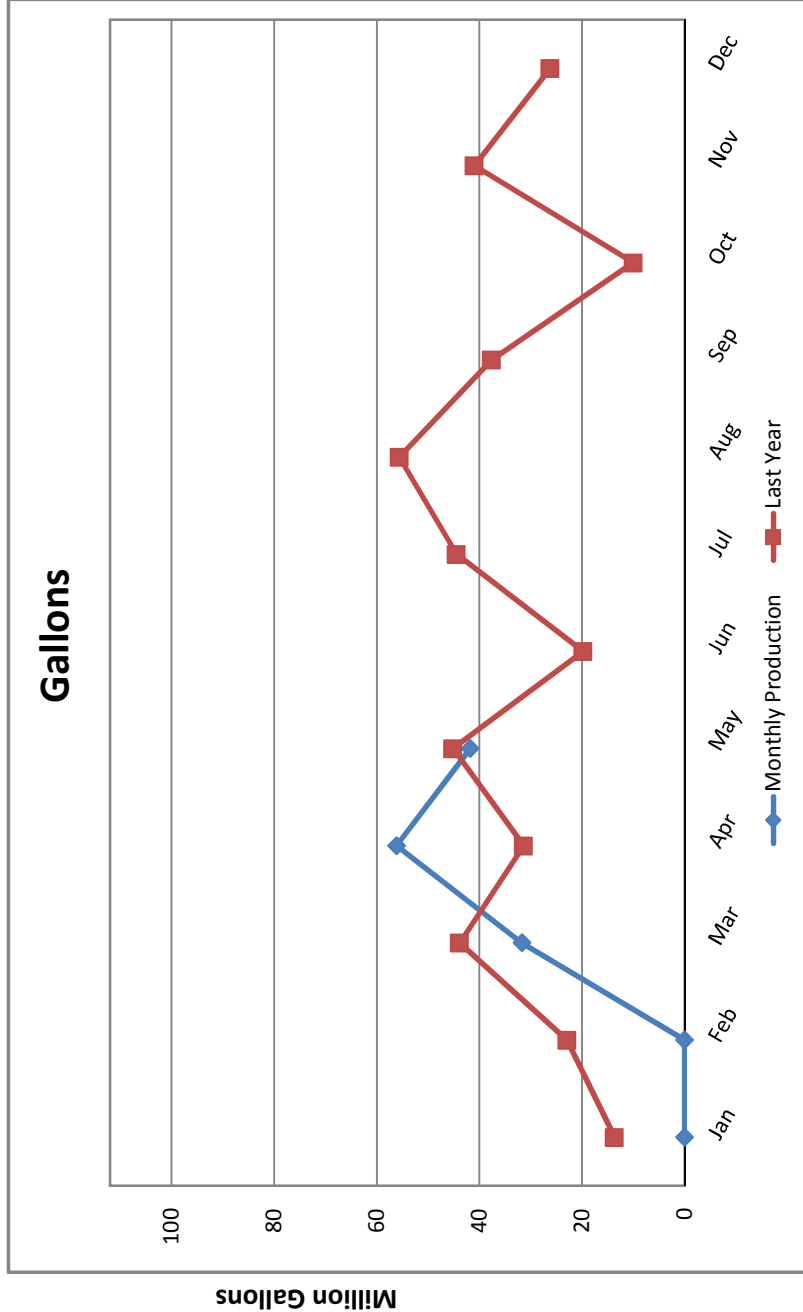
Motor Temp: 145.4 F
 Hour Meter: 408.90
 KW Hour Total: 51,240.00

Chlorine:

Dosing: 1.68 mg/L
 Demand: 0.64 mg/L
 Residual: 1.04 mg/L

Vibration Reading:

Base Line: 0.05 in/sec
 Current: 0.02 in/sec





Elk Grove Water District

Monthly Production

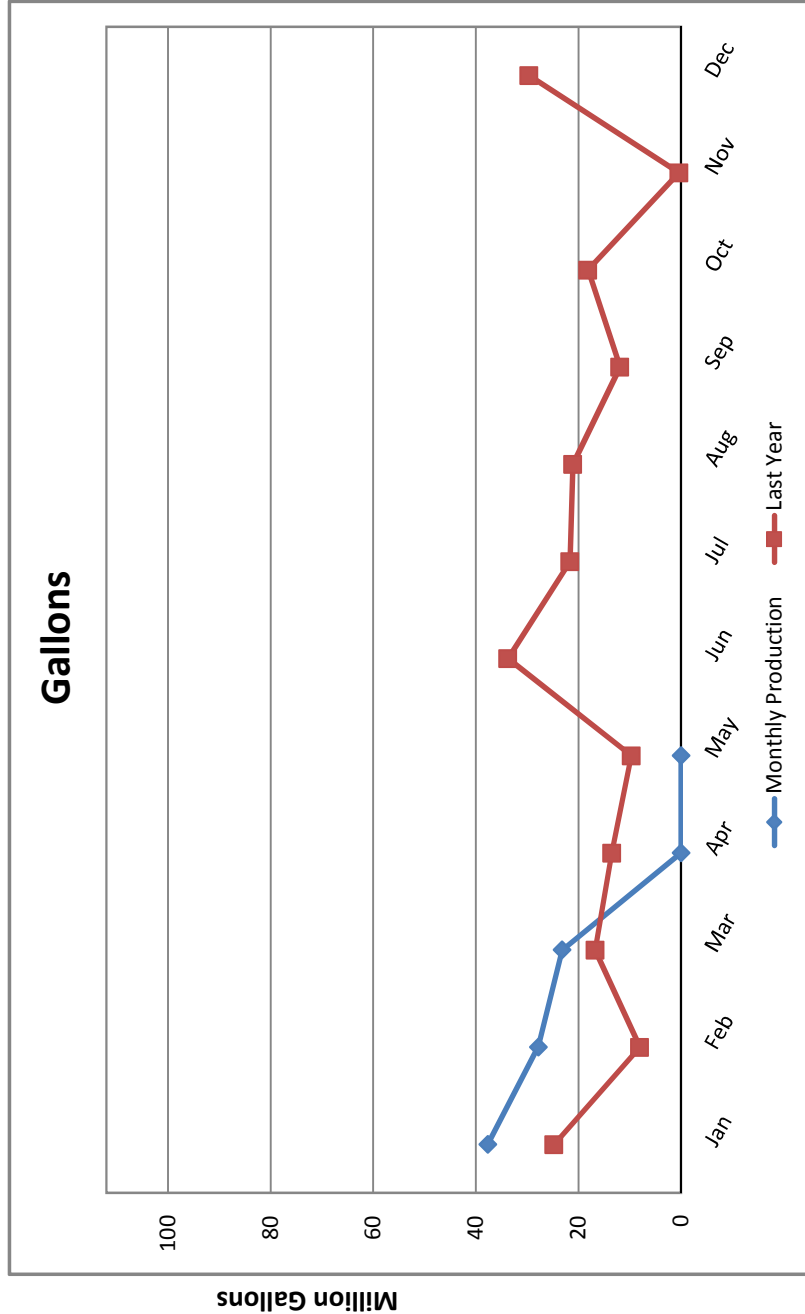
Well 11D Dino -- May 2016
Well Offline (Rehab.)

Selected Month Production
0 Gallons

Average GPM: 0

Motor:

Volts: 460
Volts (Rated): 460
RPM: 1775
RPM (Rated): 1775
Amps A: 225
Amps A (Rated): 225
Amps B: 225
Amps B (Rated): 225
Amps C: 225
Amps C (Rated): 225
Motor Temp: F
Hour Meter:
KW Hour Total:





Elk Grove Water District

Monthly Production

Well 14D Railroad -- May 2016

Selected Month Production
11,738,621 Gallons

Average GPM:
1,608

Motor:

Volts: 479
Volts (Rated): 460
RPM: 1985
RPM (Rated): 1785
Amps A: 165
Amps A (Rated): 171
Amps B: 162
Amps B (Rated): 171
Amps C: 163
Amps C (Rated): 171

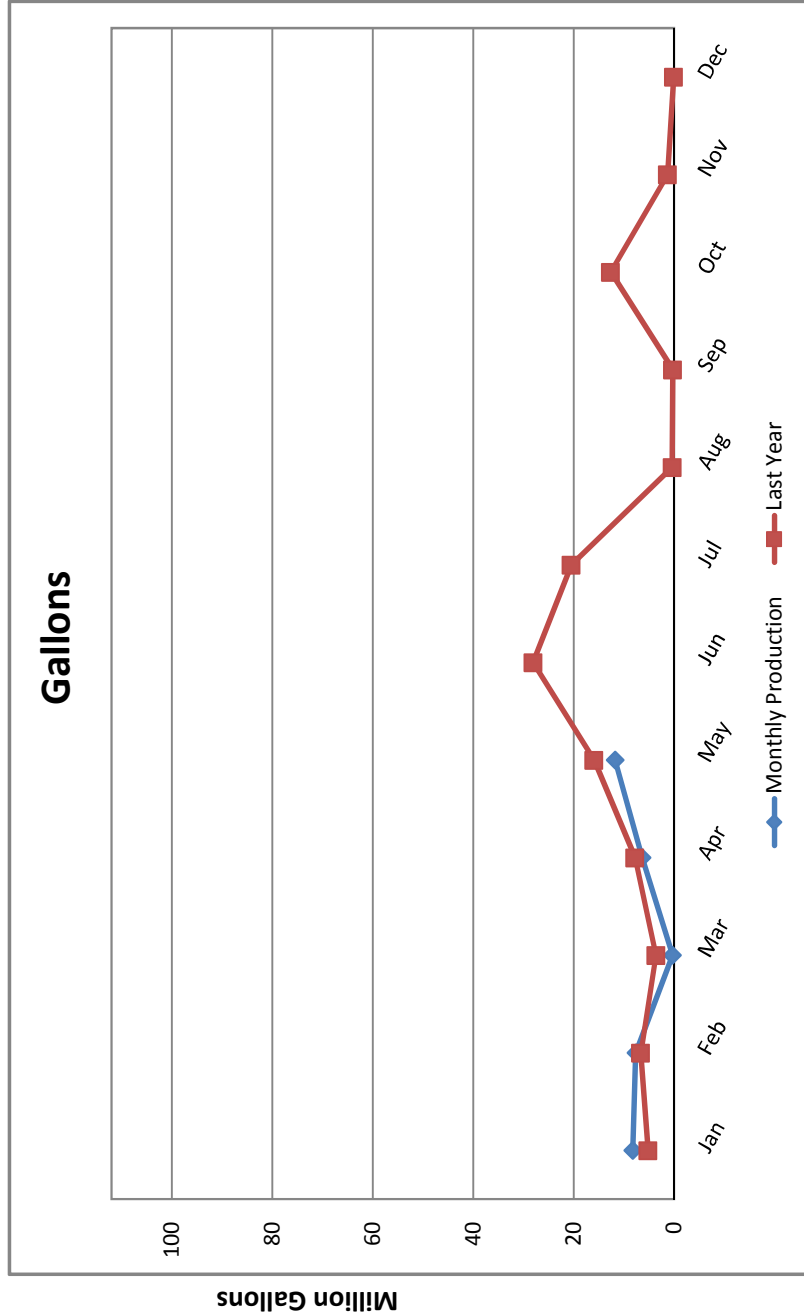
Motor Temp.: 148.4 F
Hour Meter: 121.60
KW Hour Total: 60,480.00
(KWH total is for the entire facility)

Chlorine:

Dosing: 1.79 mg/L
Demand: 0.75 mg/L
Residual: 1.04 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 -- May 2016

Selected Month Production
1,494,000 Gallons

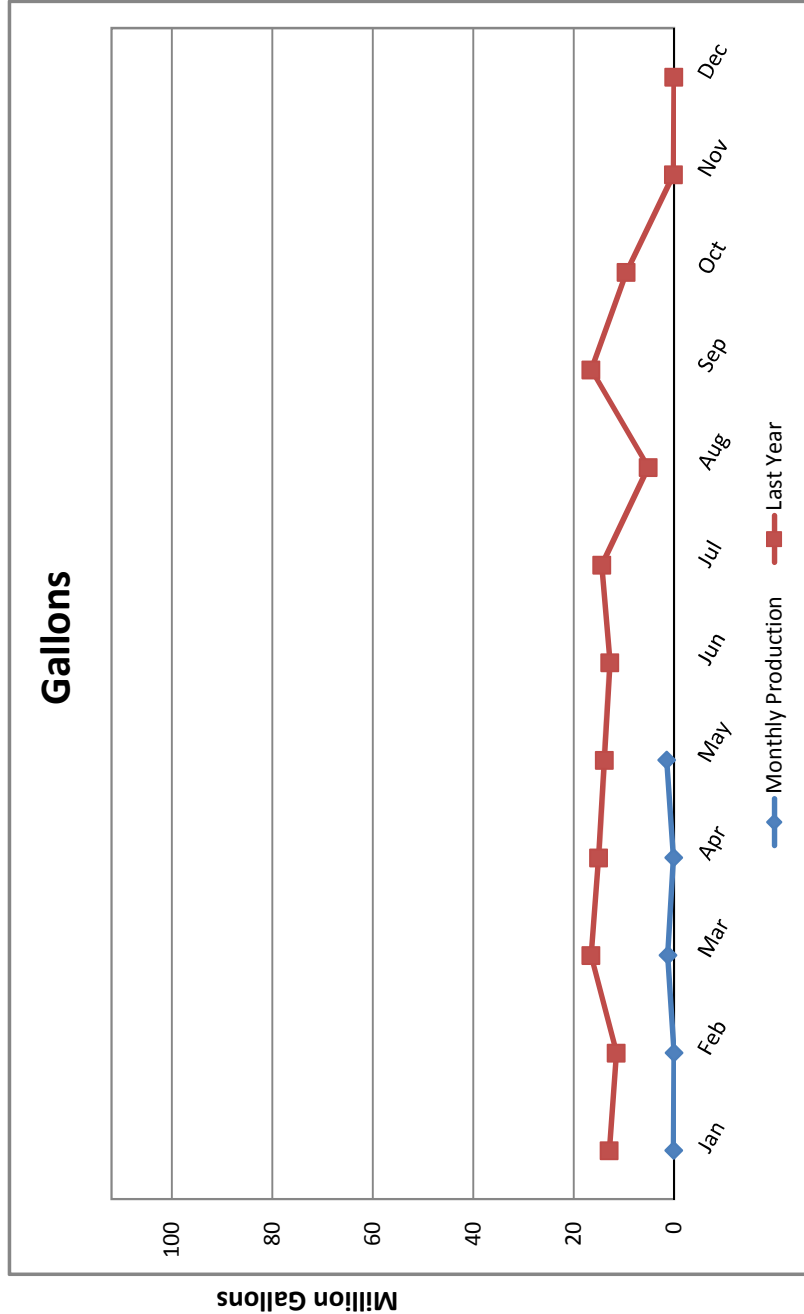
Average GPM: 893

Motor:
Volts: 476
Volts (Rated): 460
RPM: 1981
RPM (Rated): 1770
Amps A: 89
Amps A (Rated): 88
Amps B: 87
Amps B (Rated): 88
Amps C: 89
Amps C (Rated): 88

Motor Temp.: 177.4 F
Hour Meter: 27.90
KW Hour Total: 1,952.00

Chlorine:
Dosing: 1.47 mg/L
Demand: 0.69 mg/L
Residual: 0.78 mg/L

Vibration Reading:
Base Line: 0.02 in/sec
Current: 0.05 in/sec





Elk Grove Water District

Monthly Production

Well 8 Williamson -- May 2016

Selected Month Production
31,420,000 Gallons

Average GPM: 819

Motor:

Volts: 455
 Volts (Rated): 460
 RPM: 1988
 RPM (Rated): 1780
 Amps A: 89
 Amps A (Rated): 87
 Amps B: 87
 Amps B (Rated): 87
 Amps C: 88
 Amps C (Rated): 87

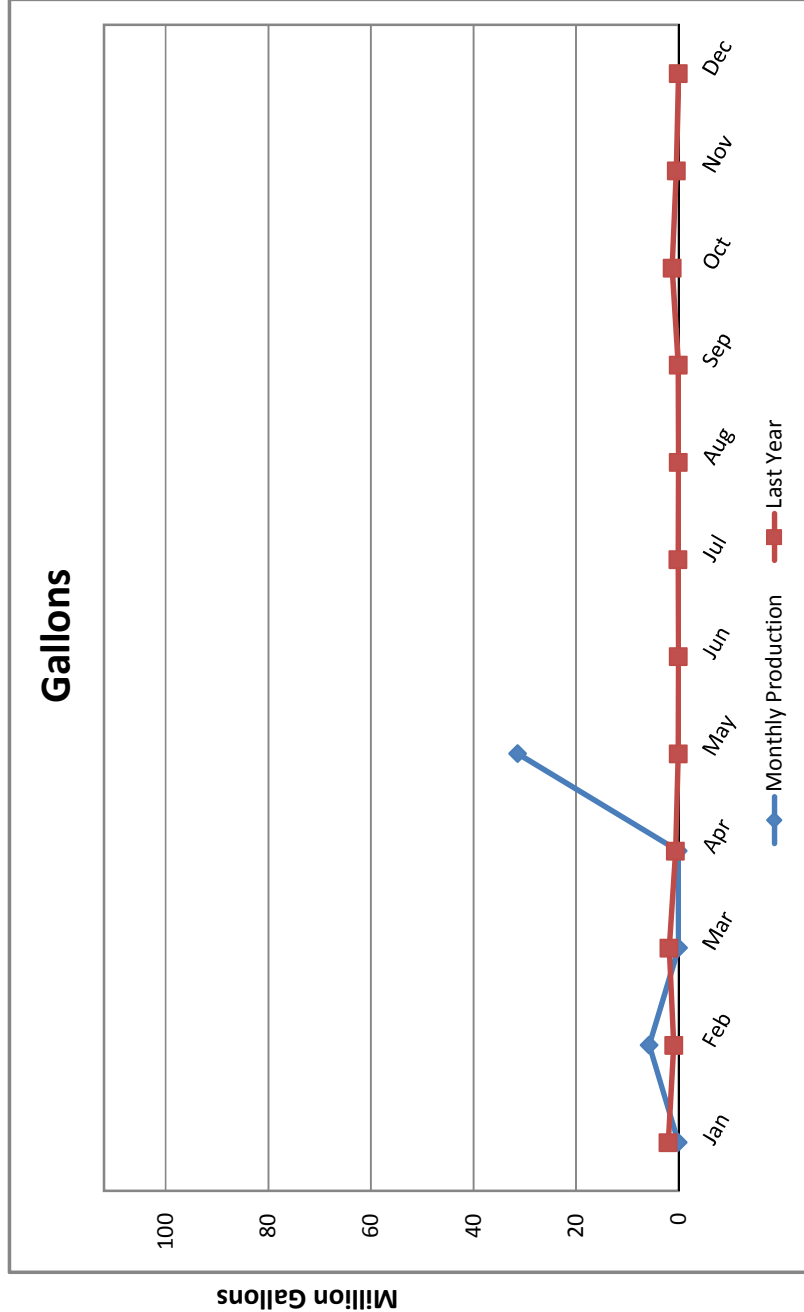
Motor Temp.: 167.1 F
 Hour Meter: 638.90
 KW Hour Total: 37,949.00

Chlorine:

Dosing: 1.16 mg/L
 Demand: 0.03 mg/L
 Residual: 1.13 mg/L

Vibration Reading:

Base Line: 0.03 in/sec
 Current: 0.06 in/sec





Elk Grove Water District

Monthly Production

Well 9 Polhemus -- May 2016
(Submersible)

Selected Month Production
21,542,000 Gallons

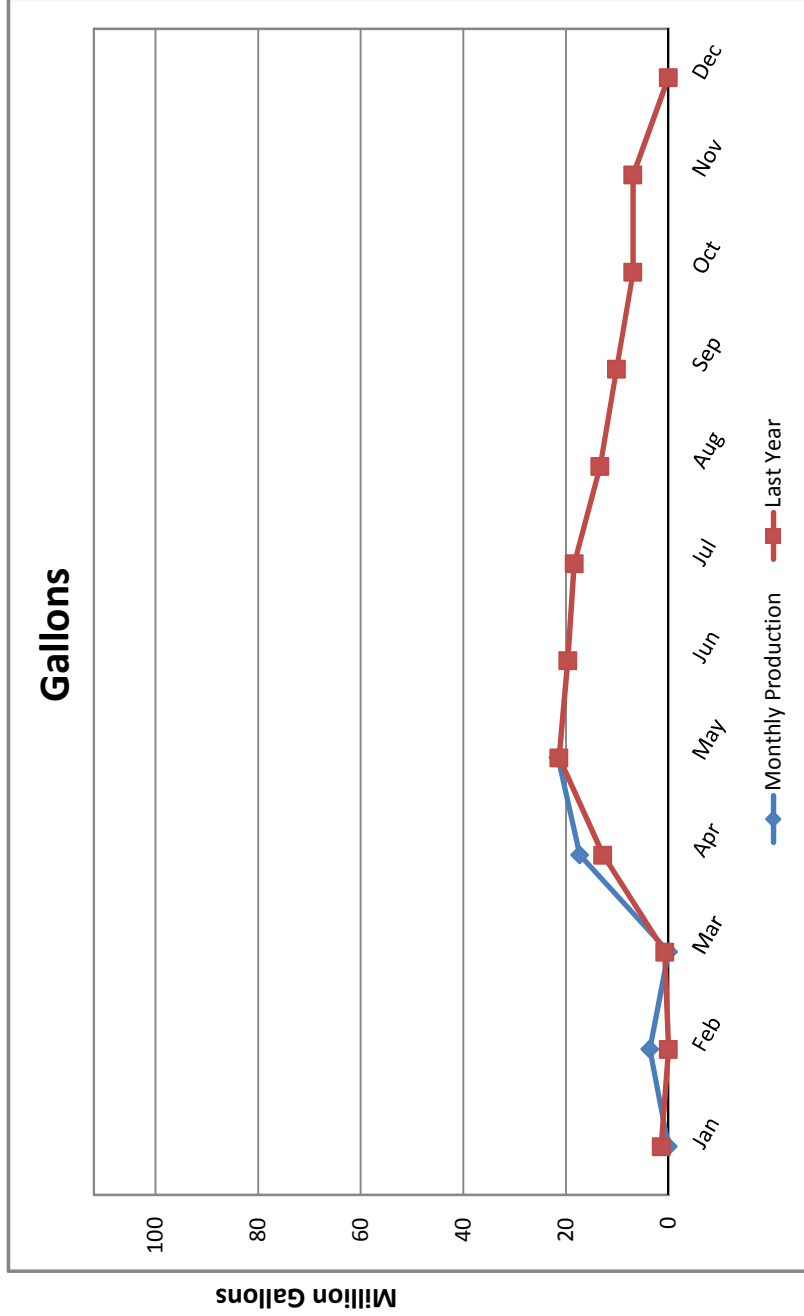
Average GPM: 483

Motor:
Volts: 480
Volts (Rated): 460

Amps A: 58
Amps A (Rated): 65
Amps B: 57
Amps B (Rated): 65
Amps C: 60
Amps C (Rated): 65

Hour Meter: 742.40
KW Hour Total: 29,262.00

Chlorine:
Dosing: 1.25 mg/L
Demand: 0.07 mg/L
Residual: 1.18 mg/L





Elk Grove Water District

Monthly Production

Well 13 Hampton -- May 2016
(Well is offline)

Selected Month Production
0 Gallons

Average GPM: 0

Motor:

Volts: 460
 RPM: 1785
 Amps A: 142
 Amps B: 142
 Amps C: 142

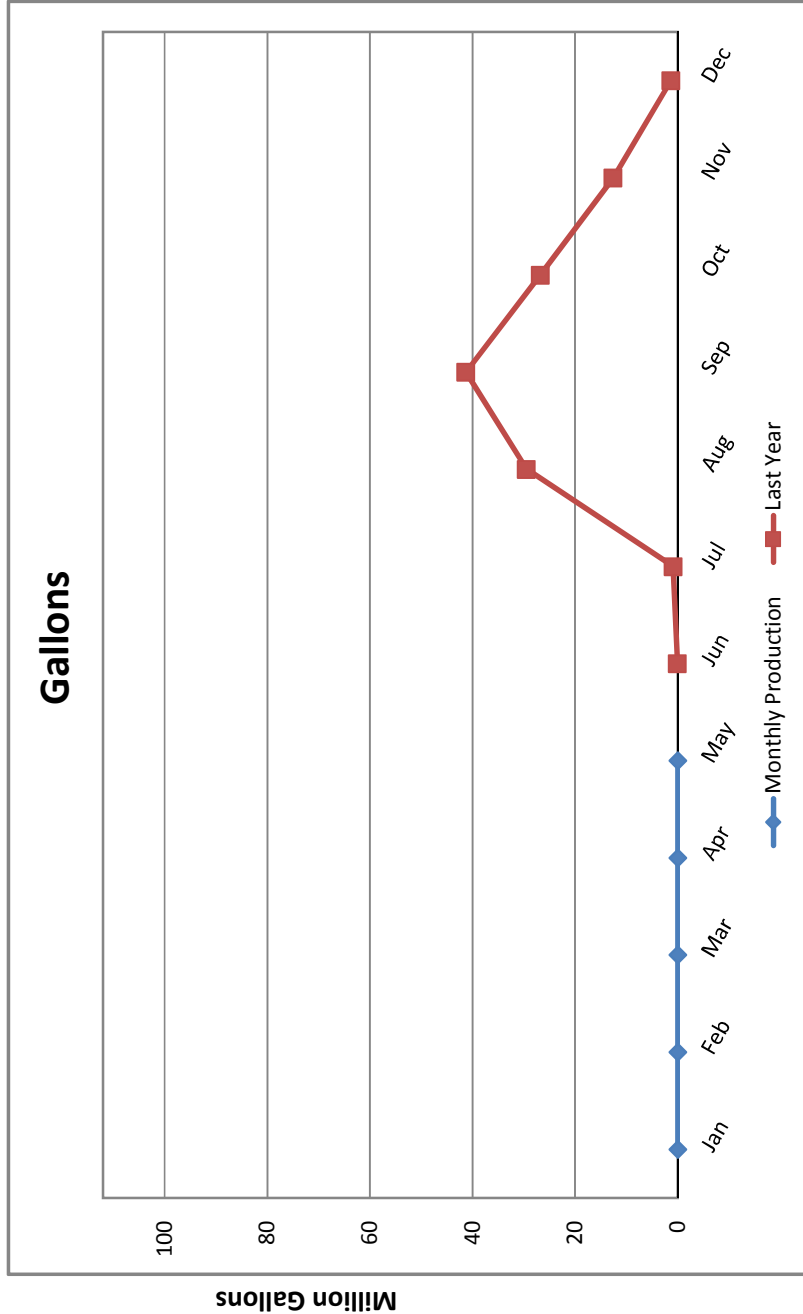
Motor Temp.: 0.00
 Hour Meter: 0.00
 KW Hour Total: 0.00

Chlorine:

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

Vibration Reading:

Base Line: 0.02 in/sec
 Current:





Elk Grove Water District

Combined Total Production

Service Area 1

May-2016

Current Month Production:

110,937,338 Gallons

Highest Day Demand of the Month:

5,296,473

Date of Occurrence

31-May-16

Highest Day Demand of the Calendar Year:

5,296,473

Date of Occurrence

31-May-16

"Water Year" Rainfall: (Oct-15 to Sep-16)

Current Month: 0.39 in

Year To Date: 16.19 in

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

May 2015: 0.07 in

Year To Date: 15.34 in

Last Year Total: 15.45 in

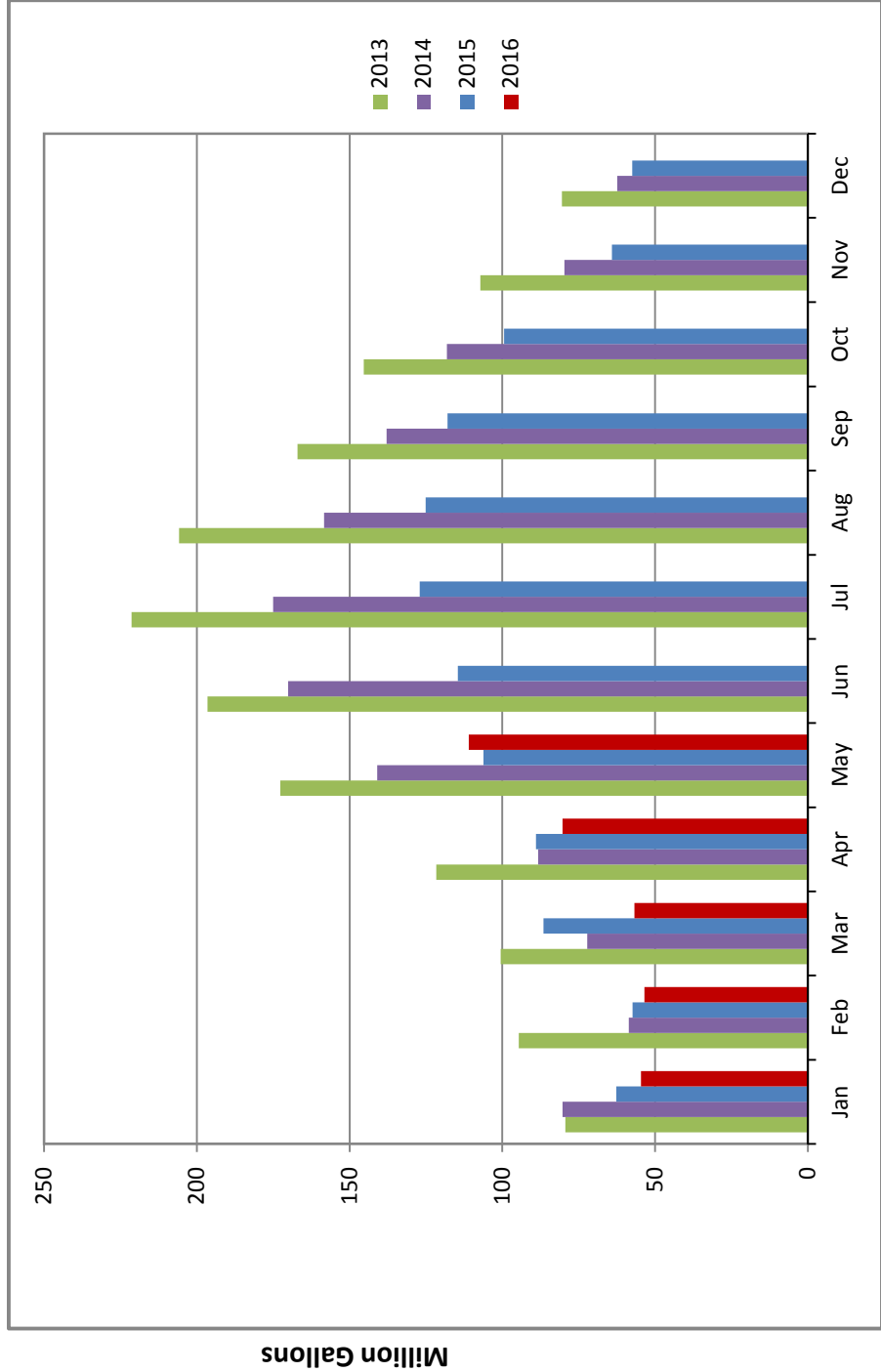
Temperature:

This Month High: 101 F

This Month Low: 49 F

MAY-15 High: 92 F

MAY-15 Low: 45 F

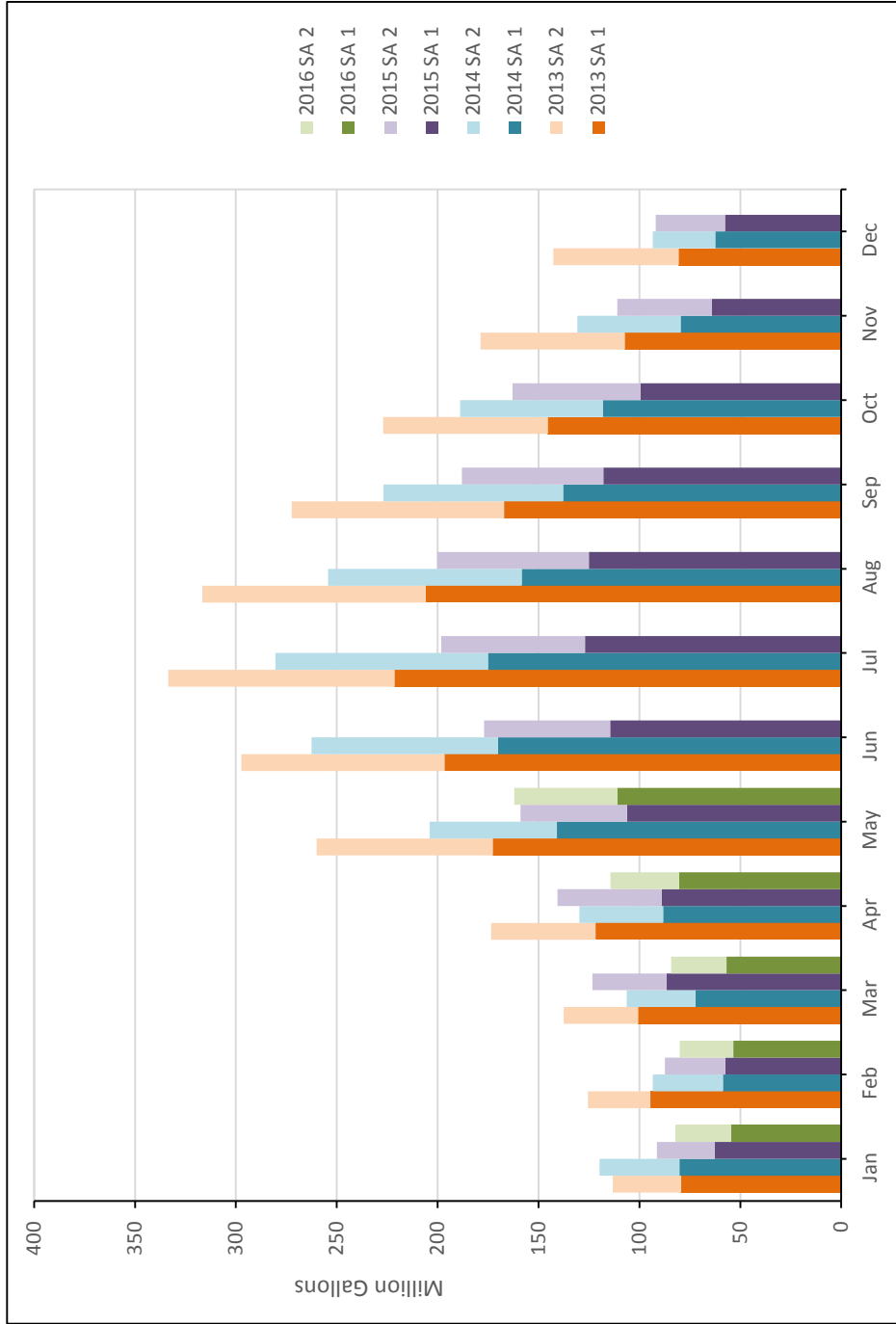




Elk Grove Water District

Total Demand/Production

May-2016



Current Month Demand/Production:
 162,008,534 Gallons
Reduction From May 2013: 37.71%
GPCD: 118.1 Gallons per Day
R-GPCD: 93.3 Gallons per Day

Service Area 1
Active Connections: 7,910
Current Month Demand/Production:
 110,937,338 Gallons
GPCD: 125.7 Gallons per Day
R-GPCD: 99.3 Gallons per Day

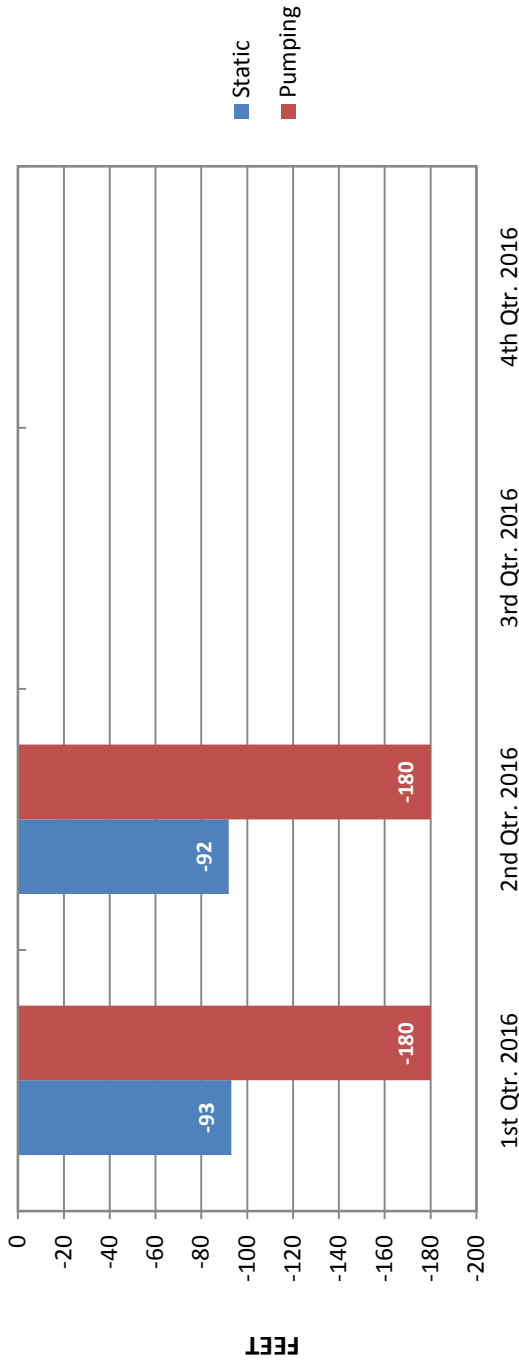
Service Area 2
Active Connections: 4,267
Current Month Demand/Production:
 51,071,196 Gallons
GPCD: 104.3 Gallons per Day
R-GPCD: 82.4 Gallons per Day



Elk Grove Water District

Static and Pumping Levels

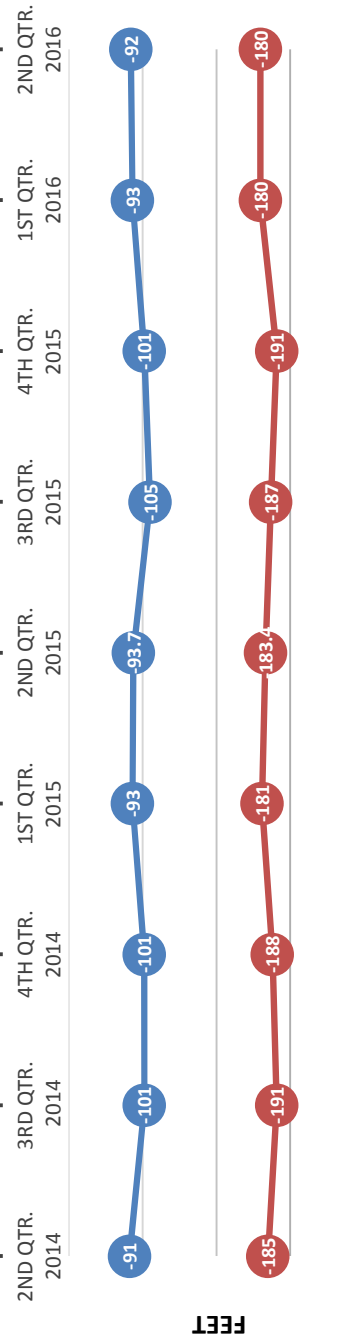
Well 1D School St



Latest Well Sounding

Static: 92 Ft
Pumping: 180 Ft
Drawdown: 88 Ft
GPM: 1,855.00
Specific Capacity: 21.080

Sounding Quarter/Year



Latest Sand Tester Results:

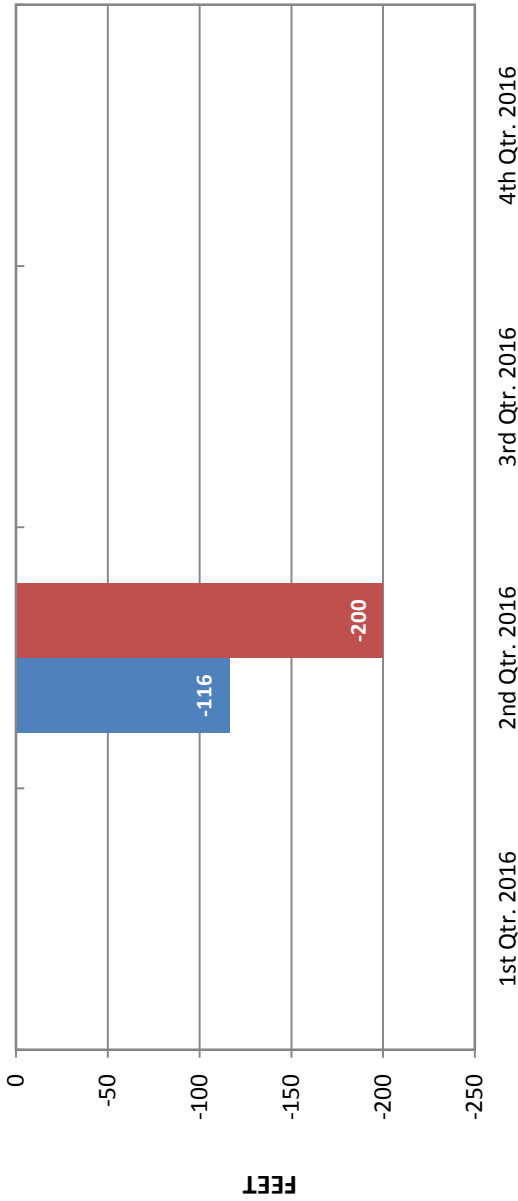
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

Well 4D Webb St

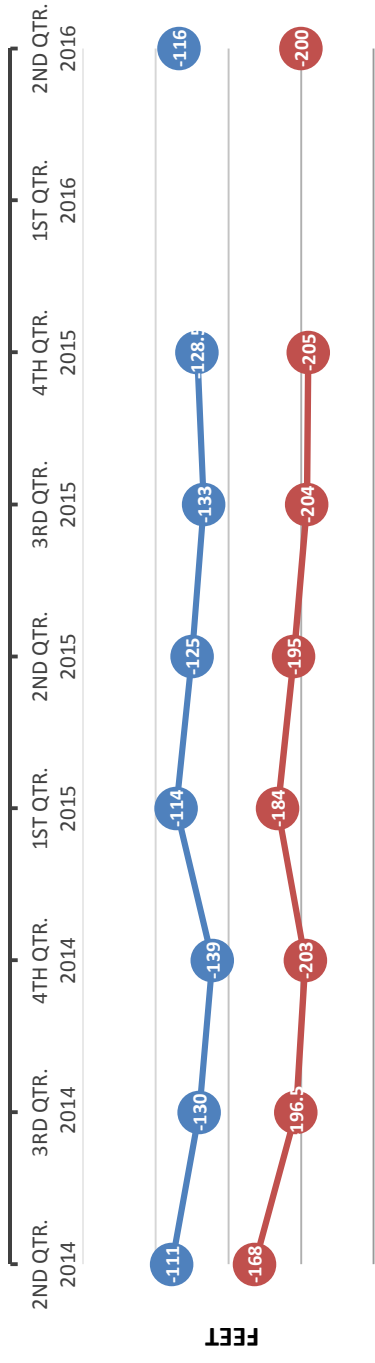


■ Static
■ Pumping

Latest Well Sounding

Static: 116 Ft
 Pumping: 200 Ft
 Drawdown: 84 Ft
 GPM: 1,679.00
 Specific Capacity: 19.988

Sounding Quarter/Year



Latest Sand Tester Results:

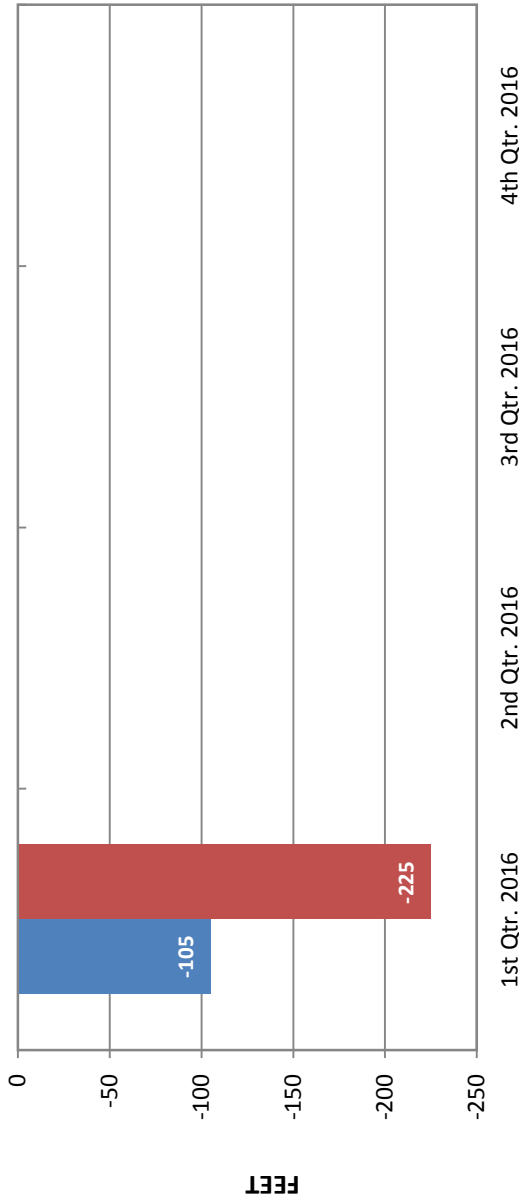
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

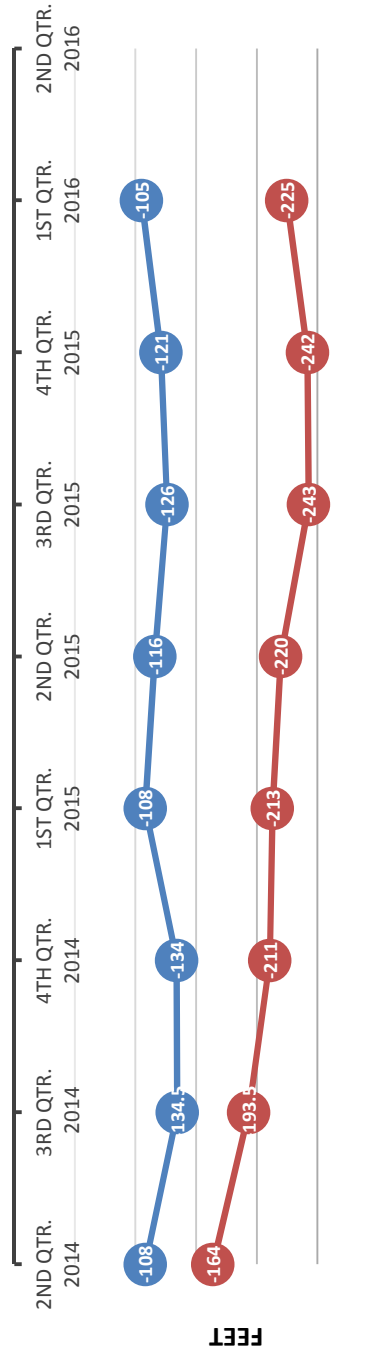
Well 11D Dino



Latest Well Sounding

Static: 105 Ft
Pumping: 225 Ft
Drawdown: 120 Ft
GPM: 1,698.00
Specific Capacity: 14.150

Sounding Quarter/Year



Latest Sand Tester Results:

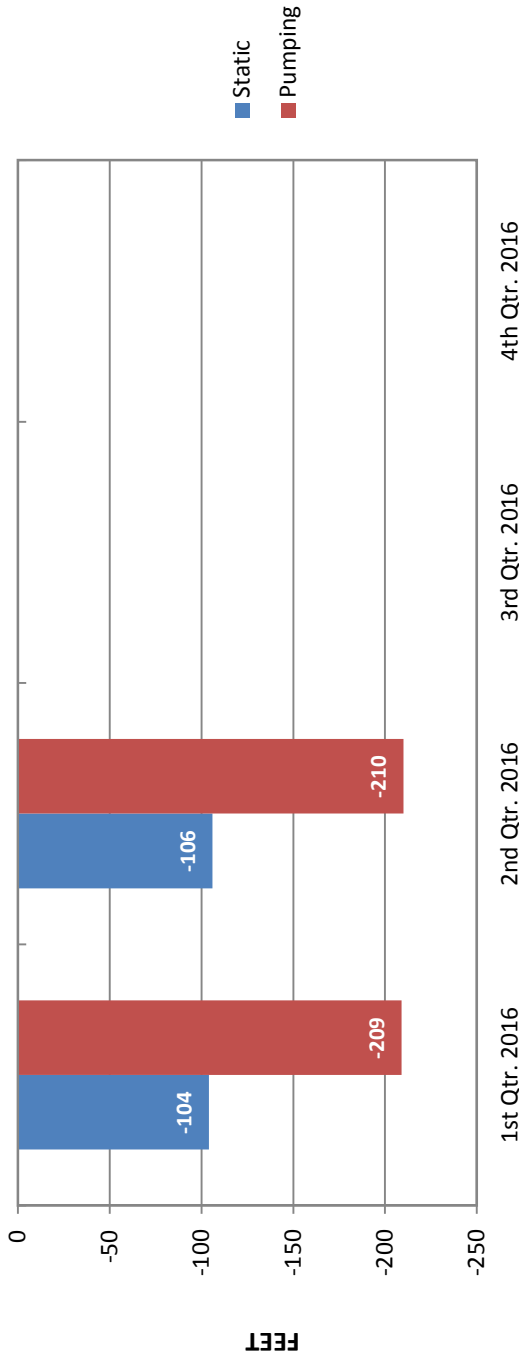
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

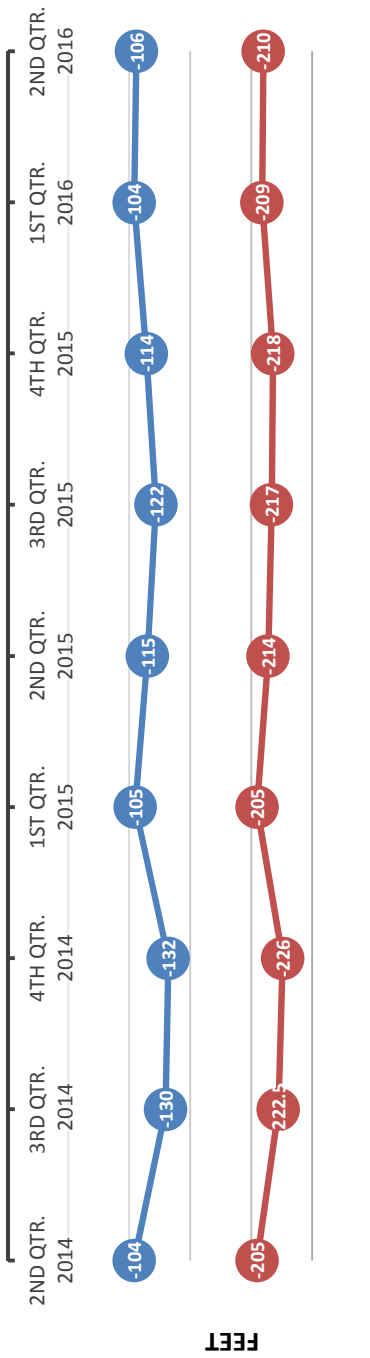
Well 14D Railroad



Latest Well Sounding

Static: 106 Ft
Pumping: 210 Ft
Drawdown: 104 Ft
GPM: 1,628.00
Specific Capacity: 15.654

Sounding Quarter/Year



Latest Sand Tester Results:

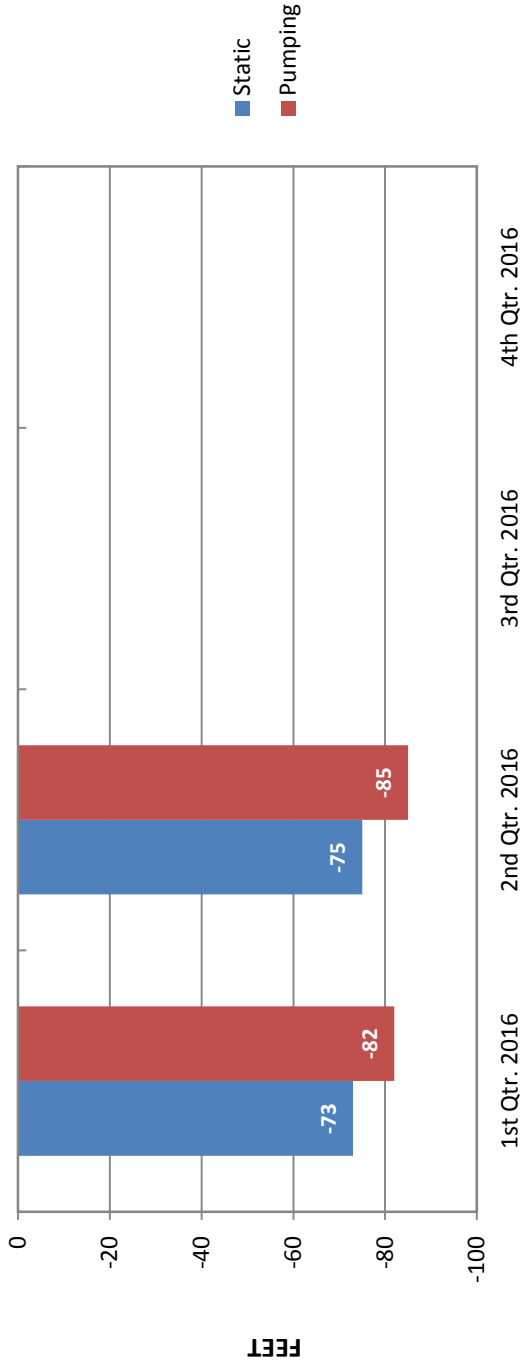
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

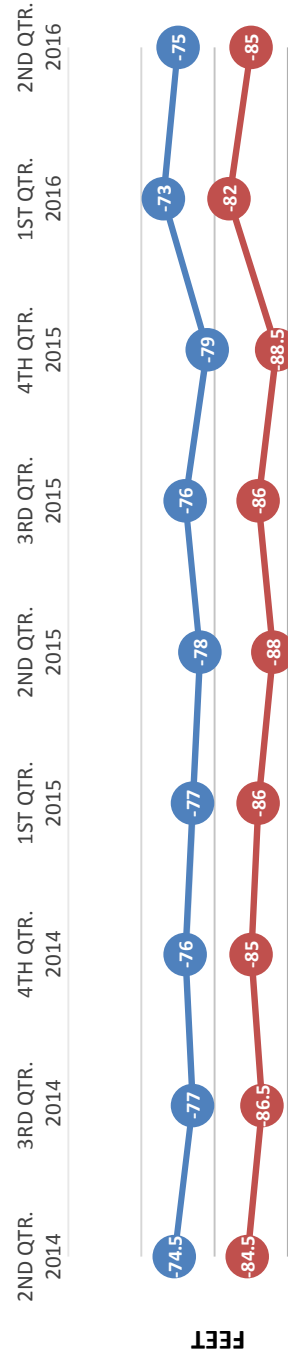
Well 3 Mar-Val



Latest Well Sounding

Static: 75 Ft
 Pumping: 85 Ft
 Drawdown: 10 Ft
 GPM: 870.00
 Specific Capacity: 87.000

Sounding Quarter/Year



Latest Sand Tester Results:

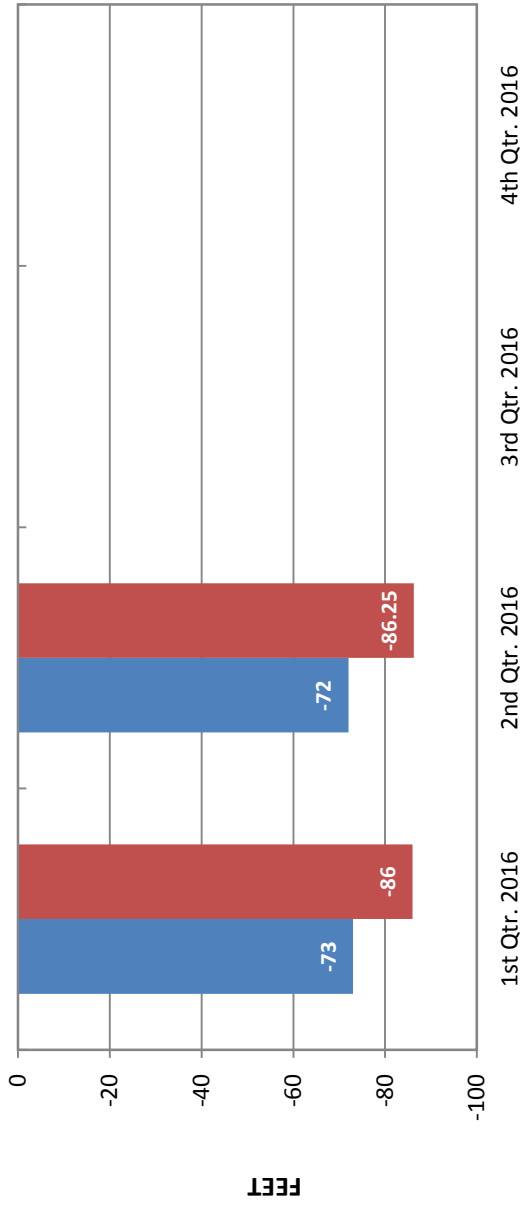
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

Well 8 Williamson

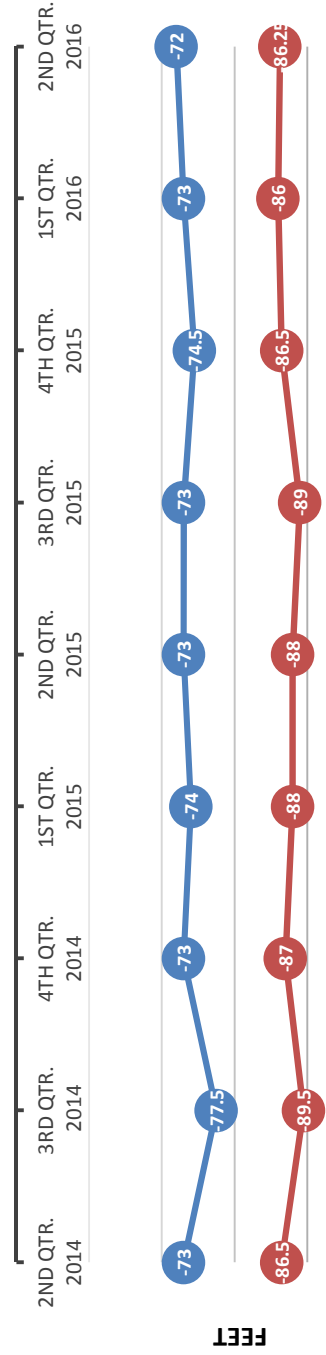


Latest Well Sounding

Static: 72 Ft
 Pumping: 86.25 Ft
 Drawdown: 14.25 Ft
 GPM: 840.00
 Specific Capacity: 58.947

■ Static
 ■ Pumping

Sounding Quarter/Year



Latest Sand Tester Results:

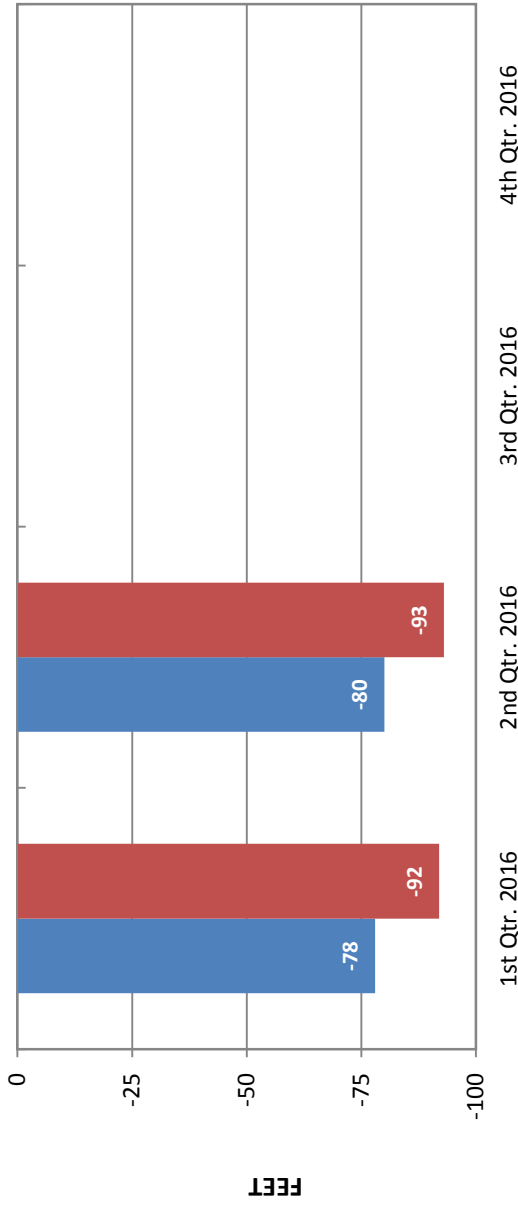
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

Well 9 Polhemus

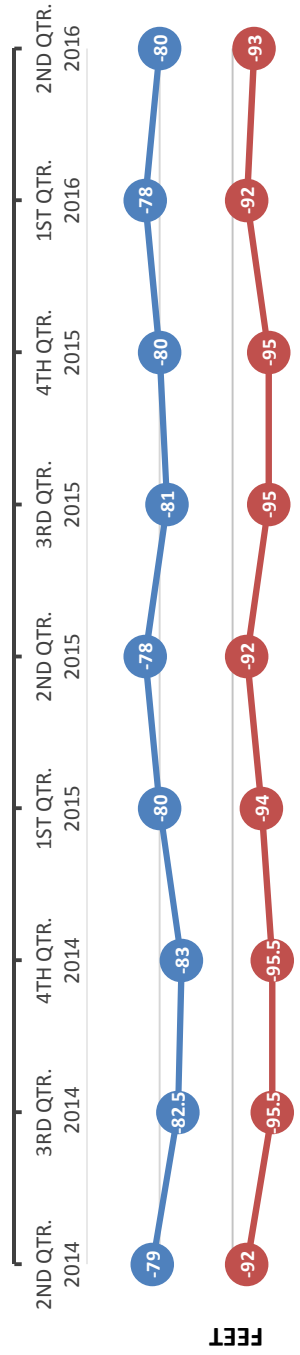


Latest Well Sounding

Static: 80 Ft
 Pumping: 93 Ft
 Drawdown: 13 Ft
 GPM: 480.00
 Specific Capacity: 36.923

■ Static
 ■ Pumping

Sounding Quarter/Year



Latest Sand Tester Results:

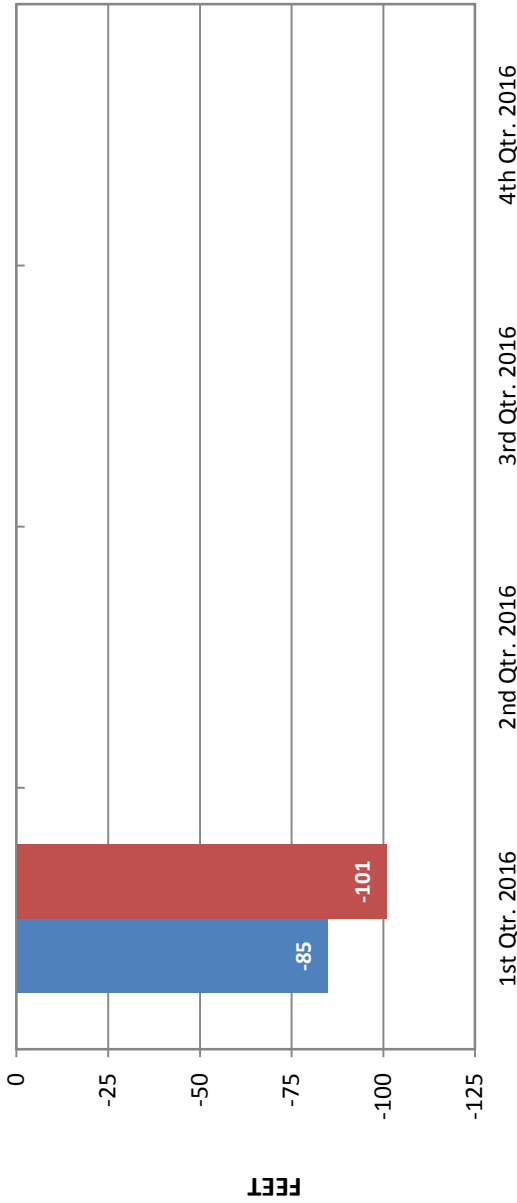
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

Well 13 Hampton



■ Static
■ Pumping

Latest Well Sounding

Static: 85 Ft

Pumping: 101 Ft

Drawdown: 16 Ft

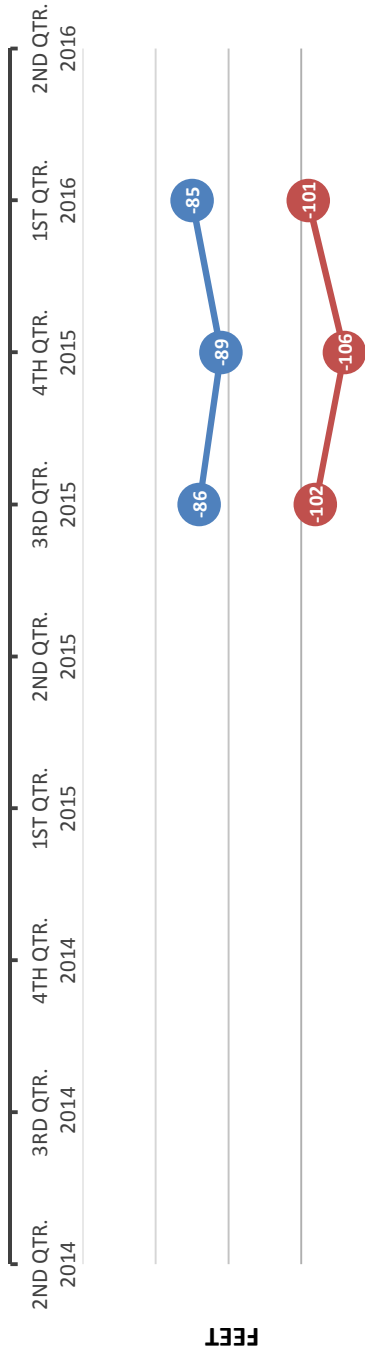
GPM: 990.00

Specific Capacity: 61.875

Latest Sand Tester Results:

15 Min: < 5 ppm

Sounding Quarter/Year



Monthly Sample Report - May 2016
Water System: Elk Grove Water System

Sampling Point: 01 - 8693 W. Camden			
Sample Date	Sample Class	Sample Name	Collection Occurrence
5/3/2016	Distribution System	Bacteriological	Week
5/10/2016	Distribution System	Bacteriological	Week
5/17/2016	Distribution System	Bacteriological	Week
5/24/2016	Distribution System	Bacteriological	Week
5/31/2016	Distribution System	Bacteriological	Week

Sampling Point: School Well 01D - Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence
5/10/2016	Source Water	3 mo - Bacteriological	Quarterly
5/10/2016	Source Water	3 mo - Fe,Mn,As Total	Quarterly
5/10/2016	Source Water	3 mo - Fe,Mn,As Dissolved	Quarterly

Sampling Point: 02 - 9425 Emerald Vista			
Sample Date	Sample Class	Sample Name	Collection Occurrence
5/3/2016	Distribution System	Bacteriological	Week
5/10/2016	Distribution System	Bacteriological	Week
5/17/2016	Distribution System	Bacteriological	Week
5/24/2016	Distribution System	Bacteriological	Week
5/31/2016	Distribution System	Bacteriological	Week

Sampling Point: Mar-Val Well 3 Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence
5/10/2016	Source Water	3 mo - Bacteriological	Quarterly
5/10/2016	Source Water	3 mo - Fe,Mn,As Total	Quarterly
5/10/2016	Source Water	3 mo - Fe,Mn,As Dissolved	Quarterly

Sampling Point: 03 - 8809 Valley Oak			
Sample Date	Sample Class	Sample Name	Collection Occurrence
5/3/2016	Distribution System	Bacteriological	Week
5/10/2016	Distribution System	Bacteriological	Week
5/17/2016	Distribution System	Bacteriological	Week
5/24/2016	Distribution System	Bacteriological	Week
5/31/2016	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
5/3/2016	Distribution System	Bacteriological	Week
5/10/2016	Distribution System	Bacteriological	Week
5/17/2016	Distribution System	Bacteriological	Week
5/24/2016	Distribution System	Bacteriological	Week
5/31/2016	Distribution System	Bacteriological	Week

Sampling Point: 05 - 9230 Amsden Ct.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
5/3/2016	Distribution System	Bacteriological	Week
5/10/2016	Distribution System	Bacteriological	Week
5/17/2016	Distribution System	Bacteriological	Week
5/24/2016	Distribution System	Bacteriological	Week
5/31/2016	Distribution System	Bacteriological	Week

Sampling Point: 06 - 9227 Rancho Dr.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
5/3/2016	Distribution System	Bacteriological	Week
5/10/2016	Distribution System	Bacteriological	Week
5/17/2016	Distribution System	Bacteriological	Week
5/24/2016	Distribution System	Bacteriological	Week
5/31/2016	Distribution System	Bacteriological	Week

Sampling Point: 07 - AI Gates Park Mainline Dr.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
5/3/2016	Distribution System	Bacteriological	Week
5/10/2016	Distribution System	Bacteriological	Week
5/17/2016	Distribution System	Bacteriological	Week
5/24/2016	Distribution System	Bacteriological	Week
5/31/2016	Distribution System	Bacteriological	Week

Sampling Point: Williamson Well 8 Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence
5/3/2016	Source Water	3 mo - Bacteriological	Quarterly
5/3/2016	Source Water	3 mo - Fe,Mn,As Total	Quarterly
5/3/2016	Source Water	3 mo - Fe,Mn,As Dissolved	Quarterly

Sampling Point: 08 - 9436 Hollow Springs Wy.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
5/3/2016	Distribution System	Bacteriological	Week
5/10/2016	Distribution System	Bacteriological	Week
5/17/2016	Distribution System	Bacteriological	Week
5/24/2016	Distribution System	Bacteriological	Week
5/31/2016	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
5/3/2016	Distribution System	Bacteriological	Week
5/10/2016	Distribution System	Bacteriological	Week
5/17/2016	Distribution System	Bacteriological	Week
5/24/2016	Distribution System	Bacteriological	Week
5/31/2016	Distribution System	Bacteriological	Week

Sampling Point: 10 - 9373 Oreo Ranch Cir.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
5/3/2016	Distribution System	Bacteriological	Week
5/10/2016	Distribution System	Bacteriological	Week
5/17/2016	Distribution System	Bacteriological	Week
5/24/2016	Distribution System	Bacteriological	Week
5/31/2016	Distribution System	Bacteriological	Week

Sampling Point: Dino Well 11D - Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence
5/9/2016	Source Water	Bacteriological	Initial Bacti After Well Rehab
5/10/2016	Source Water	Fe, Mn, As, Total	Flushing After Well Rehab
5/10/2016	Source Water	Fe, Mn, As, Dissolved	Flushing After Well Rehab
5/10/2016	Source Water	Bacteriological	Flushing After Well Rehab
5/16/2016	Source Water	As,Fe,Mn,Zu,Ba Total	Flushing After Well Rehab
5/16/2016	Source Water	As,Fe,Mn,Zu,Ba Total	Flushing After Well Rehab
5/16/2016	Source Water	Bacteriological	Flushing After Well Rehab
5/16/2016	Source Water	Bacteriological	Flushing After Well Rehab
5/25/2016	Source Water	As,Fe,Mn,Zu,Ba Total	Flushing After Well Rehab
5/25/2016	Source Water	As,Fe,Mn,Zu,Ba Total	Flushing After Well Rehab
5/25/2016	Source Water	Bacteriological	Flushing After Well Rehab
5/25/2016	Source Water	Bacteriological	Flushing After Well Rehab
5/31/2016	Source Water	As,Fe,Mn,Zu,Ba Total	Flushing After Well Rehab
5/31/2016	Source Water	As,Fe,Mn,Zu,Ba Total	Flushing After Well Rehab
5/31/2016	Source Water	Bacteriological	Flushing After Well Rehab
5/31/2016	Source Water	Bacteriological	Flushing After Well Rehab

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 Backwash Tank		
Sample Date	Sample Class	Sample Name

Collection Occurrence

Sampling Point: Railroad Well 14D - Raw Water		
Sample Date	Sample Class	Sample Name
5/10/2016	Source Water	3 mo - Bacteriological
5/10/2016	Source Water	3 mo - Fe,Mn,As Total
5/10/2016	Source Water	3 mo - Fe,Mn,As Dissolved

Collection Occurrence

Quarterly
Quarterly
Quarterly

Sampling Point: Railroad WTP Effluent		
Sample Date	Sample Class	Sample Name
5/3/2016	Treated Plant Effluent	WTP Eff - Fe,Mn,As,Al Total
5/3/2016	Treated Plant Effluent	WTP Eff - Fe,Mn,As,Al Dissolved

Collection Occurrence

Month
Month

Sampling Point: Special Distribution/Construction Samples		
Sample Date	Sample Class	Sample Name
5/2/2016	Distribution System	Cote D'Or Dr. lot #58
5/2/2016	Distribution System	Lorae Ct. lot #47
5/2/2016	Distribution System	Grosbeak Wy. Lot # 84
5/2/2016	Distribution System	Sauterne Wy./Lorae Wy. Lot #90
5/3/2016	Distribution System	10008 Wyland Dr.
5/3/2016	Distribution System	9516 Elk Grove Florin Rd.
5/9/2016	Distribution System	Cote D'Or Dr. lot #58
5/9/2016	Distribution System	Grosbeak Wy. Lot # 84
5/9/2016	Distribution System	Sauterne Wy. Lot #105
5/11/2016	Distribution System	9880 Kent St.

Collection Description

Fieldstone South New Mains (CIP)
Fieldstone South New Mains (CIP)
Fieldstone South New Mains (CIP)
Fieldstone South New Mains (CIP)
Fieldstone South 8" Tee Install (CIP)
6" Valve installation (Kerr Middle School)
Fieldstone South New Mains (CIP)
Fieldstone South New Mains (CIP)
Fieldstone South New Mains (CIP)
6" Hydrant Valve Removal

Colors	Monthly Total	Yearly Total
Black = Scheduled	59	268
Green = Unscheduled	31	59
Red = Incomplete Sample	0	0



June 7, 2016

State Water Resources Control Board
Division of Drinking Water
1001 I Street
13th Floor
Sacramento, Ca. 95814

MONTHLY SUMMARY OF DISTRIBUTION SYSTEM COLIFORM MONITORING

Enclosed is the Monthly Summary of Distribution System Coliform Monitoring report from Elk Grove Water District for May 2016.

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

A handwritten signature in blue ink, appearing to read "Steve Shaw", is written above the printed name.

STEVE SHAW
WATER TREATMENT SUPERVISOR

MONTHLY SUMMARY OF DISTRIBUTION SYSTEM COLIFORM MONITORING (including triggered source monitoring for systems subject to the Groundwater Rule)

System Name <p style="text-align: center; font-size: 1.2em;">Elk Grove Water District</p>	System Number <p style="text-align: center; font-size: 1.2em;">3410008</p>
Sampling Period <p style="text-align: center; font-size: 1.2em; color: blue;">May</p>	Year <p style="text-align: center; font-size: 1.2em;">2016</p>

	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 that are Total Coliform Positive and Fecal/E.coli <i>Negative</i> (see notes 5 and 6)		0	0	<input style="width: 40px; height: 15px;" type="text"/>
3. Repeat Samples following Routine Samples that are Total Coliform <i>Positive</i> and Fecal/E.coli Positive (see notes 5 and 6)		0	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>
4. MCL Computation for Total Coliform Positive Samples				
a. Totals (sum of columns)		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)		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
...with monthly MCL? (see note 4)		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> 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	<input style="width: 40px; height: 15px;" type="text"/>
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 <p style="text-align: center; font-size: 1.1em;">Water Treatment Supervisor</p>	Date <p style="text-align: center; font-size: 1.1em; color: blue;">6/7/2016</p>
---------------	--	--

NOTES AND INSTRUCTIONS:

1. Routine samples include:
 - a. Samples required pursuant to 22 CCR Section 64423 and any additional samples required by an approved routine sample siting plan established pursuant to 22 CCR Section 64422.
 - b. Extra samples are 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 are to be tracked on the Coliform Monitoring Worksheet.
6. Repeat samples must be collected within 24 hours of being notified of the positive results. For systems collecting more than one routine sample per month, three repeat samples must be collected for each total coliform positive sample. For systems collecting one or fewer routine samples per month, four repeat samples must be collected for each total coliform positive sample.
7. For systems subject to the Groundwater Rule: Positive results and the associated triggered source samples are to be tracked on the Coliform Monitoring Worksheet.
8. For triggered sample(s) required as a result of a total coliform routine positive sample, an *E.coli*, enterococci, or coliphage positive triggered sample (boxed entry) **requires immediate notification to the Department, Tier 1 public notification, and corrective action.**



June 7, 2016

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 May 2016.

The difference between flow meter reading on the Compliance Report form and The Monthly Waste Report form is an estimate of 59,000 gal used to clean the backwash tank for inspection.

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

A handwritten signature in blue ink, appearing to read "Steve Shaw". The signature is fluid and cursive, with a long horizontal stroke at the end.

STEVE SHAW
WATER TREATMENT SUPERVISOR



COMPLIANCE REPORT FORM

Attn: Tom Martin	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:	5	Year:	2016
--------	---	-------	------

<input checked="" type="checkbox"/> Water use/flow meter report <input type="checkbox"/> Monitoring results/analytical report	Railroad WTP: 78135 Hampton WTP: 0 <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;"></th> <th style="width:20%;">Date</th> <th style="width:20%;">Time</th> <th style="width:30%;">pH</th> </tr> </thead> <tbody> <tr> <td>Hampton WTP</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Railroad WTP</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Date	Time	pH	Hampton WTP				Railroad WTP			
	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	3	19	25	1425
Office	3	19	20	1140
Drivers/Field	19	19	5	1805
Total				4370

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 Water Treatment Supervisor

(Name) (Title)

DATE:

6/7/2016

Elk Grove Water District Monthly Waste Report May 2016

Date	Railroad WTP Waste Meter	Gallons	Hampton WTP Waste Meter	Gallons
1	10729125	0	82978	0
2	10729125	0	82978	0
3	10729125	0	82978	0
4	10729125	0	82978	0
5	10729125	0	82978	0
6	10729125	0	82978	0
7	10729125	0	82978	0
8	10729125	0	82978	0
9	10729125	0	82978	0
10	10729125	0	82978	0
11	10729125	0	82978	0
12	10729125	0	82978	0
13	10729125	0	82978	0
14	10729125	0	82978	0
15	10729125	0	82978	0
16	10748260	19135	82978	0
17	10748260	0	82978	0
18	10748260	0	82978	0
19	10748260	0	82978	0
20	10748260	0	82978	0
21	10748260	0	82978	0
22	10748260	0	82978	0
23	10748260	0	82978	0
24	10748260	0	82978	0
25	10748260	0	82978	0
26	10748260	0	82978	0
27	10748260	0	82978	0
28	10748260	0	82978	0
29	10748260	0	82978	0
30	10748260	0	82978	0
31	10748260	0	82978	0

Elk Grove Water District

Preventative Maintenance Program

M.C.C. and Lab

Item	Quarterly				Annual	
	1st	2nd	3rd	4th	Refer.	2016
Fume Hood	AH 3/22/16 13869 Sect: 1.1.1				Sect: 1.2.3	
Dulco-meter	AH 3/22/16 13869 Sect: 1.1.2				Sect: 1.2.1	
M.C.C.						
Circuit Breaker					Sect: 1.2.2	
C12 DPD Handheld	AH 3/29/16 13869 Sect: 1.1.3					

Year: 2016

Elk Grove Water District

Preventative Maintenance Program

Backwash System and Storage Tanks

Item	MONTHLY												Semi-annual		Annual				
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	2016	Refer.	2016		
Mag meter																	WQ	4/1/16	13971
MCC																			
Pressure Transdr																			
Backwash Tank																			
Return Pumps																			
Storage Tanks																			
Bray Valves																			

Item	Initials	Date	W.O. #
Mag meter			
MCC			
Pressure Transdr			
Backwash Tank			
Return Pumps			
Storage Tanks			
Bray Valves			

Item	Initials	Date	W.O. #
Return Pumps			
Storage Tanks			
Bray Valves			

Item	Initials	Date	W.O. #
Return Pumps			
Storage Tanks			
Bray Valves			

Year: 2016

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.	2016	
Electric Motor	Initials	WQ	AH	WQ	WQ	WQ										
	Date	1/20/16	2/17/16	3/24/16	4/13/16	5/25/16										
	W.O.#	13582	13746	13868	13967	14023										
PUMP	Initials	WQ	AH	WQ	WQ	WQ										
	Date	1/20/16	2/17/16	3/24/16	4/13/16	5/25/16										
	W.O.#	13582	13746	13868	13967	14023										
A.R.V.	Initials															
	Date															
	W.O.#															
Rising Stem Valve	Initials															
	Date															
	W.O.#															

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	1st	2nd	3rd		4th	Refer.	2016
Cl2 Meter System	Initials	WQ	WQ	WQ	WQ	WQ												4.4.1		
	Date	1/19/16	2/2/16	3/1/16	4/14/16	5/23/16														
	W.O. #	13581	13744	13866	13964	14022														
Exhaust Fan	Initials													AH				4.3.1		
	Date													3/9/16						
	W.O. #													13748						
Hydrogen Blow/Det.	Initials																	4.2/4.3		
	Date																			
	W.O. #																			
Cell and Electrode	Initials																	4.3.2		
	Date																			
	W.O. #																			
Hypo/brine Tank	Initials	WQ	WQ	WQ	WQ	WQ												4.4.5		
	Date	1/19/16	2/2/16	3/1/16	4/14/16	5/23/16														
	W.O. #	13581	13744	13866	13964	14022														
Water Softener	Initials																	4.4.6		
	Date																			
	W.O. #																			
Rectifier	Initials	WQ	WQ	WQ	WQ	WQ												4.4.4		
	Date	1/19/16	2/2/16	3/1/16	4/14/16	5/23/16														
	W.O. #	13581	13744	13866	13964	14022														
Clor-Tec Unit	Initials	WQ	WQ	WQ	WQ	WQ												4.4.4		
	Date	1/19/16	2/2/16	3/1/16	4/14/16	5/23/16														
	W.O. #	13581	13744	13866	13964	14022														

Year: 2016

Elk Grove Water District

Preventative Maintenance Program

Filter Vessels

Item	Monthly												Semi-annual		Annual								
	Refer	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer	2016	Refer	2016						
Air/Vac Valves	Initials													Date					W.O. #				
Bray Valves	Initials													Date					W.O. #				
CLA-VAL	Initials													Date					W.O. #				
Pilot Valves	Initials													Date					W.O. #				
	Initials													Date					W.O. #				
Press. Diff. Trnsdcr.	Initials													Date					W.O. #				
	Initials													Date					W.O. #				
Vessels	Initials													Date					W.O. #				
	Initials													Date					W.O. #				

Year: 2016

Elk Grove Water District

Preventative Maintenance Program

Standby Generator

Item	Refer	Monthly												Annual	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2016	
Fuel Tank	Sect: 6.1.1	WQ	WQ	WQ	WQ	WQ								WQ	
		1/5/16	2/2/16	3/23/16	4/6/16	5/23/16								5/27/16	
		13583	13743	13864	13968	14019								13977	
Radiator	Sect: 6.3.1													WQ	
														4/19/16	
														13977	
Battery/Charger	Sect: 6.1.2	WQ	WQ	WQ	WQ	WQ									
		1/5/16	2/2/16	3/23/16	4/6/16	5/23/16									
		13583	13743	13864	13968	14019									
Coolant Heater	Sect: 6.3.3													WQ	
														4/19/16	
														13977	
Generator	Sect: 6.1.3	WQ	WQ	WQ	WQ	WQ									
		1/5/16	2/2/16	3/23/16	4/6/16	5/23/16									
		13583	13743	13864	13968	14019									
Engine	Sect: 6.3.4/6.4.2													WQ	
														4/19/16	
														13977	

Elk Grove Water District

Preventative Maintenance Program

Well 4D Webb

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.	2016
Pump	Initials Date W.O. #	WQ 1/21/16 13593	AH 13742	WQ 3/15/16 13875	WQ 4/11/16 13958	WQ 5/24/16 14013								Sect: 8.2.1				
Motor	Initials Date W.O. #	WQ 1/21/16 13593	AH 13742	WQ 3/15/16 13875	WQ 4/11/16 13958	WQ 5/24/16 14013								Sect: 8.2.2				
Press/Lvl Transdr.	Initials Date W.O. #													Sect: 8.3.2				
Isolation Valves	Initials Date W.O. #													Sect: 8.3.6				
Cla-Val	Initials Date W.O. #													Sect: 8.3.1				
Mag-Meter	Initials Date W.O. #													Sect: 8.3.3				
A.R.V.	Initials Date W.O. #													Sect: 8.3.4				
M.C.C.	Initials Date W.O. #													Sect: 8.3.5				
Portable Generator	Initials Date W.O. #	WQ 1/21/16 13593	AH 13742	WQ 3/15/16 13875	WQ 4/11/16 13958	WQ 5/24/16 14013								Sect: 8.2.4			Sect: 8.3.7/8.4.1	
Generator Set	Initials Date W.O. #													Sect: 8.4.2				

=Well Offline

Elk Grove Water District

Preventative Maintenance Program

Well 11D Dino

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.	2016	
Pump	Initials Date W.O. #	WQ 1/7/16 13591	AH 2/18/16 13741	WQ 3/16/16 13874	AH 13957	AH 14014								Sect: 9.1.1	Sect: 9.2.1				
Motor	Initials Date W.O. #	WQ 1/7/16 13591	AH 2/18/16 13741	WQ 3/16/16 13874	AH 13957	AH 14014								Sect: 9.1.2	Sect: 9.2.2				
Press/LV Transdr.	Initials Date W.O. #																		Sect: 9.3.2
Isolation Valves	Initials Date W.O. #																		Sect: 9.3.6
Cla-Val	Initials Date W.O. #																		Sect: 9.3.1
Mag-Meter	Initials Date W.O. #																		Sect: 9.3.3
A.R.V.	Initials Date W.O. #																		Sect: 9.3.4
M.C.C.	Initials Date W.O. #																		Sect: 9.3.5
Portable Generator	Initials Date W.O. #	WQ 1/7/16 13591	AH 2/18/16 13741	WQ 3/16/16 13874	AH 13957	AH 14014								Sect: 9.1.3	Sect: 9.2.4				Sect: 9.3.7/9.4.1
Generator Set	Initials Date W.O. #																		Sect: 9.4.2

=Well Offline

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	2nd	3rd	4th	Refer.	2016	
Motor	Section: 11.1.2	AH 1/13/16 13587	AH 2/18/16 13738	WQ/MW 3/23/16 13872	AH 4/11/16 13959	WQ 5/25/16 14018														Section: 11.3.2						
Pump	Section: 11.1.1	AH 1/13/16 13587	AH 2/18/16 13738	WQ/MW 3/23/16 13872	AH 4/11/16 13959	WQ 5/25/16 14018														Section: 11.3.1						
Chlorine Pump														Section: 11.2.1	WQ/MW 3/23/16 13873											
Air Changer														Section: 11.2.2	WQ/MW 3/23/16 13873											
Check Valve																										
A.R.V.																										
M.C.C.																										
Pneumat Tank																										
Isolation Valves																										
Propeller Meter																										

Year: 2016

Elk Grove Water District

Preventative Maintenance Program

Well 9 Polhemus

Item	Check Valve	Monthly												Quarterly				Annual		
		Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1st	2nd	3rd	4th	Refer.	2016
Chlorine Pump	Initials Date W.O. #	Sec: TBD	WQ 1/11/16 13588	WQ 2/4/16 13736	WQ 3/22/16 13870	WQ 4/7/16 13960	WQ 5/11/16 14017													
Air Charer	Initials Date W.O. #																			
Isolation Valves	Initials Date W.O. #																			
A.R.V.	Initials Date W.O. #																			
M.C.C.	Initials Date W.O. #																			
Pneumat Tank	Initials Date W.O. #																			
Propeller Meter	Initials Date W.O. #																			

Elk Grove Water District
Backflow Prevention Program 2016

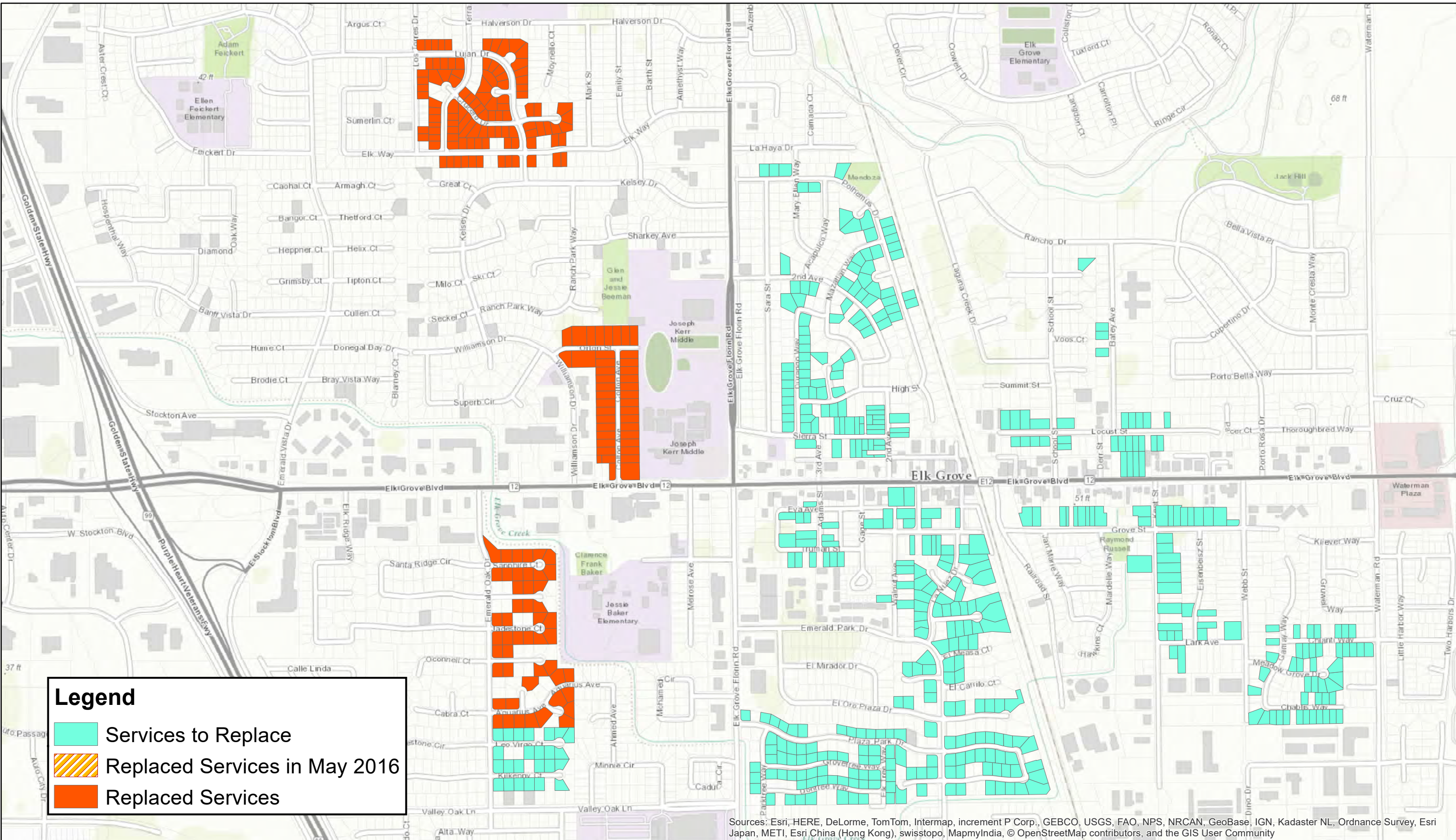
Backflow Device Reports												
CURRENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Notices Issued	21	38	74	12	58							
Pass:	12	38	61	11	50							
Fail:	0	0	4	1	0							
Failed Devices Retested----Passed			3	1								
Outstanding Results Due	9	0	10	0	8							

DELINQUENT												
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Investigations												
Deactivated Devices												
Sent:	9	0	9	0	8							
Received:	9	0	8	0	0							
Sent:			2									
Received:			2									
Schedule Code Changed												
Outstanding Delinquents	0	0	0	0	8							
Carryover from 2015	0											

Total Outstanding Delinquents	8
--------------------------------------	----------

Elk Grove Water District
 Safety Meetings/Training
 May-16

Date:	Topic:	Attendees:	Hosted By:
5/9/2016	Using Jackhammers Safely	Jose C, Jose M, John V, John D, Sean, Michael, Justin, Richard, Alan, Chris, Sal, Brandon, Steve, Aaron, Travis, Wilfredo, Marcel, David, William	Erick Watkins
	Avoid Back Injury by Lifting Correctly		
5/16/2016	Appendix D Respirator Program	Jose C, Jose M, John V, Sean, Justin, Richard, Alan, Chris, Brandon, Steve, David, William	Erick Watkins
5/23/2016	Heat Safety	Jose C, Jose M, John V, Sean, Michael, Justin, Richard, Alan, Chris, Brandon, Steve, David	Erick Watkins
5/26/2016	Safety Data Sheets	All Staff Required to Attend	Erick Watkins
5/31/2016	Temperature Extremes Can Be Deadly	Jose C, Jose M, John V, John D, Sean, Michael, Justin, Richard, Alan, Chris, Sal, Brandon, Steve, Aaron, Travis, Wilfredo, Marcel, David, William	Erick Watkins



Legend

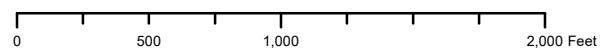
- Services to Replace
- Replaced Services in May 2016
- Replaced Services

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

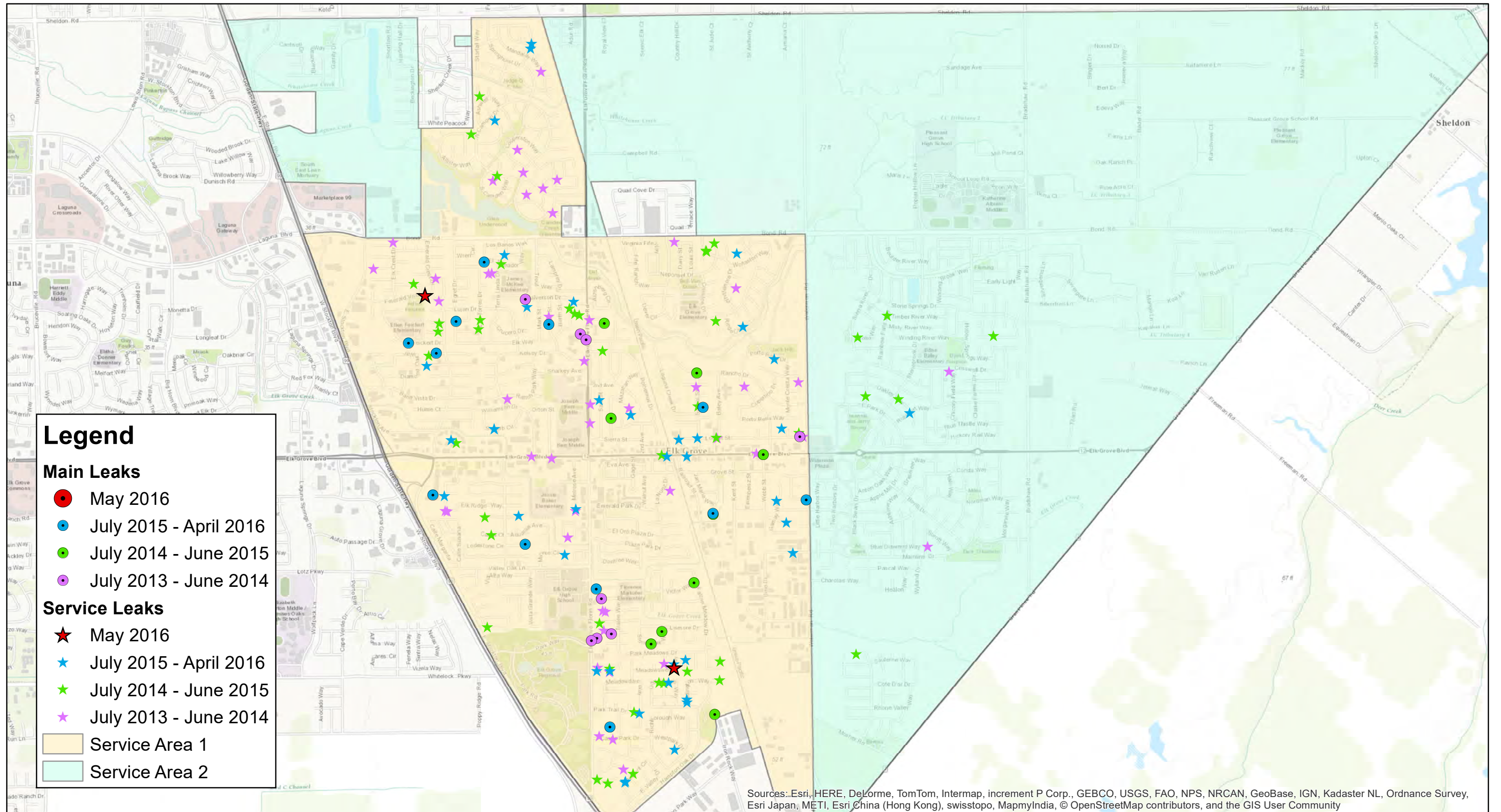
Services to Replace: 431
Services Replaced in May 2016: 0
Total Service Replaced: 191



Elk Grove Water District Service Line Replacement



Projected Coordinate System: NAD 83 State Plane, California II, FIPS 0420
Source: City of Elk Grove, EGWD and Sacramento County GIS databases
Created by: Travis Franklin
Date: June 9, 2016

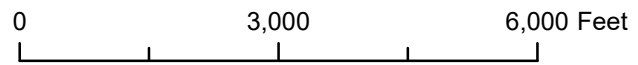


Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

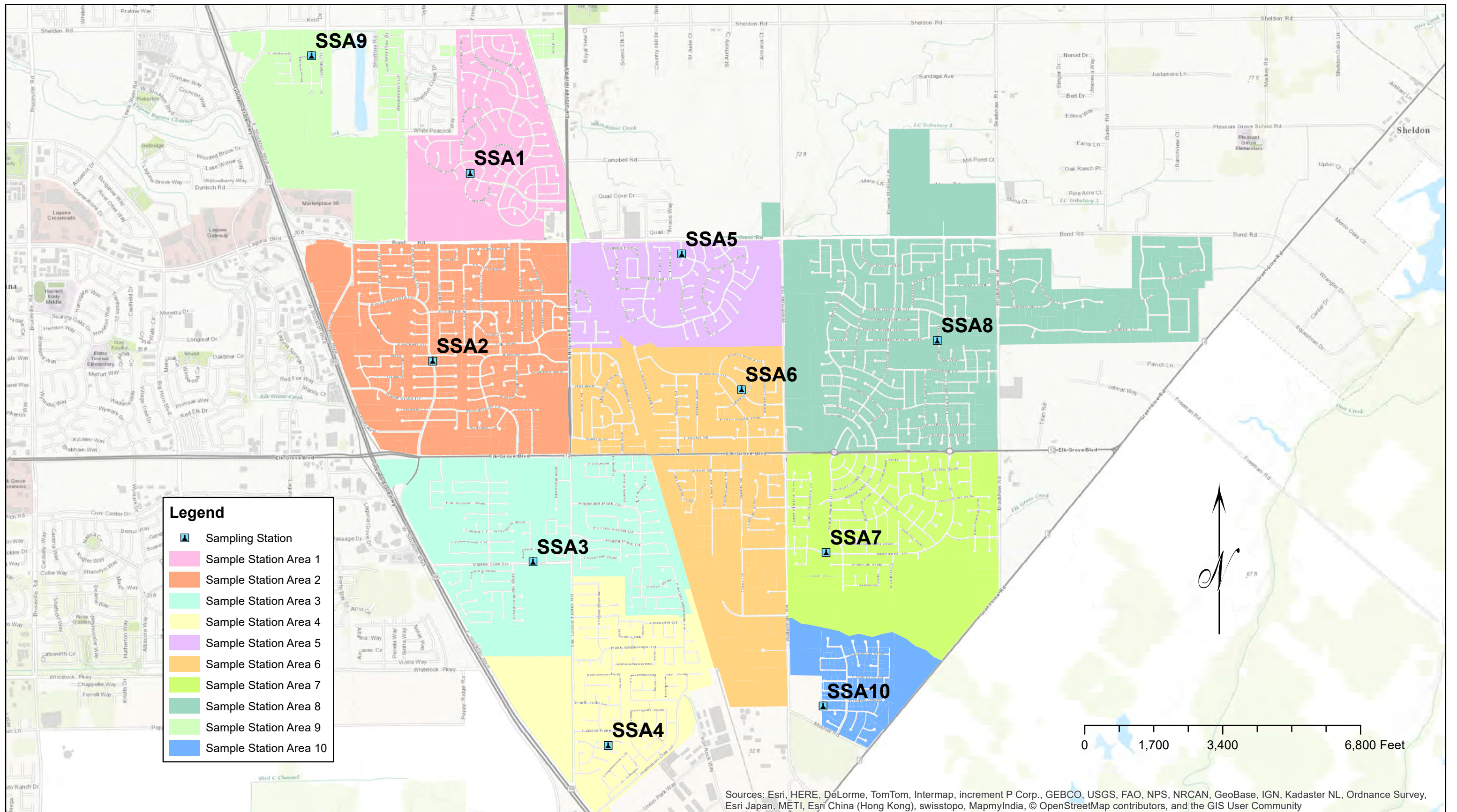
May 2016	
Main Line Leaks: 0	YTD: 12
Service Line Leaks: 2	YTD: 40
Total Leaks: 2	YTD: 52



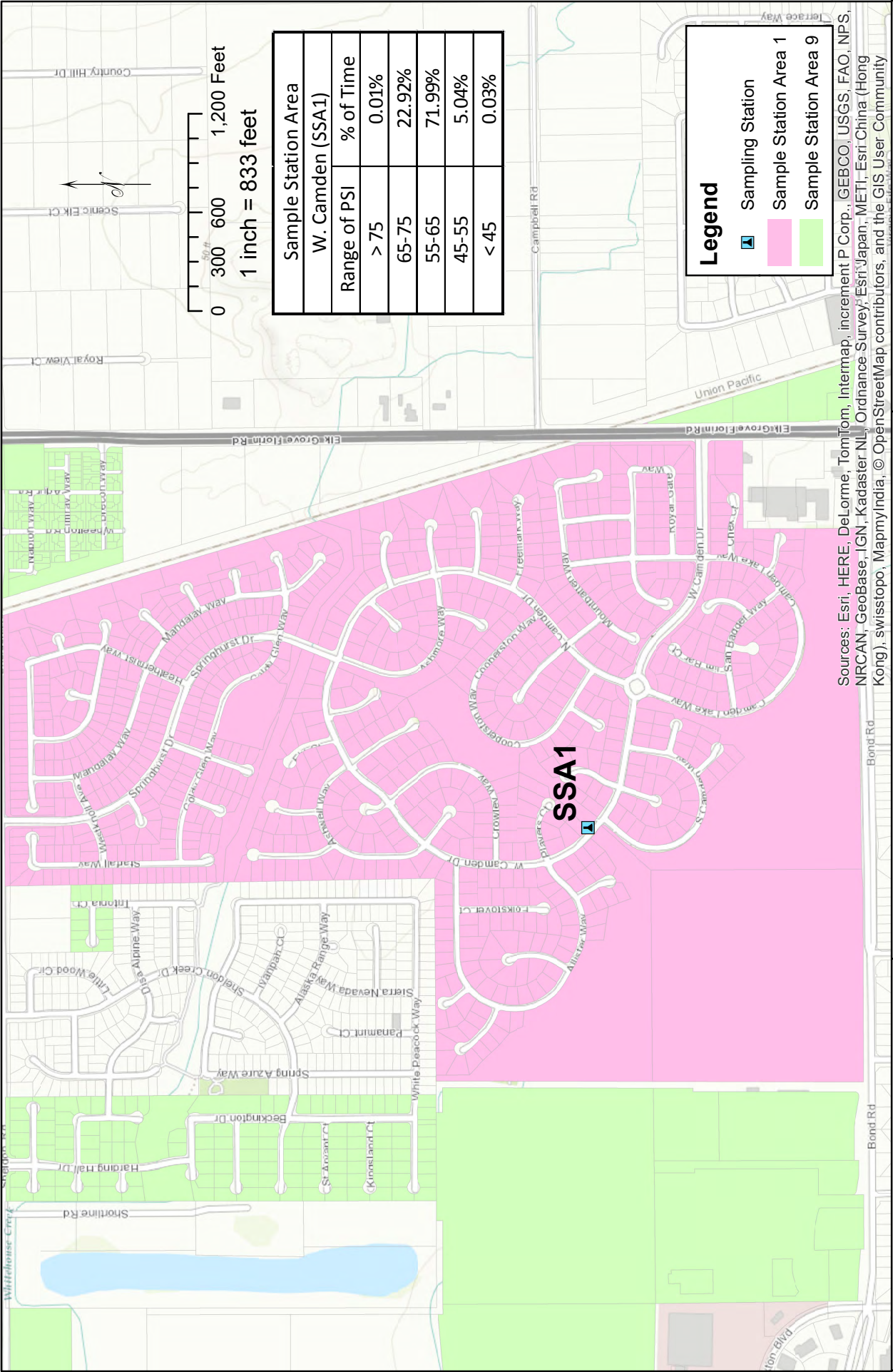
Elk Grove Water District Service and Main Leaks Map



Elk Grove Water District
Service / Main Leaks
Created by: Travis Franklin
Date: June 9, 2016



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



Sample Station Area	
W. Camden (SSA1)	
Range of PSI	% of Time
> 75	0.01%
65-75	22.92%
55-65	71.99%
45-55	5.04%
< 45	0.03%

Legend

- Sampling Station
- Sample Station Area 1
- Sample Station Area 9

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Sample Station #1

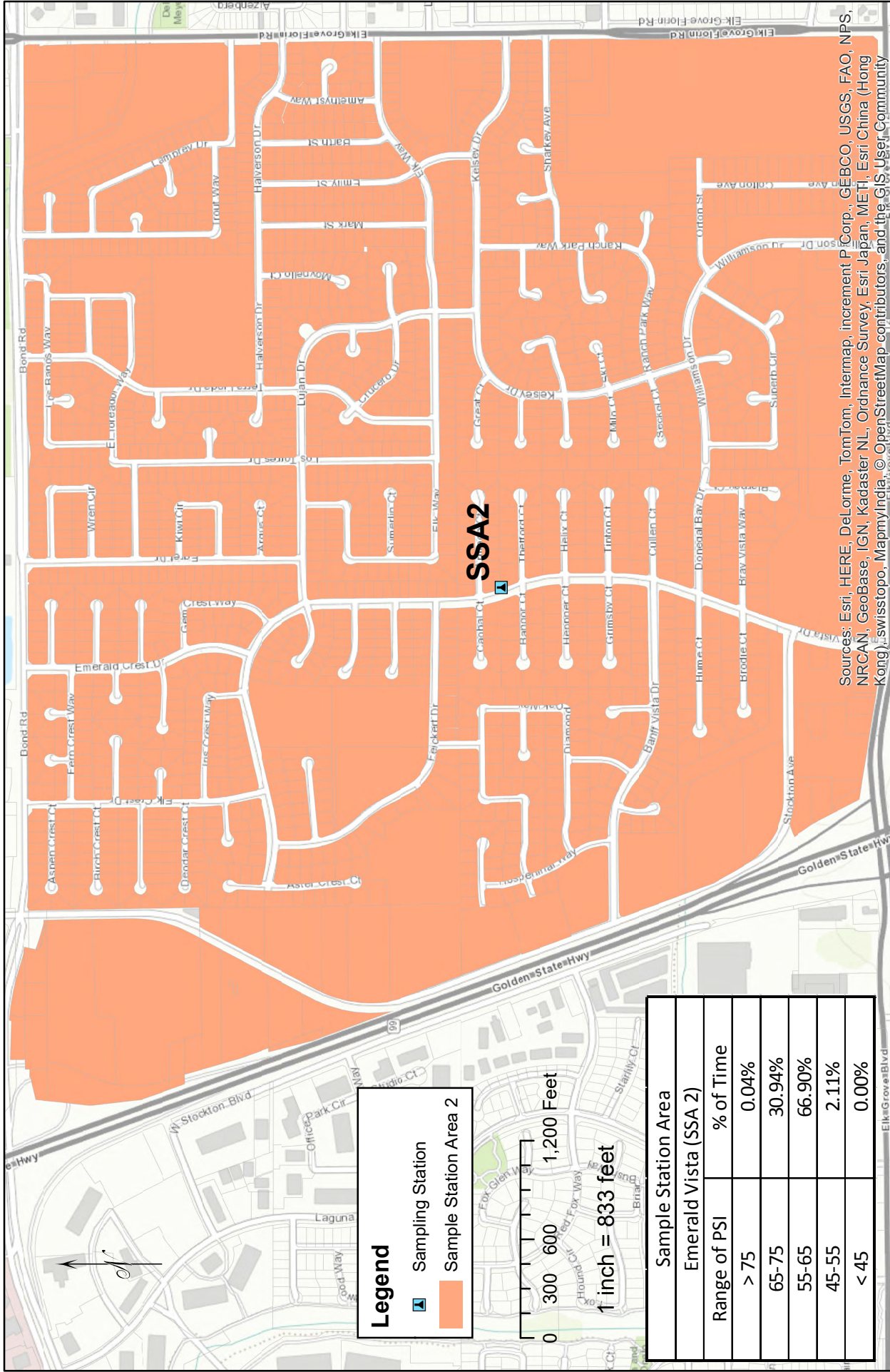
Note: Sample Station takes a reading every 5 minutes.

May 2016



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
 June 7, 2016



Legend

-  Sampling Station
-  Sample Station Area 2



Sample Station Area	Emerald Vista (SSA 2)
Range of PSI	% of Time
> 75	0.04%
65-75	30.94%
55-65	66.90%
45-55	2.11%
< 45	0.00%

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Elk Grove Water District

System Pressure Monitoring



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

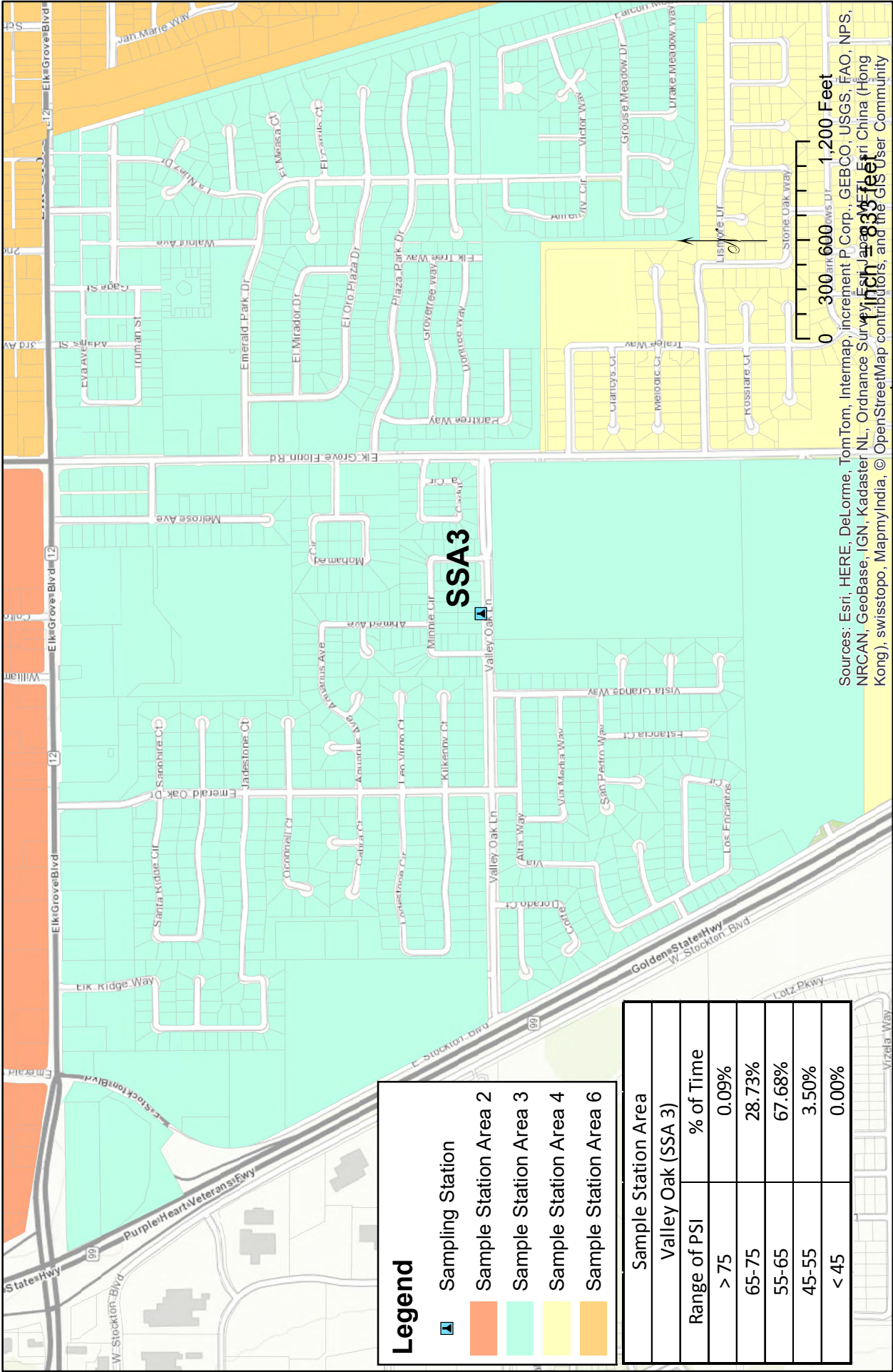
Source: EGWD GIS database

Created by: Travis Franklin
June 7, 2016

Sample Station #2

Note: Sample Station takes a reading every 5 minutes.

May 2016



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Legend

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

Sample Station Area	% of Time
Valley Oak (SSA 3)	
Range of PSI	
> 75	0.09%
65-75	28.73%
55-65	67.68%
45-55	3.50%
< 45	0.00%

Sample Station #3

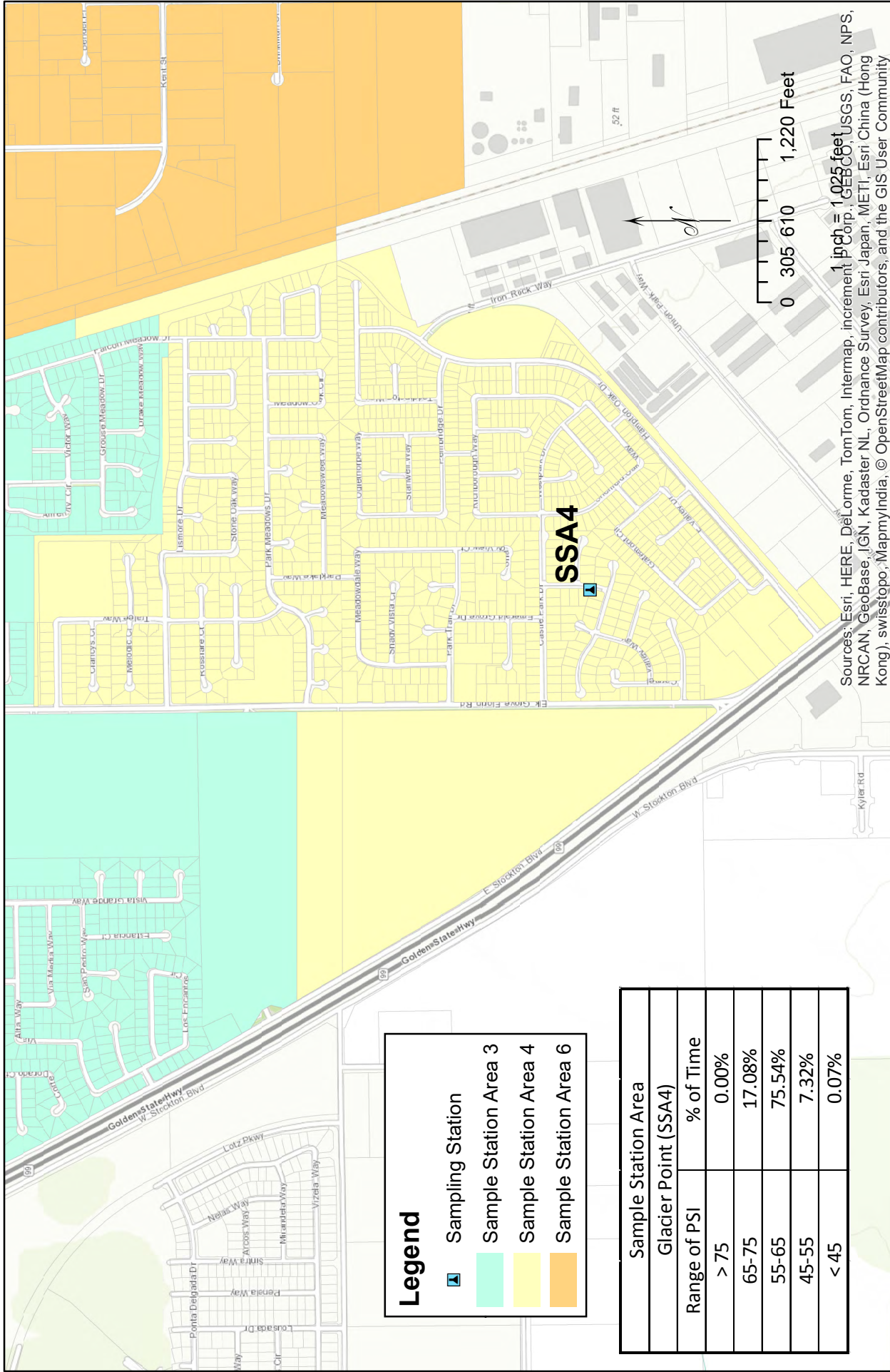
Note: Sample Station takes a reading every 5 minutes.

May 2016



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
June 7, 2016



1 inch = 1,025 feet
 Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Legend

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

Sample Station Area	Glacier Point (SSA4)	Range of PSI	% of Time
> 75	0.00%	65-75	17.08%
55-65	75.54%	45-55	7.32%
< 45	0.07%		



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
 June 7, 2016

Sample Station #4



Note: Sample Station takes a reading every 5 minutes.

May 2016



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, Aero, NRS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Legend

-  Sampling Station
-  Sample Station Area 5

Sample Station Area	
Amsden (SSA 5)	
Range of PSI	% of Time
> 75	0.15%
65-75	34.70%
55-65	62.82%
45-55	2.33%
< 45	0.00%



Elk Grove Water District

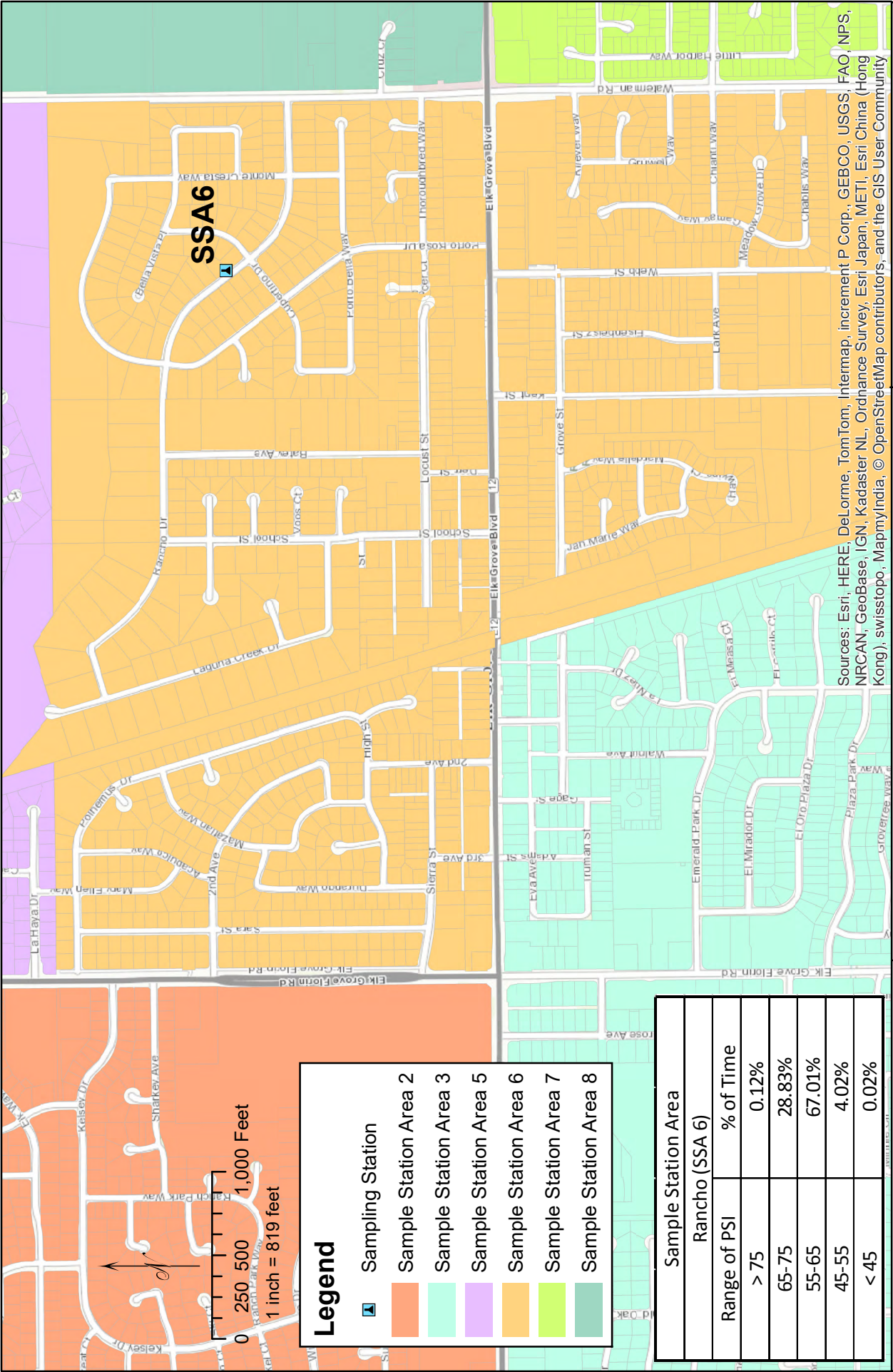
System Pressure Monitoring

Projected Coordinate System:
 NAD 83 State Plane CA II FIPS 0402
 Source: EGWD GIS database
 Created by: Travis Franklin
 June 7, 2016

Sample Station #5

Notes: Sample Station takes a reading every 5 minutes.

May 2016



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Legend	
	Sampling Station
	Sample Station Area 2
	Sample Station Area 3
	Sample Station Area 5
	Sample Station Area 6
	Sample Station Area 7
	Sample Station Area 8

Sample Station Area	Range of PSI	% of Time
Rancho (SSA 6)	> 75	0.12%
	65-75	28.83%
	55-65	67.01%
	45-55	4.02%
	< 45	0.02%

Sample Station #6

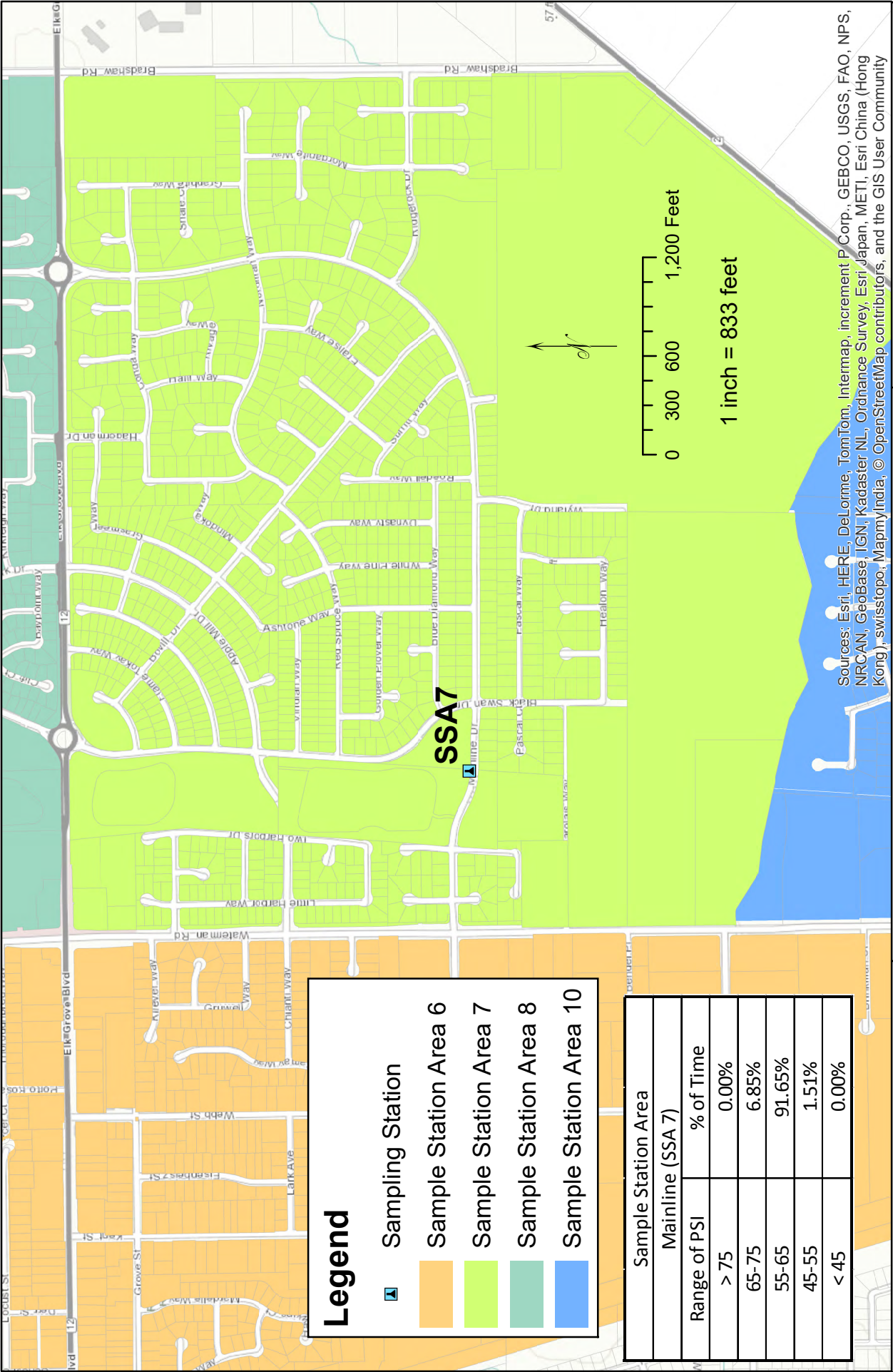
Note: Sample Station takes a reading every 5 minutes.

May 2016

Eik 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
June 7, 2016



Legend

- Sample Station Area 6
- Sample Station Area 7
- Sample Station Area 8
- Sample Station Area 10

Sample Station Area	Mainline (SSA 7)
Range of PSI	% of Time
> 75	0.00%
65-75	6.85%
55-65	91.65%
45-55	1.51%
< 45	0.00%

Sample Station #7

Note: Sample Station takes a reading every 5 minutes.

May 2016

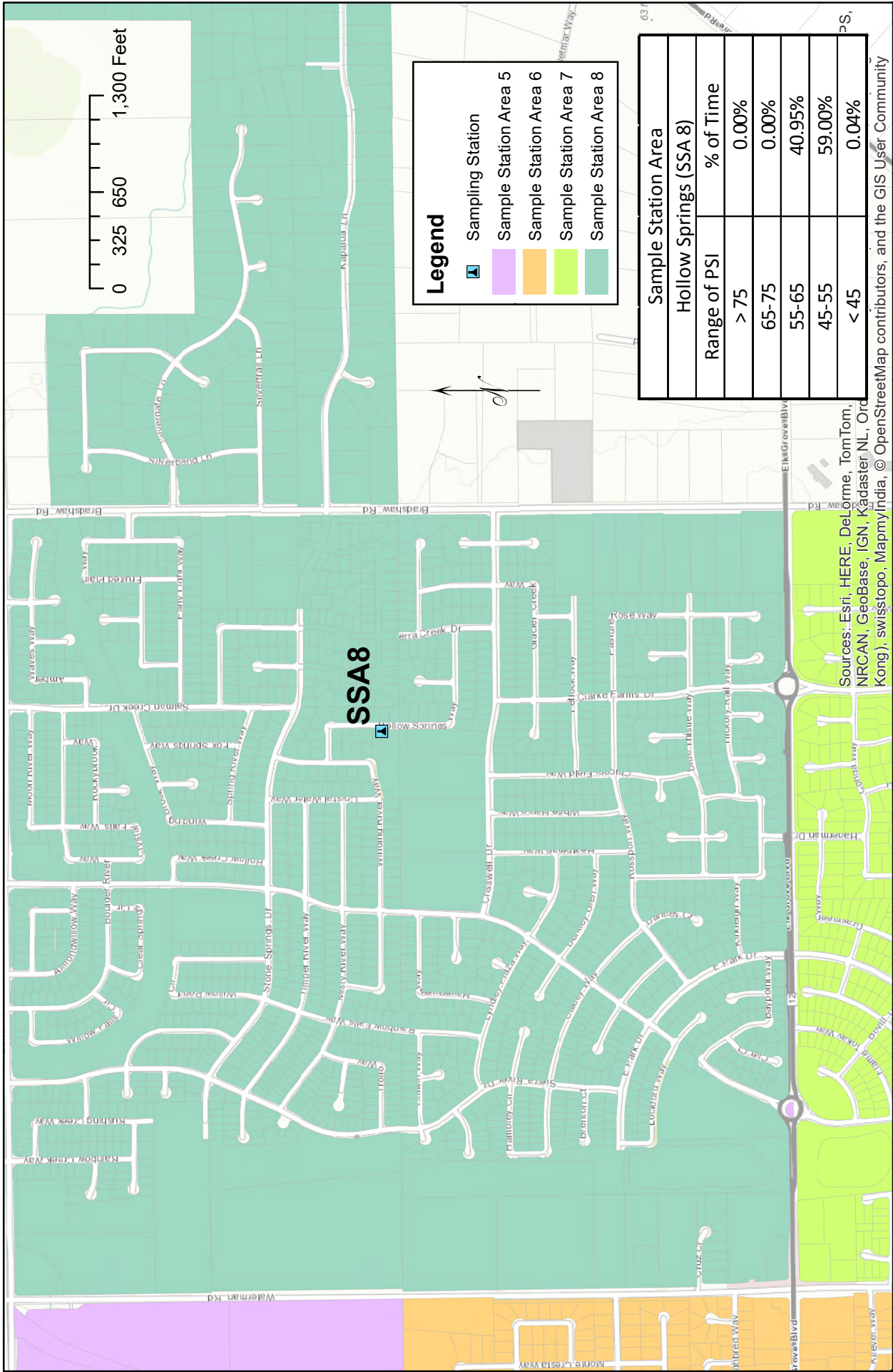
Elk Grove Water District

System Pressure Monitoring

Projected Coordinate System:
 NAD 83 State Plane CA II FIPS 0402
 Source: EGWD GIS database
 Created by: Travis Franklin
 June 7, 2016

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community





Legend

- Sampling Station
- Sample Station Area 5
- Sample Station Area 6
- Sample Station Area 7
- Sample Station Area 8

Sample Station Area	Range of PSI	% of Time
Hollow Springs (SSA 8)	> 75	0.00%
	65-75	0.00%
	55-65	40.95%
	45-55	59.00%
	< 45	0.04%

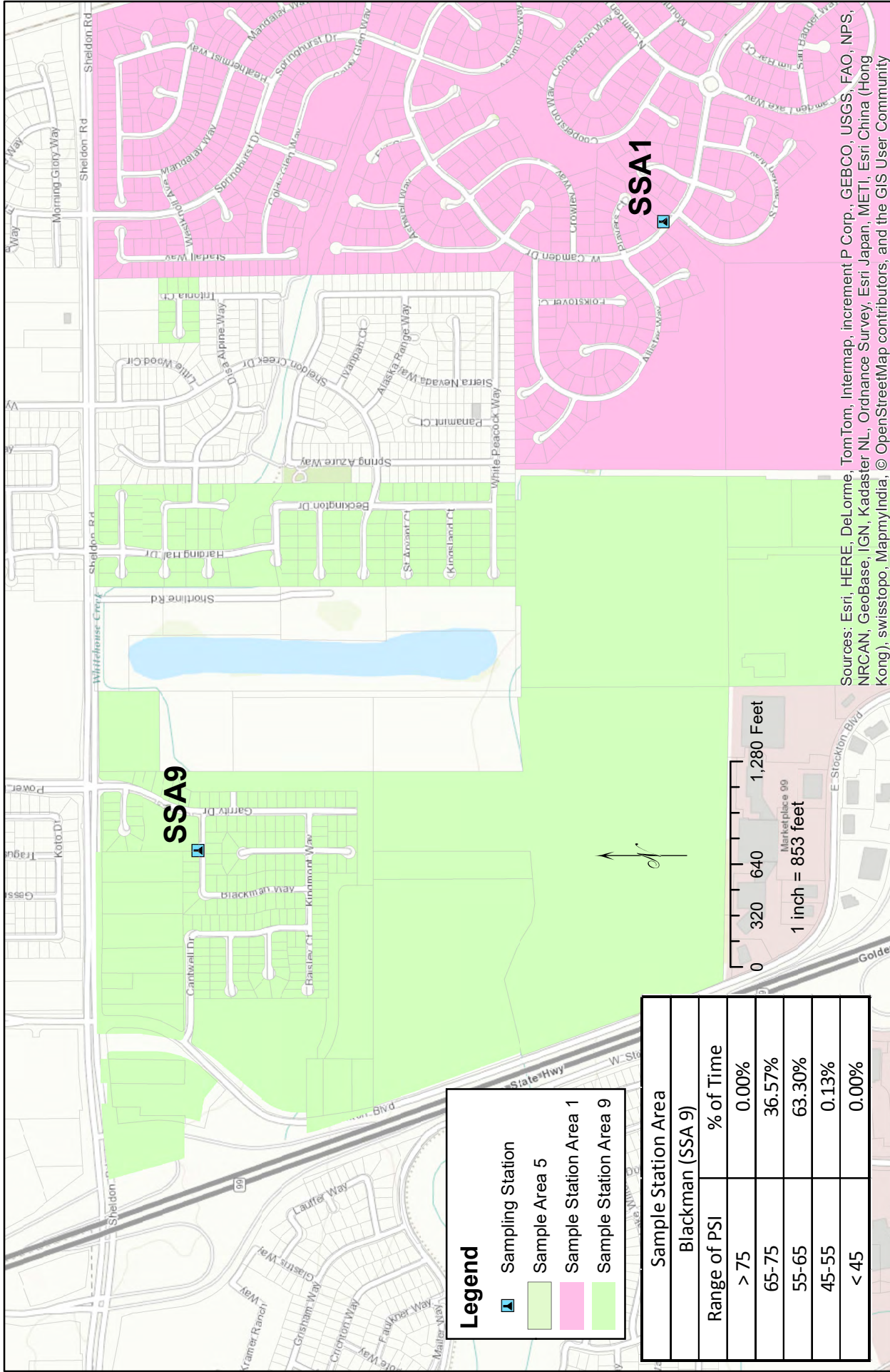
Projected Coordinate System:
 NAD 83 State Plane CA II FIPS 0402
 Source: EGWD GIS database
 Created by: Travis Franklin
 June 7, 2016

Elk Grove Water District
 System Pressure Monitoring



Sources: Esri, HERE, DeLorme, TomTom, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri, Swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Sample Station #8
 Note: Sample Station takes a reading every 5 minutes.
 May 2016



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Legend

- Sampling Station
- Sample Area 5
- Sample Station Area 1
- Sample Station Area 9

Sample Station Area	Blackman (SSA 9)	Range of PSI	% of Time
		> 75	0.00%
		65-75	36.57%
		55-65	63.30%
		45-55	0.13%
		< 45	0.00%

Sample Station #9

Note: Sample Station takes a reading every 5 minutes.

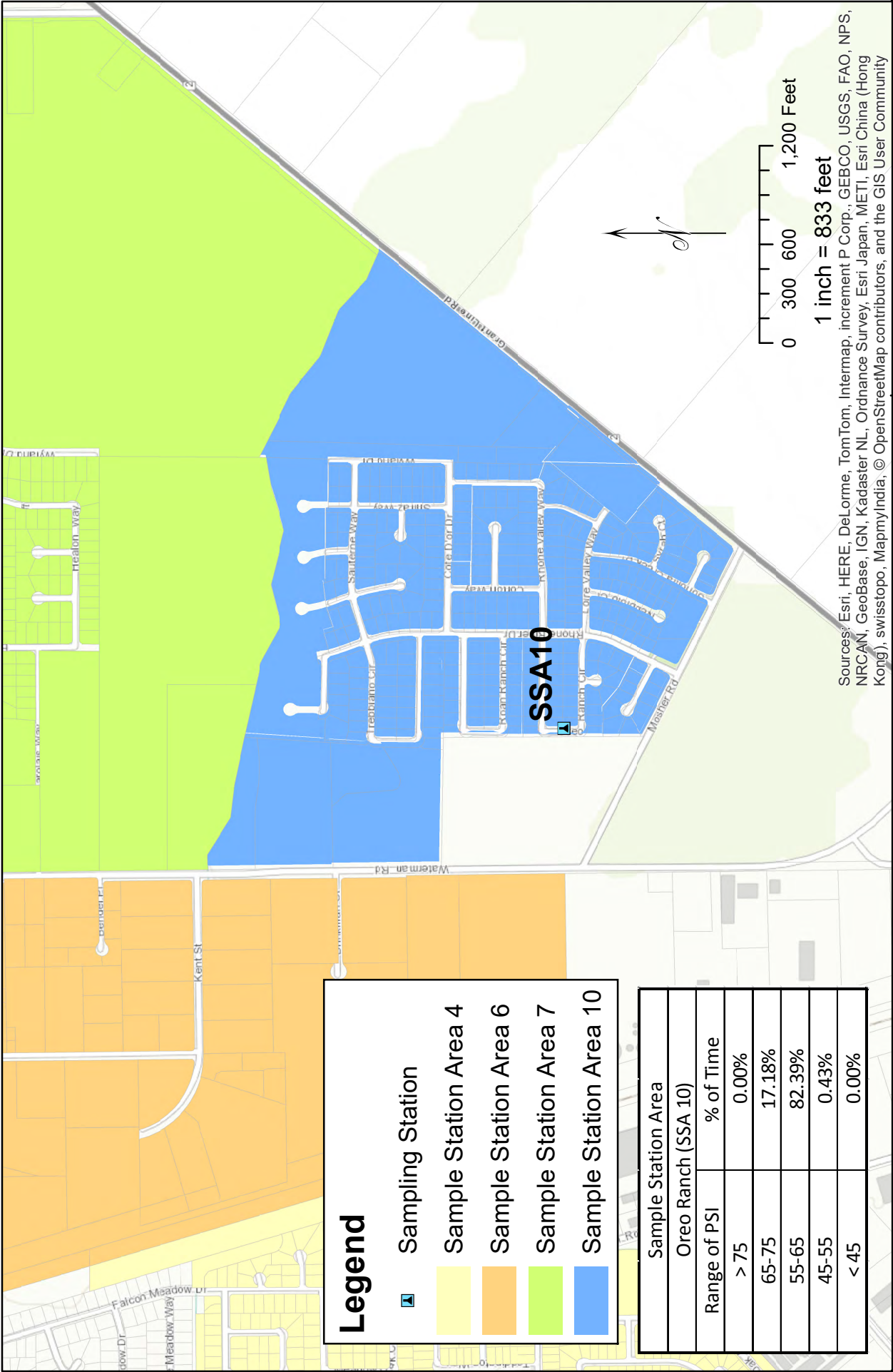
May 2016

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
 June 7, 2016




Legend

- Sampling Station
- Sample Station Area 4
- Sample Station Area 6
- Sample Station Area 7
- Sample Station Area 10

Sample Station Area	
Oreo Ranch (SSA 10)	
Range of PSI	% of Time
> 75	0.00%
65-75	17.18%
55-65	82.39%
45-55	0.43%
< 45	0.00%

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Projected Coordinate System:
 NAD 83 State Plane CA II FIPS 0402
 Source: EGWD GIS database
 Created by: Travis Franklin
 June 7, 2016



Elk Grove Water District
 System Pressure Monitoring

Sample Station #10

Note: Sample Station takes a reading every 5 minutes.

May 2016

June 22, 2016

TO: Chairman and Directors of the Florin Resource Conservation District
FROM: Mark J. Madison, General Manager
SUBJECT: **GENERAL MANAGER'S REPORT**

RECOMMENDATION

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

Summary

The Board requested a monthly summary of activities performed by the General Manager on behalf of the Florin Resource Conservation District (FRCD) and the Elk Grove Water District (EGWD). This report is provided in compliance with that request and no action is requested of the Board at this time.

DISCUSSION

Background

At the March 23, 2016 Board meeting, the Board requested the General Manager to include a General Manager's Report as part of the agenda for every regular FRCD Board meeting. More specifically, it was requested that this report include a listing of the General Manager's various activities involving the FRCD and the EGWD.

Present Situation

This report has been structured to inform the Board of those activities between the last Regular Board Meeting and the current Regular Board Meeting. It is designed to not repeat various updates included in other status reports presented in this agenda, although there may be activities listed where the General Manager was involved but not cited in the other status reports.

Since May 25, 2016, the notable General Manager's activities included the following:

GENERAL MANAGER'S REPORT

Page 2

Florin Resource Conservation District

- Expended significant efforts to explore the possibility of the FRCD in becoming a groundwater sustainability agency (GSA) for the FRCD jurisdictional area. Some of these efforts included:
 - Met with representatives of the Regional Water Authority and MWH Americas, Inc. to discuss efforts to develop a groundwater bank in the FRCD's jurisdictional area and other portions of the Sacramento region.
 - Attended the Sacramento Central Groundwater Authority (SCGA) Board meeting on June 8.
 - Coordinated the FRCD Special Board meeting on June 8 to discuss whether, or not, the FRCD should file to become a GSA
 - Met with certain public individuals who have expressed concerns about the FRCD becoming a GSA
- Prepared the June, 2016 Florin Resource Conservation Activities Staff Report.

Elk Grove Water District

- Developed a public outreach plan for the change in water use status and assisted in preparing an article for the Elk Grove Citizen inform EGWD's customers
- Developed a bill insert for the June water bills
- Completed and submitted an advertisement to the Elk Grove Citizen to be published in their annual Home & Garden section
- Completed the 2015 Consumer Confidence Report to be mailed to all EGWD customers by the end of June
- Executed to easements for the Railroad Corridor Water Pipeline project
- Fully executed the refinancing of approximately \$14 million in bonds with Capitol One
- Conducted one private meeting with a Board Member.
- Assisted Director Nelson in representing the FRCD/EGWD at the SCGA Board meeting on June 8.
- Coordinated and held a Special Board meeting on June 8
- Coordinated and held a Finance Committee meeting on June 8
- Developed and implemented a strategy to collect on numerous outstanding water usage citations

GENERAL MANAGER'S REPORT

Page 3

- Met with CPS Consultants to initiate the recruitment for a Program Manager
- Continued efforts to prepare the FY 2016-17 EGWD Operating and Capital Improvement Program (CIP) budgets, along with the FRCD Operating budget and a new rate a fee schedule
- Initiated efforts to retain a backflow prevention specialist to assist the EGWD in developing a new fire backflow program and associated ordinance
- Initiated efforts to evaluate the possibility for the EGWD to enjoin in the legislative subscription program offered by the RWA.

STRATEGIC PLAN CONFORMITY

This report directly conforms to the goals and objectives for both the Florin Resource Conservation District and the Elk Grove Water District as the General Manager is responsible for implementing the requirements of the Strategic Plan.

FINANCIAL SUMMARY

There is no direct financial impact associated with this report.

Respectfully submitted,



MARK J. MADISON
GENERAL MANAGER

June 22, 2016

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Jim Malberg, Finance Manager/Treasurer
Stefani Phillips, Board Secretary

SUBJECT: **FLORIN RESOURCE CONSERVATION DISTRICT/ELK GROVE WATER DISTRICT WORKERS COMPENSATION INSURANCE**

RECOMMENDATION

It is recommended that the Board adopt Resolution No. 06.22.16.01, of the Board of Directors of the Florin Resource Conservation District authorizing application to the Director of Industrial Relations, State of California for a Certificate of Consent to Self-Insure Workers' Compensation Liabilities.

Summary

It is required by the State of California that the Board of Directors of the Florin Resource Conservation District (FRCD) adopt a resolution authorizing the application to the Director of Industrial Relations, State of California for a Certificate of Consent to Self-Insure Workers' Compensation Liabilities (application is attached as "Exhibit A"). The Association of California Water Agencies Joint Powers Insurance Authority (ACWA/JPIA) requested the District to amend the application and resolution to reflect only the legal name (FRCD) as opposed to both the FRCD and Elk Grove Water District (EGWD).

DISCUSSION

Background

At the Board Meeting on May 25, 2016, staff presented the application for a public entity certificate to self-insure as well as the following required resolutions:

1. Resolution No. 05.25.16.02, of the Board of Directors of the Florin Resource Conservation District authorizing application to the Director of Industrial Relations, State of California for a Certificate of Consent to Self-Insure Workers' Compensation Liabilities.

This resolution is required by the State in order for the District to participate in the ACWA/JPIA Insurance Program pool of self-insured agencies.

**FLORIN RESOURCE CONSERVATION DISTRICT/ELK GROVE WATER DISTRICT
WORKERS COMPENSATION INSURANCE**

Page 2

2. Resolution No. 05.25.16.03 of the Board of Directors of the Florin Resource Conservation District consenting to enter the Joint Protection Programs of the Association of California Water Agencies/Joint Powers Insurance Authority.

This resolution is required by the ACWA/JPIA for the District to enter into the ACWA/JPIA Insurance Programs.

3. Resolution No. 05.25.16.04 of the Board of Directors of the Florin Resource Conservation District authorizing volunteer personnel workers' compensation insurance.

This resolution is also required by ACWA/JPIA in order for any volunteers performing work for the District to be covered by workers' compensation insurance.

The Board adopted all resolutions and authorized the application to the Director of Industrial Relations, State of California for a Certificate of Consent to Self-Insure Workers' Compensation Liabilities; however, Jim Malberg, Finance Manager explained that there was a possibility the Director of Industrial Relations could deny the application and resolution based on the usage of both organizations, the FRCD and EGWD, listed on the documents.

Present Situation

On June 9, 2016, the District received a request from ACWA/JPIA to resubmit the application to the Director of Industrial Relations, State of California for a Certificate of Consent to Self-Insure Workers' Compensation Liabilities and the resolution. The instructions indicated that the application and resolution must only show the legal name Florin Resource Conservation District and not the Elk Grove Water District. Staff has made the appropriate changes and is recommending the Board adopt Resolution No. 06.22.16.01 and authorize the application to the Director or Industrial Relations, State of California for a Certificate of Consent to Self-Insure Workers' Compensation Liabilities.

STRATEGIC PLAN CONFORMITY

The recommendation made in this staff report conforms to the FRCD/EGWD's 2012-2017 Strategic Plan. The Strategic Plan directs EGWD to achieve financial stability in order to operate in an efficient manner as to provide our ratepayers with a safe and reliable source of water for their current and future needs.

June 22, 2016

**FLORIN RESOURCE CONSERVATION DISTRICT/ELK GROVE WATER DISTRICT
WORKERS COMPENSATION INSURANCE**

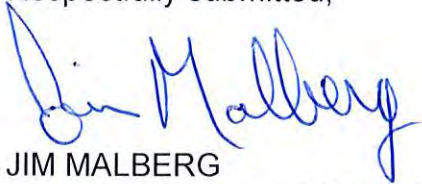
Page 3

FINANCIAL SUMMARY

All insurance premium amounts are included each year in the annual operating budget and presented to the Board for approval. Total estimated premiums in FY 2016-17 are as follows:

	ACWA/JPIA
General Liability	\$ 57,446
Property	22,454
Workers Compensation	112,612
Total	\$ 192,512

Respectfully submitted,



JIM MALBERG
FINANCE MANAGER/TREASURER



STEFANI PHILLIPS
BOARD SECRETARY

Attachments

RESOLUTION NO. 06.22.16.01

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE FLORIN RESOURCE CONSERVATION DISTRICT
AUTHORIZING APPLICATION TO THE DIRECTOR OF INDUSTRIAL
RELATIONS, STATE OF CALIFORNIA FOR A CERTIFICATE OF
CONSENT TO SELF INSURE WORKERS' COMPENSATION LIABILITIES**

WHEREAS, at the meeting of the Board of Directors of the Florin Resource Conservation District, a Special District, organized and existing under the laws of the State of California, held on the 22nd day of June, 2016, the following resolution was adopted:

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Florin Resource Conservation District:

That the General Manager is hereby severally authorized and empowered to make application to the Director of Industrial Relations, State of California, for a Certificate of Consent to Self Insure workers' compensation liabilities on behalf of the Florin Resource Conservation District and to execute any and all documents required for such application; and

I Stefani Phillips, the undersigned Secretary of the Board of said Florin Resource Conservation District, a Special District, that the foregoing is a full, true and correct copy of the resolution duly passed by the Board at the meeting of said Board on the day and at the place herein specified and that said resolution has never been revoked, rescinded, or set aside and is now in full force and effect.

PASSED, APPROVED, AND ADOPTED this _____ day of _____, 20____ by the following vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

IN WITNESS WHEREOF: I HAVE SIGNED MY NAME AND AFFIXED THE SEAL OF THIS
FLORIN RESOURCE CONSERVATION DISTRICT

THIS _____ DAY OF _____.

Stefani Phillips
Secretary of the Board of Directors

EXHIBIT "A"

"APPLICATION FOR A PUBLIC ENTITY CERTIFICATE OF CONSENT TO SELF INSURE."

[Attached behind this cover page]



Our File: _____

APPLICATION FOR A PUBLIC ENTITY CERTIFICATE OF CONSENT TO SELF INSURE

NOTE: All questions must be answered. If not applicable, enter "N/A".
Workers' compensation insurance must be maintained until certificate is effective.

APPLICANT INFORMATION

Legal Name of Applicant (show exactly as on Charter or other official documents):

Florin Resource Conservation District

Street Address of Main Headquarters:

9257 Elk Grove Blvd.

Mailing Address (if different from above):

Federal Tax ID No.:

68-0409700

City, State, Zip Code

Elk Grove, CA, 95624

TO WHOM DO YOU WANT CORRESPONDENCE REGARDING THIS APPLICATION ADDRESSED?

Name: Jim Malberg

Title: Finance Manager / Treasurer

Company Name: Florin Resource Conservation District / Elk Grove Water District

Mailing Address: 9257 Elk Grove Blvd.

City: Elk Grove

State: CA

Zip + 4: 95624

Telephone Number: (916) 685-3556

Email: jmalberg@egwd.org

Type of Public Entity (check one):

City and/or County School District Police and/or Fire District Hospital District Joint Powers Authority

Other (describe): Special District

Type of Application (check one):

New Application Reapplication due to Merger or Unification Reapplication due to Name Change

Other (describe) _____

Date Self Insurance Program will begin: July 1, 2016

CURRENT PROGRAM FOR WORKERS' COMPENSATION LIABILITIES

- Currently Insured with State Compensation Insurance Fund, Policy Number:
 Policy Expiration Date: _____ Yearly Premium: \$ _____
 Current Yearly Incurred (paid & unpaid) Losses: \$ _____ (FY or CY)
- Currently Self Insured, Certificate Number: _____
 Name of Current Certificate Holder: _____
- Other (describe): Special District Risk Management Authority (SDRMA)

JOINT POWERS AUTHORITY

Will the applicant be a member of a workers' compensation Joint Powers Authority for the purpose of pooling workers' compensation liabilities?

- Yes No If yes, then complete the following:

Effective date of JPA Membership: _____ JPA Certificate No.: 5807

Name and Title of JPA Executive Officer:
Andy Sells, Chief Executive Officer

Name of Joint Powers Authority Agency:
Association of California Water Agencies/Joint Powers Insurance Authority

Mailing Address of JPA:
2100 Professional Drive

City: _____ State: _____ Zip + 4: _____
Roseville, CA 95661

Telephone Number: 916-786-5742

PROPOSED CLAIMS ADMINISTRATOR

Who will be administering your agency's workers' compensation claims? (check one)

- JPA will administer, JPA Certificate No.: 5807
- Third party agency will administer, TPA Certificate No.: _____
- Public entity will self administer Insurance carrier will self administer

Name of Individual Claims Administrator:
Melody Tucker

Name of Administrative Agency:
Association of California Water Agencies/Joint Powers Insurance Authority

Mailing Address:
2100 Professional Drive

City: _____ State: _____ Zip + 4: _____
Roseville, CA 92661

Telephone Number: 916-786-5742 FAX Number: 916-786-0209

Number of claims reporting locations to be used to handle the agency's claims: 1

Will all agency claims be handled by the administrator listed on previous page? Yes No

AGENCY EMPLOYMENT

Current Number of Agency Employees: 31

Number of Public Safety Officers (law enforcement, police or fire): 0

If a school district, number of certificated employees: N/A

Will all agency employees be included in this self insurance program? Yes No

If no, explain who is not included and how workers' compensation coverage is to be provided to the excluded agency employees:

INJURY AND ILLNESS PREVENTION PROGRAM

Does the agency have a written Injury and Illness Prevention Program? Yes No

Individual responsible for agency Injury and Illness Prevention Program:

Name and Title:

Mark J. Madison, General Manager

Company or Agency Name:

Florin Resource Conservation District / Elk Grove Water District

Mailing Address:

9257 Elk Grove Blvd.

City:

Elk Grove

State:

CA

Zip + 4:

95624

Telephone Number: (916) 685-3556

SUPPLEMENTAL COVERAGE

Will your self insurance program be supplemented by any insurance or pooled coverage under a standard workers' compensation insurance policy? Yes No

If yes, then complete the following:

Name of Carrier or Excess Pool: _____

Policy Number: _____

Effective Date of Coverage: _____

Will your self insurance program be supplemented by any insurance or pooled coverage under a specific excess workers' compensation insurance policy? Yes No

If yes, then complete the following:

Name of Carrier or Excess Pool: _____

Policy Number: _____

Effective Date of Coverage: _____

Retention Limits: _____

Will your self insurance program be supplemented by any insurance or pooled coverage under an aggregate excess (stop loss) workers' compensation insurance policy? Yes No

If yes, then complete the following:

Name of Carrier or Excess Pool: _____

Policy Number: _____

Effective Date of Coverage: _____

Retention Limits: _____

RESOLUTION OF GOVERNING BOARD

See Attached Resolution-Page 5

CERTIFICATION

The undersigned on behalf of the applicant hereby applies for a Certificate of Consent to Self Insure the payment of workers' compensation liabilities pursuant to Labor Code Section 3700. The above information is submitted for the purpose of procuring said Certificate from the Director of Industrial Relations, State of California. If the Certificate is issued, the applicant agrees to comply with applicable California statutes and regulations pertaining to the payment of compensation that may become due to the applicant's employees covered by the Certificate.

Signature of Authorized Official:

Date:

Typed Name:

Mark J. Madison

Title:

General Manager

Agency Name:

Florin Resource Conservation District

Seal

(Emboss seal above or Notarize signature)

RESOLUTION NO.: _____ DATED: _____

A RESOLUTION AUTHORIZING APPLICATION
TO THE DIRECTOR OF INDUSTRIAL RELATIONS, STATE OF CALIFORNIA
FOR A CERTIFICATE OF CONSENT TO SELF INSURE
WORKERS' COMPENSATION LIABILITIES

At a meeting of the Board of _____ Directors
(enter title)

of the Florin Resource Conservation District
(enter name of public agency, district)

a _____ Special District
(enter type of agency) organized and existing under the laws of

the State of California, held on the _____ 25th day of May, 2016, the

following resolution was adopted:

RESOLVED, that the _____ General Manager
(enter position titles)

be and they are hereby severally authorized and empowered to make application to the Director of Industrial Relations, State of California, for a Certificate of Consent to Self Insure workers' compensation liabilities on behalf of the

Florin Resource Conservation District
(enter name of district)

and to execute any and all documents required for such application.

I, Stefani Phillips _____, the undersigned _____ Secretary
(enter name) (enter title)

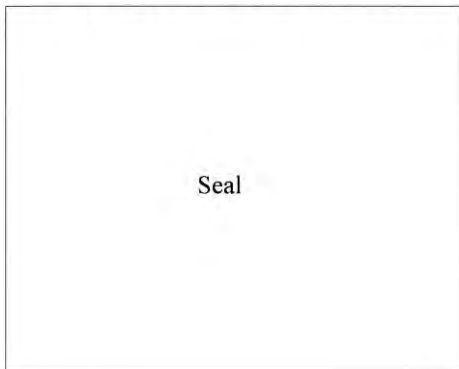
of the Board of the said _____ Florin Resource Conservation District
(enter name of agency)

a _____ Special District _____, hereby certify that I am the _____ Secretary
(enter type of agency) (enter title)

of said _____ Special District _____, that the foregoing is a full, true and correct copy of the resolution duly
(enter type of agency)

passed by the Board at the meeting of said Board held on the day and at the place herein specified and that said resolution has never been revoked, rescinded, or set aside and is now in full force and effect.

IN WITNESS WHEREOF: I HAVE SIGNED MY NAME AND AFFIXED THE SEAL OF THIS



(enter type of agency)
THIS _____ DAY OF _____, _____

(Signature)

June 22, 2016

TO: Chairman and Directors of the Florin Resource Conservation District
FROM: Bruce M. Kamilos, Assistant General Manager
SUBJECT: **PUBLIC HEARING - 2015 URBAN WATER MANAGEMENT PLAN**

RECOMMENDATION

It is recommended that the Board of Directors of the Florin Resource Conservation District approve Resolution 06.22.16.02 adopting the 2015 Urban Water Management Plan subject to the receipt and consideration of comments during the public hearing on this matter.

Summary

Every five years, water agencies are required by the Urban Water Management Planning Act to prepare an Urban Water Management Plan (UWMP). In 2011, the Elk Grove Water District (EGWD) completed its most recent UWMP, entitled the Elk Grove Water District 2010 Urban Water Management Plan. By July 1, 2016, the EGWD must submit an updated UWMP to the State.

Staff has completed the update of the UWMP and attached for the Florin Resource Conservation District Board of Directors' approval, subject to the comments received and considered during the public hearing, is the 2015 Urban Water Management Plan (2015 UWMP). If approved, staff will submit the 2015 UWMP to the California Department of Water Resources in compliance with State law.

DISCUSSION

Background

On January 12, 2016, EGWD contracted with Tully & Young to update the UWMP. Tully and Young prepared a draft 2015 UWMP and presented it to the Board on May 25, 2016, for the Board's review and comments.

The UWMP requires that urban water suppliers report on their water supply's capacity to meet demand projected through year 2045. The 2015 UWMP analyzes demand forecasts with supply reliability and provides a resource for water asset and

PUBLIC HEARING - 2015 URBAN WATER MANAGEMENT PLAN

Page 2

infrastructure planning. The 2015 UWMP also updates the urban water supplier's progress toward achieving state-mandated 2020 water conservation targets.

Present Situation

The 2015 UWMP is attached for the Board's review. The accompany appendices to the 2015 UWMP is voluminous, totaling 259 pages, and therefore has not been included as an attachment. The 2015 UWMP Appendices are available for viewing on EGWD's website.

The major findings and conclusions of the 2015 UWMP are:

- EGWD's water supplies are sufficient to meet forecasted water demand through 2045. (2045 demand is only 5% greater than current demand, 8,200 acre-feet/year vs. 7,800 acre-feet/year)
- The state-mandated 2020 water consumption target for EGWD's customer base will likely be achieved.

The 2015 UWMP shows that EGWD is meeting its state-mandated conservation objectives. Furthermore, the 2015 UWMP supports EGWD's work to maintain and improve its water supply assets through its ongoing capital improvement program.

On June 8, 2016, a draft of the 2015 UWMP was made available for public viewing at the EGWD Administration Building and on EGWD's website. On June 8 and June 15, 2016, public notices were published in the Elk Grove Citizen newspaper advertising that a public hearing would be conducted at the June 22, 2016 Florin Resource Conservation District board meeting to receive public comments on the 2015 UWMP.

Staff recommends that the Florin Resource Conservation District Board of Director's approve Resolution 06.22.16.02 adopting the 2015 Urban Water Management Plan, subject to the receipt and consideration of comments during the public hearing on this matter.

STRATEGIC PLAN CONFORMITY

The FRCD/EGWD Strategic Plan identifies that UWMPs must be completed in order to be eligible for DWR grants. Updating the UWMP conforms to the strategic plan.

FINANCIAL SUMMARY

There is no financial impact associated with this item.

June 22, 2016

PUBLIC HEARING - 2015 URBAN WATER MANAGEMENT PLAN

Page 3

Respectfully submitted,



BRUCE M. KAMILOS
ASSISTANT GENERAL MANAGER

Attachment

RESOLUTION No. 06.22.16.02

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE FLORIN RESOURCE CONSERVATION DISTRICT
ADOPTING THE
2015 URBAN WATER MANAGEMENT PLAN**

WHEREAS, the Urban Water Management Planning Act requires that each water supplier update its plan at least once every five years on or before December 31, in years ending in five and zero; and

WHEREAS, California Water Code section 10621 has extended the 2015 deadline to July 1, 2016; and

WHEREAS, all water suppliers are required to complete and update an Urban Water Management Plan in order to be eligible for financial assistance administered by the Department of Water Resources; and

WHEREAS, the Florin Resource Conservation District (hereafter, "District") has prepared a thorough and complete update to the Urban Water Management Plan to serve the District as a long-range planning document for water supply; and

WHEREAS, the District's Urban Water Management Plan provides a source of information for Water Supply Assessments, Water Code Section 10613 et seq., and Written Verifications of Water Supply, Water Code Section 66473.7, where both statutes require detailed information regarding water availability to be provided to the City of Elk Grove or County of Sacramento decision makers prior to approval of specified large development projects; and

WHEREAS, the District has updated its Urban Water Management Plan

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

Section 1. The 2015 Urban Water Management Plan is hereby adopted and ordered filed with the Secretary.

Section 2. The District's General Manager is hereby authorized and directed to file the 2015 Urban Water Management Plan with the State of California, Department of Water Resources by July 1, 2016, in accordance with the Urban Water Management Planning Act.

Section 3. The District's General Manager is hereby authorized and directed to implement the 2015 Urban Water Management Plan.

APPROVED AND ADOPTED this 22th day of June, 2016.

AYES:

NOES:

ABSENT:

ABSTAIN:

Chuck Dawson
Chairman of the Board of Directors

ATTEST:

Stefani Phillips
Secretary to the Board of Directors

APPROVED AS TO FORM:

Best Best & Krieger LLP
General Counsel

EXHIBIT "A"

"ELK GROVE WATER DISTRICT 2015 URBAN WATER MANAGEMENT PLAN."

(APPENDICES NOT INCLUDED BUT ARE AVAILABLE ON EGWD'S WEBSITE)

[Attached behind this cover page]

Elk Grove Water District



A DEPARTMENT OF THE
Florin Resource Conservation District



2015 URBAN WATER MANAGEMENT PLAN

Public Draft: June 22, 2016



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**Elk Grove Water District
2015 Urban Water
Management Plan**

Public Draft
June 8, 2016

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This Elk Grove Water District 2015 Urban Water Management Plan was prepared under the direction of a California licensed civil engineer.



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APPENDICES

Appendix A

This appendix section shall contain all compliance and reporting related documents

Appendix A-1	DWR Recommended Tables
Appendix A-2	DWR Checklist
Appendix A-3	SBX7-7 Compliance Form
Appendix A-4	AWWA Water Audit Form

Appendix B

This appendix section shall contain all agency related documents

Appendix B-1	Resolution Adopting the 2015 UWMP
Appendix B-2	Copies of General Notice Publications
Appendix B-3	Copies of Notification Letters

Appendix C

This appendix section shall contain supply related documents

Appendix C-1:	Sacramento County Water Agency Contract
Appendix C-2:	Central Sacramento County Groundwater Management Plan
Appendix C-3:	Central Sacramento County Groundwater Authority Hydrograph Update

Appendix D

This appendix section shall contain conservation related documents

Appendix D

Appendix D-1:	CUWCC Report
Appendix D-2:	Water Shortage Contingency Plan

CHAPTER 1. INTRODUCTION

The Elk Grove Water District (District) has been a water purveyor in the southern part of Sacramento County for over 115 years, and previously went by the names Elk Grove Water Service and Elk Grove Water Works. The District is a department of the Florin Resource Conservation District (FRCD), which purchased the water system in 1999.

The District services its customers in two service areas with Service Area 1 being served by pumped groundwater and Service Area 2 served by treated water purchased from the Sacramento County Water Agency (SCWA). SCWA delivers to the District both surface water and groundwater that is derived from its conjunctive use operations. The District service area covers approximately 13 square miles and is bounded by Sheldon Road to the north, Highway 99 to the west, Grant Line Road to the east, and the Union Industrial Park to the south.

Serving a population of over 42,000, the District has a broad range of responsibilities, including long-term water reliability planning, management of current groundwater assets, and distribution of potable water. The District's services are coordinated and managed within FRCD.

The District, originally created in 1893 to provide local water services and fire protection water resources, has continued to be a predominant water purveyor within the City of Elk Grove. FRCD was formed in 1953 and purchased Elk Grove Water works (the predecessor to the District) in 1999 to serve urban populations with water.

The District has prepared this 2015 Urban Water Management Plan (2015 UWMP) to comply with the Urban Water Management Planning Act (UWMPA) requirements for urban water suppliers.

This 2015 UWMP addresses the District's water management planning efforts to assure adequate water supplies to meet forecast demands over the next 25 years.

Note to DWR

The Elk Grove Water District has written this UWMP primarily as a water resources planning tool and secondarily to satisfy the requirements of the UWMPA.

The body of the document provides narratives and discusses data that DWR requests in its 2015 UWMP Guidebook, including changes to the California Water Code since 2010.

To facilitate review by DWR for compliance with the UWMPA, data from the body of the document has been transferred into DWR Tables consistent with the organization of the tables in Section E of the 2015 UWMP Guidebook Appendices. These tables are in **Appendix A-1**.

Also, this UWMP has been reviewed for adequacy according to the UWMP Checklist as contained in Section F in the 2015 UWMP Guidebook. A completed checklist is included in **Appendix A-2**.

As required by the UWMPA, the District’s 2015 UWMP specifically assesses the availability of its supplies to meet forecast demands during average, single-dry and multiple dry years through 2045. Verification that future demands will not exceed supplies and assuring the availability of supplies in dry-year conditions are critical outcomes of this 2015 UWMP.

The 2015 UWMP is an update to the District’s 2010 UWMP and presents new data and analysis as required by the California Department of Water Resources (DWR) and the California Water Code (CWC) since 2010. It is also a comprehensive water planning document which describes existing and future supply reliability, forecasts future demands, presents demand management progress, and identifies local and regional cooperative efforts to meet projected water use.

The current four-year drought has emphasized the importance of planning ahead to meet water demands with potentially at-risk water supplies. Such forward planning is an important outcome of the 2015 UWMP, which also addresses the evolving impact of drought on the District’s water supply and operations.

1.1 Urban Water Management Planning Act

The Urban Water Management Planning Act (UWMPA) requires every urban water supplier to prepare an urban water management plan pursuant to CWC Section 10610 et seq.¹ Because the District is an urban water supplier, it is preparing its 2015 UWMP consistent with the UWMPA. The 2015 UWMP provides a framework for water planning to minimize the negative effects of potential water shortages, and provides useful information to the public about the District and its water management programs.

Specifically, the 2015 UWMP describes and evaluates the reliability of the District’s existing and planned water supplies to meet short-term and long-term customer water demands; especially the availability and sufficiency of surface and recycled water assets, and the vulnerability of these supplies to seasonal and climactic conditions.

The 2015 UWMP also revisits baseline per-capita water use data and target conservation values, first developed and presented in the 2010 UWMP as required by CWC §10608 et seq., and assesses compliance with those targets. This 2015 UWMP also includes narratives describing water demand management measures,² its long-term plan for efficient water use, and estimated future water savings based on water use projections, where available. Also included are discussions regarding distribution system water loss, information on the potential use of recycled water as a water source for the District, and

¹ An “urban water supplier” is a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.” CWC § 10617.

² As detailed in the CWC § 10631 (f)(1) and (2)

the District’s comprehensive water shortage contingency analysis, which details stages of action to be undertaken by the District in response to water supply shortages.³

In short, this 2015 UMWP allows the District to assess and plan for on-going effective management of its water supplies to meet its evolving water demands.

1.2 Public Participation and Agency Coordination

The UWMPA requires a water purveyor to coordinate the preparation of its UWMP with other appropriate agencies in and around its service area. This includes other water suppliers that share a common source, water management agencies, and relevant public agencies. The District has prepared this 2015 UWMP in coordination with water utilities supplying wholesale water to the District, and has appropriately notified and coordinated with other appropriate local government agencies as listed in **Table 1-1**. Copies of correspondence are included in **Appendix B-3**.

Table 1-1 – Public and Agency Coordination

Coordinating Agencies	Coordinate regarding Demands	Sent Copy of Draft UWMP	Sent 60-Day Notice	Notice of Public Hearing
<i>Cities, Counties, Retail Customers and Interested Parties</i>				
Sacramento County			√	√
Sacramento County Water Agency	√	√	√	√
City of Elk Grove (Planning Dept.)	√	√	√	√
City of Elk Grove (Public Works Dept.)	√	√	√	√
Cosumnes Community Service District			√	√
Elk Grove Unified School District			√	√
Sacramento County Regional Sanitation District			√	√
General Public				√
<i>Shared Groundwater Resource Interests</i>				
Cal-Am Water Company			√	√
Sloughhouse Resource Conservation District			√	√
Golden State Water Company			√	√
Rancho Murrieta Community Service District			√	√
Omochumne Hartnell Irrigation District			√	√

1.2.1 Sacramento County Water Agency

The District’s service area is completely encompassed by the Sacramento County Water Agency (SCWA). Due to its contractual and geographical relationship, SCWA plays a significant role in the District’s water management. SCWA currently provides water to a portion of the District’s service area; i.e., Service Area 2, through a mix of surface water and groundwater deliveries.

³ A recent amendment to CWC § 10632 includes defining water features that are artificially supplied with water as part of this contingency analysis.

1.2.2 Central Sacramento County Groundwater Management Plan

SCWA was also a participant in the development of the Central Sacramento County Groundwater Management Plan (CSCGMP). In 2006, the CSCGMP was created in an effort to promote regional water supply planning and identify the groundwater basin's safe yield. As described in **Section 3.2**, the plan focused on the Central section of the Sacramento groundwater basin to ensure that water supplies were successfully managed and available into the future. The District extracts groundwater from the Central Basin for use by its customers. The full text of this plan can be found in **Appendix C-3**.

1.2.3 Water Forum

Community leaders, along with water managers from Sacramento, Placer and El Dorado counties negotiated the Water Forum Agreement (WFA), which is a comprehensive package of linked actions that will achieve two coequal objectives: (1) Provide a reliable and safe water supply for the region's economic health and planned development through to the year 2030; and (2) Preserve the fishery, wildlife, recreational, and aesthetic values of the Lower American River. Pursuant to the Water Forum provisions, the District has also developed best management practices that are consistent with the Demand Management Measures in the 2015 UWMPA.

1.2.4 Regional Water Authority

The Regional Water Authority (RWA) is a joint powers authority that serves and represents the interests of 22 water providers in the greater Sacramento, Placer, El Dorado and Yolo County regions. The Authority's primary mission is to help its members protect and enhance the reliability, availability, affordability and quality of water resources. RWA has launched significant programs and services on a regional scale, including: (1) A water efficiency program designed to help local purveyors implement best management practices on a regional basis; (2) implementation of the American River Basin Regional Conjunctive Use Program to build and upgrade water facilities throughout the region to better manage surface and groundwater resources; and (3) development of an Integrated Regional Water Management Planning Program to continually identify the regional projects and partnerships that will help the region best meet its future water needs.

1.2.5 Additional Entities

The District has shared water interests with a several other entities due to its groundwater basin and conveyance facilities. These neighboring entities include Sacramento County, City of Elk Grove, Cosumnes Community Service District, Elk Grove Unified School District, and Sacramento County Regional Sanitation District. All of these entities, including the general public and adjacent water suppliers, were sent 60 day notices and

encouraged to attend the public hearing prior to the adoption of the 2015 UWMP. A copy of the letter is provided in **Appendix B-3**.

1.3 Plan Adoption

Prior to adoption, the District held a public hearing regarding its 2015 UWMP on June 22, 2016. Before the hearing, the District made a draft of the 2015 UWMP available for public inspection at the District's office and on the District's website. Pursuant to CWC Section 10642, general notice of the public hearing was provided through publication of the hearing date and time,⁴ and posting of the hearing at the District's office.

As part of its public hearing, the District received community input regarding its implementation plan for complying with the water conservation requirements contained in CWC § 10608.20 et seq., including the implementation plan's economic impacts.⁵ Also, at the public hearing, the District presented the method for determining its urban water use target pursuant to CWC § 10608.20(b).

The District adopted this 2015 UWMP on June 22, 2016.⁶ A copy of the adopted 2015 UWMP will be provided to the County and the California State Library, and posted onto the District's website.

1.3.1 Additional Compliance

The District plans to submit all required documentation related to the UWMPA soon after adoption. These include the required DWR UWMP Tables as **Appendix A-1**, the DWR Checklist as **Appendix A-2**, the SB 7-7X compliance forms as **Appendix A-3**, and the AWWA Water Audit worksheet as **Appendix A-4**.

1.4 Previous Reports

The 2015 UWMP has been prepared using a number of related planning documents and previous reports, including, but not limited to:

- Elk Grove Water District 2010 UWMP;
- Central Sacramento County Groundwater Management Plan;
- City of Elk Grove's General Plan

⁴ See **Appendix B-2** for copies of the published notices.

⁵ CWC § 10608.26

⁶ The resolution adopting the 2015 UWMP is in **Appendix B-1**.

1.5 Plan Organization

This UWMP is organized as follows:

- Chapter 2 provides a description of the District's (a) service area, including climate; demographic and population characteristics; and current and projected land-use changes integral to the demand forecasts, and (b) water system, including the potable and non-potable delivery systems.
- Chapter 3 describes the District's current and future water supplies and the reliability of the supplies.
- Chapter 4 details the demands on the District's system, including the past and future estimated demands.
- Chapter 5 provides information regarding the District's demand management measures.
- Chapter 6 discusses the District's water shortage contingency plan.
- Chapter 7 compares the District's supplies and demands in normal and dry years.

The appendices include background information, details, and necessary supporting documents.

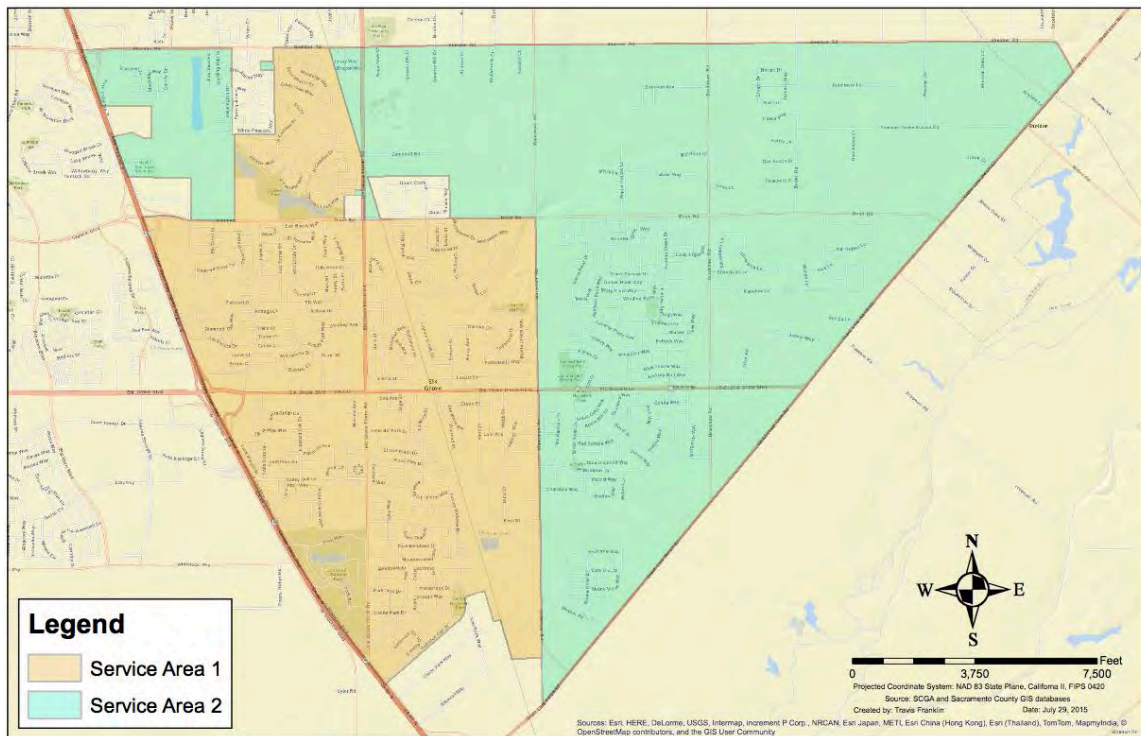
CHAPTER 2. WATER SYSTEM INFORMATION

2.1 District Service Area General Description

The Elk Grove Water District (District) is a public water agency that provides potable water directly to retail customers throughout the approximately 13 square mile District boundary. The District and surrounding area overlay the Sacramento Area Groundwater Basin, and specifically rests atop the Central Basin. The District is bounded by Sheldon Road to the north, Highway 99 to the west, Grant Line Road to the east, and the Union Industrial Park to the south. The District operates as a department within the Florin Resource Conservation District (FRCD) and is surrounded by the SCWA on all sides.

The District is separated into two service areas: Service Area 1 and Service Area 2. Service Area 1 is supplied by groundwater wells and treated by the District’s water treatment plant. Service Area 2 is supplied by surface water and groundwater purchased from SCWA. **Figure 2-1** represents the District’s service areas.

Figure 2-1 – Elk Grove Water District Service Area



2.1.1 Climate

Elk Grove Water District’s climate is typical of California’s Central Valley with hot, dry summers, and cool, wet winters. Climate data for the District was obtained from local reporting stations with the same microclimate characteristics as the District’s service area.

Temperature data was obtained from the Western Regional Climate Center (WRCC) station at Sacramento Executive Airport, located about 17 miles northwest of the District's service area. The average annual temperature is about 61 degrees Fahrenheit. Typically, July and August are the hottest months of the year with an average daily temperature of about 75 degrees, though daytime high temperatures average close to 92 degrees. There are approximately 73 days a year when the high temperature exceeds 90 degrees. December and January are generally the coolest months of the year, with a mean annual temperature of about 46 degrees, and the average minimum dipping down to 38 degrees. Historically, there are about 18 days per year in which temperatures go below 32 degrees.

Precipitation data is also documented from the WRCC Sacramento Executive Airport station. For the period 1941-2015, average rainfall was measured at 17.21 inches. The wettest months are December, January and February, and the driest months are typically July and August.

Evapotranspiration (ETo) varies seasonally, and during dry years the significance of evapotranspiration is magnified because it continues to deplete surface and soil water supplies that are not being replenished by sufficient precipitation. The District monitors ETo closely. Standard monthly average ETo data was obtained from the California Irrigation Management Information System (CIMIS) station 131 located in Fair Oaks, California, which is about 20 miles northeast of the District's service area. Average annual ETo for the period 1998-2015 measured 50.56 inches.

Additional ETo data from California Model Water Efficient Landscape Ordinance (MWELo) is also reported in **Table 2.1**. Local agencies are to use the MWELo ETo values as the standard for approval of landscape plans associated with specific development projects. Since the City of Elk Grove (City) was not listed in the MWELo ETo Table, data from the nearby City of Sacramento was used.⁷

All evapotranspiration (ETo), rainfall, and temperature data is provided in **Table 2-1**.

2.1.2 Demographics and Population Characteristics

The population served by the Elk Grove Water District includes a mix of users and user classes, and follows the same demographic and population trends as the City. The District is comprised of single-family residential (84 percent), multi-family residential (2 percent), commercial (11.5 percent), with 2.5 percent of the area designated as industrial. The build out of the service area will consist of mainly residential, multi-family, and

⁷ As outlined in the 2015 update to the MWELo § 492.4 (a) (1): For geographic areas not covered in MWELo Appendix A, use data from other cities located nearby in the same reference evapotranspiration zone, as found in the CIMIS Reference Evapotranspiration Zones Map, Department of Water Resources, 1999.

commercial land uses. The service area’s currently averages about 3.7 persons per connection.

Table 2-1 – Elk Grove Water District Climate Information⁸

Month	MWELo Appendix A ETo (inches)	CIMIS Standard Monthly Average ETo (inches)	Average Precipitation (inches)	Average Temperature (Fahrenheit)	Average Maximum Temperature (Fahrenheit)	Average Minimum Temperature (Fahrenheit)
January	1.00	1.12	3.56	45.7	53.5	37.8
February	1.80	1.70	3.07	50.4	59.9	41
March	3.20	3.29	2.44	53.9	64.6	43.1
April	4.70	4.49	1.17	58.6	71.4	45.9
May	6.40	6.36	0.5	65.3	79.9	50.7
June	7.70	7.40	0.18	71.3	87.2	55.4
July	8.40	7.95	0.03	75.5	92.7	58.2
August	7.20	7.05	0.06	74.6	91.5	57.8
September	5.40	5.17	0.25	71.8	87.7	55.8
October	3.70	3.37	0.93	63.9	77.7	50.2
November	1.70	1.63	2.04	53.1	63.7	42.6
December	0.90	1.05	3.02	46	53.8	38.2
Annual :	52.1	50.56	17.25	60.8	73.6	48.1

MWELo Appendix A data from Sacramento, CA

ETo data from DWR CIMIS Data, Fair Oaks Station 131, 1998-2015

Precipitation and Temperature data from WRCC, Sacramento Executive Airport (047630) 1941-2015

Historical and 2015 service area population estimates were generated using DWR’s WUE data application. This application uses census data, service area boundaries, and person per connection data to calculate population estimates.⁹

Projected population and build-out estimates were derived using various SACOG reports and City General Plan data.¹⁰ The historic and 2015 population as well as projected populations are presented in **Table 2-2**. The District service area is expected to reach build out by 2045, with most growth occurring prior to 2025, followed by a slow growth rate of less than 0.5 percent annually.

⁸ From MWELo Appendix A data from Sacramento, CA. The ETo data taken from DWR CIMIS Data, Fair Oaks Station 131, 1998-2015. Precipitation and Temperature data from WRCC, Sacramento Executive Airport (047630) 1941-2015.

⁹ Elk Grove Water District service area falls into Category 2 of DWR Methodologies for Calculating Baseline and Compliance Urban Per Capita Water Use

¹⁰ City of Elk Grove General Plan with Amendments as of March 2015. Land Use Element, Housing Element, Economic Development Element data.

Table 2-2 – Historic and Projected Population

Year	Population	Year	Population
1995	22,234	2009	38,135
1996	22,776	2010	39,694
1997	23,319	2011	40,326
1998	23,863	2012	40,960
1999	24,408	2013	41,594
2000	24,954	2014	42,230
2001	26,444	2015	42,867
2002	27,940	2020 (est.)	44,902
2003	29,339	2025 (est.)	49,549
2004	30,831	2030 (est.)	50,530
2005	32,321	2035 (est.)	50,604
2006	33,817	2040 (est.)	50,678
2007	35,315	2045 (est.)	50,752
2008	36,567	Reached Build-out	

2.1.3 Current and Projected Land Use

As previously indicated, the District currently serves a variety of land use including residential, industrial, retail and commercial customers. The current and projected population shown in **Table 2-2** are a reflection of these land uses, with the increased population reflecting proposed development, as well as continued growth as represented by the City’s General Plan and related documents. These anticipated land use changes are the foundation for forecasting the District’s future water demands.

To develop a basis for the demands forecast in **Chapter 4**, the District sought and received input from the City’s Planning Department regarding its desired representation of the City’s General Plan within the District’s service areas. **Table 2-3** presents the anticipated growth by land-classification and 5-year horizon that the District will develop demand estimates to serve.

Table 2-3 – Expected Growth within the District

Land-class		Future (Accounts or Acres)					
		2020	2025	2030	2035	2040	2045
Service Area 1	Residential						
	RD-5, new	16	36	44	44	44	44
	RD-20/Apt,	0	75	75	75	75	75
	Non-residential						
	Future Commercial Center	10	25	45	45	45	45
	Future Industrial	5	25	45	60	60	60
Service Area 2	Residential						
	Future No Yards	100	261	261	261	261	261
	Future RD-10	92	172	172	172	172	172
	Future RD-5	300	1000	1242	1242	1242	1242
	Future Large Lots	42	62	77	97	117	137
	Future Apartments	0	200	200	200	200	200
	Non-residential						
	New Commercial	10	20	27	27	27	27
	New Industrial	10	30	50	64	64	64
	Future Bus/Prof	2	2	2	2	2	2
	Future Schools	0	10	10	10	10	10
	Future Parks	10	21	21	21	21	21

2.2 Water Delivery System

The District has two service areas (see **Figure 2-1**). Service Area 1 utilizes water developed by the District and directly delivered to its customers. Service Area 2 obtains water from Sacramento County Water Agency (SCWA) that is either produced from SCWA’s groundwater facilities or diverted and delivered through its surface water system. Both of these systems are described in greater detail in **Chapter 3**.

2.2.1 Potable Delivery System

Service Area 1 is supplied by several groundwater wells that deliver water to a potable groundwater treatment plant owned and operated by the District. The system includes the treatment plant, two storage tanks, the production wells serving the plant and various distribution system pipes and appurtenances. The water treatment plant, referred to as the Railroad Street Treatment and Storage Facility, has a maximum day capacity of 10.4 million gallons per day (MGD). The facility can pump up to 16,000 gallons per minute. Groundwater is delivered to the plant from the District’s deep production wells, where it is treated before being delivered to customers.

Service Area 2 is provided treated and fluoridated water provided by SCWA owned and operated groundwater production wells that intertie into the District’s Service Area 2

distribution system at multiple locations. In 2014, fluoride was at optimal levels in the SCWA distribution system. The optimal fluoride level and control range for the system is based on an annual average maximum daily air temperatures. In accordance with Title 22, Section 64433.2 of the State Board regulations, the optimal fluoride level is 0.8 mg/L and the fluoride control range from 0.7 mg/L - 1.3 mg/L.¹¹ The District is also responsible for the maintenance and operation of the transmission and distribution mains for Service Area 1 and the distribution mains for Service Area 2. There is a single water treatment plant within the Service Area 2 service boundary, however it is owned and operated by SCWA. This treatment plant is commonly referred to as the East Elk Grove Groundwater Treatment Plant.

2.2.2 Non-Potable and Recycled Water Systems

The District does not currently have any recycled water systems, nor does it receive recycled water from its SCWA contract.

¹¹ Elk Grove Water District 2014 Consumer Confidence Report

CHAPTER 3. WATER SUPPLY CHARACTERISTICS

3.1 Introduction

As discussed in **Section 2.1**, the District has limited options for water supplies given its boundaries and available resources. Although the Sacramento County Water Agency surrounds the District, it still has access to a large quantity of water through groundwater pumping. Through its groundwater pumping and a wholesale water contract with SCWA, the District meets its customer water needs.

3.2 Existing Water Supplies and Entitlements

The District has historically received its water supply through self-supplied groundwater and water purchased through the SCWA. The District relies solely on groundwater as the source of supply for Service Area 1, whereas Service Area 2 uses water supplied by SCWA (although this supply is also predominantly groundwater).

Groundwater is supplied to Service Area 1 by a series of three shallow wells and four deep wells, all located within the District’s service area. Historically, the wells and underlying subbasin have not been categorized as an overdraft risk. However, new groundwater legislation – the Sustainable Groundwater Management Act (SGMA) – may impact the availability of groundwater to the District. Nevertheless, **Table 3-1** provides the historical supply produced by the Service Area 1 wells, accompanied by each wells maximum pumping capacity.

Table 3-1 – Historical Groundwater Production By Well¹²

Annual Well Production (AFY)										
	Well 14D	Well 4D	Well 11D	Well 1D	Well 3	Well 8	Well 12	Well 9	Well 13	Total
Capacity (GMP)	1630	1900	1850	1750	850	850		475	1000	
2010	1579	1079	730	0	133	246	37			3804
2011	1422	1367	848	718	42	182	37			4615
2012	896	1280	948	1007	194	706	396	155		5582
2013	804	1327	1185	249	594	337	0	698		5194
2014	271	1260	1375	90	268	418	Out of Service	437		4117
2015	313	1202	642	139	393	22		342	346	3398

Service Area 2, which is located within SCWA’s Zone 40, has access to both SCWA’s groundwater and surface water resources. But as a matter of practice, water served to customers in Service Area 2 is almost entirely derived from SCWA’s production wells located within the service area.

¹² Based on recorded well production rate data

Service Area 2 is supplied water from the SCWA through a wholesale master water agreement with SCWA (see **Appendix C-1**). The original agreement was signed in 1995. In 2002, the parties “restated” the master water agreement in order to clarify the parties, terms and conditions. The Agreement provides that SCWA will provide a permanent supply of wholesale treated water to the District for use within the District’s service area.¹³ The contract has a 50 year term with an automatic renewal clause for another 50 years unless one party provides a 5 year notice of intent not to extend.¹⁴ The agreement was developed to provide a way for new development in the District’s service area and Florin Resource Conservation District’s service area to access new water supplies being developed through the Zone 40 conjunctive use program.

In 2015, SCWA delivered 1,914 acre-feet of water to the District under this agreement.¹⁵ Although SCWA has some surface water and recycled water assets, Service Area 2 is not currently supplied with recycled water and currently does not receive any significant amount of surface water. SCWA is developing substantial surface water supplies as part of the Freeport Regional Water Authority (FRWA), which may become available to Service Area 2 in the future. SCWA also delivers Aerojet remediated groundwater supplies derived from foreign sources of groundwater in the American River Watershed through the FRWA system.

Through the contract, the District agreed to purchase water from SCWA to serve its expanded retail area (Service Area 2). The development within the Service Area 2 is required to pay the Zone 40 Development Fee for new building permits, and a monthly user fee for Zone 40 capital projects, which support conjunctive use in the Central Basin. Importantly, the District does not have a water right other than the contract right to the water delivered through SCWA’s system. Nevertheless, Zone 40’s conjunctive use water supply is considered a permanent and reliable source based upon the language of the Agreement.¹⁶

3.2 Groundwater

The groundwater wells within the District’s system extract water from aquifers between 200 and 1,000 feet below the ground elevation. The District holds groundwater

¹³ First Amended and Restated Master Water Agreement Between Sacramento County Water Agency and Florin Resource Conservation District/Elk Grove Water Service, Successors-In-Interest to Elk Grove Water Works, June 28, 2002 at Article I and Article III (Hereafter “Agreement”). Elk Grove Water District is part of FRCD <http://www.egws.org/index.html>

¹⁴ Agreement at Article VI.

¹⁵ Based on water supply data from the District for 2015 delivery of water under SCWA contract.

¹⁶ Agreement at Articles I and III.

appropriate water rights to all groundwater supplies derived from its wells that are delivered to its customers.¹⁷

The District is located in the Sacramento Valley South American Groundwater Basin, referred to as the Central Basin Area of the Sacramento County Groundwater Basin, as identified in the Central Sacramento County Groundwater Management Plan (CSCGMP). The Central Basin boundary was defined by CSCGMP and incorporated into the Sacramento County groundwater model used in the Water Forum process. The CSCGMP was formally adopted by the participating agencies in 2006. This document is attached in **Appendix C-2**. As stated in the CSCGMP, the Water Forum estimated the long-term average annual sustainable groundwater pumping yield from the entire Central Basin to be 273,000 acre-feet per year.

Numerous public and private water purveyors within Sacramento County pump groundwater through groundwater wells. This well pumping data is collected as part of the Water Forum Successor Effort's "Central Sacramento County Groundwater Forum," and is presented in the CSCGMP. This UWMP presents the expected groundwater pumping rates through 2030, if the groundwater extraction is not supplemented with additional surface water contracts. SCWA also completed a separate GMP under California Water Code Section 10750 for Zone 40¹⁸ and there is a South Basin Sacramento County Groundwater Management Plan as well.¹⁹ These two documents are informative to the CSCGMP analysis that constitutes the basis of the District's groundwater usage

3.2.1 Groundwater Characteristics and Conditions

Groundwater elevations are regularly monitored within the region by DWR. Some of these records date back to the early 1950s. Hydrographs in the vicinity of the District's service areas indicate that the groundwater elevations have declined from the early 1950s through the late 1970s. From approximately 1980, the groundwater elevations have remained relatively consistent, except for a temporary decline in the early to mid-1990s. The static depth to groundwater within the District currently ranges between 60 to 110 feet below the ground surface.

The aquifer system within the Central Basin consists of continental deposits of the late Tertiary to Quaternary age (DWR Bulletin 118). The major fresh water bearing geologic units are the Laguna Formation and the Mehrten Formation. The District has wells constructed in both of these formations. The Laguna Formation, which extends to a total

¹⁷ Groundwater derived from its wells and applied to "overlying lands" that are owned by the District are based on overlying groundwater rights.

¹⁸ Developed in 2004

¹⁹ Developed in 2011

depth of approximately 300 feet within the Central Basin, is used for private domestic wells and municipal water supply wells.

In total the District has eight wells producing water for Service Area 1, though one is offline (see **Table 3-1**).

Combined with SCWA groundwater production, the District’s customers have been served the total groundwater volumes shown in **Table 3-2**. It should be noted that the State’s mandates reducing and restricting water use in light of the drought has impacted the volume of water used since 2013.

Future groundwater projections are estimated to mimic these recent values (absent the significant reductions in 2015) as explained in more detail in **Chapter 4** (demands) and **Chapter 7** (integration of supply and demand).

Table 3-2 – Historical Groundwater Volume Pumped

Annual Production (Acre-feet)			
Year	Self Procured	Purchased from SCWA	Total
2010	4,440	2,502	6,942
2011	4,615	2,885	7,500
2012	5,582	2,535	8,117
2013	5,194	2,718	7,912
2014	4,118	2,297	6,415
2015	3,398	1,914	5,312

3.2.2 Groundwater Management

To address the groundwater management of the District’s current supplies, the analyses of both the Water Forum Agreement and the Central Basin Groundwater Management Plan must be assessed. In addition, the emerging rules associated with the Sustainable Groundwater Management Act – that will require formation of a Groundwater Sustainability Agency (GSA) and adoption of a Groundwater Sustainability Plan (GSP) – may impact the long-term management of the Central Basin. Nevertheless, because of the sustainable yield assessments and SCWA’s and the District’s conjunctive use operations functioning within those parameters, it is likely that groundwater cutbacks to the District will not be realized.

Central Sacramento County Groundwater Management Plan

As described above, the District overlies and extracts groundwater from the Central Basin from seven wells that range in total depth from 450 to 1,075 feet below ground surface. The public water systems and water service providers that extract water from the Central Basin besides the District include: the California American Water Company, City of Sacramento, SCWA, the Golden State Water Company, and numerous private

landowners that possess overlying groundwater rights linked to their property ownership. The Central Basin water providers and the groundwater basin boundaries are shown on **Figure 3-1** and **Figure 3-2**, respectively.

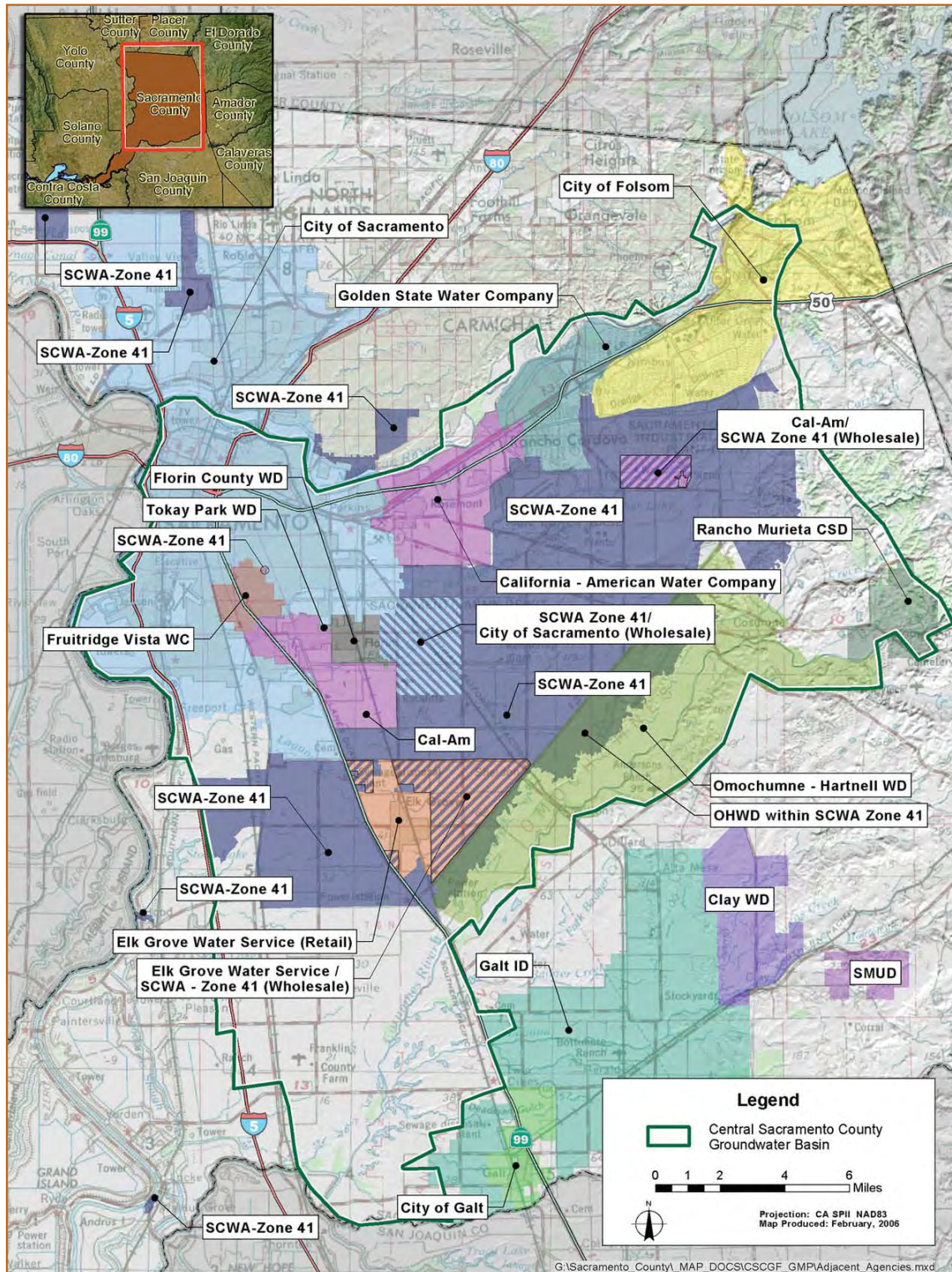
The Central Basin is not adjudicated or considered to be in a state of overdraft. Due to the active planning by water agencies and conjunctive use efforts, the basin will remain stable in the future. The CSCGMP provides for the long-term protection of groundwater quantity and quality within the region, and contains policies directing the development of surface water supplies, conservation, and other measures to service urban development as it occurs, thereby protecting the sustainable annual groundwater yield threshold of 273,000 AF.

Based upon the Central Basin's total projected water supplies for normal, single-dry, and multiple-dry years over a 20-year projection, as demonstrated in **Section 7**, the Central Basin will have sufficient water to meet estimated water demands for the build-out of the District's Service Area 1 and Service Area 2.

Sustainable Groundwater Management Act

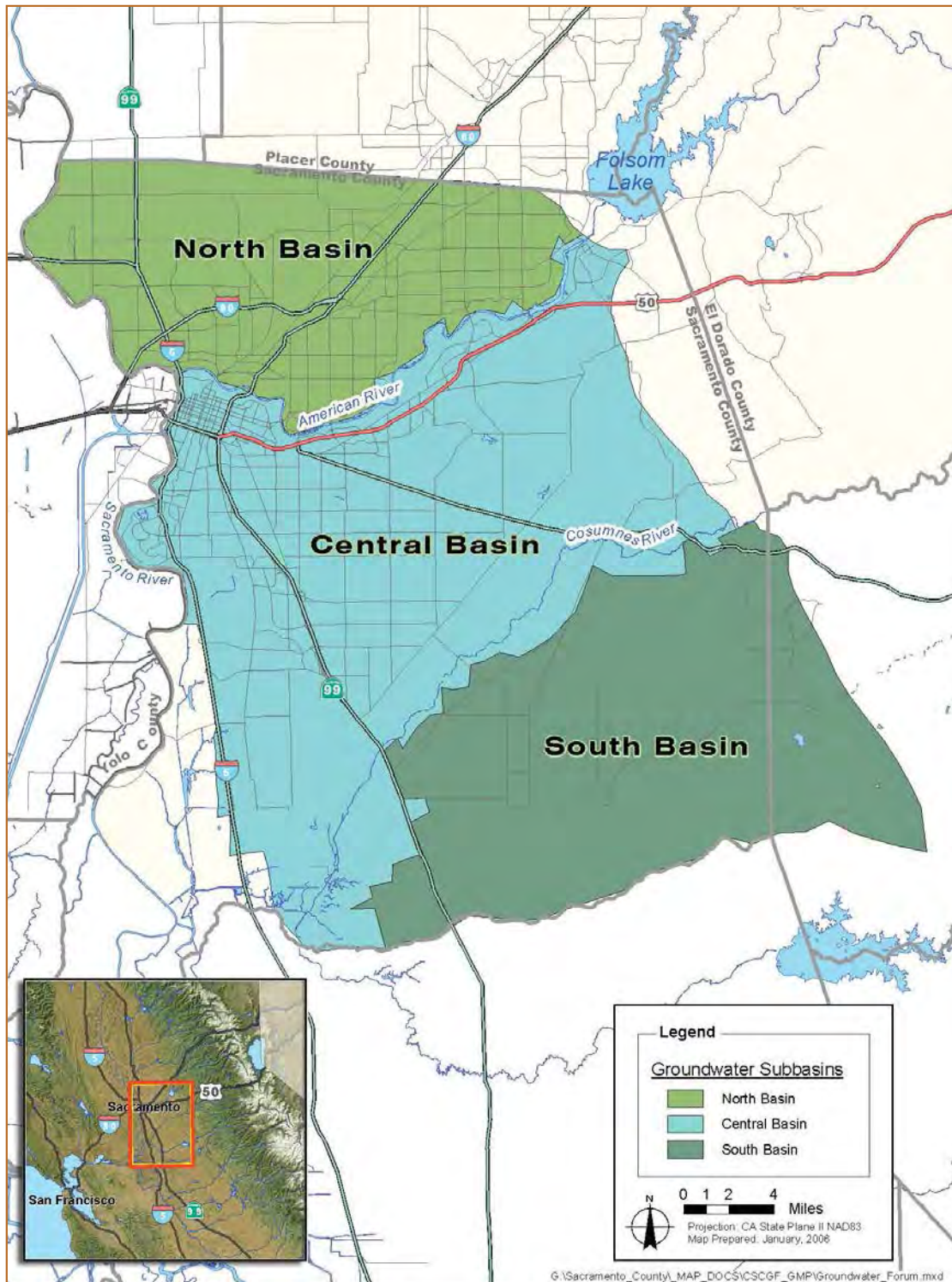
Under the Sustainable Groundwater Management Act, as discussed above, new state laws require the establishment of a GSA and a GSP. Although the Central Basin has an existing Groundwater Management Plan, the CSCGMP, that outlines planning protocols associated with current management efforts, the CSCGMP may not be the controlling planning document in the future. Moreover, the CSCGMP participating agencies have not yet been chosen to act as GSA. Once a GSA is formed, they will be required to develop a GSP. This may mimic the CSCGMP fundamental analyses but it is too early to tell if those analyses will meet the states' more stringent regulations.

Figure 3-1 – Sacramento County Central Basin Water Purveyors²⁰



²⁰ 2006 CSCGP Figure 1-2

Figure 3-2 – Regional Sacramento County Groundwater Basins²¹



²¹ 2006 CSCGMP Figure ES-1.

3.2.3 Groundwater Quality

Water produced from the Laguna Formation and the Mehrten Formation is considered generally good quality with low total dissolved solids. Water produced from the Laguna Formation often meets all water quality standards, but exceeds the Maximum Contaminant Level (MCL) for arsenic within some areas of the Central Basin. The Mehrten Formation often contains manganese and odor, which exceed the MCLs. The upper portion of the Mehrten Formation, (between 300 feet to 700 feet within the District), occasionally exceeds the MCL for arsenic within the Central Basin. The lower portion of the Mehrten Formation, (between 700 feet to 1,300 within the District) generally has concentrations of arsenic that are under the MCL, but still require treatment to remove manganese and odor.

The quality of the groundwater supplied by the district meets the drinking water standards. The District provides centralized water quality treatment to remove manganese for the District's four deep wells. The three active shallow wells do not require treatment to meet drinking water standards.

3.3 Recycled Water

The District does not currently receive any recycled water. SCWA currently obtains and serves recycled water with its Zone 40 service area and expansion into the District's service area is feasible. However, at this time, there are no clear plans for this to occur or for the District to develop its own recycled water supply.

The recycled water SCWA does serve is produced from a partnership with Sacramento Regional County Sanitation District (SRCSD) and the Sacramento County Environmental Management Department. The water recycling facility is located within the City of Elk Grove and is being increased from a 3.5 MGD capacity to over 10 MGD. SRCSD performed a Water Recycling Opportunities Study (WROS) that identified five key target areas for potential recycled water uses. The District exists within the Target Area identified as Target Area 1 South Area.²² However this area was found to have a decreased potential for future recycled water use due to its limited overall use potential, and infrastructure costs. Accordingly, based on the WROS, it is not anticipated that the District will use any recycled water for its service area presently and out into the future.

3.4 Desalinated Water

Desalination of ocean water is not physically or financially viable for the District at this time and it has no future plans to develop water supplies derived from desalination activities.

²² Sacramento Regional County Sanitation District, Water Recycling Opportunities Study, February 2007.

3.5 Transfer and Exchange Opportunities

The District has opportunities for limited potable water transfers or exchanges. All of these transfer or exchanges would likely involve SCWA since SCWA controls the wheeling facilities that could deliver surface water assets to the District. Furthermore, the District could move water between Service Area 1 and Service Area 2 through numerous valves that the District generally keeps closed. Therefore, with some creative thinking and willing partnerships, the District could engage in numerous forms of water transfers that may have long-term regional benefit. Some examples of these are described below.

In Lieu Banking Arrangement with Surface Water Purveyor

The District could engage a water purveyor with surface water assets connected to the Sacramento River watershed and use those surface water assets in lieu of using its groundwater. In this scenario, the District would receive the right to divert water through a temporary water transfer agreement and appropriate regulatory steps.²³ The water would be diverted at the Freeport Regional Water Agency diversion facility and delivered directly to the District through SCWA's wheeling and treatment facilities. The benefit of this sort of transaction is that it would relieve pressure on the groundwater basin and preserve the groundwater supplies for dry periods when surface water assets are less available.

A second form of an in-lieu banking alternative might include assigning the rights to the banked groundwater to another agency. For instance, if Golden State Water Company could deliver some of its surface water assets directly to the District in normal and wet years, the District could assign a portion of its banked groundwater assets to Golden State Water Company for use in dry years. An in-lieu banking and exchange agreement can work where an entity shares resources in the Central Basin.

Third Party Water Exchange Arrangement

In other instances, water exchanges may benefit multiple parties through creative transfer arrangements. For example, if the District were to purchase water and deliver it directly to SCWA for SCWA's broader distribution in its service area, then SCWA is preserving groundwater assets that it might otherwise use for dry year availability. In this situation, SCWA may also reduce its treatment costs, etc. by increasing the utility of the FRWA (which has cost variables) as well as the per acre-foot cost of treatment at its Vineyard Water Treatment Plant. In other words, acquiring an asset and creating an exchange arrangement with SCWA may have multiple benefits not only to manage water use in dry

²³ There are different regulatory steps needed for different types of water rights and assets which would be further detailed at the time the transfer was proposed.

years but also in long term groundwater basin recovery and management of costs related to FRWA and Vineyard system operations.

3.6 Supply Reliability

The District's water supplies are stable and reliable. Both the groundwater supply and SCWA's surface water supply are well-preserved. As such, water service to Service Area 1 and Service Area 2 should remain stable in all year types.

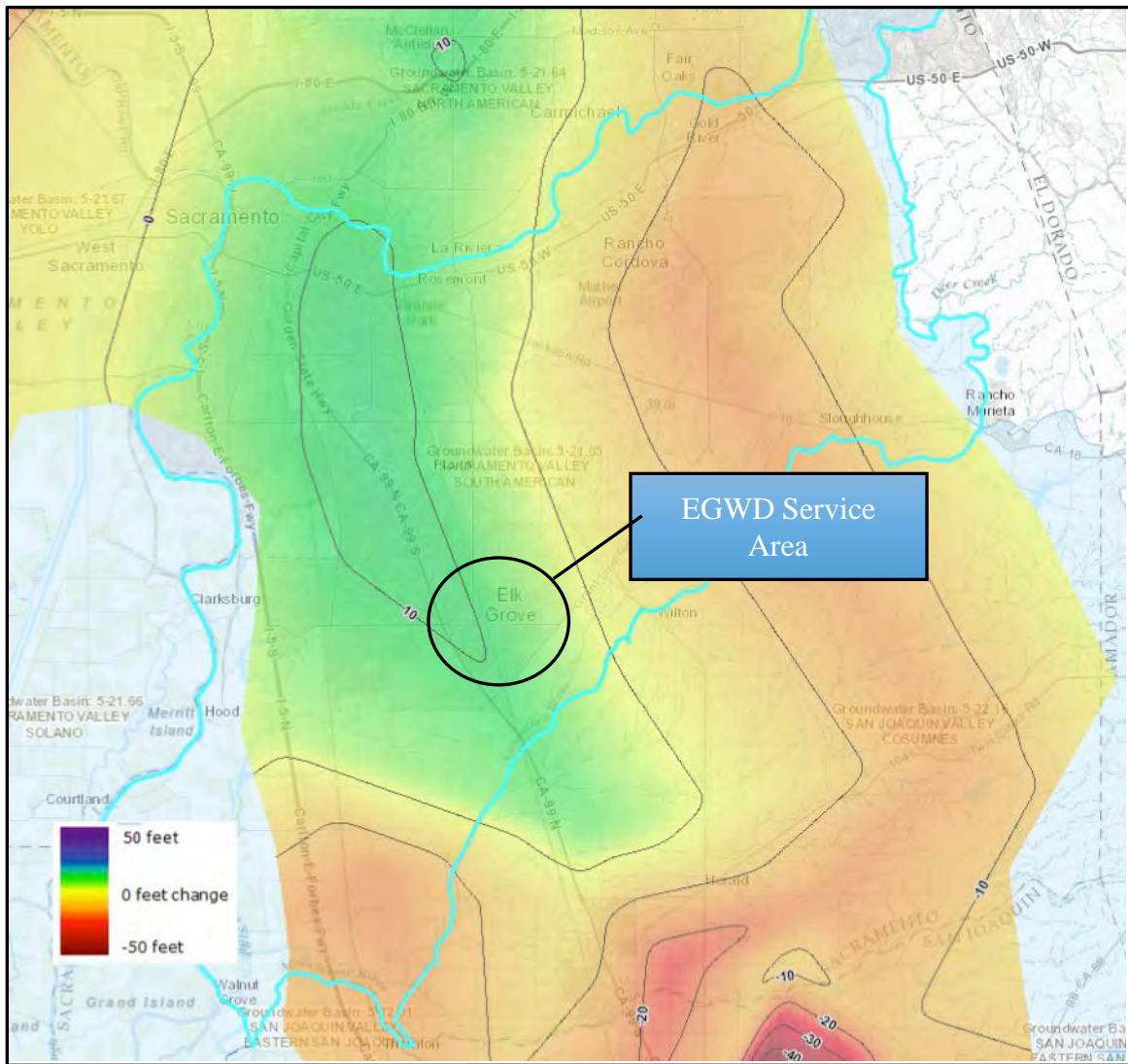
Under the CSCGMP, long-term groundwater quantity and quality protective measures have been performed throughout the basin by various agencies, including the District, in order to preserve groundwater assets. As shown in **Figure 3-5**, the District's service area overlays a sustainable reliable groundwater source. This figure shows the boundaries of the South American Sacramento Valley sub basin outlined in blue. The color gradation demonstrates that from 2005-2015, there has been no decrease to the basin's overall groundwater levels, and that, in fact, the groundwater levels in the District's service area have increased by approximately 10 feet during this 10-year period.

The groundwater supply's reliability for the District is further demonstrated in **Figure 3-6**. This figure confirms that the Central Basin's water levels have remained stable over the last two decades with the implementation of sound management practices. The stability of the groundwater wells has been further documented by SCGA's March 7, 2016 Board of Director's meeting, which concluded that each well has maintained stable levels. Graphic's of the most recent historical trends for each well can be found in **Appendix C-3**. The well monitoring data from a sampling of groundwater wells in the basin illustrate the Central Basin's overall good condition. Furthermore, the figures show that the wells closest to the District's actual service area, have actually increased in groundwater levels because of the District's and SCWA's conjunctive use actions.

The District covers approximately three percent of the entire Central Basin, taking this into account with CSCGMP overall estimated sustainable groundwater yield of 273,000 AFY, the District has 9,168 AFY of groundwater available within its service area.²⁴ This quantity of available groundwater is more than sufficient to meet the District's current water needs and accommodate the anticipated future water demands discussed in **Chapter 4**.

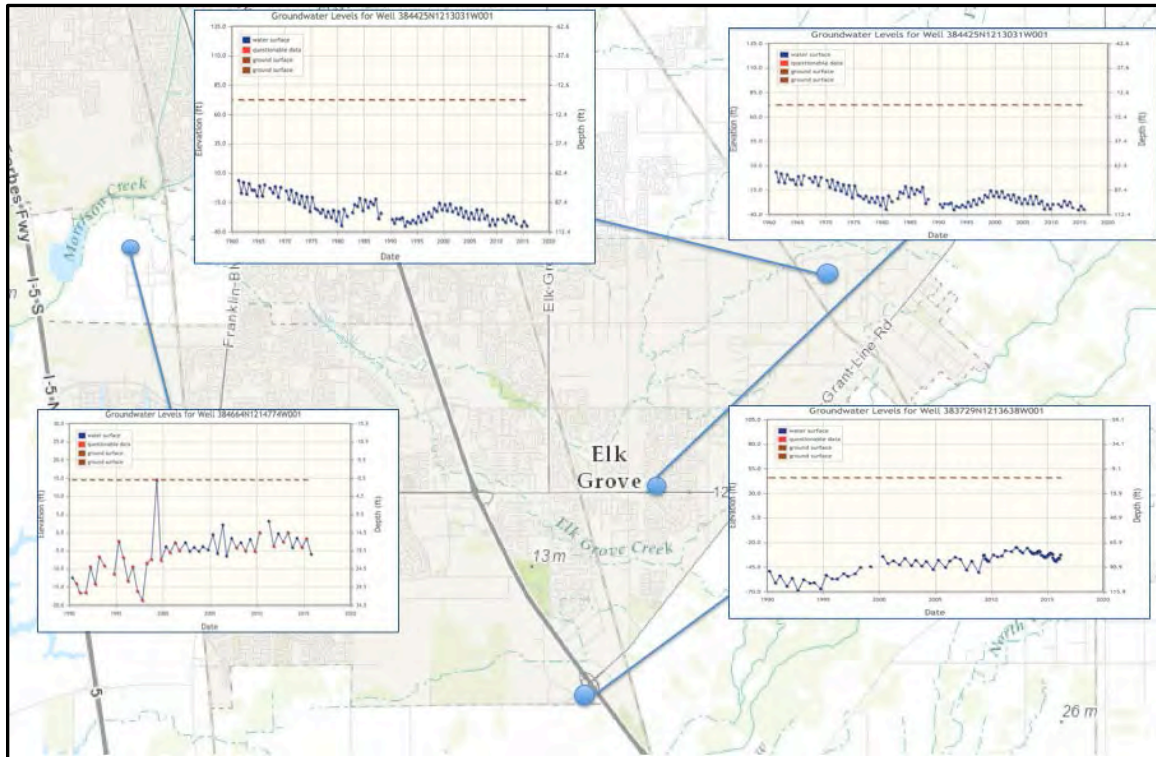
²⁴ Total groundwater calculated based on the acreage of the Central Basin and the District Service Area in conjunction with the SCSGMP groundwater safe yield amount.

Figure 3-5 – Groundwater Level Changes from 2005 -2015²⁵



²⁵ Figure created using the GICIMA tool available on DWR website at: <https://gis.water.ca.gov/app/gicima/>

Figure 3-6 – Groundwater Historical Well Data²⁶



In addition to the District’s groundwater supply, its supply from SCWA is also reliable. As the Restated Master Water Agreement confirms, the District will be supplied water for Service Area 2 by SCWA under all conditions. There are no limits on the quantity of water available under this contract nor are there exceptions for drought or other forms of hydrological variability. The term of the contract is for 50 years (until 2052) and requires five years notice for any deduction or interruption in service. For the purpose of this 2015 UWMP, the estimate for the future water supply under contract provided by SCWA will be set to match the projected demand for Service Area 2, as presented in **Chapter 4**.

This permanent supply under the SCWA contract is comprised of groundwater and/or surface water. Any of the supplied water made up with groundwater would be drawn from within the Central Basin and as discussed above, the Central Basin has historically been maintaining approximately the same levels for over the last decade. Minimal surface water is used to make up the deliveries to the District. For the surface water portion of any water supplied, SCWA is in the process of developing FRWA to greatly increase its surface water supplies. This expansion of their surface water supply and planned increases in their recycled water capacities indicates that SCWA is a reliable water source.

²⁶ Groundwater level data and graphics obtained from DWR’s water groundwater data website.

3.6.1 Normal Year Water Supply Availability

The District's total available water supply will not vary in a normal year from what was discussed in **Section 3.2** and **Figure 3-1**. It is evident based on **Figure 3-5** and **Figure 3-6** that the groundwater supply would be stable in a normal year and that the basin may even gain an increase in its groundwater levels based on the trend of the last ten years. Similarly, the District's contract with SCWA for supplying water to Service Area 2 would not be impacted during a normal year.

3.6.2 Single Dry-Year and Multiple Dry Year Water Supply Availability

The District anticipates no change in the available water supply during a dry year. Dry-year supplies include supply reductions attributable to hydrologic droughts and regulatory curtailments. Should any supply issues arise with SCWA, the District would be able to ensure its supply needs are met by increasing its groundwater pumping. A more likely scenario is if SCWA has reductions in its surface water supply, it will increase groundwater production to meet its water needs including its contractual obligation with the District.

3.6.3 Water Supply Summary

The District has two water sources; pumped groundwater and wholesale water purchased from SCWA. For Service Area 1, all the water is provided through the District's eight groundwater wells. These wells are located within the Central Basin that is hydrologically stable and shows no signs of overdraft. Furthermore, the groundwater level underlying the District's service area has increased by approximately 10 feet in the last decade, as shown in **Figure 3-5**. These facts demonstrate that the groundwater supply is stable and will provide the District with reliable supplies to meet projected demands in all year types.

Service Area 2 is supplied through a wholesale water contract with SCWA. The water provided by SCWA is composed of both groundwater and surface water. SCWA is currently engaged expanding its available water sources through recycled water and greater surface water capacity, which may eventually result in more surface water in the wholesale delivery to Service Area 2. Moreover, transfer arrangements as described in **Section 3.6.5** may also provide long-term benefits to the District and SCWA in furthering its common interest in encouraging regional water supply reliability.

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CHAPTER 4. WATER DEMAND CONDITIONS

Understanding water demand characteristics enables the Elk Grove Water District to reliably and cost-effectively manage its water supplies to meet customer needs. This section characterizes the District's retail customer demands over the next few decades. Specific water demand characteristics such as how demands vary among different land use classifications and under differing hydrologic conditions, all help illustrate customer needs under variable conditions. As such, this section is organized as follows:

- ◆ Review and refinement of the *2020 Urban Water Use Target* - This subsection presents the review and refinement of 2015 and 2020 water use targets as allowed under CWC §10608.20(g).²⁷
- ◆ Compliance with *Interim 2015 Urban Water Use Target* – This subsection documents the derivation of the 2015 GPCD value and comparison to the 2015 interim target.
- ◆ Historic and Current Water Demands – This subsection presents data reflecting the historic and current water demand conditions for residential and non-residential customers in the District.
- ◆ Future Water Demands – This subsection presents the derivation of future demands for potable and non-potable water within the District's service area, including land-use classifications, unit demand factors, and estimation of non-revenue water.
- ◆ Summary of Water Demands – This subsection presents a summary of the projected current and future water demands in five-year increments.

4.1 Review and Refinement of GPCD Targets

As detailed in the District's 2010 UWMP, population, residential connections, and water production data were used to generate a gallon per capita day (GPCD) baseline of 253 gpcd. From this GPCD baseline, the District assessed and determined a *2020 Urban Water Use Target* and an *Interim 2015 Urban Water Use Target*. These values were determined to be 202 and 227, respectively, as presented in the 2010 UWMP.²⁸

²⁷ 10608.20(g): *An urban retail water supplier may update its 2020 urban water use target in its 2015 urban water management plan required pursuant to Part 2.6 (commencing with Section 10610).*

²⁸ Elk Grove Water District 2010 UWMP, p. 11 (available at: http://www.water.ca.gov/urbanwatermanagement/2010uwmps/Elk%20Grove%20Water%20District/FINAL%20Elk%20GroveWD_2010-UWMP_6-22-11_Text.pdf)

According to the DWR Guidebook, a retail water purveyor who did not use actual 2010 Census data must re-calculate its baseline using the available 2010 Census data.²⁹ For the District's 2010 UWMP, the 2010 Census data was not fully available, causing the District to use other methods to estimate 2010 population.³⁰ Thus, the District must recalculate its baseline GPCD and re-establish its target and interim-target values with the available 2010 Census data.³¹ Additionally the UWMP Guidebook added detail to the population analysis procedures.

To recalculate the annual GPCD values using the 2010 Census data, the District utilized the available population tool from DWR. Use of this tool requires uploading of specific files that define the District's service area for 1990, 2000, and 2010 – as each of those periods potentially have varied service area boundaries. The result of the analysis provided a new population value for 2010 and, based upon the prior connection data, new population estimates for the period 1995 through 2010. New population values divided into the previously determined gross water values (as documented in the 2010 UWMP) provided revised GPCD values for this period. **Table 4-1** provides a comparison of the yearly population and GPCD estimates from the 2010 UMWP and as revised using 2010 Census data.

Notable, the population from 1995 to 2000 was recalculated higher than the original values presented in the 2010 UWMP. This resulted in lower annual gpcd values than previously determined. Using the revised annual GPCDs, new values were calculated for five of the six 10-year time periods ending no earlier than December 31, 2004 and no later than December 31, 2009.³² The comparative results are shown in **Table 4-2**. As expected, the use of 2010 Census data did have a significant effect on the estimated baseline values, lowering the highest average baseline value from 253 gpcd to a new value of 239 gpcd. Using the Method 1 target approach, the modified baseline results in a modified 2015 Interim GPCD Target and 2020 GPCD Target.

²⁹ “If an agency did not use 2010 U.S. Census data for its baseline population calculations in the 2010 UWMP (the full census data set was not available until 2012) the agency must re-calculate its baseline population for the 2015 UWMPs using 2000 and 2010 Census data. This may affect the baseline and target GPCD values calculated in the 2010 UWMP, which must be modified accordingly in the 2015 UWMP.” (2015 Urban Water Management Plans: Guidebook for Urban Suppliers, DWR, January 2016, p. 5-8)

³⁰ The District's 2010 UWMP used U.S. Census data, but calculated 2010 population based on residential connection information.

³¹ According to CWC Section 10608.20(g), the City may also re-assess the methodology chosen to determine its 2015 and 2020 GPCD targets and update these targets, even if the 2010 population data was appropriate.

³² The District did not include gross water use data beyond 2007, so only the first four of the six timeframes were averaged.

Table 4-1 – Revised Annual GPCD using 2010 Census Data³³

Year	From 2010 UWMP			For 2015 UWMP	
	Gross Water Use	Population	GPCD	Revised Population	Revised GPCD
1995	6,116	20,205	270	22,234	246
1996	6,189	19,615	282	22,776	243
1997	5,938	20,458	259	23,319	227
1998	5,686	21,300	238	23,863	213
1999	6,476	21,065	274	24,408	237
2000	6,411	24,390	235	24,954	229
2001	6,958	24,390	255	26,444	235
2002	7,880	28,525	247	27,940	252
2003	7,972	30,040	237	29,339	243
2004	8,494	31,800	238	30,831	246
2005	7,915	32,950	214	32,321	219
2006	9,388	33,495	250	33,817	248
2007	9,962	33,900	262	35,315	252
2008	9,437	Not in 2010 UWMP		36,567	230
2009		Not in 2010 UWMP		38,135	n/a
2010	6,941	34,550	179	39,694	156

Table 4-2 – Comparison of baseline and target values

Baseline Period	Baseline Values		2015 Target		2020 Target	
	Original	Revised	Original	Revised	Original	Revised
1995-2004	253	237	228	213	202	190
1996-2005	248	234	223	211	198	187
1997-2006	245	235	220	211	196	188
1998-2007	245	237	221	214	196	190
1999-2008	n/a	239	n/a	215	n/a	191

Pursuant to CWC 10608.20(g) the District may choose to select a different method for calculating its 2020 GPCD target. Upon review of the analysis in the 2010 UWMP that resulted in the choice of Method 1, the District finds no reason to vary from the prior method choice. Thus, the District is officially using Method 1 to establish its 2020 GPCD target. However, to accurately reflect the use of the 2010 Census data, the District will modify its 2020 GPCD Target to be 191 gpcd and its 2015 Interim GPCD Target to be 215 gpcd (see **Table 4-2**).

³³ The 2010 UWMP did not include values for 1997, citing lack of data. This table presents 1997 as the average between 1996 and 1998 for simplicity. Also, the 2010 UWMP did not provide population data for 2008 or 2009, nor gross water use values for 2009.

4.2 Compliance with 2015 Interim Target

Pursuant to CWC Section 10608.40, the District is to report to DWR on its progress in meeting its urban water use targets as part of its 2015 UWMP. As part of the progress reports, the District should include its “compliance daily per capita water use” (Compliance Value), which is the gross water use during the final year of the reporting period, reported in gallons per capita per day (gpcd).³⁴ Documentation of the Compliance Value must include the basis for determining the estimates, including references to supporting data. Furthermore, pursuant to CWC Section 10608.24(a), the District must demonstrate that it has met its 2015 Interim GPCD Target as of December 31, 2015 through its calculation of its 2015 Compliance Value.

Extending the population analysis that was revised during the reassessment of the baseline GPCD, the District is able to calculate its 2015 Compliance Value. **Table 4-3** presents the extended population calculation for 2011 through 2015, the associated gross water use in each year, and the resulting annual GPCD. As demonstrated, the District’s 2015 Compliance Value is 111 gpcd, which is significantly below the 2015 Interim GPCD value of 215.

Table 4-3 – Annual GPCD for 2010 through 2015

Year	Population	Gross Water Use (af/yr)	GPCD
2010	39,694	6,941	156
2011	40,326	7,499	166
2012	40,960	8,117	177
2013	41,594	7,912	170
2014	42,230	6,414	136
2015	42,867	5,311	111

Though the 2015 Compliance Value seems impressive, the District does not believe it represents the actual progress toward its 2020 GPCD Target conditions due to two factors: (1) weather conditions in 2015, and (2) mandatory conservation requirements imposed by the State Water Resources Control Board. While normalizing for weather is recognized and suggested in statute³⁵, with a tool available from DWR to perform the calculation, the State mandated conservation likely had a greater downward effect on the 2015 Compliance Value.

Although adjustments for weather are allowed, they are not required.³⁶ Because the District’s 2015 Compliance Value demonstrates that the District is in compliance with the statutes, it has elected to not adjust the 2015 Compliance Value for weather. However, it

³⁴ CWC § 10608.12(e).

³⁵ CWC Section 10608.24(d)(1)(A)

³⁶ CWC Section 10608.24(d)(2)

has chosen to adjust the value to understand what 2015 GPCD conditions may have been absent the State conservation mandate so that it can appropriately assess progress toward its 2020 Target GPCD.

One option for the District to understand its progress toward the 2020 Target GPCD is to look at the most recent “average” year, which would be 2012 or 2013. In both of these years there were no mandatory conservation measures, weather was not significantly different than average conditions (though 2013 was the beginning of the current drought cycled), and the region was recovering from the recent recession. The GPCD values for 2012 and 2013 were 177 and 170 gpcd respectively, already well below revised 2020 Target GPCD value of 191 gpcd and the revised 2015 Interim GPCD Target of 215 gpcd (see **Table 4-3**).

Another option is to adjust the 2015 GPCD value to remove the conservation achieved by the District during its efforts to comply with the State’s mandate. The State had mandated the District meet a 28 percent conservation goal between June 2015 and February 2016. Through December 2015, the District successfully achieved a 36.1 percent cumulative savings (compared to 2013 conditions – which was the State’s baseline).³⁷ There are multiple methods to normalize the 2015 water use for the months of June through December. Using a few simple multiplier approaches the actual gross water production in 2015 of 5,311 acre-feet would increase to between 6,500 and 7,000 acre-feet. Using an average of 6,750 acre-feet of normalized 2015 gross water production, the 2015 GPCD would adjust from 111 gpcd to 141 gpcd. This normalized value is still well below the 2015 Interim GPCD Target and the 2020 GPCD Target. From this information, the District concludes that it is on track to achieve its 2020 GPCD Target when it reports the 2020 Compliance Value in its next UWMP update. The District recognizes that a primary factor in this early success was efforts to becoming fully metered and charge customers based upon volumetric use, coupled with the District’s strengthen conservation education and outreach programs.

4.3 Current and Forecast Water Demands

Based on available records for water production, water sales and deliveries, the District’s water demands for the past five years were previously presented in **Table 4-3**. As demonstrated by the populations presented in the table, the District experienced about an 8 percent overall growth since the 2010 UWMP, about 1.5 percent annually. And, as described in **Chapter 2**, the District will continue to experience some modest growth during the 2015 UWMP planning horizon, primarily in Service Area 2.

³⁷Based on report from the SWRCB available at:
http://www.waterboards.ca.gov/water_issues/programs/conservation_portal/docs/2016feb/suppliercompliance_020216.pdf

Forecasting future demand requires assessing several factors: the future water use habits of existing customers that will lower their existing use, the land use plans demonstrating types of anticipated growth, and the various laws and regulations that govern future water use demand factors such as water-efficient fixtures, appliances, and landscaping.

4.3.1 Existing Customers

As described in Chapter 2, the District serves two primary areas within the City of Elk Grove with a variety of residential and non-residential customers with varying uses. Existing potable water customers are categorized into discrete residential and non-residential land-use classifications as presented in **Table 4-4**.

With account numbers and meter data, the existing unit demand factors for each potable water classification can be determined. This information provides a baseline for estimating the future demands of existing customers. **Table 4-4** provides the baseline demand factors for each land use category using 2013 account and meter data. The District believes 2013 was more representative of average conditions, and understood that the data would be skewed if 2014 or 2015 customer use data were used for baseline conditions. This is confirmed further when reviewing the GPCD values in **Table 4-3**.

Because a vast majority of the existing customers reside in Service Area 1 in homes built before the last decade, existing customers' future unit demand factors are assumed to change mostly from drivers such as fixture replacement, the District's conservation awareness and incentive programs, and other factors affecting a general increased awareness of water conservation. A reflection of the impact of these drivers is presented as the unit demand factors for new residences also provided in **Table 4-4**. The future demand factors reflect a reduction from the current value in all categories resulting from expected conservation. This reduction is reasonable as it reflects expected benefits of on-going customer conservation efforts, coupled with the use of 2013 for baseline conditions.

Table 4-4 – Existing Customer Characteristics

Land-class	Existing Customers			Conservation	
	Current (Accounts or Acres)	Current Demand Factors (af/account)	Future Demand Factors (af/account)		
Service Area 1	Residential				
	RD-5 Late 80s	2889	0.58	0.50	14%
	RD-5 Late 70s	2301	0.51	0.43	15%
	RD-7	2308	0.44	0.38	13%
	Mobile Home Park	20	1.42	1.28	10%
	Apartments	37	3.79	3.35	12%
	Non-residential				
	Offices	60	0.28	0.26	5%
	Business Parks	89	1.50	1.35	10%
	Shopping Centers	75	2.63	2.25	14%
	General Commercial	7	3.85	3.30	14%
	Limited Commercial	9	1.22	1.04	14%
	Stand Alone Fast Food	2	4.87	4.17	14%
	Heavy Industry	12	1.62	1.38	14%
	Light Industry	93	0.29	0.25	14%
	Schools	61	1.86	1.77	5%
	Elk Grove HS	41	0.41	0.39	5%
Exist Parks	46	1.97	1.78	10%	
Open Areas	18	3.58	3.07	14%	
Service Area 2	Residential				
	RD-7	838	0.40	0.35	12%
	RD-3	625	0.57	0.48	17%
	RD-5	2269	0.49	0.42	14%
	Large Lots	205	1.35	1.14	15%
	No Yards	141	0.14	0.13	5%
	Apartments	8	3.93	3.37	14%
	Non-residential				
	Offices	2	0.17	0.16	5%
	Business Parks	4	1.84	1.58	14%
	Shopping Centers	42	2.14	1.83	14%
	Grocery Centers	10	3.63	3.45	5%
	Schools	99	2.34	2.11	10%
Exist Parks	44	3.14	2.99	5%	
Open Areas	17	4.48	3.84	14%	

4.3.2 Future Customers

There are several factors that affect the development of future unit water demand, which in turn affect the forecasted water demand for future customers. These factors range from state mandates such as the Cal Green Code and MWELO (discussed later in this section), to changes in the types of housing products being offered. These are

incorporated into the determination of future unit water demand factors, discussed later in this chapter. Characteristics of the most important factors are described below

4.3.2.1 Factors Affecting Future Water Demands

These following factors are generally recognized to result in lower per unit demand factors for future residential and non-residential customers. A brief discussion of each follows:

Water Conservation Objectives:

On November 10, 2009, Governor Arnold Schwarzenegger signed SBX7 7, which required each urban water supplier to reduce their per-capita water use by 2020, with a statewide goal of achieving a 20-percent reduction by 2020.³⁸ As discussed previously, the District has established a 2020 Target GPCD in response to this requirement and is already in compliance with that target.

Achieving the District’s 2020 conservation target will require the District to continue its on-going conservation efforts. But, as illustrated by the compliance analysis previously discussed, the District has already achieved its goal – even when normalizing the data for the last normal water year (2012 and 2013). New customers will likely further reduce the District’s annual GPCD since the factors described below are designed to further reduce per capita water use.

Indoor Infrastructure Requirements

In January 2010, the California Building Standards Commission adopted the statewide mandatory Green Building Standards Code (hereafter the “CAL Green Code”) that requires the installation of water-efficient indoor infrastructure for all new projects beginning after January 1, 2011. The Cal Green Code was revised in 2013 with the revisions taking effect on January 1, 2014. However these revisions do not have substantial implications to the water use already contemplated by the 2010 Cal Green Code.³⁹ The CAL Green Code applies to the planning, design, operation, construction, use and occupancy of every newly constructed building or structure.

All new developments must satisfy the indoor water use standards directed by the CAL Green Code, which essentially require new buildings and structures reduce overall potable water use by 20 percent. Expected future customers will satisfy the standards

³⁸ California Water Code § 10608.20

³⁹ “The 2010 CAL Green Code was evaluated for updates during the 2012 Triennial Code Adoption Cycle. The state evaluated stakeholder input, changes in technology, implementation of sustainable building goals in California, and changes in statutory requirements. As such, the scope of the CAL Green Code was increased to include both low-rise and high-residential structures, additions and alterations.” *Guide to the 2013 California Green Building Standards Code (Residential)*, California Department of Housing and Community Development, 2013.

through the use of appliances and fixtures such as high-efficiency toilets, faucet aerators, on-demand water heaters, or other fixtures as well as Energy Star and California Energy Commission-approved appliances.

California Model Water Efficient Landscape Ordinance

The Water Conservation in Landscaping Act was enacted in 2006, requiring the California Department of Water Resources (DWR) to update the Model Water Efficient Landscape Ordinance (MWELo).⁴⁰ In 2009, the Office of Administrative Law (OAL) approved the updated MWELo, which required a retail water supplier or a county to adopt the provisions of the MWELo by January 1, 2010, or enact its own provisions equal to or more restrictive than the MWELo provisions.⁴¹

In response to the Governor's executive order dated April 1, 2015, (EO B-29-15), DWR updated the MWELo and the California Water Commission approved the revised MWELo on July 15, 2015. The changes include a reduction to 55 percent for the maximum amount of water that may be applied to a landscape for residential projects, which reduces the landscape area that can be planted with high water use plants, such as turf. The MWELo applies to new construction with a landscape area greater than 500 square feet (the prior MWELo applied to landscapes greater than 2,500 sf).⁴² For residential projects, the coverage of high water use plants is reduced to 25 percent of the landscaped area (down from 33 percent in the 2010 MWELo).

It is difficult to predict the ultimate impact of the MWELo requirements on future water demand. While the requirement is for development of a landscape design plan that uses plants and features that are estimated to use no more than 55 percent of ETo, some provision must be made for the inherent tendency to over-water even with irrigation controllers installed, piecemeal changes in landscape design, reductions in irrigation efficiency through product use, and limited resources for enforcement in the absence of dedicated irrigation meters.

California Urban Water Conservation Council BMPs

The District is a signatory to the California Urban Water Conservation Council (CUWCC) Best Management Practices (BMP) Memorandum of Understanding (MOU). Due to this affiliation, the District has modified existing BMPs and implemented others

⁴⁰Gov. Code §§ 65591-65599

⁴¹ California Code of Regulations (CCR), Tit. 23, Div. 2, Ch. 27, Sec. 492.4. The MWELo provides the local agency discretion to calculate the landscape water budget assuming a portion of landscape demand is met by precipitation, which would further reduce the outdoor water budget. For purposes of this 2015 UWMP, precipitation is not assumed to satisfy a portion of the outdoor landscape requirement because the determination of an appropriate effective precipitation factor is highly uncertain given the various landscape slopes, terrain composition, concurrent watering schedules, etc.

⁴² CCR Tit. 23, Div. 2, Ch. 27, Sec. 490.1.

to follow that of the CUWCC. These practices further reduce the District’s demands. Further details on the District’s conservation efforts can be found in **Chapter 5**.

4.3.2.2 Future Unit Demand Factors

When considering the various factors discussed above, coupled with a review of current customer use characteristics, the District has established the demand factors presented in **Table 4-5** for estimating future customer demand. With Service Area 1 mostly built-out, the majority of growth is expected in Service Area 2.

Table 4-5 – Future Customer Accounts and Demand Factors

	Land-class	Future (Accounts or Acres)	Future Demand Factors (af/account)
Service Area 1	Residential		
	RD-5, new	44	0.38
	RD-20/Apt,	75	0.21
	Non-residential		
	Future Comm. Center	45	1.20
	Future Industrial	60	1.50
Service Area 2	Residential		
	Future No Yards	261	0.12
	Future RD-10	172	0.21
	Future RD-5	1242	0.38
	Future Large Lots	137	0.95
	Future Apartments	200	0.21
	Non-residential		
	New Commercial	27	1.20
	New Industrial	64	1.50
	Future Bus/Prof	2	0.70
	Future Schools	10	2.00
Future Parks	21	3.00	

4.3.3 Demand Forecast Summary

Water demand projections within the District’s service area reflect the combination of continued conservation by existing customers and the addition of new customers over the planning horizon.

Table 4-6 provides the summation of this analysis and the resulting expected demands for each 5-year planning horizon.

4.3.4 Distribution System Water Losses

The demand factors presented earlier in this chapter represent the demand for water at each customer location. To fully represent the demand, distribution system losses must also be included. Often, distribution system losses represent water that is lost due to system leaks, fire protection, construction water, unauthorized connections, and inaccurate meters. Essentially, this is the water that is produced by the District's groundwater production wells or purchased from SCWA that does not make it to the customer – either as a real loss or an apparent loss (e.g. such as may result when a customer meter underreports actual use).

In most instances, the predominant source of distribution system losses is from leaks that inevitably exist throughout the many miles of pipes that bring water to the District's customers.

Pursuant to CWC 10631(e)(3)(B), the District must quantify and report the distribution system loss for 2015 using methodology developed by the American Water Works Association (AWWA) and provided as a worksheet through DWR. Using the available worksheet, the District calculated a loss equal to 6.6 percent of the water supplied into the distribution system for Service Area 1. The AWWA spreadsheets are included as **Appendix A-4**. Because of the numerous unmetered interties with SCWA where the District takes delivery of SCWA purchased supplies, the District assumes Service Area 2 system losses are equivalent to those calculated for Service Area 1.⁴³

For purposes of estimating future demand from new connections, the distribution system loss is assumed to remain at 6.6 percent to reflect on-going District programs to address maintain meters, and find and fix identified system leaks.⁴⁴

⁴³ SCWA reflects an additional 3 percent loss for the delivery infrastructure between SCWA's supply sources (e.g. local wells) and the interties with the District. This loss is not within the District's control, but is reflected by SCWA as an additional increment of supply necessary to deliver water to the District, above the system losses experienced by the District's own infrastructure within Service Area 2.

⁴⁴ For purposes of estimating this quantity when viewed from the customer meter looking back to the "beginning" of the water supply distribution system, a slightly higher value is multiplied by the customer demands, then added to those demands to reflect a total projected demand.

Table 4-6 – Projected Water Demands

Land-class			Forecast Demand (af/yr)					
			2020	2025	2030	2035	2040	2045
Service Area 1	Single Family	Existing	3,563	3,385	3,320	3,320	3,320	3,320
		Future	6	14	17	17	17	17
		Subtotal	3,570	3,399	3,337	3,337	3,337	3,337
	Multi-Family	Existing	161	153	150	150	150	150
		Future	0	16	16	16	16	16
		Subtotal	161	169	166	166	166	166
	Non-Residential	Existing	419	399	386	386	386	386
		Future	20	68	122	144	144	144
		Subtotal	439	466	507	530	530	530
	Public	Existing	270	263	260	260	260	260
		Future	0	0	0	0	0	1
		Subtotal	270	263	260	260	260	261
	Subtotal		4,440	4,297	4,270	4,293	4,293	4,294
	System Loss		314	304	302	304	304	304
Service Area 1 Total			4,753	4,601	4,572	4,596	4,596	4,598
Service Area 2	Single Family	Existing	1,924	1,836	1,779	1,779	1,779	1,779
		Future	173	475	581	600	619	638
		Subtotal	2,097	2,311	2,361	2,380	2,399	2,418
	Multi-Family	Existing	31	30	28	28	28	28
		Future	12	73	73	73	73	73
		Subtotal	43	103	102	102	102	102
	Non-Residential	Existing	127	122	118	118	118	118
		Future	28	70	109	129	129	129
		Subtotal	155	192	226	247	247	247
	Public	Existing	421	407	403	403	403	403
		Future	30	84	84	84	84	84
		Subtotal	451	490	487	487	487	487
	Subtotal		2,746	3,097	3,175	3,215	3,234	3,253
	System Loss		194	219	224	227	229	230
Service Area 2 Total			2,940	3,316	3,400	3,442	3,462	3,483
Total District Demand			7,694	7,917	7,972	8,038	8,059	8,080

4.3.5 Low Income Water Demands

CWC Section 10631.1 requires water suppliers to include a projection of water use by lower income households as defined by Health and Safety Code Section 50097.5. The housing element of the City of Elk Grove General Plan provides the income distribution used for this analysis along with info from the US Census website.⁴⁵ This housing element, adopted in February of 2014, uses data from the American Community Survey and provides that the household median income in the City was \$79,457. The income

⁴⁵ City of Elk Grove General Plan 2013-2021 Housing Element, pg 22.

limits for “lower income” come from U.S. Department of Housing and Urban Development’s 2009 income guidelines.⁴⁶

The percentage of low income was derived from the American Community Survey DP03 table. The DP03 table indicated 23,195 of the 48,737 households were below about 80% of median income level which approximates to about 48 percent of all households. For lack of more detailed income distributions, this 48 percent is assumed to remain constant into the future. Using 48 percent of the projected population, a blended demand factor for a mix of single family and multi-family housing units of approximately 0.3 acre-foot per year, and the City’s average of 3.2 people per housing unit, the current and future demand from “lower income” customers is estimated (see **Table 4-7**).

Table 4-7 – Lower Income Demands

AF/Yr	2020	2025	2030	2035	2040
Total Retail Treated	8,059	8,116	8,183	8,204	8,226
Lower Income	2,021	2,230	2,274	2,277	2,280
% of Treated	25.1%	27.5%	27.8%	27.8%	27.7%

⁴⁶ The income guidelines place households who make less than 80% of the median family income for an area as “low income”. This is in line with the CWC 10631.1 income threshold.

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CHAPTER 5. WATER DEMAND MANAGEMENT MEASURES

5.1 District Participation

CWC § 10631 requires that an UWMP include a description of the urban water supplier's water demand management measures. CWC § 10631 also provides that members of the California Urban Water Conservation Council (CUWCC) shall be deemed in compliance with the UWMPA demand management measure requirements by complying with all the provisions of the CUWCC MOU and by submitting the annual reports.⁴⁷

The CUWCC MOU for Best Management Practices (BPM) is organized into five categories. Two categories, utility operations and education, are “Foundational BMPs” because they are considered to be essential water conservation activities by any utility and are adopted for implementation by all signatories to the MOU as ongoing practices with no time limits. The remaining BMPs are “Programmatic BMPs” and are organized into residential indoor and landscape, commercial/industrial/institutional (CII) indoor and landscape, and CII dedicated large landscape categories.⁴⁸ All the categories are outlined in **Table 6-1**.

The District is a current member of CUWCC and has submitted annual reports to the Council, complying with CWC § 10631. A copy of the most recent report from 2013-2014 is available in **Appendix D-1**. As a signatory to the CUWCC MOU, the District is committed to implementing best management practices (BMP) designed to achieve water conservation across existing and future demand sectors. The CUWCC MOU requires that a water utility implement only the BMPs that are economically feasible. The District's continued implementation of the CUWCC BMPs should reduce some of the unit demand factors for its existing connections and help maintain the unit demand factors for future connections.

⁴⁷ CWC § 10631(j)

⁴⁸ <https://www.cuwcc.org/Resources/BMP-Resources>

Table 5-1 – CUWCC BPM Requirements⁴⁹

FOUNDATIONAL BMPS	
1. Utility Operations Programs	
1.1 Operations Practices	
	Staff and maintain the position of a trained conservation coordinator
	Enact and enforce an ordinance designed to prevent water waste
	Enact and enforce an ordinance designed to promote water efficient design in new development
	Enact and enforce an ordinance designed to facilitate water shortage response measures
1.2 Water Loss Control	
	Compile a standard water audit and balance annually
	Improve data accuracy and completeness of water audit during first four years
	During 5th through 10th year, demonstrate progress in water loss control
1.3 Metering with Commodity Rates for All New Connections and Retrofit of Existing Connections	
	Initiate volumetric billing for all metered customers within one year after signing MOU
	Complete meter installations for all connections no later than July 1, 2012
	Assess feasibility of moving mixed-use metered landscape uses to dedicated landscape meters
	Develop a written plan, policy or program to test, repair or replace meters
1.4 Retail Conservation Pricing	
	Develop water rates such that 70% of revenue is generated from volumetric billing
	Develop conservation pricing for retail sewer service
2. Education Programs	
2.1 Public Information Programs	
	Implement public information programs to promote water conservation and water-conservation benefits
2.2 School Education Programs	
	Educate students about water conservation and efficient water use
PROGRAMMATIC BMPS	
3. Residential	
	Develop a Residential Assistance Program - including leak detection assistance, conservation surveys, and efficiency suggestions, as well as provision of high-efficiency appliances
	Perform site-specific landscape water surveys
	Provide financial incentives for, or institute ordinances requiring, purchase of efficient clothes washers
	Provide incentives or ordinances for replacement of toilets using 3.5 or more gallons per flush
4. Commercial, Industrial and Institutional	
	Implement measures to achieve water savings for Commercial, Industrial and Institutional (CII) accounts of 10% compared to baseline water use (i.e., 2008 water use by CII accounts)
5. Landscape	
	Identify accounts with at least one dedicated irrigation meter and assign an ETo based budget of no more than an average of 70% of ETo for metered irrigation uses; "Recreational" areas may be so designated and may use up to 100% of ETo
	Provide notices to irrigation meter customers comparing actual use to the water budget
	Offer site-specific technical assistance to those accounts at least 20% over budget
	Target and market landscape surveys to CII accounts with mixed-use meters, and those CII accounts with large landscapes and offer financial incentives to both

⁴⁹ <https://www.cuwcc.org/Resources/BMP-Resources>

CHAPTER 6. WATER SHORTAGE CONTINGENCY PLAN

As an urban water purveyor, the District must meet the minimum health and safety requirements of a drinking water purveyor at all times. The District has created a Water Shortage Contingency Plan (WSCP) to help meet this goal during water shortages. The full version of this plan can be found in **Appendix D-2**.

The strategy for allocating water during shortages for the District is complex. Detailed discussion of water supply, water shortage actions, catastrophic failure, financial impacts, and prohibitions during shortages is also provided in the District's WSCP. The District adopted its Water Shortage Contingency Plan through Ordinance No. 07-23-14-01. The ordinance provides for emergency water supply management related to general supply shortages due to severe droughts, infrastructure failure, or any other cause. While the current ordinance provides an adequate framework for managing supply shortages, it was also updated to reflect current conditions including the current drought and 20x20 legislation.⁵⁰ The District also coordinates regionally through the SCWA with respect to emergency water shortage planning and response.

6.1 Water Shortage Contingency Resolution

The District's current water shortage contingency plan allows for declaration of water shortages by the Board of Directors. When a shortage occurs, the District Board assesses if the stages of action discussed in **Section 6.2** should be implemented. In 2014, Ordinance No. 07-23-14-02 modified the outdoor irrigation schedule for the WSCP.⁵¹ The Board of Directors further modified the emergency drought regulations on May 26, 2016, to modify the normal water supply conditions, as well as water use prohibitions and recommended practices. A copy of this update can be found in **Appendix D-2**.

6.2 Stages of Action and Reduction Goals

The District has developed a five-stage shortage contingency plan as shown in **Table 6-1**. Each stage corresponds to an increased demand reduction target to align with anticipated supply availability. The shortage contingency plan includes voluntary and mandatory actions that expand under each stage, depending on the cause, severity, and anticipated duration of the water supply shortage. The details of these stages are provided in the WSCP found in **Appendix D-2**.

⁵⁰ FRCD Ordinance 07-23-14-02

⁵¹ FRCD Ordinance 07-23-14-02

Table 6-1 – Drought Stages Contingency Plan

Stage	Water Supply Conditions	Response Actions
Stage 0 - Normal Water Supply	Normal water supplies	Regular water efficiency measures
Stage 1- Water Alert	Slightly restricted water supplies	Added irrigation restrictions and up to a 10% water use reduction
Stage 2 - Water Warning	Moderately restricted water supplies	Greater landscape irrigation restrictions, increased mandatory prohibited uses and up to a 25% water use reduction
Stage 3- Water Crisis	Highly restricted water supplies	No new water connections, excessive usage rate surcharge and up to a 50% water use reduction
Stage 4 - Water Emergency	Severely restricted water supplies	Public health and safety restrictions and over 50% water use reduction

6.3 Mandatory Prohibitions on Water Waste

As part of the WSCP, intentional or unintentional water waste is prohibited and the beneficial use of water is encouraged.⁵² Allowing cooling fixtures to leak, maintaining water features without recirculation devices, watering after a rainfall event, and the use of open hoses are a few examples of actions that would qualify as water waste under the regulation. Details on the prohibited types of use for each stage of action are also outlined below in **Section 6.5**.

6.4 Penalties

The District provides the stages of penalties for violators of the water waste regulation. The penalties are enforced through the application of FRCD Ordinance No. 06-24-15-01. Under normal water supply conditions, for the first violation the District shall issue a written notice of the violation to the customer. For the subsequent violation, a written warning of the violation is sent to the customer. For the third violation within the preceding 12 calendar months a \$100 fine will be imposed and a mandatory water audit will occur.

Under conservation stages, for the first violation the District shall issue a written notice of the violation to the customer. For the subsequent violation, a written warning of the violation is sent to the customer. For the third violation within the preceding 12 calendar months a \$200 fine will be imposed and a mandatory water audit will occur. Customers

⁵² See **Appendix D-2**

will also have the option of attending water school instead of owing the fine. For the fourth violation within the preceding 12 calendar months a \$500 fine will be imposed and a flow restriction device will be installed. For the fifth violation within the preceding 12 calendar months a \$500 fine will be imposed and water service will be shut off.⁵³

6.5 Consumption Reduction Methods

CWC 10632 (a)(1) requires that all water purveyors establish stages of action to be undertaken in the event of a water shortage. The code section also specifies that a 50 percent reduction in supply must be considered and addressed. This specific supply reduction is addressed at Stage Four in **Section 6.5.4**. It should be noted that the following sections on each stage of action are a summary of the key points established by the District in its WSCP. For the full body of text and all the details of each stage please refer to these documents in **Appendix D-2**.

6.5.1 Stage Zero – Normal Water Supply

Stage Zero during normal water supply does not restrict customers use of water. Stage Zero does prohibit customers from wasting water. Water waste includes allowing irrigation water to run off onto an adjoining property, ditch, or gutter; watering within 48 hours of measurable rainfall; using hoses without automatic shutoff nozzles; washing down driveways and other paved areas; failing to repair water leaks; and using non-recirculated water in fountains and water features. Customers are also encouraged to limit their landscape irrigation to three days a week.

6.5.2 Stage One – Water Alert

If water supplies become slightly restricted and the District will be unable to meet all of its demands under normal supply conditions, the Plan calls for Stage 1 drought response. During this stage, customers are informed of possible shortages and asked to voluntarily conserve 10 percent. Additionally, some mandatory restrictions including irrigation restrictions by geographic zones based on a set schedule and not allowing any potable water use for dust control, compaction or trench jetting will be implemented.

6.5.3 Stage Two – Water Warning

Stage 2 is implemented in the event the District is unable to meet all its water demands under Stage 1. The District will continue to encourage community-oriented voluntary conservation measures, enforce some conservation measures and implement mandatory water use reduction. The District is also a member of the Regional Water Authority, which undertakes many regionally-based public outreach programs on behalf of its members to assure consistent messaging throughout the greater Sacramento region.

⁵³ See **Appendix D-2**

Stage 2 activities include a continuation of activities described under Stage 1 and 2, as well as greater conservation and water use restrictions. Stage 2 also restricts landscape watering to two days a week in a two-hour allowable block.

6.5.4 Stage Three – Water Crisis

Stage 3's primary purpose is to reduce water use by 50 percent. In addition to all the voluntary and mandatory restrictions previously implemented under the earlier stages, no new water connections will be added, the maximum system operating pressure is 40 psi and usage above a customers' allotment is billed at 150 percent the normal rate.

6.5.5 Stage Four – Water Emergency

Stage Four's purpose is to ensure the protection of the water supply for all public health and safety purposes. This stage will require reductions in water demand by over 50 percent. Under this stage, all previous conservation restriction will apply, and landscape irrigation will be allowed once a week within a one-hour window.

6.6 Revenue and Expenditure Impacts

When a drought or water shortage occurs, the District's costs will increase due to the additional activities and duties of instituting a stage of action. Not only will there be costs for materials, and time from permanent staff, but additional staff may need to be hired to assist in implementing the WSCP. As conservation measures and requirements increase and the water supply decreases, the District will potentially see a fall in revenue. To combat this and help pay for the expenses discussed above, a drought surcharge may be implemented by the District. This will help compensate for the loss of water revenue and pay for drought related costs. Additional revenue will further be provided by the penalties incurred by excessive water users as discussed in **Section 6.4** and the 150 percent rate increase in Stage 3.

6.7 Conservation Rate Structures

As discussed above in **Section 6.5.4**, a drought surcharge will be added to rates in the event of a water shortage when a customer exceeds their allocation of water.

6.8 Reduction Measuring Mechanism

The District became fully metered in the last few years, since completion of the 2010 UWMP. The District is now able to better measure and track reductions resulting from on-going conservation efforts or implementation of WSCP stages.

6.9 Catastrophic Supply Interruption

In addition to climate, other factors that can cause water supply shortages are earthquakes, chemical spills, dam failures, canal breaks, waterline ruptures, and energy outages at treatment and pumping facilities. With an integrated system that includes several groundwater wells and interties with SCWA, the District has taken adequate steps to protect its customers from unforeseen interruptions.

However, in conjunction with RWA and other interests, the District will continue to participate in the following:

- Regional Disaster Preparedness Plans
- Water System Vulnerability Assessment
- Emergency Response Plan

6.10 Minimum Supply Next Three Years

Pursuant to CWC Section 10632(a)(2), the District is required to estimate the water supplies available for the next three years, specifically 2016, 2017 and 2018. Because of diligent planning efforts, the District believes it has ample water supplies available to meet its demand during this time frame as detailed in **Chapter 3**. Any potential shortfall in supply that may occur will be addressed through combinations of demand reductions as detailed in the WSCP and the use of interties with neighboring purveyors.

However, because the District is fully reliant on groundwater and, as detailed in **Chapter 3**, groundwater conditions underlying the District are stable and sustainable, the District's supply during the next three years will simply equal the anticipated demand.

6.11 Current Drought

The current drought has impacted the District's drought and water shortage plans through Executive Orders and new statewide conservation goals. Executive Order B-29-15 required the District to achieve 25 percent water use reduction by June 2015. Similarly, the 2020 goal for a 20 percent reduction in water use encourages districts and end users to conserve more water. To comply with these conservation goals, the District has continued to promote conservation with all users. The District amended the WCSP in July 2014 with greater outdoor irrigation restrictions and implemented Stage 1.⁵⁴

⁵⁴ FRCD Ordinance No. 07-23-14-02

The District then implemented Stage 2 Plus in light of the continuing drought as of May 2015.⁵⁵ Stage 2 Plus seeks to have the District achieve a reduction in water usage by 28 percent, consistent with the State’s conservation mandate placed upon the District. Furthermore, this stage requires that water shall only be served in dining establishments upon request, no irrigation of medians with potable water and no irrigation during and up to 48 hours after rainfall. The District is now in Stage Zero for a normal water supply as of May 26, 2016.

⁵⁵ See FRCD website.

CHAPTER 7. SUPPLY & DEMAND INTEGRATION

The purpose of this chapter is to compare the total water supply sources available to the District with the total projected water use over the next 25 years, in five-year increments, for a normal water year, a single-dry water year, and multiple dry water years.⁵⁶ Water supply and demand data presented in this section is presented in prior sections of this 2015 UWMP.

7.1 Average Water Year Conditions

Under this water supply scenario, the District would anticipate full availability of its groundwater supplies, both from SCWA and self-supplied. The resulting total supplies are set to match the forecasted demands from **Table 4-6** as shown in **Table 7-1**. As demonstrated, the District projects adequate water supplies through 2045 during average year conditions.

Table 7-1 – Supply and Demand Comparison (Average Year)

(acre-feet/yr)	2020	2025	2030	2035	2040	2045
Supplies	7,694	7,917	7,972	8,038	8,059	8,080
Demands	7,694	7,917	7,972	8,038	8,059	8,080
Difference	0	0	0	0	0	0

7.2 Single Dry Year Conditions

In a single dry year condition, the District does not anticipate reductions to its groundwater supplies.

For purposes of this UWMP, the District’s forecast water demands are expected to increase in a single dry year. This increase represents the generalized expansion of the landscape irrigation season due to limited rainfall – meaning customers begin demanding supplies from the District earlier in the spring than during a normal year when rainfall would otherwise satisfy landscape water needs. Though the increase is dependent on actual conditions, it is represented by adjusting the normal year annual forecast demand value upward by 5 percent for each 5-year increment to 2045. This adjustment reflects rudimentary relationships between, historic use variances and other conditions and is meant only to highlight the anticipated increase in demands for purposes of District planning.

⁵⁶ This is consistent with CWC Section 10635, but extends the period an additional 5 years to provide “20 year” analysis coverage for the intervening years between UWMP updates.

As shown in **Table 7-2**, the District anticipates adequate water supplies through 2045 during single dry year conditions.

Table 7-2 – Supply and Demand Comparison (Single Driest-Year)

(acre-feet/yr)	2020	2025	2030	2035	2040	2045
Supplies	8,078	8,313	8,291	8,280	8,300	8,323
Demands	8,078	8,313	8,291	8,280	8,300	8,323
Difference	0	0	0	0	0	0

7.3 Multiple Dry Year Conditions

For purposes of this 2015 UMWP, the District has assessed a three-year series of dry conditions. As detailed in Chapter 3, the District does not anticipate reductions in available groundwater supplies during these multiple dry years.

Demand, however, will vary across this planning scenario. This variance is represented by setting the forecast demands for the first of three years equal to the demand used in the single dry year scenario. In the second year, the District would anticipate that its water shortage contingency plan (WSCP) would be triggered, resulting in a demand reduction for that year. The District’s WSCP Stage 1 reduction target of 10 percent is assumed (see Chapter 6). Similarly, in the third year, the District would expect further reductions resulting from implementing further WSCP actions. For this third year, the District’s Stage 2 reduction target is assumed to reduce demands by 25 percent.

This resulting analysis has been represented in **Table 7-3**. During each multiple dry year period projected in **Table 7-3**, the District anticipates adequate water supplies being available over the course of multiple dry years.

Table 7-3 – Supply and Demand Comparison (multiple dry years)

Year 1	(acre-feet/yr)	2020	2025	2030	2035	2040	2045
	Supplies	8,078	8,313	8,291	8,280	8,300	8,323
	Demands	8,078	8,313	8,291	8,280	8,300	8,323
	Difference	0	0	0	0	0	0
Year 2		2020	2025	2030	2035	2040	2045
	Supplies	7,271	7,481	7,462	7,452	7,470	7,490
	Demands	7,271	7,481	7,462	7,452	7,470	7,490
	Difference	0	0	0	0	0	0
Year 3		2020	2025	2030	2035	2040	2045
	Supplies	6,059	6,234	6,218	6,210	6,225	6,242
	Demands	6,059	6,234	6,218	6,210	6,225	6,242
	Difference	0	0	0	0	0	0

June 22, 2016

TO: Chairman and Directors of the Florin Resource Conservation District
FROM: Jim Malberg, Finance Manager/Treasurer
SUBJECT: **FLORIN RESOURCE CONSERVATION DISTRICT – FISCAL YEAR
2016-17 BUDGET**

RECOMMENDATION

It is recommended that the Board of Directors of the Florin Resource Conservation District adopt Resolution No. 06.22.16.03 approving the Florin Resource Conservation District Fiscal Year 2016-17 Budget.

Summary

District staff, guided by the Finance Committee, has developed the proposed Florin Resource Conservation District (FRCD) Fiscal Year (FY) 2016-17 Budget for the Board's consideration.

By this action, the Board would approve the proposed FRCD FY 2016-17 Budget containing projected revenues of \$75 and projected expenditures of \$41,821.

DISCUSSION

Background

The Florin Resource Conservation District (FRCD) has a fiscal year that runs from July 1 to June 30. For the forthcoming fiscal year, staff initiated a program in April to prepare the FRCD FY 2016-17 budget, along with the Elk Grove Water District Budget and the Economic Development Corporation budget.

On June 8, 2016, Staff presented the FRCD Board a preliminary proposed FY 2016-17 FRCD Budget for review.

June 22, 2016

FLORIN RESOURCE CONSERVATION DISTRICT – FISCAL YEAR 2016-17 BUDGET

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Present Situation

The proposed FRCD FY 2016-17 Budget is attached for the Board's consideration.

FINANCIAL SUMMARY

Proposed revenues for the FY 2016-17 are projected to be \$75. The total expenditures for the FY 2016-17 Budget of \$41,821 includes operating expenditures as follows:

- | | |
|-----------------------|-----------|
| • Salaries & Benefits | \$ 26,566 |
| • Insurance | \$ 2,875 |
| • Bank Charges | \$ 30 |
| • Accounting Services | \$ 350 |
| • Election Costs | \$ 12,000 |

The Fund Balance for the Florin Resource Conservation District is expected to decrease from \$87,021 to \$45,274.

Respectfully submitted,



JIM MALBERG
FINANCE MANAGER/TREASURER

Attachment:

RESOLUTION NO. 06.22.16.03

**RESOLUTION OF THE BOARD OF DIRECTORS OF THE FLORIN RESOURCE
CONSERVATION DISTRICT APPROVING THE FLORIN RESOURCE
CONSERVATION DISTRICT FISCAL YEAR 2016-17 BUDGET**

WHEREAS, the Florin Resource Conservation District has held several public meetings to review the proposed revenues and expenditures for the Florin Resource Conservation District for the Fiscal Year July 1, 2016 through June 30, 2017, and

WHEREAS, and the Board has received and considered the proposed Florin Resource Conservation District FY 2016-17 Budget submitted by the Finance Manager/Treasurer on June 22, 2016.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Florin Resource Conservation District, hereby:

1. Approve the Total Revenues of \$75 for the proposed Florin Resource Conservation District FY 2016-17 Budget.

2. Approve the Total Expenditures of \$41,821 for the proposed Florin Resource Conservation District FY 2016-17 Budget.

3. Authorize the General Manager to redistribute allocated budgeted amounts between line items with the budget categories.

PASSED, APPROVED, AND ADOPTED this 22nd day of June, 2016.

AYES:

NOES:

ABSENT:

ABSTAIN:

Chuck Dawson
Chairman of the Board of Directors

ATTEST:

Stefani Phillips
Secretary to the Board of Directors

**Florin Resource Conservation District
Proposed Budgeted Accounts Detail
For the Fiscal Year Ending June 30, 2017**

Description	FY 2012-13 Actual	FY 2013-14 Actual	FY 2014-15 Actual	FY 2015-16 Budget	FY 2015-16 Projected	FY 2016-17 Budget
REVENUES						
4700 Lease Revenue - Elk Grove Florin Property	\$ 9,533	\$ 5,467	\$ 2,533	\$ -	\$ -	\$ -
Other Reimbursements/Property Sale		87,712	10,162		354	
Repair and Maintenance Reserves	-	-		-	-	-
Interest Earnings	17	50	110	100	100	75
Total Revenues	9,550	93,229	12,805	100	454	75
EXPENDITURES						
5100 Salary & Benefits	-	-		-	8,875	26,566
5300 Airfare	-	-	498	-	-	-
5310 Hotels	-	-	134	-	-	-
5320 Meals	-	-	42	-	-	-
5330 Auto Rental	-	-	37	-	-	-
5340 Seminars & Conventions	-	-	525	-	-	-
5350 Mileage Reimbursement, Parking, Tolls	-	-	20	-	-	-
5415 Association Dues	350	400	300	400	-	-
5410 Advertising	3,893	175	1,078	250	-	-
5280 Meetings	210	100	250	250	-	-
5420 Insurance	77	71	1,508	1,500	1,470	2,875
5435 Repairs and Maintenance Automotive/Fuel	7,613	-	30	50	-	-
5475 Office Supplies & Expenses	-	256	100	150	275	-
5455 Postage	-	-	-	-	-	-
5510 Bank Charges	820	1,729	-	30	30	30
5520 Contracted Services	6,616	6,500	5,001	26,500	20,000	-
5525 Accounting Services				-	250	350
5535 Legal Services	-	26,011	2,361	5,000	3,925	-
5545 Public Relations	2,000	1,925	1,920	2,000	-	-
9950 Election Costs			9,872	-	-	12,000
9960 Program Costs		-	-			
Total Expenditures	21,579	37,167	23,676	36,130	34,825	41,821
Change in Balance	(12,029)	56,064	(10,870)	(36,030)	(34,371)	(41,746)
Beginning Balance	88,227	76,198	132,261	121,391	121,391	87,021
Ending Fund Balance	76,198	132,261	121,391	85,361	87,021	45,274

June 22, 2016

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Jim Malberg, Finance Manager/Treasurer

SUBJECT: **ELK GROVE WATER DISTRICT FISCAL YEAR 2016-17 OPERATING BUDGET**

RECOMMENDATION

It is recommended that the Board of Directors of the Florin Resource Conservation District adopt Resolution No. 06.22.16.04 approving the Elk Grove Water District Fiscal Year 2016-17 Operating Budget.

Summary

Elk Grove Water District staff, guided by the Finance Committee, has developed the proposed Elk Grove Water District's (EGWD) Fiscal Year (FY) 2016-17 Operating Budget for the Board's consideration. A revenue adjustment of three and one half percent (3.5%), to be implemented in January 2017, is included in this budget.

By this action, the Board would approve the proposed EGWD FY 2016-17 Operating Budget containing revenues of approximately \$13,745,658, and projected expenditures of approximately \$13,726,243 including deposits into the Repair and Replacement and Long-Term Capital Improvement Reserves. The projected revenues in excess of expenditures are approximately \$19,415 which will be contributed to reserves.

DISCUSSION

Background

The EGWD is a department of the Florin Resource Conservation District (FRCD) and has a fiscal year that runs from July 1 to June 30. Staff initiated a program in April to prepare the EGWD FY 2016-17 budget and this budget should be adopted by June 30, 2016. Staff has continued a process that involves multiple Board reviews with public participation being encouraged.

ELK GROVE WATER DISTRICT FISCAL YEAR 2016-17 OPERATING BUDGET

Page 2

Staff presented the first draft of the proposed FY 2016-17 Operating Budget to the Board at the May 11, 2016 Finance Committee meeting. A second draft was also presented at the June 8, 2016 Finance Committee meeting.

During those meetings, staff received direction from the Board and has made the requested changes as directed. These changes are included in the attached budget document being recommended for adoption.

Present Situation

Staff is presenting the proposed EGWD FY 2016-17 Operating Budget. This budget does not include expenditures for the Capital Improvement Program (CIP) for FY 2016-17. The CIP is scheduled for adoption on June 22, 2016 as well, prior to this agenda item.

Environmental Considerations

There is no environmental action associated with this item.

Strategic Plan Conformity

This item, and all other budget related activities, conforms to the FRCD/EGWD's 2012-2017 Strategic Plan. Adoption of an annual EGWD budget is specifically identified as a goal in the financial stability challenge section of the Strategic Plan.

FINANCIAL SUMMARY

The EGWD FY 2016-17 budget projects total revenues of approximately \$13.746 million and total expenditures of approximately \$13.726 million including deposits into the Repair and Replacement and Long-Term Capital Improvement Reserves of approximately \$1.70 million. The projected revenues in excess of expenditures are approximately \$19,415 which will be contributed to reserve funds. This budget includes a revenue adjustment of 3.5% starting in January 2017.

ELK GROVE WATER DISTRICT FISCAL YEAR 2016-17 OPERATING BUDGET

Page 3

Despite many non-discretionary cost increases, staff undertook exhaustive efforts to find cost reductions and these are reflected in the proposed FY 2016-17 budget. The proposed budget has an increase in total operating expenditures of \$340,293 (2.54%) from the adopted budget for FY 2015-16. The major highlights are listed below and comparisons made are against the budgeted amounts for FY 2015-16.

- This budget includes a 3.5% revenue adjustment beginning in January 2017. This is based on the recommendations in the 2013 Water Rate Study presented and approved by the Board on June 26, 2013.
- Total Salaries and Benefit costs will increase by \$523,581 (14.54%).
 - Salary costs will increase slightly due to a proposed 1.30% cost of living adjustment. This year's budget includes \$117,743 for Holiday Pay, as well as amounts for vacation and personal time pay, with reductions being made to reflect the Executive, Exempt and Non-Exempt Salaries by like amounts.
 - Total benefits costs will increase \$183,933 (14.37%). Retirement Benefit costs will increase by \$77,166 (25.93%) and Worker's Compensation costs will increase by \$14,598 (14.89%). The Post Employment Retirement Benefits will increase by \$3,362 (3.36%) as the result of the actuarial valuation being updated reflecting the change in the beneficiary population and the current trends in projected medical cost increases.
 - Education Assistance will decrease by \$9,000 (50.00%) for employees pursuing job-related education that will enhance their skills and abilities.
- Total Office and Operational Costs will increase by \$52,387 (5.27%).
 - Advertising will increase \$29,300 primarily due to increased public outreach.
 - Association Dues will increase by \$25,382 (35.17%) primarily due to increased subscription services with the Regional Water Authority.
 - Repairs and Maintenance - Automotive will decrease by \$12,500 (31.02%) due to costs experienced in the current fiscal year.
 - Repair and Maintenance – Equipment will decrease by \$44,650 (41.34%) due costs experienced in the current fiscal year.
 - Staff reviewed the current year's expenditures for Materials and determined that the budget could be reduced by approximately \$116,000 (56.31%).

ELK GROVE WATER DISTRICT FISCAL YEAR 2016-17 OPERATING BUDGET

Page 4

- Chemical expense will increase by \$103,000 related to costs associated with operating the Hampton Village Water Treatment Plant.
- Permit costs will increase by \$45,180 due to anticipated costs for the Sacramento Groundwater Management Authority.
- Communication costs will increase by \$7,104 (24.08%) as 3 more well sites are added to the SCADA communication network.
- The Purchased Water line item will increase by \$31,025 (1.07%) due to anticipated slight increase in consumption. Variable rate charges by Sacramento County Water Agency (SCWA) are anticipated to remain relatively flat at \$1.18 per hundred cubic feet (ccf). In addition, the SCWA base charge is anticipated to remain the same at \$28.80 per account, per month.
- Outside Services for the proposed budget will increase by \$41,818 (5.15%)
 - Bank charges will increase \$33,600 (53.58%) as a result of a change in investment strategy and will be offset by increased investment earnings.
 - Contracted Services will increase by \$43,965 (17.67%) primarily due to the estimated costs associated with the safety consultant.
 - Water Conservation Services will increase by \$12,500 for consulting services related to continuing conservation efforts.
 - Engineering costs will decrease by \$30,000 (37.50%) as the Filter Evaluation Study has been eliminated.
 - Sampling will decrease by \$10,647 (23.32%) due to reduced requirements for FY 2016-17.
- Equipment Rent, Taxes and Utility costs will decrease by \$58,587 (13.21%) as a result of decreased electricity costs.
- Capital Improvement Funding now includes contributions to the Repair & Replacement Reserve as well as the Long-Term Capital Improvement Reserve for a total of \$1,700,000.
- Bond retirement and related interest expenses have decreased by \$457,340 due to the refinancing of \$16 million of existing debt. The anticipated annual

June 22, 2016

ELK GROVE WATER DISTRICT FISCAL YEAR 2016-17 OPERATING BUDGET

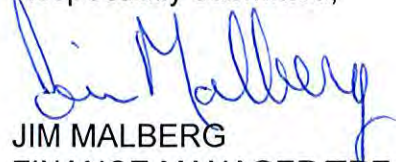
Page 5

budget savings for the remaining term of the outstanding debt is \$194,000. There is also an increase of \$108,000 in the budget for election costs anticipated in 2016.

- This budget anticipates capitalizing \$528,352 of Salaries and Benefit for capital improvements constructed by the Distribution and Utility Departments, which are funded in the Five-Year Capital Improvement Program.
- The budget as recommended will meet all bond covenant requirements as follows:
 - Covenant No. 1 - No longer required
 - Covenant No. 2 – 1.53 (1.15 required)
- To maintain conservative fiscal practices, the proposed EGWD FY 2016-17 Budget does not reflect grants or any other type of special funding.

The attached EGWD FY 2016-17 Operating Budget contains many schedules and graphs detailing the recommended budget. Staff is recommending that the Board of Directors approve Resolution No. 06.22.16.04, approving the proposed Elk Grove Water District Fiscal Year 2016-17 Operating Budget.

Respectfully submitted,



JIM MALBERG
FINANCE MANAGER/TREASURER

JM

Attachments

RESOLUTION NO. 06.22.16.04

RESOLUTION OF THE BOARD OF DIRECTORS OF THE FLORIN RESOURCE CONSERVATION DISTRICT APPROVING THE ELK GROVE WATER DISTRICT FISCAL YEAR 2016-17 OPERATING BUDGET

WHEREAS, the Florin Resource Conservation District (FRCD) has held several public meetings to review the proposed revenues and expenditures for the Elk Grove Water District for the Fiscal Year July 1, 2016 through June 30, 2017; and

WHEREAS, and the Board has received and considered the proposed Elk Grove Water District FY 2016-17 Budget submitted by the Finance Manager/Treasurer on June 22, 2016.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Florin Resource Conservation District, hereby:

1. Approve the Total Revenues of \$13,745,658 for the proposed Elk Grove Water District FY 2016-17 Budget.
2. Approve the Total Expenditures of \$13,726,243 for the proposed Elk Grove Water District FY 2016-17 Budget.
3. Authorize the General Manager to redistribute allocated budgeted amounts between line items within the budget categories.
4. Approve FY 2016-17 Rate and Fee Schedule .
5. Approve FY 2016-17 Salary Schedule.

PASSED, APPROVED, AND ADOPTED this 22nd day of June 2016.

AYES:
NOES:
ABSENT:
ABSTAIN:

Chuck Dawson
Chairman of the Board of Directors

ATTEST:

Stefani Phillips
Secretary to the Board of Directors

“ELK GROVE WATER DISTRICT FISCAL YEAR 2016-17 OPERATING BUDGET.”

[Attached behind this cover page]

Elk Grove Water District
Fiscal Year 2016-17
Operating Budget



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BUDGET HIGHLIGHTS

FISCAL YEAR 2016-17

The Elk Grove Water District (EGWD) budget for fiscal year (FY) 2016-17 projects total operating revenues of approximately \$13.746 million and total expenditures of approximately \$13.726 million including Capital Improvement and Capital Repair & Replacement Reserve contributions of approximately \$1.7 million. The projected revenues in excess of expenditures are approximately \$19,400 which staff is recommending to be contributed to reserves. This budget includes a revenue adjustment of 3.5% starting in January, 2017.

Despite many non-discretionary cost increases, staff undertook exhaustive efforts to find cost reductions as well as minimize increases and these are reflected in the proposed FY 2016-17 budget. The proposed budget has an increase in total operating expenditures by \$590,643 (6.72%) from the adopted budget for FY 2015-16. The major highlights are listed below and comparisons made are against the budgeted amounts for FY 2015-16.

- This budget includes a revenue adjustment of 3.5% beginning in January, 2017. This is based on the recommendations in the 2013 Water Rate Study presented and approved by the Board on April 22, 2013 and a public hearing which adopted the recommended five year rate schedule on June 26, 2013.
- This budget is also based on three positions that are currently vacant will be filled during FY 2016-17; the Program Manager, Associate Civil Engineer and Administrative Assistant II.
- The Total Salaries and Benefit budgeted costs will increase by \$523,581 (14.54%).
 - Salary costs will increase by a proposed 1.30% cost of living adjustment. While this year's budget includes \$117,743 for Holiday Pay, \$115,933 for vacation pay and \$81,213 for personal time off pay, with reductions being made to reflect the Exempt and Non-Exempt Salaries by like amounts. In order to improve transparency no such allocation is made to the General Manager's salary which caused an increase of 34.90%.
 - Total benefits costs will increase \$178,287 (15.70%). Medical Benefits are increasing by \$81,213 (13.04%), Dental/Vision/Life Insurance is increasing by \$11,158 (19.29%), Retirement Benefit costs are increasing by \$77,166 (25.93%), and Worker's Compensation costs are increasing by \$14,598 (14.89%).

Elk Grove Water District Fiscal Year 2016-17 Operating Budget

June 22, 2016

- Education Assistance will decrease by \$9,000 (-50.00%) based on prior years actual expenditures for employees pursuing job-related education that will enhance their skills and abilities.
- Seminars, Conventions and Travel will remain relatively flat with an overall increase of \$420 (0.95%).
- Total Office and Operational Costs will increase by \$52,387 (5.27%).
 - Advertising is increasing by \$29,300 (472.58%) primarily due to increased public outreach.
 - Association dues are increasing by \$25,382 (35.17%) primarily due to increased subscription services with the Regional Water Authority (RWA).
 - Repair and Maintenance – Automotive is decreasing by \$12,500 (31.02%) due decreased costs as vehicles have been replaced.
 - Repair and Maintenance – Equipment is decreasing by \$44,650 (41.34%) due to decreased costs experienced in the current fiscal year.
 - Fuel is decreasing by \$12,000 (18.87%) due to decreased costs experienced in the current fiscal year.
 - Staff reviewed the current year's expenditures for Materials and determined that the budget could be reduced by an additional \$116,000 (56.31%).
 - Chemicals are increasing by \$103,000 in anticipation of bringing the Hampton Village Water Treatment Plant back on line.
 - Meter Repairs are increasing an additional \$3,000 as this is a relatively new cost now that EGWD is fully metered.
 - Permits are increasing \$45,180 (114.03%) due to new fees related to Sacramento Groundwater Management Authority.
 - Postage costs are increasing by \$13,100 (22.09%) due to increased costs anticipated with increased public outreach.
 - Safety Equipment is increasing by \$8,150 (68.20%) as EGWD's continues to enhance its safety program.
 - Software Programs & Updates is decreasing \$13,817 (12.71%) due to decreased costs in Operations.
 - Tool costs are increasing by \$7,171 (134.57%) based on anticipated increased costs in Operations.
- Purchased Water will increase by \$31,025 (1.07%) due to increased consumption as mandatory drought related conservation efforts have been reduced by the State. Variable rate charges by the Sacramento County Water Agency (SCWA) are anticipated to remain relatively flat at \$1.18 per ccf. In addition, the SCWA base charge is anticipated to remain the same at \$28.80 per account, per month.

Elk Grove Water District Fiscal Year 2016-17 Operating Budget

June 22, 2016

- Outside Services for the proposed budget are being increased by \$41,818 (0.35%). The primary increases are:
 - Bank Charges will increase by \$33,600 (53.85%) due to changes implemented to the investment of District cash and an increase in the number of customers utilizing credit cards to make payment to the District.
 - Contracted Services will increase \$39,000 for safety consultant related costs.
 - Water Conservation Services is a new category added in FY 2015-16 and will increase \$12,500 (62.50%) based on costs realized in the current fiscal year.
 - Engineering costs will decrease by \$30,000 (37.50%) based on costs realized in the current fiscal year.
 - Sampling will decrease by \$10,647 (23.32%) primarily due to decreased requirements in FY 2016-17.
 - Board Secretary/Treasurer has been eliminated and will decrease by \$3,000 (100.00%) as a result of the approval of the Human Resources Administrator position.
- Equipment Rent, Taxes and Utility costs will decrease \$58,587 (13.21%) as a result of decreased equipment rental costs and utility costs primarily electricity.
- Capital Improvement Funding includes contributions to the Repair & Replacement Reserve as well as the Long-Term Capital Improvement Reserve for a total of \$1,700,000 which is an increase of \$150,000 (9.68%).
- Bond retirement and related interest expenses will decrease by \$467,340 (21.00%) due to the refinancing of debt in FY 2014-15 and again in FY 2015-16. The overall budget savings for FY 2016-17 is approximately \$786,713 when compared to the original debt service schedule. In FY 2017-18 through FY 2032-33, at which point the debt will be retired, annual debt service will level out at approximately \$3.9 with average annual savings of \$194,000.
- There is an increase of \$108,000 in the budget for 2016 election costs.
- This budget anticipates capitalizing \$528,352 of Salaries & Benefits for capital improvements constructed by the Distribution and Utility Departments, which are funded in the Five-Year Capital Improvement Program.
- The budget as recommended will meet all bond covenant requirements as follows:
 - Covenant No. 1 – No longer required
 - Covenant No. 2 – 1.54 (1.15 required)

Elk Grove Water District Fiscal Year 2016-17 Operating Budget
June 22, 2016

- The Board will adopt a Five-Year Capital Improvement Program (CIP) which will only appropriate funding for the CIP projects scheduled in FY 2016-17.
- Staff has determined that Grants or Special Funding are not currently available. Therefore, no revenues from these income sources are included in this budget document.

More detailed information is available in the following budget.

ELK GROVE WATER DISTRICT FINANCIAL OVERVIEW

Introduction

The Elk Grove Water District (EGWD) is a Department of the Florin Resource Conservation District (FRCD). The FRCD acquired the Elk Grove Water Works in 1999 from a local family who had owned and operated the water utility as a private water company for 103 years. This acquisition changed the governance of the water utility from private ownership to a publically owned and operated agency. The FRCD also structured this agency as an enterprise-funded department of the FRCD thereby keeping all financial activities of the water utility separate from other activities of the FRCD.

The FRCD and EGWD are governed by an elected five member Board and advice from volunteer associate Board members. Board members serve four year, staggered terms. Two director's terms will end in December 2016, so therefore election costs are included in this year's budget. The Board of Directors delegates the daily operations of EGWD to the General Manager, who supervises the work of 30 staff members.

EGWD provides water to nearly 12,200 homes and businesses in Elk Grove. Much of the water supplied is produced by wells located throughout Elk Grove and the treatment and storage facility on Railroad Street. EGWD produces over 1.3 billion gallons of water each year providing supply to approximately two-thirds of the EGWD service area. The remaining area is supplied with purchased water from the Sacramento County Water Agency under a long term agreement. The EGWD also has a robust Capital Improvement Program which includes many projects to maintain outstanding customer service and water quality that meets all drinking water standards.

Accounting and Financial Practices

EGWD's accounting and budgetary records are maintained using the accrual basis of accounting. The revenues of the EGWD are recognized when they are earned and the expenses are recognized when they are incurred. The budget detailed in this document is used as a management tool for projecting and measuring revenues and expenses.

The Board of Directors and Staff of the FRCD/EGWD remain committed to prudent, conservative financial practices, with goals of continuing to reduce long-term debt and funding capital improvements on a pay as you go basis.

The EGWD has also completed efforts to review its rates and fees with the intent of attaining long-term stability and maintaining sufficient debt service coverage required by its outstanding bond covenants.

Current Financial Plans

Revenues are received entirely through water rates and fees. On April 24, 2013 a Water Rate Study was approved by the Board, subject to the receipt and consideration of protests and comments before and during a public hearing conducted on June 26, 2013. On June 26, 2013, the Board conducted the public hearing and adopted the rate study recommendations for a five-year rate structure. The water rate study recommended rate adjustments over the next five years beginning on January 1, 2014, as follows:

- January 1, 2014 - 3%
- January 1, 2015 – 3%
- January 1, 2016 – 3%
- January 1, 2017 – 3.5%
- January 1, 2018 – 4.5%

The rate adjustments are necessary to fund various projects and to pay for increased operations cost, primarily due to inflation.

Long-Term Financial Planning

With the approval of the 2013 Water Rate Study, and associated rate ordinance, the EGWD has a five-year plan that provides for the stable funding of operations, capital projects and debt service. Within this plan, the EGWD restructured approximately \$32.3 million of outstanding bonded indebtedness in December 2014 and \$16.4 million in June 2016 to provide an average annual savings of \$194,000 over the remaining term of the debt. It should be noted that the District contributed \$1.5 million of reserve funds in order to reduce the remaining term of the debt by 13 years and maintain annual debt service savings on the refinanced bonds. This will assist in mitigating future revenue adjustments. It is anticipated that the next five-year rate study will be conducted in FY 2018-19.

Staff conducts a review of the expenditures and revenues on an annual basis to see if the scheduled rates can be mitigated if possible. The current review of the annual and projected expenses reflects that the scheduled revenue adjustment for January 1, 2017 of 3.5% should be reflected in the FY 2016-17.

Pension and other Post-Employment benefits

The EGWD's retirement program remains with the California State Public Employees Retirement System (PERS). The EGWD currently pays the employer costs and a portion (one percent) of the employees' tax-deferred member contributions to the system monthly. The EGWD provides post-employment healthcare benefits to retirees and their dependents. Two retired employees receive these benefits, which is financed through a trust fund that the EGWD funds on an annual basis. The EGWD pays the medical, dental, and vision insurance premiums for employees (and qualified spouse) that are enrolled in the health insurance plan. The current requirements for eligibility are: attaining age 55, having at least fifteen years continuous service, and retiring from the EGWD.



TIMELINE FOR FISCAL YEAR 2016-17 FINANCIAL ACTIVITIES

April 18, 2016	Initiate Audit of the FY 2015-16 Financial Statements
June 22, 2016	Present Proposed 2016-17 Budget to the Board for approval
Mid-September, 2016	Complete the FY 2015-16 Financial Statements
Late September, 2016	Complete the FY 2015-16 Audit Report
October 26, 2016	Submit the FY 2015-16 Audit to the Board for approval
October 26, 2016	Present to the Board the FY 2016-17 1 st Quarter Financial Report
January 1, 2017	Implement the 4 th year revenue adjustment associated with the 2013 Water Rate Study and associated rate ordinance
January 25, 2017	Present to the Board the FY 2016-17 2 nd Quarter Financial Report
March, 2017	Conduct additional rate modeling to determine the necessity of the 5 th year revenue adjustment as prescribed in the 2013 Water Rate Study
March 22, 2017	Present to the Board the results of the water rate modeling effort
April 1, 2017	Initiate preparation of the FY 2017-18 Operations and Capital Improvement Program Budgets
April 26, 2017	Present to the Board the FY 2016-17 3 rd Quarter Financial Report
Early May, 2017	Conduct 1 st budget workshop with the Finance Committee
Early June, 2017	Conduct 2 nd budget workshop with the Finance Committee
June 28, 2017	Present Proposed 2017-18 Budget to the Board for approval

Elk Grove Water District Fiscal Year 2016-17 Operating Budget

June 22, 2016

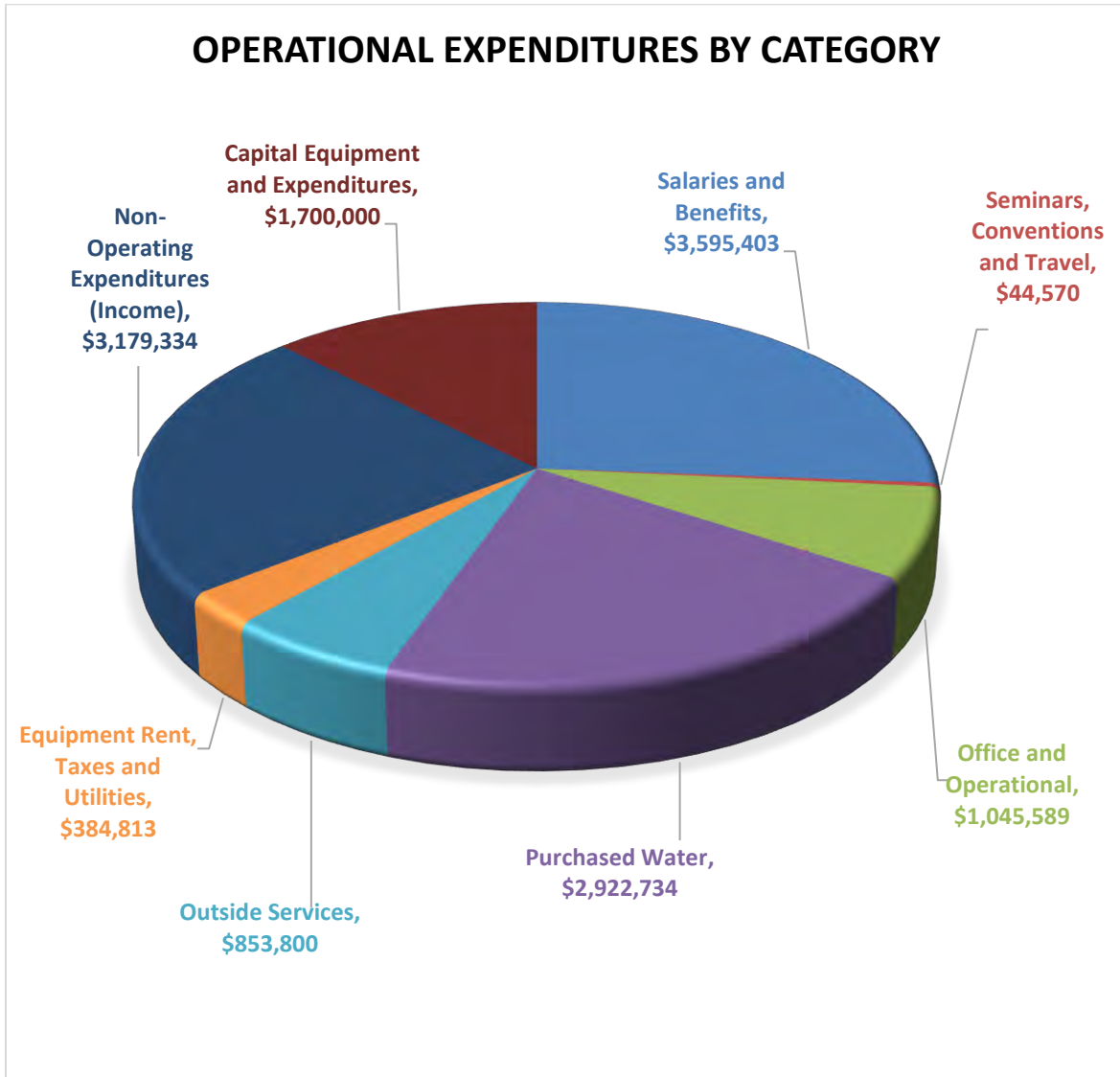
**Elk Grove Water District
Budgeted Revenues and Expenditures by Category
For the Fiscal Year ending June 30, 2017**

Expenditure	Page Reference	General Ledger Reference	FY 13-14 Actual	FY14-15 Actual	FY15-16 Budget	FY15-16 Projected	FY16-17 Budget	Change in Budget
Revenues	Page 18	4100 - 4900	\$ 13,435,194	\$ 13,185,839	\$ 13,385,949	\$ 13,074,100	\$ 13,745,658	\$ 359,709
Salaries and Benefits	Page 21	5100 - 5280	2,829,645	3,196,675	3,600,175	3,646,423	4,123,755	\$ 523,581
Seminars, Conventions and Travel	Page 24	5300 - 5375	18,650	26,659	44,150	41,700	44,570	\$ 420
Office and Operational	Page 26	5410 - 5494	786,482	1,025,927	993,202	666,350	1,045,589	\$ 52,387
Purchased Water	Page 26	5495 - 5495	2,656,509	2,587,097	2,891,709	2,252,217	2,922,734	\$ 31,025
Outside Services	Page 29	5505 - 5580	482,614	753,921	811,983	600,193	853,800	\$ 41,818
Equipment Rent, Taxes and Utilities	Page 29	5620 - 5760	394,788	339,590	443,400	285,104	384,813	\$ (58,587)
Subtotal Operational Expenditures			7,168,688	7,929,869	8,784,618	7,491,986	9,375,261	\$ 590,643
Less: Capitalized Expenditures*	Pages 21 & 26		(538,181)	(470,098)	(509,238)	(509,238)	(528,352)	\$ (19,114)
Total Operational Expenses			6,630,507	7,459,771	8,275,380	6,982,749	8,846,909	\$ 571,529
Non-Operating Expenditures (Income)	Page 32	5810 - 9973	6,016,040	4,222,899	3,560,569	3,645,069	3,179,334	\$ (381,235)
Capital Equipment and Expenditures	Page 32	1705 - 1760	131,290	-	1,550,000	1,550,000	1,700,000	\$ 150,000
Total Net Expenditures			12,777,837	11,682,670	13,385,949	12,177,817	13,726,243	\$ 340,293
Revenues In Excess of Expenditures, Principal Retirement and Capital Expenses			\$ 657,357	\$ 1,503,169	\$ (0)	\$ 896,283	\$ 19,415	\$ 19,415

* This represents 70% of Salary, Benefits and Material Costs of the Utility Division which will be charged to the Capital Improvement Program

Required	Ratio
1.15	1.53
Net Income	\$ 4,898,749
Debt Service	\$ 3,197,900

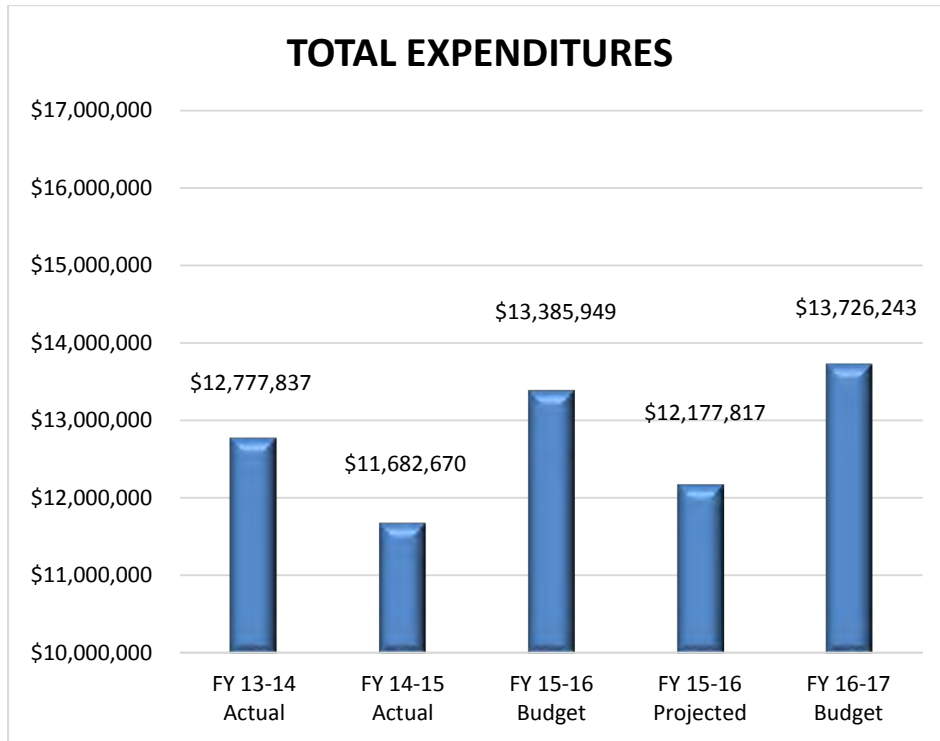
TOTAL NET EXPENDITURES \$13,726,243



The Total Net Expenditures are net of capitalized expenses of \$528,352 for the labor costs associated with the capital projects constructed by the Distribution and Utility Departments.

TOTAL NET EXPENDITURES

FISCAL YEARS 2013-14 THROUGH 2016-2017



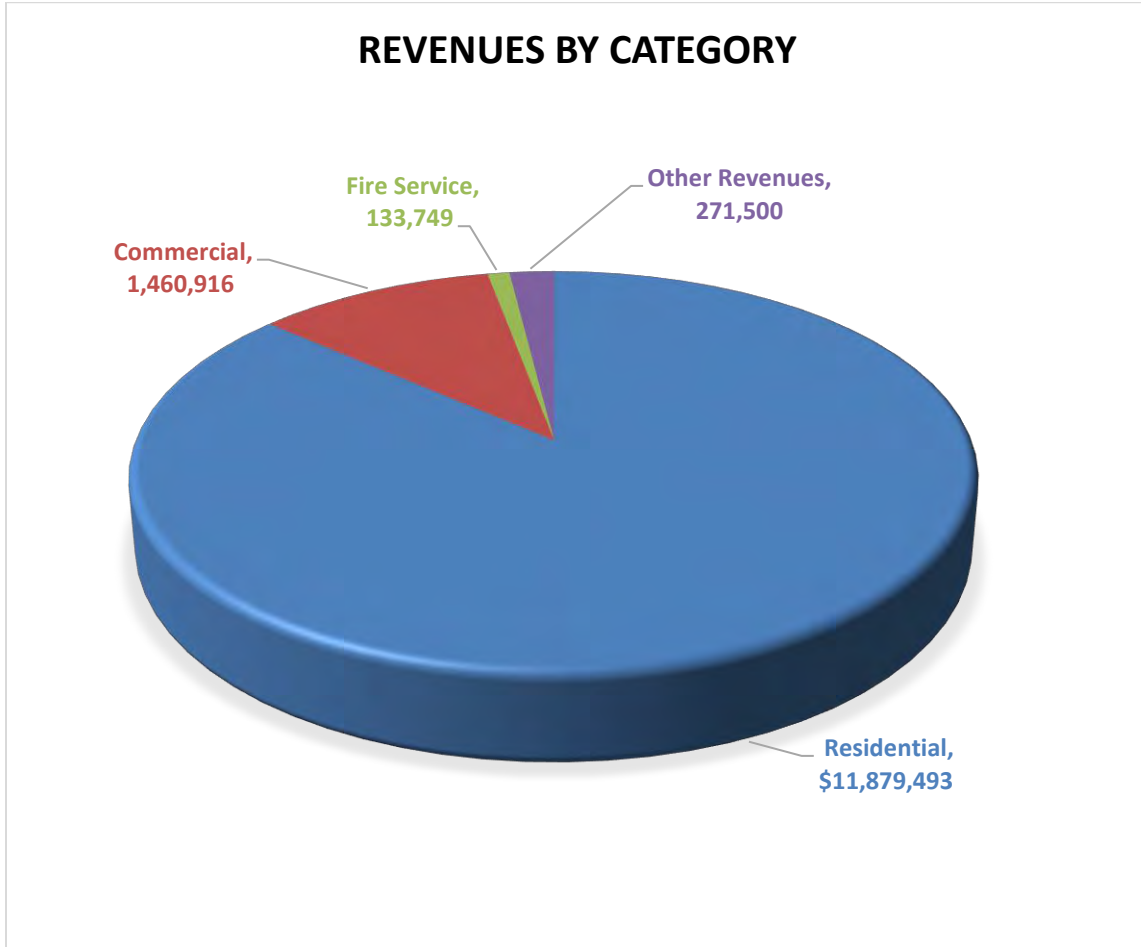
Elk Grove Water District Fiscal Year 2016-17 Operating Budget

June 22, 2016

**Elk Grove Water District
Budgeted Revenue Accounts Detail
For the Fiscal Year ending June 30, 2017**

Account#	Description	FY 13-14 Actual	FY 14-15 Actual	FY 15-16 Budget	FY 15-16 Projected	FY 16-17 Requested Budget
4100	Water Payment Revenues - Residential	\$ 11,166,355	\$ 11,248,017	\$ 11,461,456	\$ 11,124,437	\$ 11,929,493
4110	Water Payment Revenues - Commercial	1,715,300	1,590,139	1,528,307	\$ 1,442,208	1,460,916
4120	Water Payment Revenues - Fire Service	262,293	126,084	126,686	129,390	133,749
4200	Meter Fees/Plan Check/Water Capacity	68,128	29,346	26,000	147,786	30,000
4300	Backflow Install EGWD	14,138	70,456	75,000	54,799	50,000
4520	Door Hanger Fees	121,300	121,950	130,000	112,200	112,000
4540	New Account Fees	28,530	24,330	25,000	24,200	24,000
4550	NSF Fees	3,465	2,975	3,000	2,520	2,500
4570	Shut-off Fees	67,597	60,500	64,000	43,100	45,000
4580	Credit Card Fees	7,470	5,505	6,500	8,167	8,000
4700	Rental Income	1,823	-	-	-	0
4900	Customer Refunds	(21,205)	(93,464)	(60,000)	(14,706)	(50,000)
	Total Revenues	\$ 13,435,194	\$ 13,185,839	\$ 13,385,949	\$ 13,074,100	\$ 13,745,658

TOTAL REVENUES BY CATEGORY

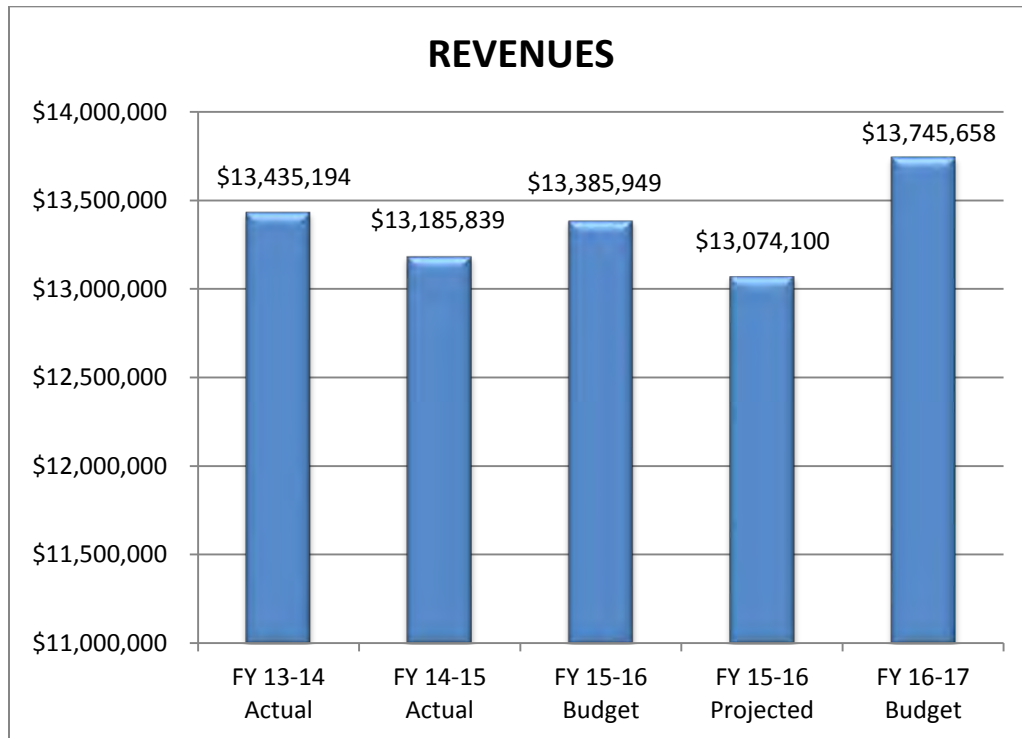


Other Revenues include:

- Meter Fees/Plan Check/Water Capacity
- Door Hanger Fees
- New Account Fees
- NSF Fees
- Credit Card Fees
- Backflow Prevention Installations

Please note that the Residential Revenue in this graph is net of customer refunds.

TOTAL REVENUES FISCAL YEARS 2013-14 THROUGH 2016-17



The FY 2016-17 Budget contains a revenue adjustment of 3.5% starting in January 2017.

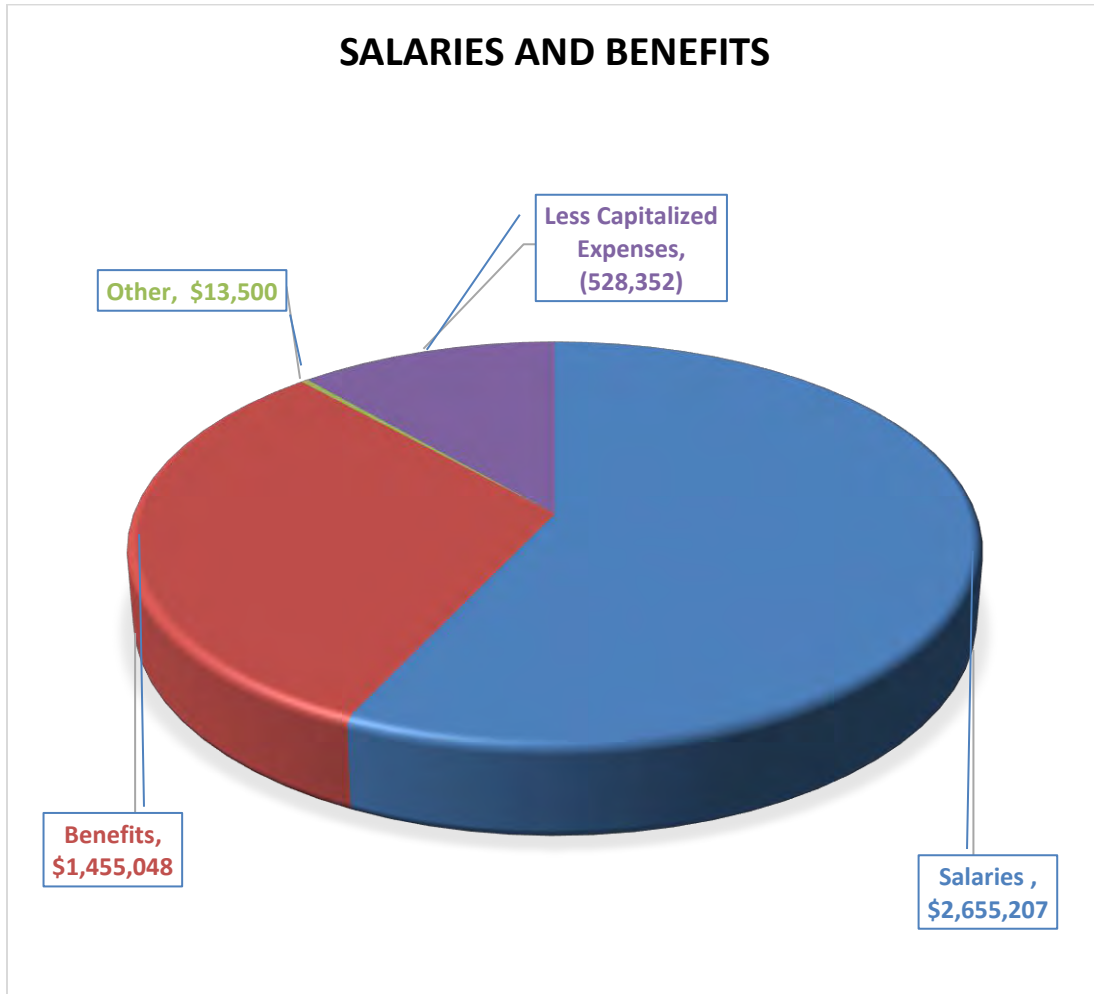
Elk Grove Water District Fiscal Year 2016-17 Operating Budget

June 22, 2016

**Elk Grove Water District
Budgeted Salaries and Benefits Accounts Detail
For the Fiscal Year ending June 30, 2017**

Account#	Description	FY 13-14 Actual	FY 14-15 Actual	FY 15-16 Budget	FY 15-16 Projected	FY 16-17 Requested Budget
5100	Executive Salary	\$ 150,220	\$ 153,097	\$ 140,194	\$ 165,206	\$ 189,122
5110	Exempt Salaries	490,178	476,125	471,721	\$ 506,361	605,166
5120	Non-Exempt Salaries	984,040	1,183,188	1,302,819	\$ 1,343,757	1,471,750
5130	Overtime Compensation	43,062	45,062	57,800	\$ 47,792	56,300
5140	On Call Pay	18,320	18,270	18,250	\$ 18,713	18,250
5150	Holiday Pay	81,914	88,233	114,577	\$ 120,219	117,743
5160	Vacation Pay	118,645	109,284	118,617	\$ 110,055	115,933
5170	Personal Time Pay	74,870	79,245	91,662	\$ 99,056	80,944
5180	Internship Program	-	-	-	\$ -	-
5200	Medical Benefits	372,689	499,325	622,871	\$ 598,388	704,084
5195	EAP	883	820	880	\$ 860	960
5210	Dental/Vision/Life Insurance	41,289	50,983	57,837	\$ 56,296	68,995
5220	Retirement Benefits	260,687	273,439	297,548	\$ 308,214	374,713
5225	Retirement Benefits - Post Employment	68,355	73,169	100,000	\$ 96,055	103,362
5230	Medical Tax, Social Security and SUI	44,880	45,161	56,763	\$ 52,712	62,072
5240	Worker's Compensation Insurance	55,314	78,504	98,014	\$ 109,057	112,612
5250	Education Assistance	1,290	4,687	18,000	\$ 5,213	9,000
5260	Employee Training	21,896	15,103	28,203	\$ 6,619	28,250
5270	Employee Recognition	910	2,694	2,920	\$ 1,533	3,020
5280	Meetings	203	286	1,500	\$ 317	1,480
	Less Capitalized Expenses	(538,181)	(470,098)	(509,238)	(509,238)	(528,352)
		<u>\$ 2,291,464</u>	<u>\$ 2,726,577</u>	<u>\$ 3,090,937</u>	<u>\$ 3,137,185</u>	<u>\$ 3,595,403</u>

TOTAL NET SALARIES AND BENEFITS \$3,595,403*

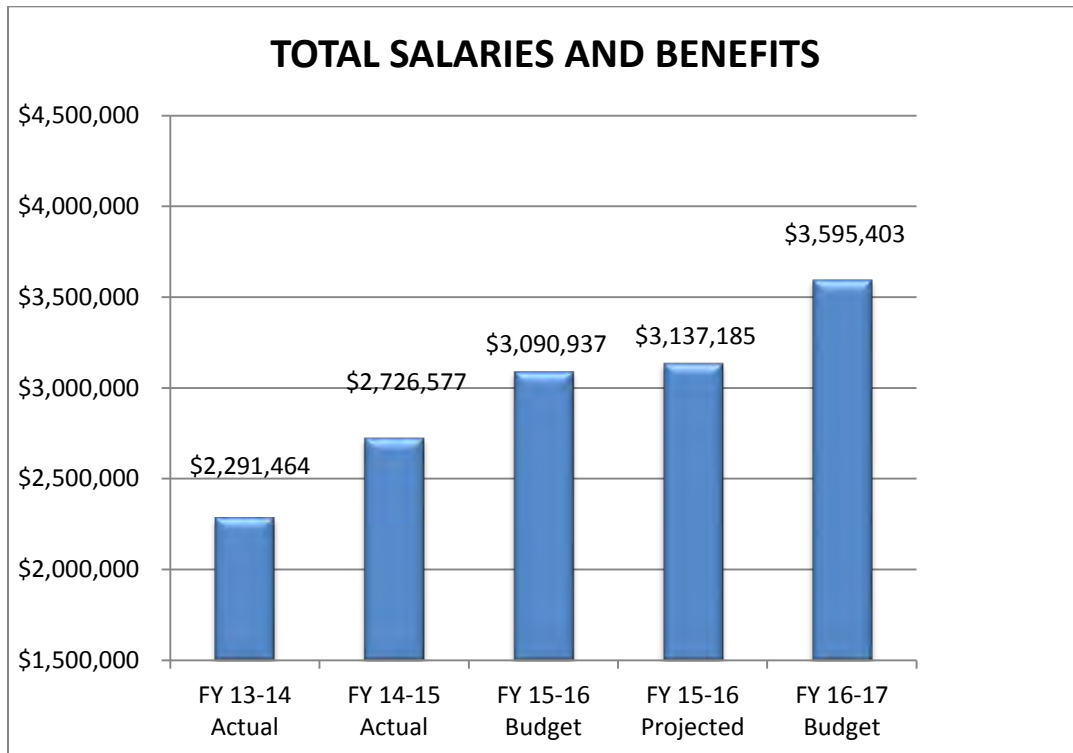


The Other Expenditure Categories include:

- Education Assistance
- Employee Recognition
- Meetings

*The total Salaries and Benefits are net of labor costs of \$528,352 that will be capitalized for the capital improvements constructed by the Distribution and Utility Departments.

TOTAL SALARIES AND BENEFITS FISCAL YEARS 2013-14 THROUGH 2016-17



The Salaries and Benefits are adjusted as follows for the capitalized expense for capital improvements constructed by the Distribution and Utility Departments:

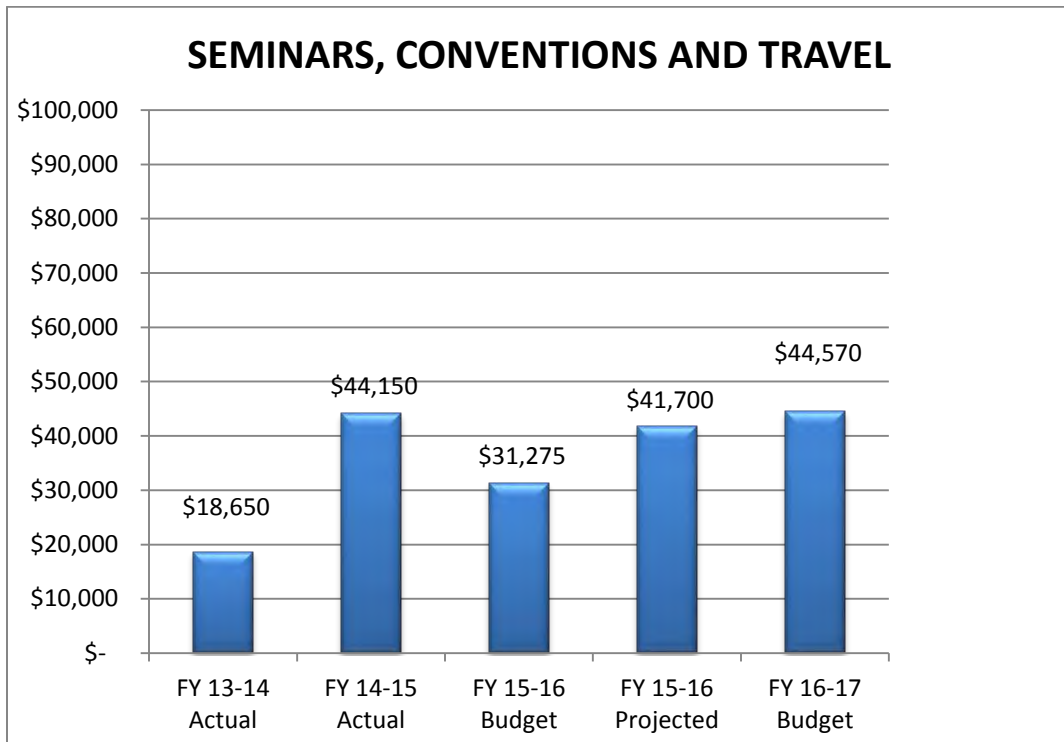
- Salaries and Benefits \$ 528,352

Elk Grove Water District Fiscal Year 2016-17 Operating Budget
June 22, 2016

Elk Grove Water District
Budgeted Seminars, Conventions and Travel Accounts Detail
For the Fiscal Year ending June 30, 2017

Account#	Description	FY 13-14		FY 14-15		FY 15-16		FY 15-16		FY 16-17	
		Actual		Actual		Budget	Projected	Budget	Projected	Requested Budget	
5300	Airfare	\$ 318	\$ 4,750	\$ 1,902	\$ 2,535	\$ 4,700					\$ 4,700
5310	Hotels	5,000	11,050	8,752	11,670	10,700					10,700
5320	Meals	2,371	5,210	4,657	6,210	6,200					6,200
5330	Auto Rental	131	2,000	1,157	1,542	2,600					2,600
5340	Seminars & Conferences	3,160	9,450	6,455	8,607	9,100					9,100
5345	Seminars & Conferences - Board	1,435	5,200	0	-	3,820					3,820
5350	Mileage Reimbursement, Parking, Tolls	1,395	1,690	4,652	6,203	1,450					1,450
5375	Auto Allowance	4,840	4,800	3,700	4,933	6,000					6,000
		<u>\$ 18,650</u>	<u>\$ 44,150</u>	<u>\$ 31,275</u>	<u>\$ 41,700</u>	<u>\$ 44,570</u>					<u>\$ 44,570</u>

TOTAL SEMINARS, CONVENTIONS AND TRAVEL FISCAL YEARS 2013-14 THROUGH 2016-17



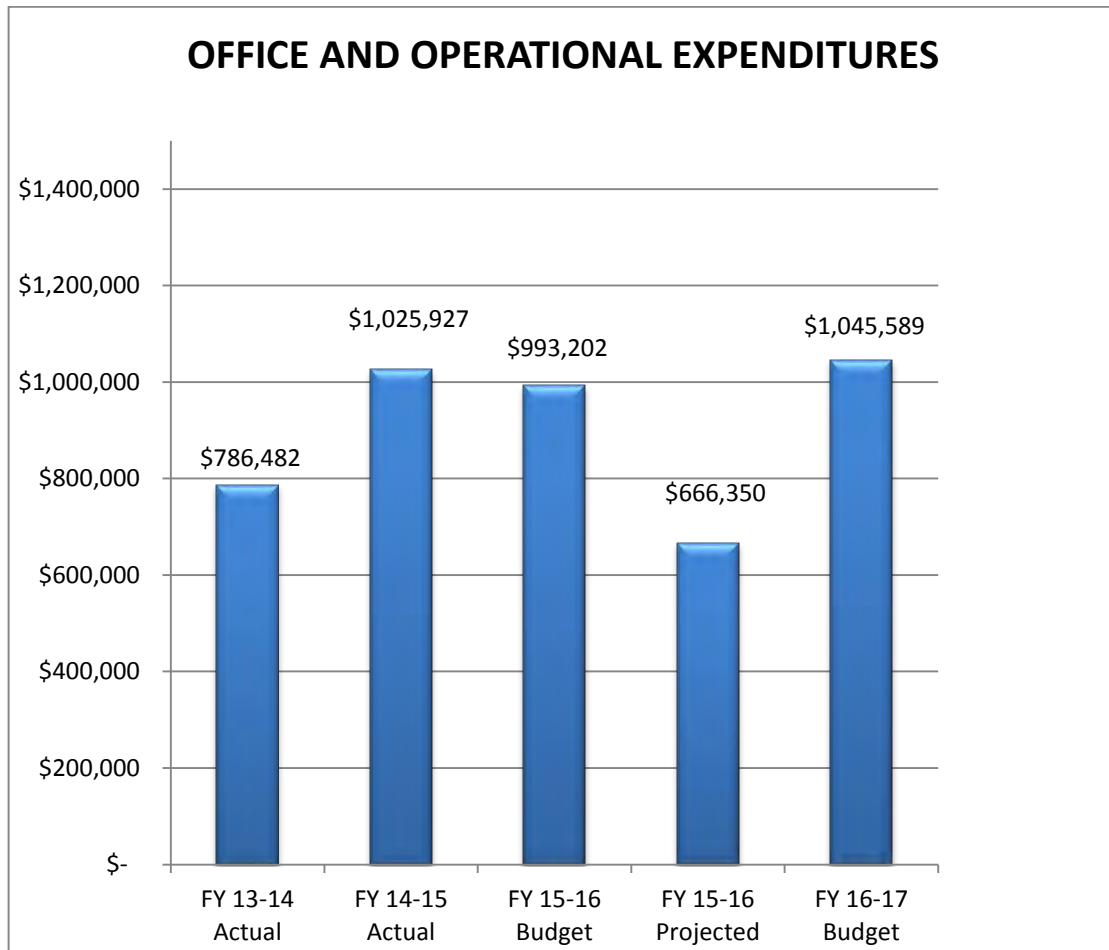
Elk Grove Water District Fiscal Year 2016-17 Operating Budget

June 22, 2016

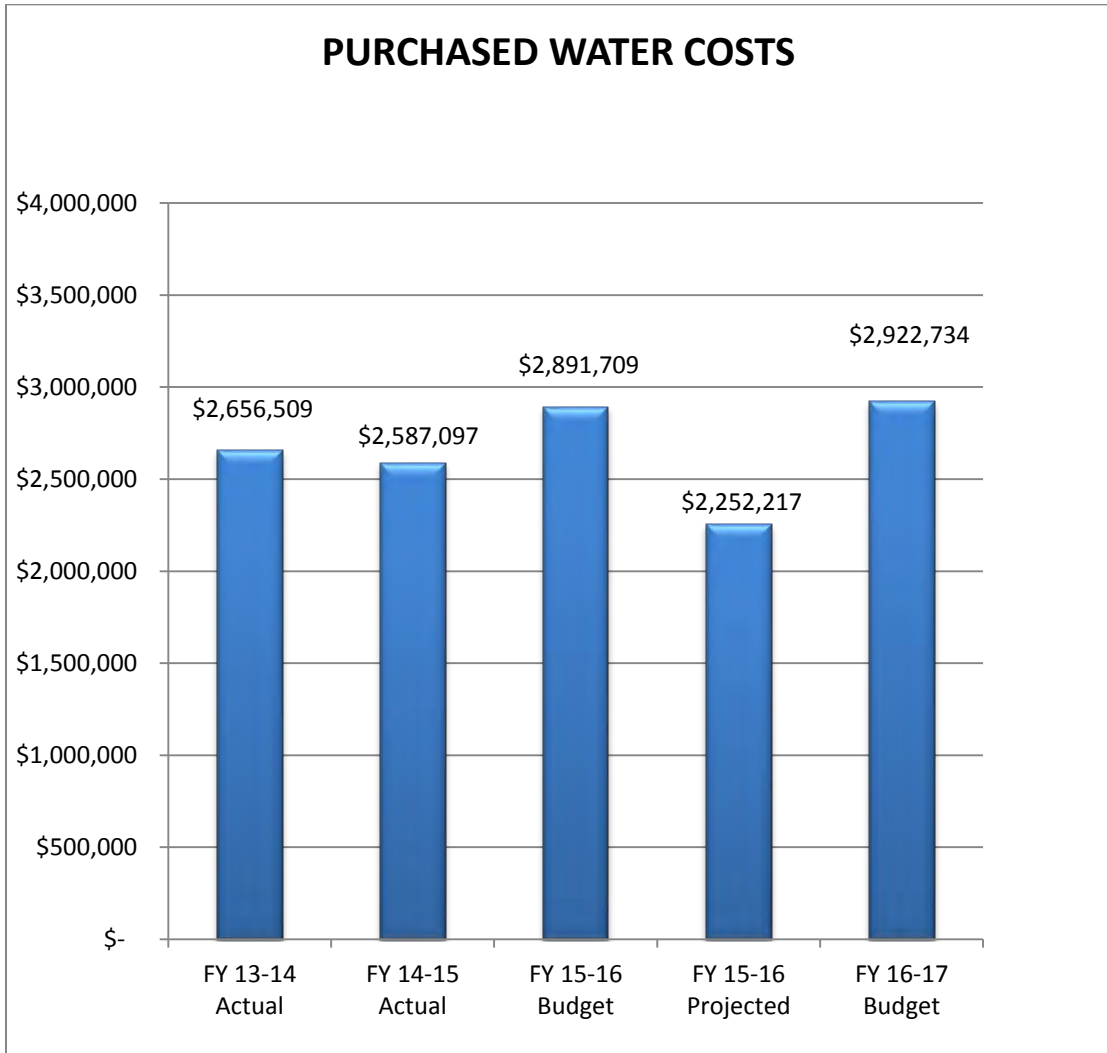
**Elk Grove Water District
Budgeted Office and Operational Accounts Detail
For the Fiscal Year ending June 30, 2017**

Account#	Description	FY 12-13 Actual	FY 13-14 Actual	FY 14-15 Actual	FY 15-16 Budget	FY 15-16 Projected	FY 16-17 Requested Budget
5410	Advertising	\$ 3,203	\$ 3,754	\$ 11,239	\$ 6,200	\$ 6,931	\$ 35,500
5415	Association Dues	53,716	53,823	61,518	72,170	89,148	97,552
5420	Insurance	83,098	68,865	76,462	75,000	74,153	79,900
5425	Licenses, Certifications, Fees	18,446	5,809	13,488	9,700	3,580	9,850
5430	Repairs & Maintenance - Automotive	19,459	16,585	28,486	40,300	28,994	27,800
5432	Repairs & Maintenance - Building	10,643	14,197	9,067	13,500	12,830	16,500
5434	Repairs & Maintenance - Computers	50,282	1,839	21,591	24,800	16,492	22,150
5435	Repairs & Maintenance - Equipment	37,055	52,278	94,204	108,000	41,551	63,350
5438	Fuel	41,505	41,338	38,424	63,600	30,631	51,600
5440	Materials	149,957	143,564	268,654	206,000	61,113	90,000
5445	Chemicals	24,955	48,945	14,813	12,000	11,872	115,000
5450	Meter Repairs	553	91	5,179	9,000	8,418	12,000
5453	Permits	7,380	31,193	39,318	39,620	32,714	84,800
5455	Postage	58,421	65,773	73,556	59,300	53,838	72,400
5460	Printing	5,849	8,086	14,693	15,400	3,639	14,050
5465	Safety Equipment	1,773	12,993	3,428	11,950	5,226	20,100
5470	Software Programs & Updates	58,040	114,981	146,911	108,744	94,341	94,927
5475	Supplies	62,426	22,421	29,849	30,295	30,058	36,800
5480	Telephone	32,972	38,333	35,983	29,505	33,336	36,609
5485	Tools	7,282	24,069	23,834	5,329	7,635	12,500
5490	Clothing Allowance	8,305	9,901	7,449	10,500	5,987	10,200
5491	EGWD - Other Clothing	-	7,644	7,782	12,289	8,702	12,000
5493	Water Conservation Materials	-	-	0	30,000	5,159	30,000
		735,323	786,482	1,025,927	993,202	666,350	1,045,589
5495	Purchased Water	2,517,816	2,656,509	\$ 2,587,097	\$ 2,891,709	\$ 2,252,217	2,922,734

TOTAL OFFICE AND OPERATIONAL FISCAL YEARS 2013-14 THROUGH 2016-17



TOTAL PURCHASED WATER FISCAL YEARS 2013-14 THROUGH 2016-17



Elk Grove Water District Fiscal Year 2016-17 Operating Budget
June 22, 2016

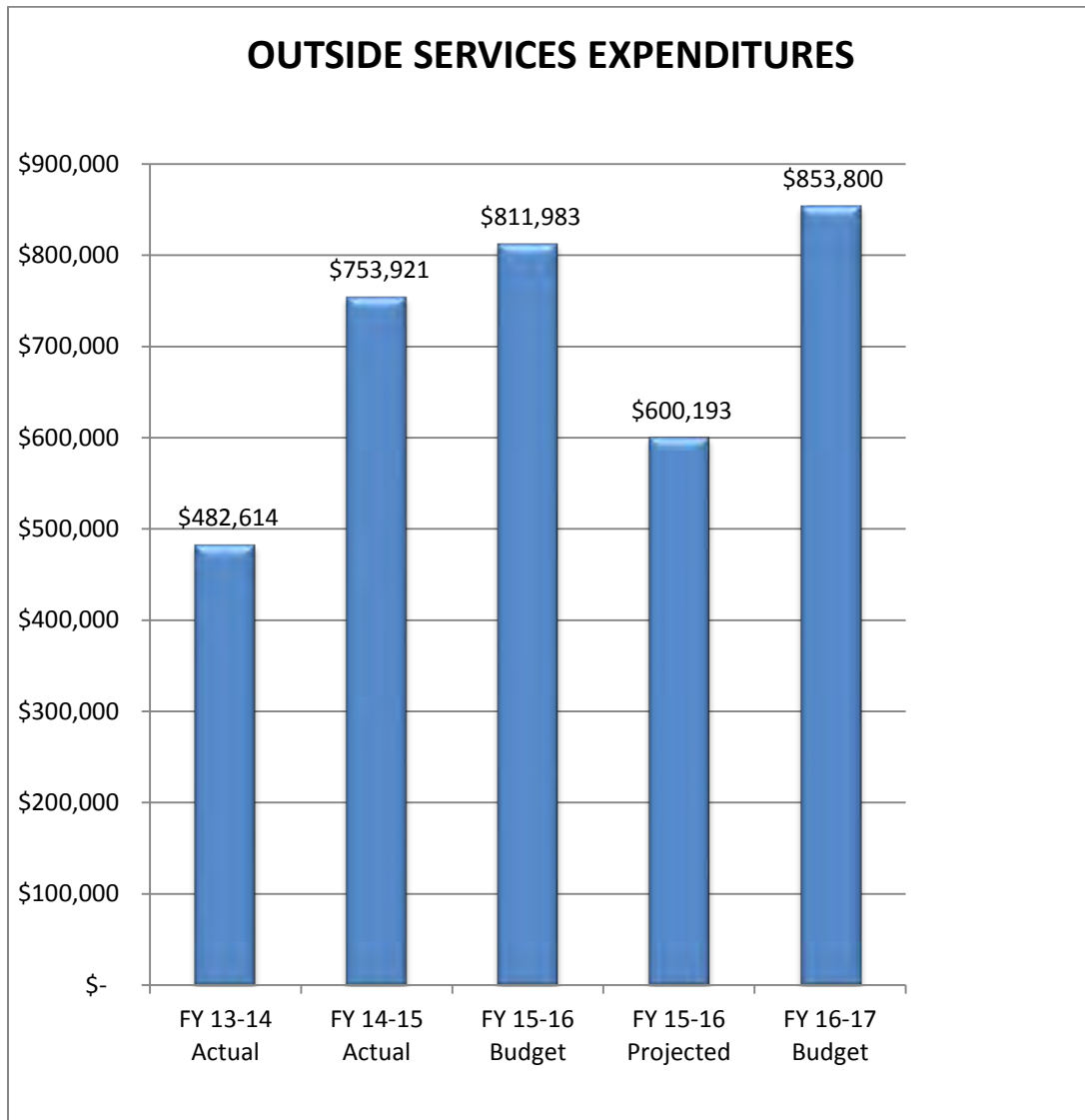
Elk Grove Water District
Budgeted Outside Services Accounts Detail
For the Fiscal Year ending June 30, 2017

Account#	Description	FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 15-16	FY 16-17
		Actual	Actual	Actual	Budget	Projected	Requested Budget
5505	Administration Services	\$ 1,155	\$ 1,012	\$ 2,252	\$ 6,000	\$ 752	\$ 1,500
5510	Bank Charges	41,787	47,799	62,586	62,400	\$ 70,080	96,000
5515	Billing Services	26,484	28,308	26,657	26,400	\$ 22,987	28,800
5520	Contracted Services	127,963	136,029	240,381	248,836	\$ 283,142	292,800
5523	Water Conservation Services	-	-	0	20,000	\$ 26,095	32,500
5525	Accounting Services	63,788	43,344	26,615	35,000	\$ 30,544	35,000
5530	Engineering	1,400	14,798	92,044	80,000	\$ 8,834	50,000
5535	Legal Services	169,632	98,307	124,744	205,000	\$ 93,961	205,000
5540	Financial Consultants	86,998	29,653	68,601	10,000	\$ -	10,000
5545	Community Relations	10,118	14,065	19,587	16,200	\$ 13,927	16,200
5552	Misc. Medical	2,354	2,086	1,485	2,000	\$ 1,423	2,500
5550	Pre-employment	1,817	630	6,508	10,000	\$ 657	10,000
5555	Janitorial	3,885	5,935	6,299	6,500	\$ 6,180	6,300
5560	Bond Administration	7,366	7,353	6,917	8,500	\$ 16,056	8,500
5570	Security	31,682	26,412	30,706	26,500	\$ 7,550	23,700
5575	Sampling	16,256	23,858	35,513	45,647	\$ 15,339	35,000
5580	Board Secretary/Treasurer	3,150	3,025	3,025	3,000	\$ 2,667	-
		<u>\$ 595,834</u>	<u>\$ 482,614</u>	<u>\$ 753,921</u>	<u>\$ 811,983</u>	<u>\$ 600,193</u>	<u>\$ 853,800</u>

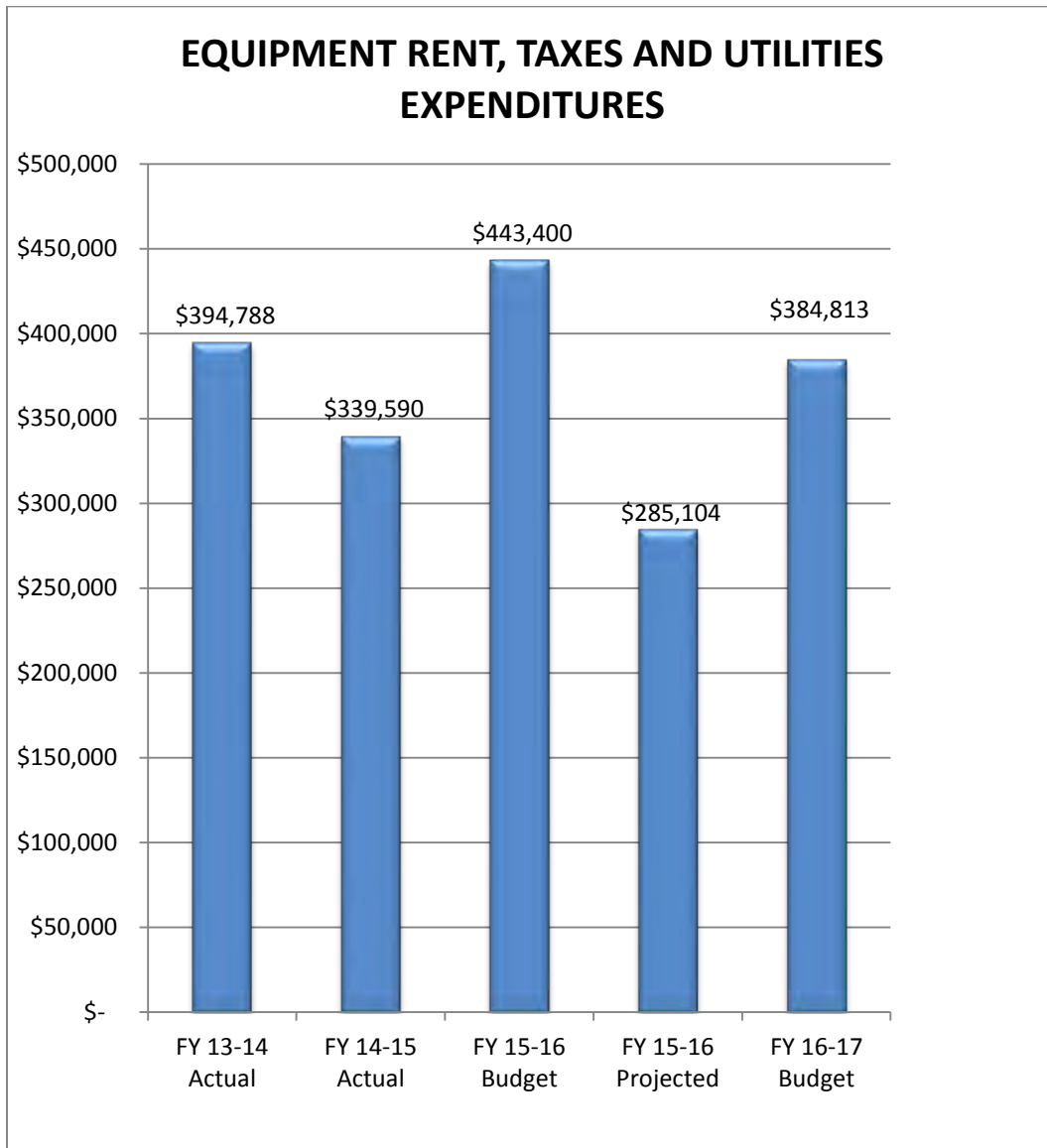
Elk Grove Water District
Budgeted Rents, Taxes and Utilities Accounts Detail
For the Fiscal Year Ending June 30, 2017

Account#	Description	FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 15-16	FY 16-17
		Actual	Actual	Actual	Budget	Projected	Requested Budget
5610	Occupancy	\$ (9,367)	\$ -	\$ -	\$ -	\$ -	\$ -
5620	Equipment Rental	37,552	38,047	16,392	29,500	\$ 12,101	22,000
5710	Property Taxes	3,464	3,992	4,701	4,700	\$ 1,771	1,500
5720	Water	1,087	-	0	0	\$ -	-
5740	Electricity	359,504	333,039	295,131	379,000	\$ 253,448	334,814
5750	Natural Gas	286	437	416	500	\$ 498	600
5760	Sewer & Garbage	24,138	19,273	22,950	29,700	\$ 17,286	25,900
		<u>\$ 416,662</u>	<u>\$ 394,788</u>	<u>\$ 339,590</u>	<u>\$ 443,400</u>	<u>\$ 285,104</u>	<u>\$ 384,813</u>

TOTAL OUTSIDE SERVICES FISCAL YEARS 2013-14 THROUGH 2016-17



TOTAL EQUIPMENT RENT, TAXES AND UTILITIES FISCAL YEARS 2013-14 THROUGH 2016-17



Elk Grove Water District Fiscal Year 2016-17 Operating Budget
June 22, 2016

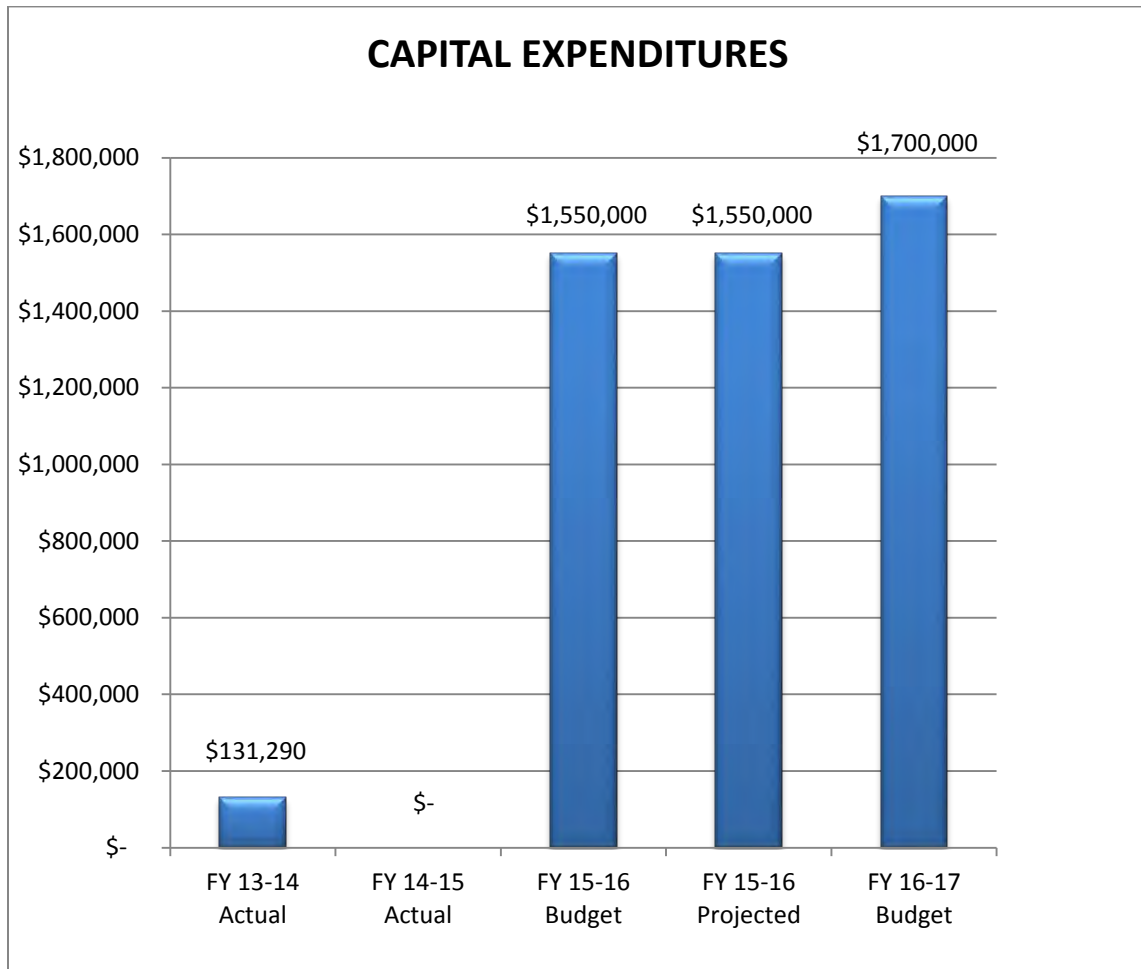
Elk Grove Water District
Budgeted Capital Expenses Detail
For the Fiscal Year ending June 30, 2017

Account#	Description	FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 15-16	FY 16-17
		Actual	Actual	Actual	Budget	Projected	Requested Budget
1730	Meters	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1745	Transportation Equipment	-	-	0	0	\$ -	-
1760/1765	Capital Equipment & Expenditures	-	96,290	0	0	\$ -	-
1705	Non-Project Capital Expenses	-	35,000	0	0	\$ -	-
3560	Repair & Replacement Reserve	-	-	0	851,472	\$ 851,472	731,000
3565	L-T Capital Improvement Reserve	-	-	0	698,528	\$ 698,528	969,000
	Contribution to Reserves						-
		<u>\$ -</u>	<u>\$ 131,290</u>	<u>\$ -</u>	<u>\$ 1,550,000</u>	<u>\$ 1,550,000</u>	<u>\$ 1,700,000</u>

Elk Grove Water District
Budgeted Non Operating Activity Detail
For the Fiscal Year ending June 30, 2017

Account#	Description	FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 15-16	FY 16-17
		Actual	Actual	Actual	Budget	Projected	Requested Budget
6440	Depreciation & Amortization	\$ 1,708,742	\$ 2,054,712	\$ 1,696,678	\$ -	\$ -	\$ -
7300	Debt Service (Bond Interest Expense)	2,624,774	2,580,129	2,289,556	2,225,240	2,225,240	1,757,900
7310	Discount Amortization Expense	28,344	28,229	-	-	-	-
7320	Offering Expense - Deferred Charges	-	-	471,504	-	-	-
7400	Interest Paid - 9257 Elk Grove Note	59,381	55,649	-	-	-	-
9920	Other Expenses (Income)	(50,793)	-	-	-	-	(26,566)
	Contribution from Operating Reserve				(74,671)	-	
2470	9257 Elk Grove Blvd. Note	55,606	59,337	-	-	-	-
2500	Bond Retirement	1,080,000	1,175,000	-	1,430,000	1,430,000	1,440,000
9910	Interest Earned	(20,886)	(18,188)	(19,970)	(20,000)	(10,171)	(100,000)
9950	Election Costs	1,660	-	(318,569)	-	-	108,000
		<u>\$ 5,486,827</u>	<u>\$ 5,934,868</u>	<u>\$ 4,119,198</u>	<u>\$ 3,560,569</u>	<u>\$ 3,645,069</u>	<u>\$ 3,179,334</u>

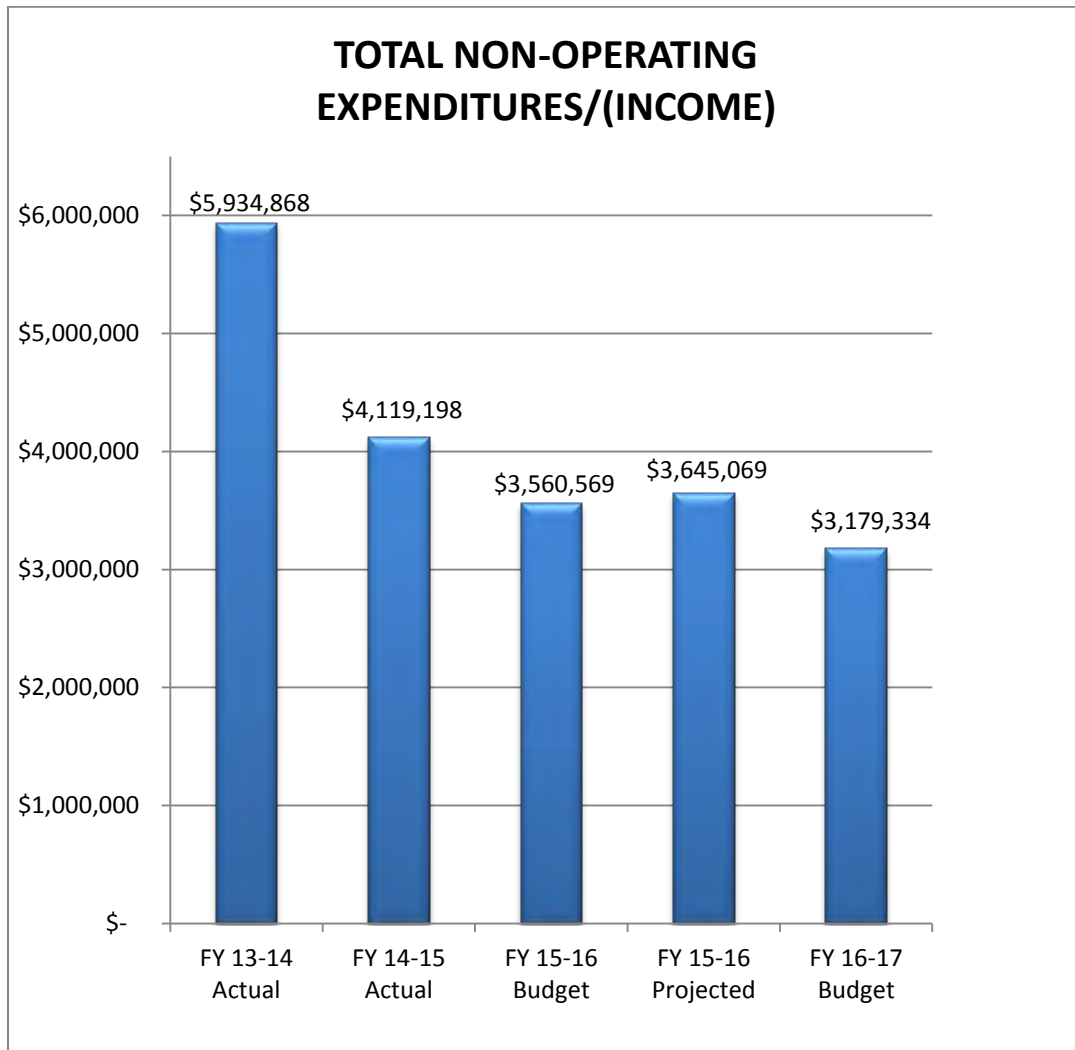
TOTAL CAPITAL EXPENDITURES FISCAL YEARS 2013-14 THROUGH 2016-17



Starting in FY 2012-13, all CIP, with the exception of two minor projects, were budgeted in the Five Capital Improvement Program.

The FY 2016-17 capital improvement funding is for Repair & Replacement and Long-Term Capital Reserve funding based on the Asset Management Plan.

TOTAL NON-OPERATING EXPENDITURES (INCOME) FISCAL YEARS 2013-14 THROUGH 2016-17



The Non-Operating Expenditures include:

- Debt Service – Water System

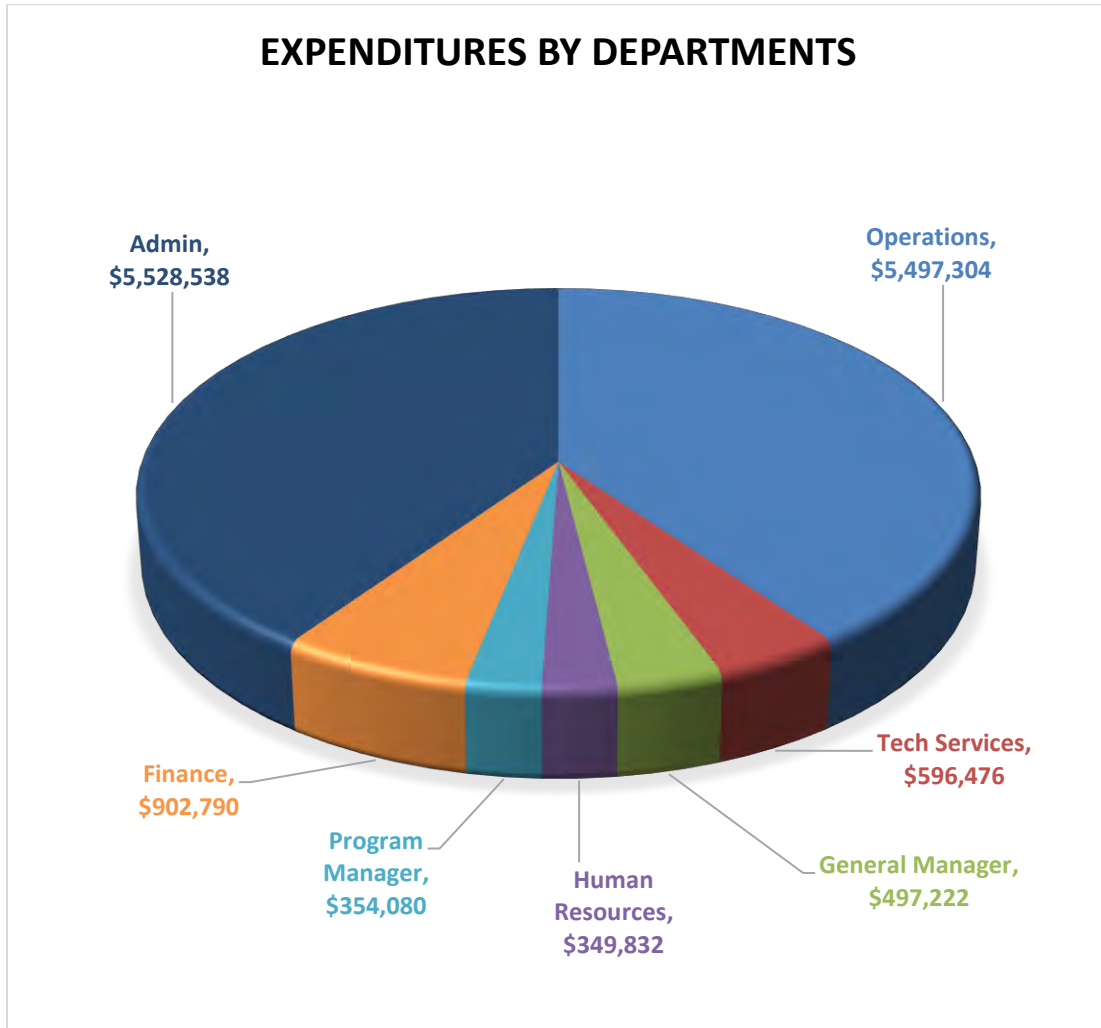
Elk Grove Water District Fiscal Year 2016-17 Operating Budget
June 22, 2016

Elk Grove Water District
Summary by Departments
For the Fiscal Year ending June 30, 2017

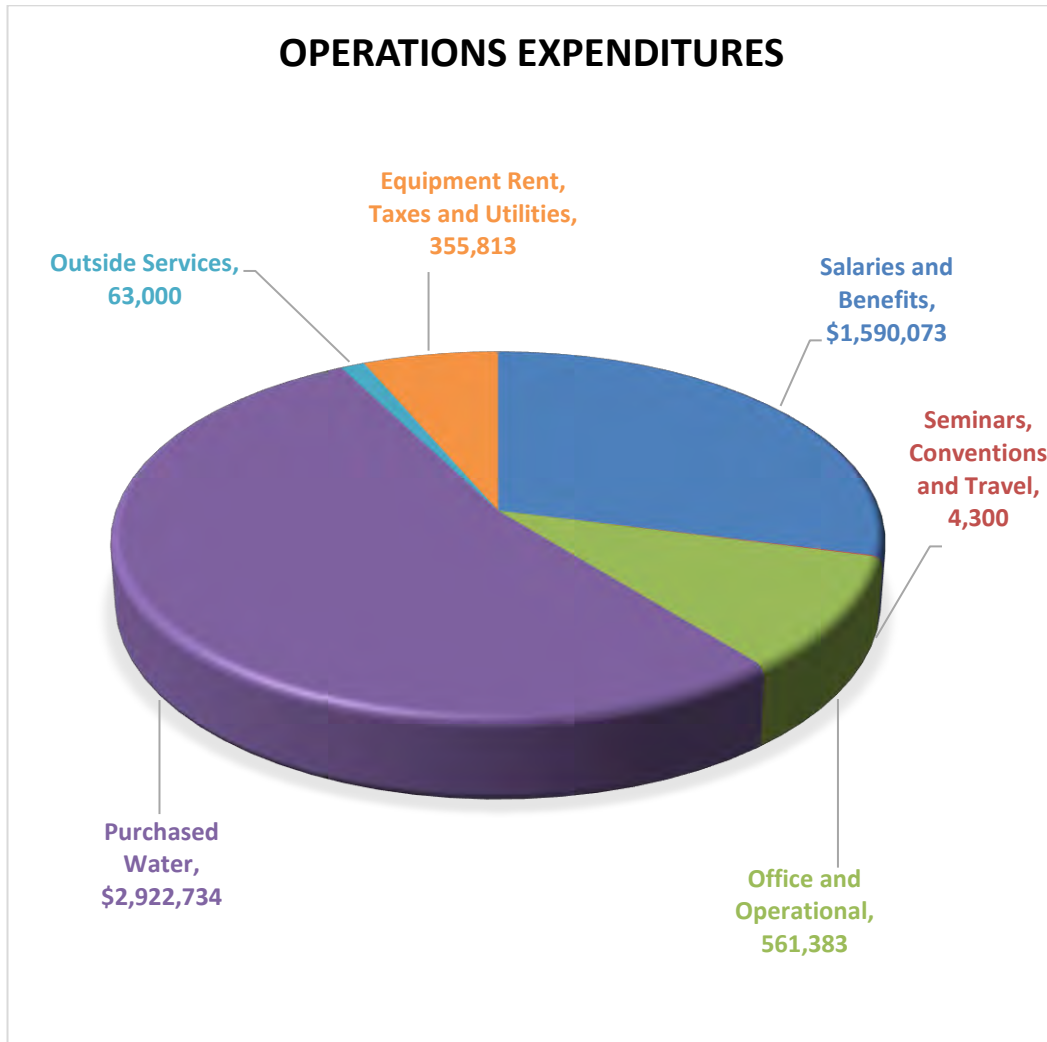
Expenditure	Operations	Technical Services	General Manager	Human Resources	Program Manager	Finance	Admin	Total Budget
Revenues								13,745,658
Salaries and Benefits	\$ 2,118,426	\$ 506,306	\$ 267,342	\$ 303,532	\$ 159,590	\$ 665,197	\$ 103,362	\$ 4,123,755
Seminars, Conventions and Travel	4,300	5,950	18,680	7,000	2,640	6,000	-	44,570
Office and Operational	561,383	34,220	-	6,800	95,350	56,593	291,242	1,045,589
Purchased Water	2,922,734	-	-	-	-	-	-	2,922,734
Outside Services	63,000	50,000	211,200	32,500	96,500	175,000	225,600	853,800
Equipment Rent, Taxes and Utilities	355,813	-	-	-	-	-	29,000	384,813
Subtotal Operational Expenditures	6,025,656	596,476	497,222	349,832	354,080	902,790	649,204	9,375,261
Less: Capitalized Expenditures*	(528,352)							(528,352)
Total Operational Expenses	5,497,304	596,476	497,222	349,832	354,080	902,790	649,204	8,846,909
Non-Operating Expenditures (Income)						-	3,179,334	3,179,334
Capital Equipment and Expenditures	-					-	1,700,000	1,700,000
Total Net Expenditures	5,497,304	596,476	497,222	349,832	354,080	902,790	5,528,538	13,726,243
Revenues In Excess of Expenditures, Principal Retirement and Capital Expenditures								<u>\$ 19,415</u>

* This represents 70% of Salary Costs of the Utility Division which will be charged to Capital Projects

TOTAL EXPENDITURES BY DEPARTMENTS

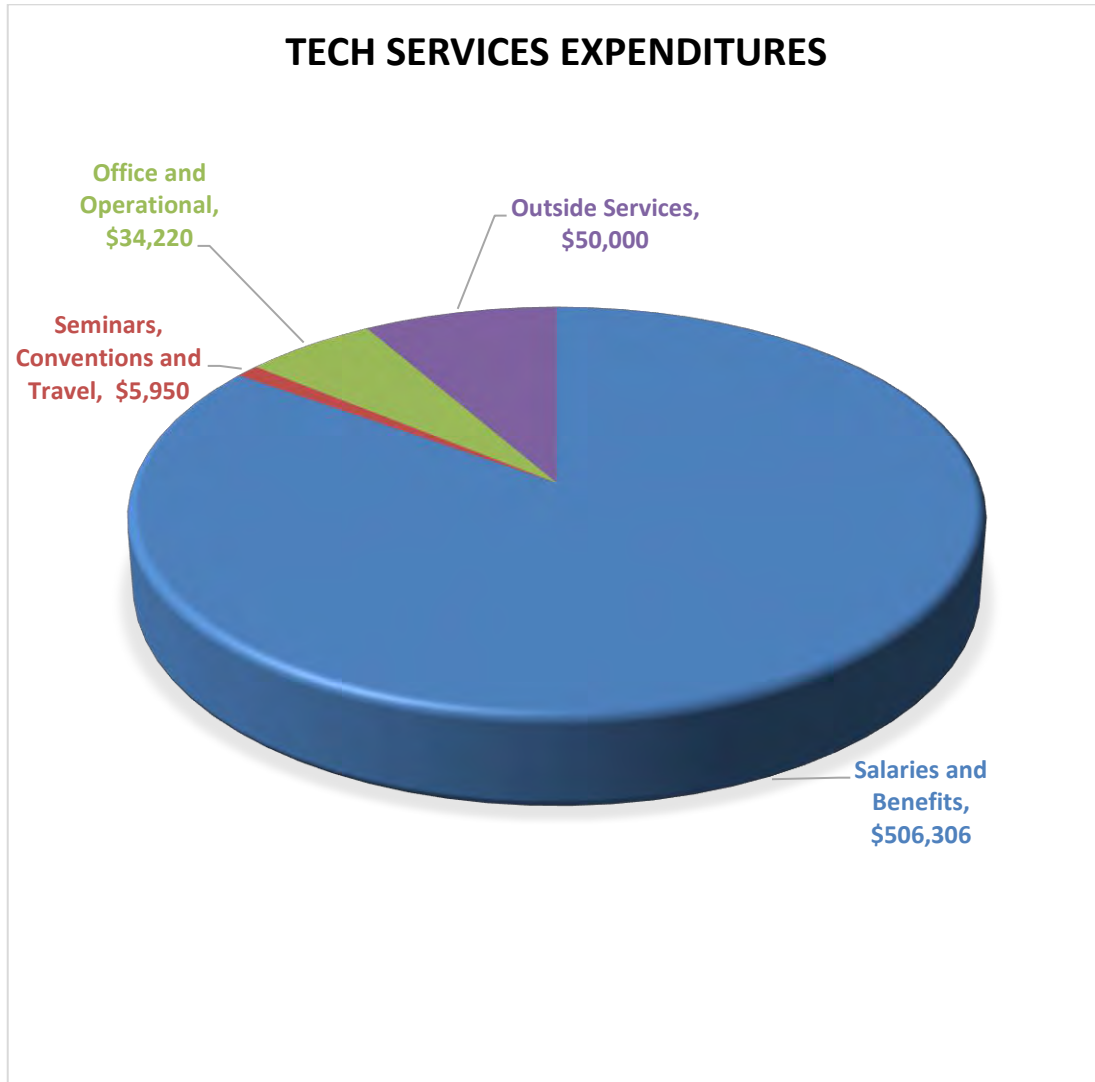


OPERATIONS DEPARTMENT \$5,497,304
TOTAL EXPENDITURES BY CATEGORY

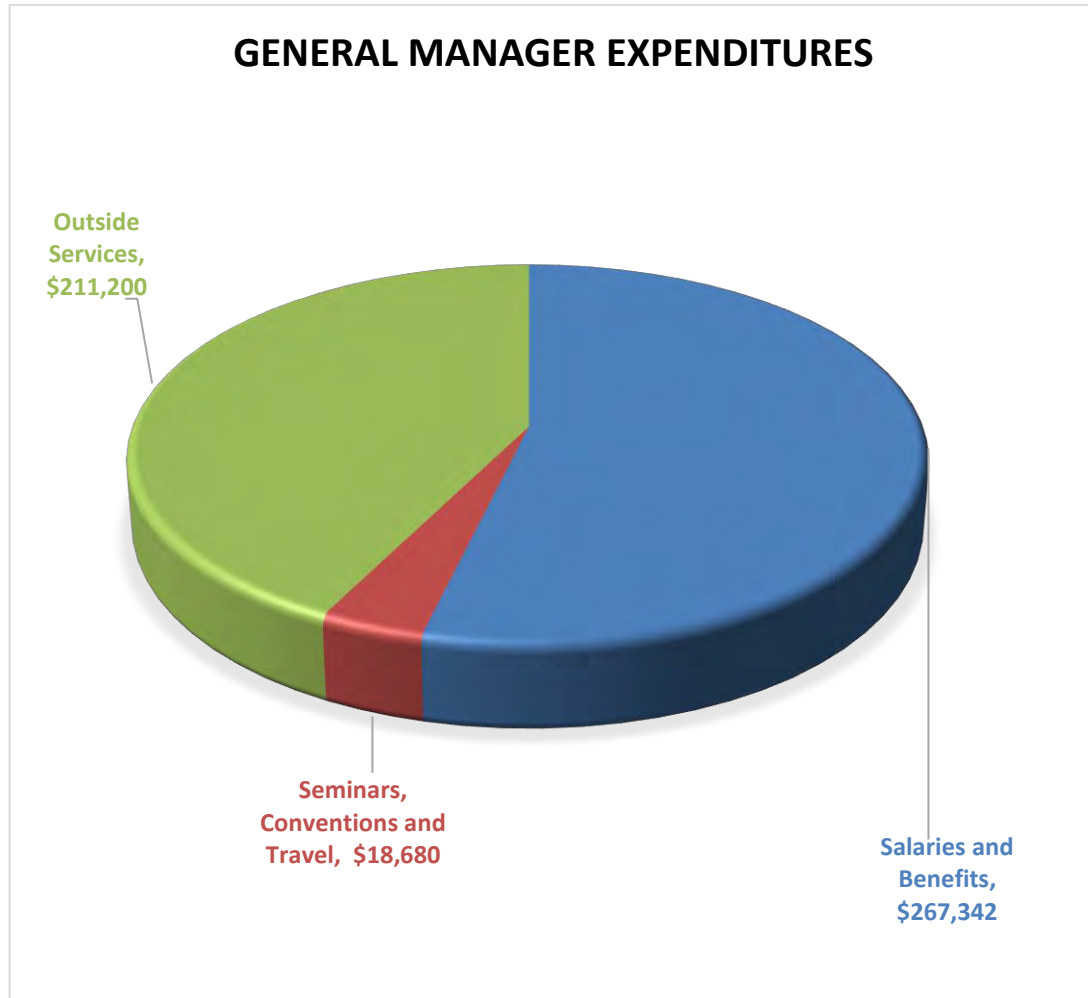


Salaries and benefits include a reduction for capitalized labor of \$528,352.

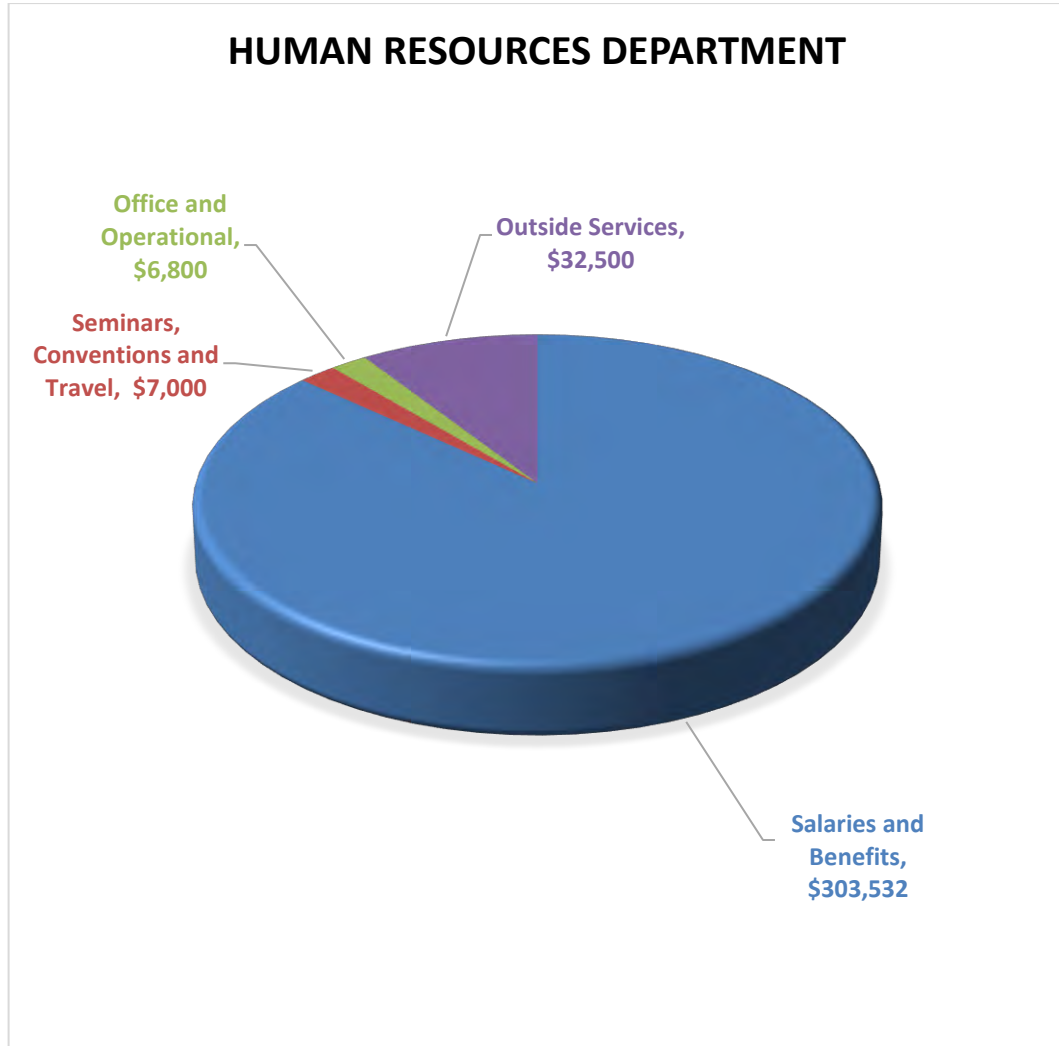
TECH SERVICES DEPARTMENT \$596,476 TOTAL EXPENDITURES BY CATEGORY



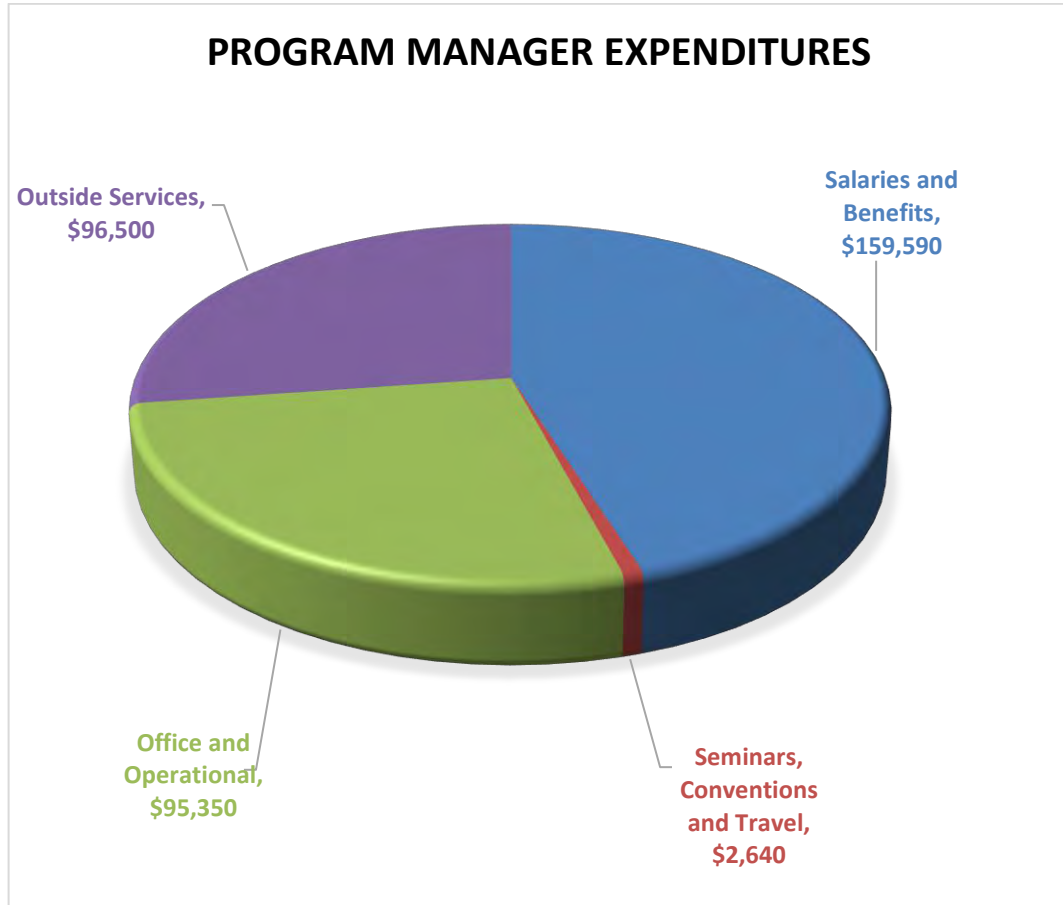
GENERAL MANAGER DEPARTMENT \$497,222 TOTAL EXPENDITURES BY CATEGORY



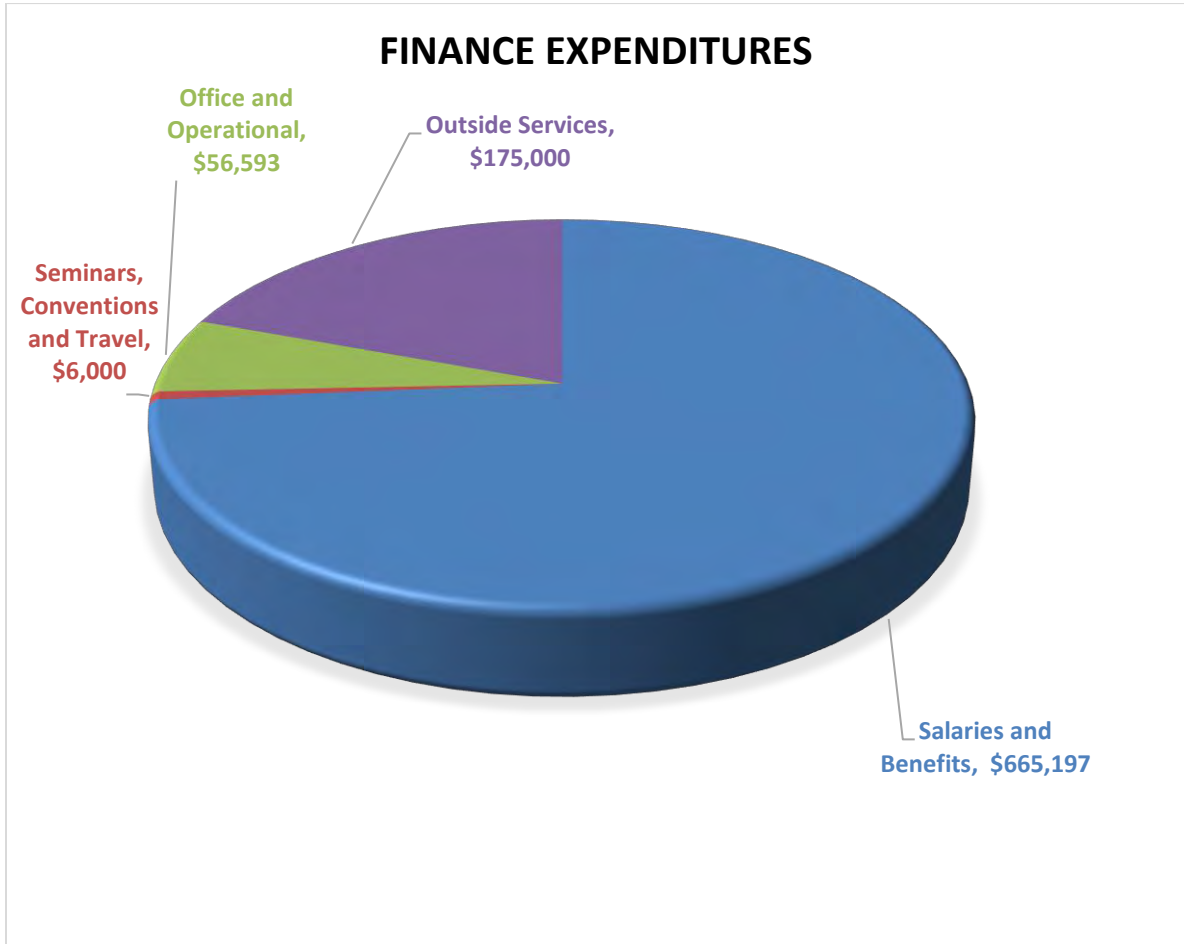
HUMAN RESOURCES DEPARTMENT \$349,832 TOTAL EXPENDITURES BY CATEGORY



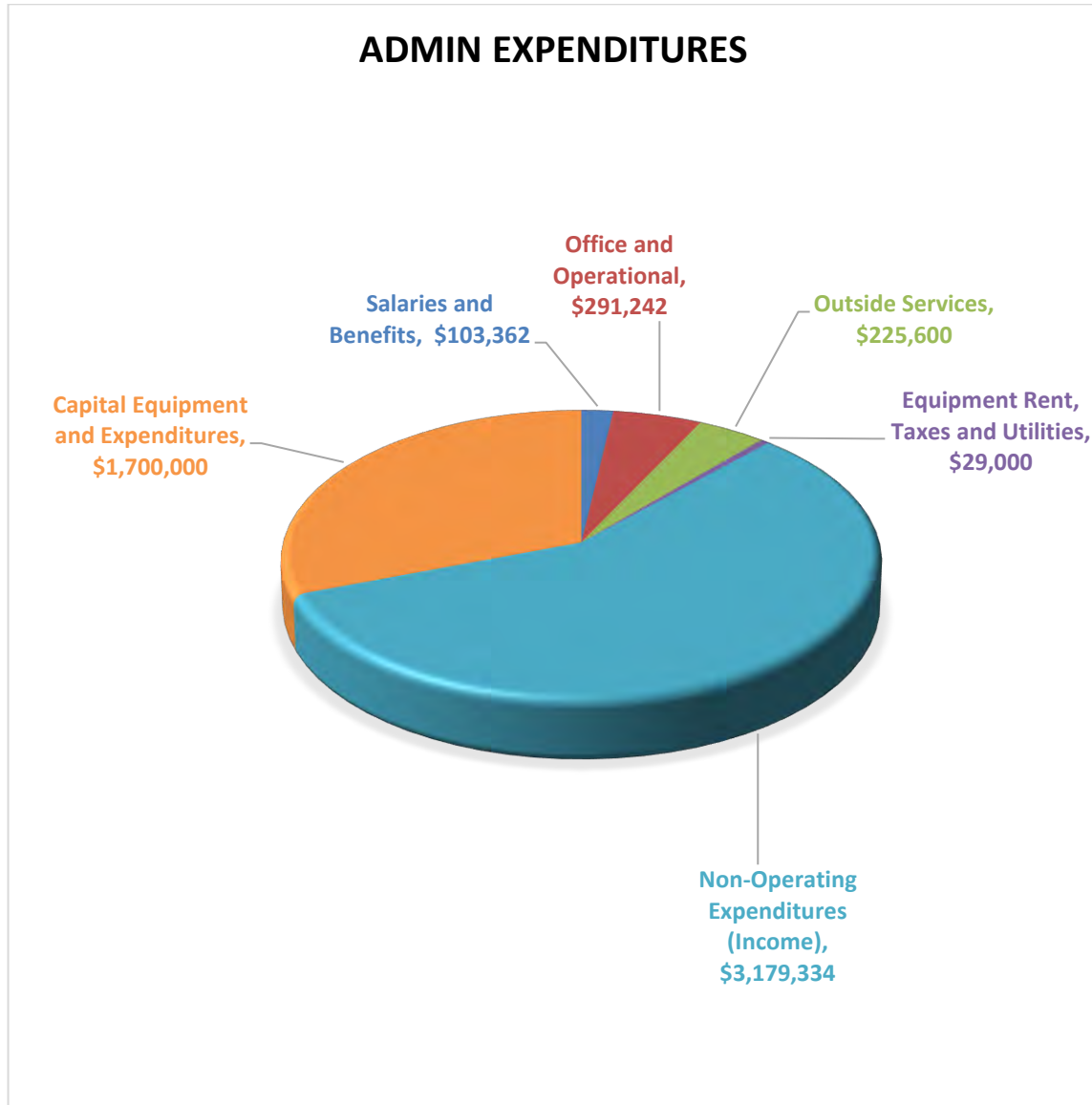
PROGRAM MANAGER DEPARTMENT \$354,080 TOTAL EXPENDITURES BY CATEGORY



FINANCE DEPARTMENT \$902,790 TOTAL EXPENDITURES BY CATEGORY

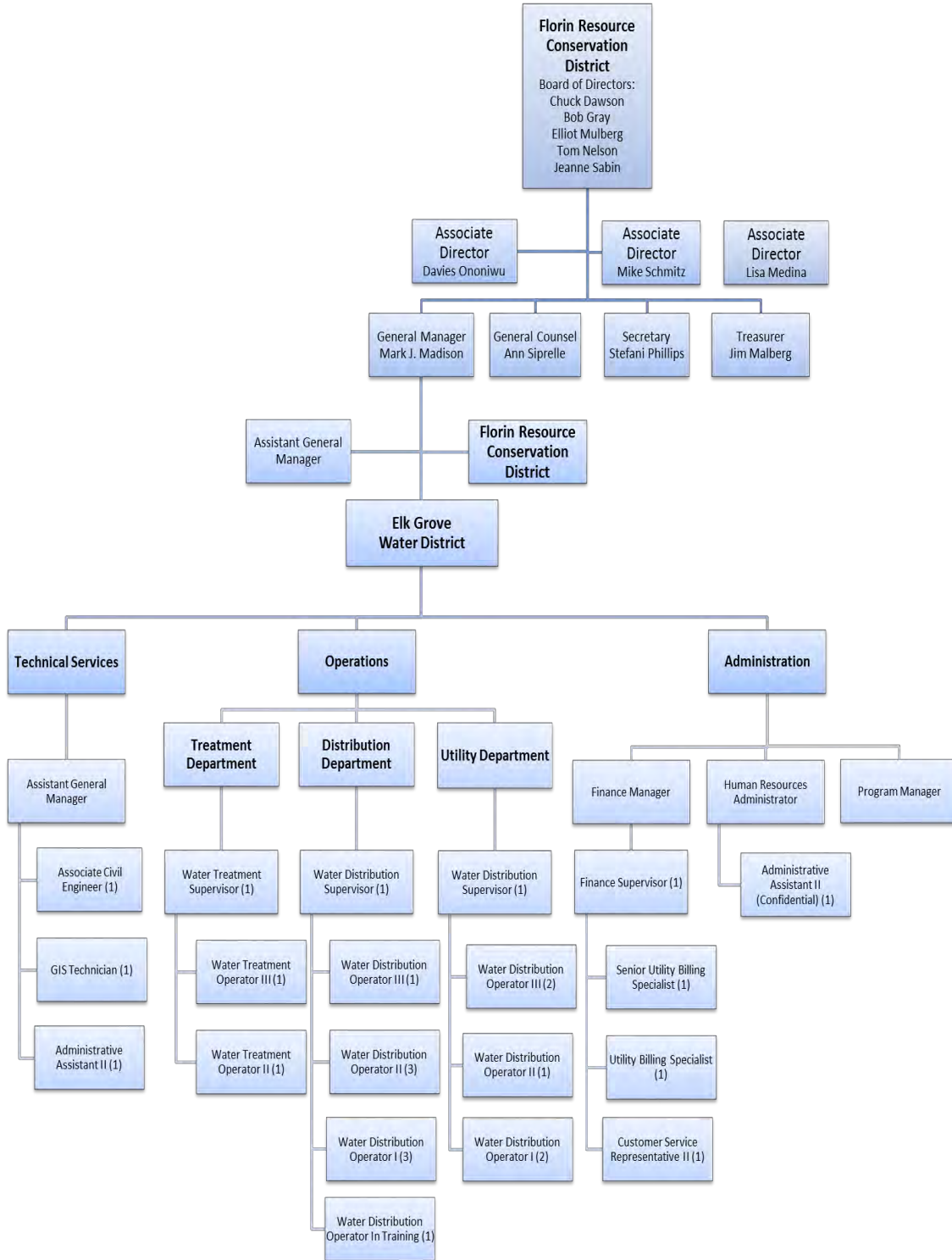


ADMIN DEPARTMENT \$5,528,538 TOTAL EXPENDITURES BY CATEGORY



Capital Equipment and Expenditures includes Capital Reserve Contributions.

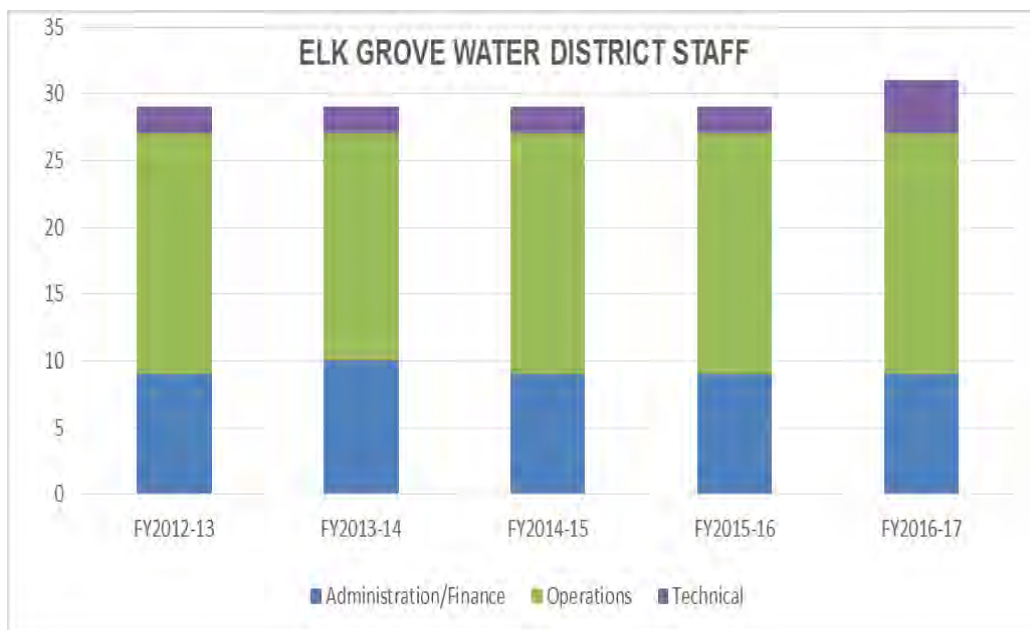
ELK GROVE WATER DISTRICT ORGANIZATION CHART



LEADERSHIP TEAM

Mark J. Madison, P.E.	General Manager
Bruce Kamilos, P.E.	Assistant General Manager
Vacant	Associate Civil Engineer
Jim Malberg	Finance Manager
Donella Murrilo	Finance Supervisor
Stefani Phillips	Human Resources Administrator
Vacant	Program Manager
Steve Shaw	Water Treatment Supervisor
Richard Salas	Water Distribution Supervisor
Jose Carrillo	Water Distribution Supervisor

STAFF POSITIONS BY DIVISION



Elk Grove Water District Fiscal Year 2016-17 Operating Budget

June 22, 2016

ELK GROVE WATER DISTRICT STAFF					
	FY2012-13	FY2013-14	FY2014-15	FY2015-16	FY2016-17
Administration & Finance					
General Manager	1	1	1	1	1
Finance Manager	1	1	1	1	1
Management Analyst	1	1	1	1	0
Program Manager	0	0	0	0	1
Human Resources Specialist	1	1	1	1	0
Human Resources Administrator	0	0	0	0	1
Administrative Assistant II (Confidential)	0	1	1	1	1
Finance Supervisor	1	1	1	1	1
Senior Utility Billing Specialist	1	1	1	1	1
Utility Billing Specialist	0	0	0	0	1
Customer Service Representative I	2	0	0	0	0
Customer Service Representative II	0	2	2	2	1
Meter Reader	1	1	0	0	0
Department Total	9	10	9	9	9
Technical Services					
Assistant General Manager	0	0	0	0	1
Associate Civil Engineer	1	1	1	1	1
Administrative Assistant II	0	0	0	0	1
GIS Technician I	1	1	1	1	0
GIS Technician II					1
Department Total	2	2	2	2	4
Operations					
Foremen	3	3	3	3	0
Supervisors	0	0	0	0	3
Water Distribution Operator In Training	4	2	2	1	1
Water Distribution Operator I	3	4	5	5	5
Water Distribution Operator II	2	4	4	5	4
Water Distribution Operator III	0	2	2	2	3
Water Treatment Operator I	0	0	0	0	0
Water Treatment Operator II	1	1	1	1	1
Water Treatment Operator III	1	1	1	1	1
Water Utility Operator I	2	0	0	0	0
Water Utility Operator II	2	0	0	0	0
Departmental Total	18	17	18	18	18
Organizational Total	29	29	29	29	31

ADMINISTRATION

Administration is responsible for the business operations of EGWD. Administration includes the general management of EGWD, accounting and financial management, human resources, customer service, payroll services, purchasing/procurement management, risk management, legislative analysis, public outreach, information technology and communications.

The General Manager superintends the FRCD/EGWD, ensuring that the policies and directives of the Board of Directors are carried out as assigned. The General Manager leads the entire staff with a subset of managers informally called the Leadership Team.

The Assistant General Manager is responsible for assisting the General Manager, as directed, with all aspects of the District's policies, procedures, programs and operations; and assumes the duties and responsibilities of the General Manager in his/her absence. In addition, the Assistant General Manager oversees the Technical Services Division and Capital Improvement Program.

The Human Resource Specialist and Administrative Assistant are responsible for handling confidential personnel matters, including recruitment, hiring, training and development, policy compliance and employee benefits. The Human Resources Specialist makes certain that employee matters are handled fairly, equitably and without discrimination according to EGWD policies and State and Federal regulations.

The Program Manager manages special programs and projects as assigned by the General Manager, including water conservation, safety, legislative tracking and lobbying, grant acquisition, and public information and outreach.

The Finance Department is responsible for maintaining the fiscal stability in a manner consistent with generally accepted accounting principles and statutory requirements. Included in the Financial Department's duties are: customer service, accounts payable, billing and accounts receivable, general ledger maintenance, capital assets records, investment activity, accounting, budget development and monitoring, development of cash flow models, debt service, revenue and expenditure forecasting, payroll, financial reporting and coordination with external financial audits. The Finance Department is also responsible for information services, including development and support of computers and software, program development, office telecommunications, office security, and office systems.

FY 2016-17 OBJECTIVES

Office of the General Manager

- Provide leadership to ensure that EGWD's overall mission and values are accomplished.
- Provide the Board of Directors timely support and information.
- Ensure that all water facilities and programs are operated in compliance with all applicable standards.
- Promote continued innovation and creativity in providing services in a more effective and cost efficient manner.
- Maintain effective long-term financial and operational plans.
- Implement sound fiscal policies, budgets, and controls.
- Maintain effective coordination, cooperation, and communication with local governments, State and Federal agencies and continue involvement in civic, professional and community affairs.
- Motivate employees and encourage teamwork throughout the organization.
- Develop the role(s) and associated funding structure for the Florin Resource Conservation District (FRCD).
- Actively participate in this region's efforts to form a Groundwater Sustainability Agency to comply with the requirements of the Sustainable Groundwater Management Act of 2014.
- Develop the FY 2018-23 FRCD/EGWD Strategic Plan
- Advance opportunities of potential groundwater recharge opportunities for the FRCD and the EGWD.
- Complete the fire system backflow prevention program associated and update the Backflow/Cross-Connection Control Program ordinance.
- Complete the evaluation of EGWD utility billing methods and implement changes as determined to be appropriate.
- Complete the changes to the EGWD banking and payment processing procedures.
- Complete all approved CIP projects identified in the EGWD FY 2016-17 CIP budget
- Complete a review and implement revisions to the EGWD procurement policies
- Complete the information technology security review/audit
- Redesign and launch a new FRCD/EGWD website improving numerous customer service features, and developing a long term approach for keeping it current.

Human Resources

- Administer the classification and pay plan for EGWD to ensure that the pay and benefits package is competitive with the industry.
- Recruit qualified candidates for vacant positions and oversee the hiring process.
- Schedule training for employees, supervisors, and managers to maintain required compliance.
- Help employees develop to their full potential on the job through coordinating training and development, and personal coaching and mentoring.
- Maintain timely employee evaluations and merit increases.
- Review personnel policies and practices and make recommendations for updates and additions.
- Promote good morale through employee recognition.
- Promote the general well-being of the workforce by providing available resources.



Program Manager

- Implement an updated Water Conservation Program, including the development of a new Water Shortage Contingency Plan and enhanced public outreach
- Manage the District's Safety Program, including coordinating safety training, equipment inspections and other duties as the Safety Officer.
- Track State and Federal legislation, advise of bills important to the EGWD/FRCD, and work with associated agencies such as RWA and CSDA to lobby on issues of interest.
- Seek and obtain available grant opportunities for the EGWD and FRCD.
- Develop, implement, and conduct a new Public Information and Outreach Program, including the development of pre-drafted public notices and outreach materials, and the issuance of regular newsletters and bill inserts to customers.

Finance

- Maintain strong budget management, procurement and internal control culture to ensure EGWD meets the Board's and the financial community's expectations for continued strong financial performance.
- Provide excellent customer service to the Elk Grove Water District ratepayers; improve the billing system; and address billing conflicts in a timely manner.
- Process and monitor payroll and the accounts payable function to assure timeliness and correctness.
- Work with EGWD's technology consultants to design an enhanced billing system; and develop, implement, and maintain a long-range technology plan for the effective and efficient use of technology for information systems throughout the organization.
- Manage EGWD's debt service maintaining strict compliance with bond covenants.
- Provide prompt and accurate management reports.
- Maintain the general ledger and the accounting system.
- Enhance EGWD's internal controls by development and implementation of internal auditing procedures.
- Revisit the EGWD water rate model with the goal of deferring or reducing future planned rate adjustments.
- Manage the EGWD investment portfolio to potentially increase investment earnings while maintaining safety and liquidity.
- Review utility billing methods to consider automatic bill pay and semi-monthly billing.
- Complete a review and /or revisions to the EGWD procurement policies.



TECHNICAL SERVICES

The Technical Services Division is responsible for developing and implementing the capital improvement program, and provides planning, engineering, construction management and technical support for EGWD operations. The Technical Services division includes the Assistant General Manager, Associate Civil Engineer (position currently vacant), Geographic Information System (GIS) Technician, and Administrative Assistant. The division is headed by the Assistant General Manager who reports to the General Manager.



FY 2016-17 OBJECTIVES

Technical Services

- Complete all required CIP projects identified in the FY 2016-17 CIP budget.
- Develop the FY 2018-2022 CIP for the next fiscal year.
- Provide technical support as needed to the Utility Department for the construction of the Service Line Replacements project, Kent Street Water Main project, the Business Center-CSD Building Water Main project, and the Fiber Optic Cable project.
- Provide technical support as needed to the Treatment and Distribution Departments.
- Participate in the region's efforts to form a Groundwater Sustainability Agency to comply with the requirements of the Sustainable Groundwater Management Act of 2014.
- Manage the Geographic Information System.
- Manage the Asset Management Program.

OPERATIONS

The Operations Division consists of the Treatment, Distribution, and Utility Departments. The purpose of Operations is to operate and maintain all facilities in a manner that safeguards public and employee health, complies with all regulatory requirements, and ensures outstanding customer service. The oversight of this Division is currently overseen by the General Manager.

FY 2016-17 OBJECTIVES

Treatment Department

- Operate and maintain of EGWD's water supply and treatment facilities ensuring safe and reliable water supplies to customers.
- Maintain strict compliance with all requirements imposed by the local, State, and Federal regulatory agencies with the intent of safeguarding public health and the environment.
- Complete the development of the fire system backflow prevention program
- Manage the Domestic Backflow/Cross-Connection Control Program.
- Operate the Hampton Water Treatment Plant after the conversion to arsenic treatment is complete

Distribution Department

- Repair and maintain EGWD's water distribution system, responding to emergencies quickly and minimizing the loss of potable water.
- Maintain EGWD's fire hydrants, ensuring reliability of fire flows during emergencies.
- Maintain the valve exercising program, ensuring that every valve is checked and exercised every three years.
- Conduct meter reading, maintains a balanced program of reading each customer's meter between 28-32 days.
- Field customer service requests and conduct first-call responses.
- Respond to all Underground Service Alert requests within 48 hours in compliance with State law.
- Abide by all State and Federal regulations regarding repairs that impact potable water.

Utility Department

- Advance the Service Line Replacements project, combining certain installations with the water main replacement projects.
- Construct the Kent St. Water Main, and Business Center-CSD Water Main projects to improve the water distribution system.
- Construct the Fiber Optic Cable project associated with the proposed I.T. center at the Railroad Water Treatment Facility.
- Provide general construction services with EGWD personnel, thereby minimizing the need for outsourced contractors.



ELK GROVE WATER DISTRICT
LONG-TERM INDEBTEDNESS
CERTIFICATES OF PARTICIPATION
BOND COVENANT RATIOS

Elk Grove Water District Fiscal Year 2016-17 Operating Budget

June 22, 2016

**Elk Grove Water District
Long-Term Indebtedness to Maturity**

Payment Date	Total Principal	Total Interest	Fiscal Year Total
9/1/2016	1,065,000.00	813,859.38	
3/1/2017	-	936,059.38	2,814,918.76
9/1/2017	1,990,000.00	936,059.38	
3/1/2018	-	897,289.38	3,823,348.76
9/1/2018	2,070,000.00	897,289.38	
3/1/2019	-	856,619.38	3,823,908.76
9/1/2019	2,165,000.00	856,619.38	
3/1/2020	-	805,119.38	3,826,738.76
9/1/2020	2,300,000.00	805,119.38	
3/1/2021	-	750,349.38	3,855,468.76
9/1/2021	2,440,000.00	750,349.38	
3/1/2022	-	692,149.38	3,882,498.76
9/1/2022	2,560,000.00	692,149.38	
3/1/2023	-	631,054.38	3,883,203.76
9/1/2023	2,675,000.00	631,054.38	
3/1/2024	-	580,939.38	3,886,993.76
9/1/2024	2,780,000.00	580,939.38	
3/1/2025	-	527,089.38	3,888,028.76
9/1/2025	2,935,000.00	527,089.38	
3/1/2026	-	479,413.13	3,941,502.51
9/1/2026	3,075,000.00	479,413.13	
3/1/2027	-	426,633.75	3,981,046.88
9/1/2027	3,180,000.00	426,633.75	
3/1/2028	-	370,576.25	3,977,210.00
9/1/2028	3,295,000.00	370,576.25	
3/1/2029	-	310,960.00	3,976,536.25
9/1/2029	3,430,000.00	310,960.00	
3/1/2030	-	234,170.00	3,975,130.00
9/1/2030	3,595,000.00	234,170.00	
3/1/2031	-	158,190.00	3,987,360.00
9/1/2031	3,745,000.00	158,190.00	
3/1/2032	-	80,735.00	3,983,925.00
9/1/2032	3,900,000.00	80,735.00	
3/1/2033	-	-	3,980,735.00
Totals	47,200,000.00	18,288,554.48	65,488,554.48

Notes

- (1) Amounts paid in FY 2015/16 prior to the refunding
- (2) Prior certificates accrued interest paid at closing and contributed as a source of funds to the 2016 Series A Bonds

Elk Grove Water District Fiscal Year 2016-17 Operating Budget
June 22, 2016

Elk Grove Water District				
Fiscal Year 2016-17				
Long-Term Indebtedness				
Schedule of Required Payments				
Series	Description	Principal	Interest	Total Payment
2002 A	Refunding COP, EGWD	\$ 375,000	\$ 7,969	\$ 382,969
2002 B	Capital Improvement COP, EGWD	-	-	-
2003 A	Capital Improvement COP, EGWD	-	-	-
2005 A	Capital Improvement COP, EGWD	-	-	-
2014 A	Water Revenue Refunding Bonds	715,000	1,363,519	2,078,519
2016 A	Water Revenue Refunding Bonds	350,000	386,400	736,400
	TOTAL DEBT SERVICE PAYMENTS	\$ 1,440,000	\$ 1,757,888	\$ 3,197,888
	Debt Service Coverage Ratio			
	Required	Ratio		
	Debt Covenant - 1.15	1.54		
	Net Income	\$ 4,920,241		
	Total COP Debt Service	\$ 3,197,888		

ACRONYMS & GLOSSARY OF TERMS

A

Account – A category that identifies the justification of the transaction of funds received or paid.

Account Balance – The difference in dollars between the total debits and the total credits in an account.

Accrual Basis of Accounting – A basis of accounting under which increases and decreases in economic resources are recognized as soon as the underlying event or transaction occurs. Revenues are recognized when earned and expenses are recognized when incurred, regardless of the timing of related cash flows.

Accrual – The recognition of a revenue or expense in a current period even though the actual cash may not be received or paid until a following period.

Acre-foot of Water – The volume of water that covers one acre to a depth of one foot; 43,560 cubic feet; 1,233.5 cubic meters; 325,872 gallons.

Actual – The final audited revenue / expenditure results of operations for the fiscal year indicated.

ACWA – Association of California Water Agencies.

AICPA – American Institute of Certified Public Accountants.

Amortization – Gradual reduction, redemption, or liquidation of the balance of an account according to a specified times and amounts.

Assets – Resources owned or held by EGWD/FRCD which have monetary value.

Audit – An examination of the books and records of EGWD/FRCD to determine financial status and results of operations (excess or loss).

AWWA – American Water Works Association

B

Backflow – The backing up of water through a conduit or channel in the direction opposite to normal flow.

BMPs – Best Management Practices.

Board of Directors – The EGWD/FRCD is governed by a Board, the members of which are elected by the voters within the FRCD boundaries. The Board sets policy and provides overall leadership for EGWD/FRCD including the mission, goals, priorities and resource allocation.

Bond Issuance Costs – The costs incurred by the bond issuer during the planning, marketing and sale of a bond issue.

Budget Calendar – The schedule of key dates or milestones which the EGWD follows in the preparation, adoption, and administration of the budget.

Budgetary Control - The control of management in accordance with the approved budget to keep expenditures within the limitations of available appropriations and available revenues.

C

CAC – Community Advisory Committee.

CalPERS – California Employees Public Retirement System.

Capital Equipment (Assets) – Fixed assets such as vehicles, computers, equipment, technical instruments, etc., which have a life expectancy of more than one year and a value over \$5,000.

Cash Flows – The movement of cash in and out of the EGWD from day-to-day activities.

Cash Management – The management of cash flows in such a way that interest and penalties paid are minimized and interest earned is maximized. Funds received are deposited on the day of receipt and invested as soon as the funds are available. The EGWD maximizes the return on all funds available for investment without sacrifice of safety or necessary liquidity.

CCR – Consumer Confidence Report.

CMTA – California Municipal Treasurer’s Association.

COPs – Certificates of Participation. Financing in which an individual buys a share of the periodic revenues of an agreement made by a municipal or governmental entity, rather than the bond being secured by those revenues.

Consumer Price Index (CPI) – A statistical description of price levels provided by the U.S. Department of Labor. The index is used as a measure of the increase in the cost of living or doing business (i.e. economic inflation).

CSDA – California Special Districts Association.

Current Assets – Cash plus assets that are expected to be converted to cash, sold or consumed during the next 12 months or as a part of the normal operating cycle.

Current Liabilities – Obligations that will become due within the next year or within the normal operating cycle, if longer than a year.

D

Debt – An obligation resulting from the borrowing of money or from the purchase of goods and services. These include bonds and accounts payable.

Debt Service – The payment of principal and interest on any short-term and long-term debt.

Debt Service Requirements – The amount of money required to pay interest and principal on outstanding debt.

Depreciation – The allocation of the acquisition cost of plant, property and equipment to the particular periods or products that benefit from the utilization of the asset in service.

E

Easement – An acquired legal right to the use of land owned by others.

EGWD – Elk Grove Water District.

Enterprise Fund – A fund established to account for the operation of self-supporting enterprises.

Expenditures – A decrease in net financial resources, actual payment for goods and services received.

F

Financial Statement – A set of summary documents which pertain to financial information that consist of the following: Balance Sheet or Combining Schedule of Net Assets, Income Statement or Combining Schedule of Revenues and Expenses, Statement of Cash Flows, Notes of Financial Statements and, in the EGWD's case, various Supplements, Schedules, etc.

Fiscal Policy – The EGWD's policies with respect to revenues, spending, and debt management as these relate to services, programs and capital investment.

Fixed Assets – Long-term tangible assets that have a normal use expectancy of more than one year and do not lose their individual identity through use. Fixed assets include primarily buildings, equipment, and land.

FRCD – Florin Resource Conservation District.

Fund – A fiscal and accounting entity with a self-balancing set of accounts in which cash and other financial resources, all related liabilities and residual equities, or balances and changes therein, are recorded and segregated to carry on specific activities or attain certain objectives in accordance with special regulations, restrictions or limitations.

Fund Balance – The cumulative difference of all revenues and all expenditures of the fund from the time the EGWD was established. Fund balance is also considered to be the difference between fund assets and fund liabilities and is sometimes referred to as "fund equity" at any given point in time.

G

Generally Accepted Accounting Principles (GAAP) – Uniform minimum standards of, and guidelines for, external financial accounting and reporting. They govern the form and content of the basic financial statements of an entity. GAAP

encompasses the conventions, rules, and procedures necessary to define accepted accounting practices at a particular time. They include not only broad guidelines of general application, but also detailed practices and procedures. GAAP provides a standard by which to measure financial presentations. The primary authoritative statement on the application of GAAP to state and local governments is Government Accounting Standards Board (GASB) pronouncements.

Geographic Information System (GIS) – An organized collection of computer hardware, software and geographic data designed to efficiently capture, store, update, manipulate, analyze, and display all forms of geographically referenced information.

Goals – General statements of desired state, condition, or situation to be achieved, which may be viewed from a short or long term perspective.

Governmental Accounting Standards Board (GASB) – Their mission is to establish and improve standards of state and local governmental accounting and financial reporting that will result in useful information for users of financial reports.

Governmental Finance Officers of America (GFOA) – Their purpose is to enhance and promote the professional management of governments for the public benefit. The GFOA accomplishes this mission by identifying and developing financial policies and practices and promoting them through education, training and leadership.

Groundwater – Water produced by pumping from underground.

H

I

Independent Auditor – External public accounting firm hired to audit the annual financial statements and express an opinion on those statements as to conformity with generally accepted accounting principles.

Infrastructure – EGWD owned capital assets that provide services to the ratepayers.

Internal Control – Methods and procedures that are primarily concerned with the authorization of transactions, safeguarding of assets, and accuracy of the financial records.

Inventories – Items held for future use.

Investment Income – Income derived by investing certain fund balance in interest-yielding securities in compliance with the provisions of the EGWD's Investment policy.

J

K

L

Liabilities – Obligations incurred in past or current transactions requiring present or future settlement.

Long-Term Debt – Debt with a maturity of more than one year after the date of issuance.

M

Meter – An instrument of measuring the flow of water.

Mid-Year Review – Midway through the fiscal year the current year budget is evaluated based on spending to date and current projections. The primary areas reviewed and analyzed are year-to-date expenditure and revenue status plus expenditure and revenue projections for the remainder of the year.

Modified Accrual Basis – The accrual basis of accounting adapted to the governmental fund type. Revenues are recognized when they become both “measurable” and “available to finance expenditures of the current period.” Expenditures are recognized when the liability is incurred except on long-term debt which is recognized when due.

N

Notes Payable – Long or short-term obligations that are payable according to a contract or agreement in which the timeframe is executed.

O

Objective – A statement of purpose defined more specifically than goals, defining the result-oriented activities necessary to achieve a stated goal.

Obligation – Amounts which the EGWD may be legally required to meet out of its resources and includes not only actual liabilities, but also encumbrances not yet paid.

Operating Expense – All costs required for the daily operation of the EGWD necessary to provide services and maintain the systems in good operating condition that are not considered capital improvements or debt repayments.

Overtime – Hours worked in excess of 40 hours per work week or hours worked in excess of those scheduled in a shift.

P

Projected – An estimate of revenues or expenditures based on past trends, the present economic situation and future financial forecasts.

PTO – Personal time off.

Q

R

Ratepayers– Those being provided with water service by Elk Grove Water District.

Refunding Bonds – Bonds issued to retire bonds already outstanding.

Reimbursements – Payment made to someone for out-of-pocket expenses incurred.

Reserves – An account used to indicate that a portion of a fund’s assets are restricted for a specific purpose.

Revenue – An inflow of assets in exchange for services.

Risk Management – A coordinated effort to minimize costs – typically where insurance policies are purchased to manage the EGWD’s exposure to various risks of loss; Workers’ Compensation; theft of, damage to, and destruction of assets, errors and omissions; injuries to employees; and natural disasters.

RWA – Regional Water Authority.

S

SCADA System – “**Supervisory Control and Data Acquisition**” System. The computer system that collects data, processes the data and allows operating personnel to take corrective actions.

T

Treated Water – Water which has been processed through the EGWD’s water treatment plant(s) or imported from other utilities to supplement the EGWD’s water supplies.

U

V

Variance – The dollar and/or percentage difference between two sets of figures.

VTO – Vacation time off.

W

Water Conservation – Reducing the demand for water through activities that alter water use practices, e.g., improving efficiency in water use, and reducing losses of water from leaks.

Water Quality – The chemical, physical and biological characteristics of water with respect to its suitability for a particular purpose. The same water may be of good quality for one purpose or use, and bad for another, depending on its characteristics and the requirements for the particular use.

Well – A vertical drilled hole into an underground formation, usually to obtain a source of water, to monitor ground water quality or to determine the position of the water table.

X

Y

Z

“ELK GROVE WATER DISTRICT FISCAL YEAR 2016-17 RATES & FEES SCHEDULE.”

[Attached behind this cover page]

**Elk Grove Water District
Rates & Fees Schedule
Fiscal Year 2016-17**

Use Charges:

Fixed charge based on the number of accounts and the size of the water meter/connections.

Connection Size	Jan. 1, 2016	Jan. 1, 2017
1"	\$ 62.84	\$ 65.04
1.5"	\$ 88.45	\$ 91.55
2"	\$ 119.18	\$ 123.35
3"	\$ 190.89	\$ 197.57
4"	\$ 293.33	\$ 303.60
6"	\$ 549.43	\$ 568.86
8"	\$ 856.75	\$ 886.74
10"	\$ 1,215.29	\$ 1,257.83

Commodity charge for units of water used in a month.

Service Type	Jan. 1, 2016	Jan. 1, 2017
Residential Metered		
Tier 1 (0-30 CCF)	\$ 1.48	\$ 1.53
Tier 2 (30.01+ CCF)	\$ 2.93	\$ 3.03
CCF = Hundred Cubic Feet		
Non-residential	\$ 1.67	\$ 1.73
Irrigation	\$ 1.80	\$ 1.86

Other Fees:

Private Fire Protection Service Rates:

Connection Size	Jan. 1, 2016	Jan. 1, 2017
2"	\$ 2.87	\$ 2.98
3"	\$ 8.35	\$ 8.68
4"	\$ 17.80	\$ 18.51
6"	\$ 51.70	\$ 53.77
8"	\$ 110.17	\$ 114.58
10"	\$ 198.12	\$ 206.04
12"	\$ 320.02	\$ 332.82

**Elk Grove Water District
Rates & Fees Schedule
Fiscal Year 2016-17**

New Connections: Effective June 26, 2013

Fees for new connection to EGWD contain two components. The base charge for a 1 inch meter is \$926.00 and larger meter installations will be charged any additional time and material (T&M) cost. The second is a capacity charge which covers the cost if "buying-in" to an existing system. New connections in EGWD's Service Area 2 do not pay the capacity charge, as those costs are part of Sacramento County's infrastructure.

Meter Size	Meter Charge	Capacity Fee	Total
1"	\$ 926	\$ 3,206	\$ 4,132
1.5"	\$ 926 + T&M	\$ 6,413	\$ 7,339+
2"	\$ 926 + T&M	\$ 10,260	\$ 11,186+
3"	\$ 926 + T&M	\$ 19,238	\$ 20,164+
4"	\$ 926 + T&M	\$ 32,063	\$ 32,989+
6"	\$ 926 + T&M	\$ 64,125	\$ 65,051+

Other: Effective June 26, 2013

Account set up	\$30.00
Return check charge	\$35.00, plus amount of check
Over the phone payments	\$5.00
Meter re-read	
First request	Free
Subsequent requests	\$25.00
Photocopies	
Black and white	\$0.10/page
Color	\$0.15/page
Delinquency shutoff	
Delinquent amount	Amount of unpaid bill
Door hanger	\$25.00
Field service call	\$100.00
24 hour turn-on fee	\$100.00
Meter testing	\$47/hour
Back flow testing	\$70.00
Fire flow testing	\$156.00
Violation of ordinance (within 1 year)	
First occurrence	\$100.00
Second occurrence	\$200.00
Each additional occurrence	\$500.00
Plan check fees	
Irrigation only	\$500.00
9 lots (EDUs) or less	\$2,000.00
10 lots (EDUs) or more	\$5,000.00
Construction/temporary service	
Installation & removal	\$194.00
Weekly rental	\$50.00
Deposit	\$2,000.00

“ELK GROVE WATER DISTRICT FISCAL YEAR 2016-17 SALARY SCHEDULE.”

[Attached behind this cover page]

ELK GROVE WATER DISTRICT

Salary Schedule

Annual, Monthly, Bi-Weekly & Hourly Wage

As of July 1, 2016

Grade	Step I	Step II	Step III	Step IV	Step V
1	\$ 16,806.40	\$ 17,638.40	\$ 18,532.80	\$ 19,448.00	\$ 20,425.60
	\$ 1,400.53	\$ 1,469.87	\$ 1,544.40	\$ 1,620.67	\$ 1,702.13
	\$ 646.40	\$ 678.40	\$ 712.80	\$ 748.00	\$ 785.60
	\$ 8.08	\$ 8.48	\$ 8.91	\$ 9.35	\$ 9.82
2	\$ 17,222.40	\$ 18,096.00	\$ 18,990.40	\$ 19,947.20	\$ 20,945.60
	\$ 1,435.20	\$ 1,508.00	\$ 1,582.53	\$ 1,662.27	\$ 1,745.47
	\$ 662.40	\$ 696.00	\$ 730.40	\$ 767.20	\$ 805.60
	\$ 8.28	\$ 8.70	\$ 9.13	\$ 9.59	\$ 10.07
3	\$ 17,638.40	\$ 18,532.80	\$ 19,448.00	\$ 20,425.60	\$ 21,444.80
	\$ 1,469.87	\$ 1,544.40	\$ 1,620.67	\$ 1,702.13	\$ 1,787.07
	\$ 678.40	\$ 712.80	\$ 748.00	\$ 785.60	\$ 824.80
	\$ 8.48	\$ 8.91	\$ 9.35	\$ 9.82	\$ 10.31
4	\$ 18,096.00	\$ 18,990.40	\$ 19,947.20	\$ 20,945.60	\$ 21,985.60
	\$ 1,508.00	\$ 1,582.53	\$ 1,662.27	\$ 1,745.47	\$ 1,832.13
	\$ 696.00	\$ 730.40	\$ 767.20	\$ 805.60	\$ 845.60
	\$ 8.70	\$ 9.13	\$ 9.59	\$ 10.07	\$ 10.57
5	\$ 18,532.80	\$ 19,448.00	\$ 20,425.60	\$ 21,444.80	\$ 22,526.40
	\$ 1,544.40	\$ 1,620.67	\$ 1,702.13	\$ 1,787.07	\$ 1,877.20
	\$ 712.80	\$ 748.00	\$ 785.60	\$ 824.80	\$ 866.40
	\$ 8.91	\$ 9.35	\$ 9.82	\$ 10.31	\$ 10.83
6	\$ 18,990.40	\$ 19,947.20	\$ 20,945.60	\$ 21,985.60	\$ 23,088.00
	\$ 1,582.53	\$ 1,662.27	\$ 1,745.47	\$ 1,832.13	\$ 1,924.00
	\$ 730.40	\$ 767.20	\$ 805.60	\$ 845.60	\$ 888.00
	\$ 9.13	\$ 9.59	\$ 10.07	\$ 10.57	\$ 11.10
7	\$ 19,448.00	\$ 20,425.60	\$ 21,444.80	\$ 22,526.40	\$ 23,649.60
	\$ 1,620.67	\$ 1,702.13	\$ 1,787.07	\$ 1,877.20	\$ 1,970.80
	\$ 748.00	\$ 785.60	\$ 824.80	\$ 866.40	\$ 909.60
	\$ 9.35	\$ 9.82	\$ 10.31	\$ 10.83	\$ 11.37
8	\$ 19,947.20	\$ 20,945.60	\$ 21,985.60	\$ 23,088.00	\$ 24,232.00
	\$ 1,662.27	\$ 1,745.47	\$ 1,832.13	\$ 1,924.00	\$ 2,019.33
	\$ 767.20	\$ 805.60	\$ 845.60	\$ 888.00	\$ 932.00
	\$ 9.59	\$ 10.07	\$ 10.57	\$ 11.10	\$ 11.65
9	\$ 20,425.60	\$ 21,444.80	\$ 22,526.40	\$ 23,649.60	\$ 24,835.20
	\$ 1,702.13	\$ 1,787.07	\$ 1,877.20	\$ 1,970.80	\$ 2,069.60
	\$ 785.60	\$ 824.80	\$ 866.40	\$ 909.60	\$ 955.20
	\$ 9.82	\$ 10.31	\$ 10.83	\$ 11.37	\$ 11.94
10	\$ 20,945.60	\$ 21,985.60	\$ 23,088.00	\$ 24,232.00	\$ 25,459.20
	\$ 1,745.47	\$ 1,832.13	\$ 1,924.00	\$ 2,019.33	\$ 2,121.60
	\$ 805.60	\$ 845.60	\$ 888.00	\$ 932.00	\$ 979.20
	\$ 10.07	\$ 10.57	\$ 11.10	\$ 11.65	\$ 12.24

ELK GROVE WATER DISTRICT

Salary Schedule

Annual, Monthly, Bi-Weekly & Hourly Wage

As of July 1, 2016

Grade	Step I	Step II	Step III	Step IV	Step V
11	\$ 21,444.80	\$ 22,526.40	\$ 23,649.60	\$ 24,835.20	\$ 26,062.40
	\$ 1,787.07	\$ 1,877.20	\$ 1,970.80	\$ 2,069.60	\$ 2,171.87
	\$ 824.80	\$ 866.40	\$ 909.60	\$ 955.20	\$ 1,002.40
	\$ 10.31	\$ 10.83	\$ 11.37	\$ 11.94	\$ 12.53
12	\$ 21,985.60	\$ 23,088.00	\$ 24,232.00	\$ 25,459.20	\$ 26,728.00
	\$ 1,832.13	\$ 1,924.00	\$ 2,019.33	\$ 2,121.60	\$ 2,227.33
	\$ 845.60	\$ 888.00	\$ 932.00	\$ 979.20	\$ 1,028.00
	\$ 10.57	\$ 11.10	\$ 11.65	\$ 12.24	\$ 12.85
13	\$ 22,526.40	\$ 23,649.60	\$ 24,835.20	\$ 26,062.40	\$ 27,372.80
	\$ 1,877.20	\$ 1,970.80	\$ 2,069.60	\$ 2,171.87	\$ 2,281.07
	\$ 866.40	\$ 909.60	\$ 955.20	\$ 1,002.40	\$ 1,052.80
	\$ 10.83	\$ 11.37	\$ 11.94	\$ 12.53	\$ 13.16
14	\$ 23,088.00	\$ 24,232.00	\$ 25,459.20	\$ 26,728.00	\$ 28,059.20
	\$ 1,924.00	\$ 2,019.33	\$ 2,121.60	\$ 2,227.33	\$ 2,338.27
	\$ 888.00	\$ 932.00	\$ 979.20	\$ 1,028.00	\$ 1,079.20
	\$ 11.10	\$ 11.65	\$ 12.24	\$ 12.85	\$ 13.49
15	\$ 23,649.60	\$ 24,835.20	\$ 26,062.40	\$ 27,372.80	\$ 28,745.60
	\$ 1,970.80	\$ 2,069.60	\$ 2,171.87	\$ 2,281.07	\$ 2,395.47
	\$ 909.60	\$ 955.20	\$ 1,002.40	\$ 1,052.80	\$ 1,105.60
	\$ 11.37	\$ 11.94	\$ 12.53	\$ 13.16	\$ 13.82
16	\$ 24,232.00	\$ 25,459.20	\$ 26,728.00	\$ 28,059.20	\$ 29,452.80
	\$ 2,019.33	\$ 2,121.60	\$ 2,227.33	\$ 2,338.27	\$ 2,454.40
	\$ 932.00	\$ 979.20	\$ 1,028.00	\$ 1,079.20	\$ 1,132.80
	\$ 11.65	\$ 12.24	\$ 12.85	\$ 13.49	\$ 14.16
17	\$ 24,835.20	\$ 26,062.40	\$ 27,372.80	\$ 28,745.60	\$ 30,180.80
	\$ 2,069.60	\$ 2,171.87	\$ 2,281.07	\$ 2,395.47	\$ 2,515.07
	\$ 955.20	\$ 1,002.40	\$ 1,052.80	\$ 1,105.60	\$ 1,160.80
	\$ 11.94	\$ 12.53	\$ 13.16	\$ 13.82	\$ 14.51
18	\$ 25,459.20	\$ 26,728.00	\$ 28,059.20	\$ 29,452.80	\$ 30,929.60
	\$ 2,121.60	\$ 2,227.33	\$ 2,338.27	\$ 2,454.40	\$ 2,577.47
	\$ 979.20	\$ 1,028.00	\$ 1,079.20	\$ 1,132.80	\$ 1,189.60
	\$ 12.24	\$ 12.85	\$ 13.49	\$ 14.16	\$ 14.87
19	\$ 26,062.40	\$ 27,372.80	\$ 28,745.60	\$ 30,180.80	\$ 31,678.40
	\$ 2,171.87	\$ 2,281.07	\$ 2,395.47	\$ 2,515.07	\$ 2,639.87
	\$ 1,002.40	\$ 1,052.80	\$ 1,105.60	\$ 1,160.80	\$ 1,218.40
	\$ 12.53	\$ 13.16	\$ 13.82	\$ 14.51	\$ 15.23
20	\$ 26,728.00	\$ 28,059.20	\$ 29,452.80	\$ 30,929.60	\$ 32,489.60
	\$ 2,227.33	\$ 2,338.27	\$ 2,454.40	\$ 2,577.47	\$ 2,707.47
	\$ 1,028.00	\$ 1,079.20	\$ 1,132.80	\$ 1,189.60	\$ 1,249.60
	\$ 12.85	\$ 13.49	\$ 14.16	\$ 14.87	\$ 15.62

ELK GROVE WATER DISTRICT

Salary Schedule

Annual, Monthly, Bi-Weekly & Hourly Wage

As of July 1, 2016

Grade	Step I	Step II	Step III	Step IV	Step V
21	\$ 27,372.80	\$ 28,745.60	\$ 30,180.80	\$ 31,678.40	\$ 33,280.00
	\$ 2,281.07	\$ 2,395.47	\$ 2,515.07	\$ 2,639.87	\$ 2,773.33
	\$ 1,052.80	\$ 1,105.60	\$ 1,160.80	\$ 1,218.40	\$ 1,280.00
	\$ 13.16	\$ 13.82	\$ 14.51	\$ 15.23	\$ 16.00
22	\$ 28,059.20	\$ 29,452.80	\$ 30,929.60	\$ 32,489.60	\$ 34,112.00
	\$ 2,338.27	\$ 2,454.40	\$ 2,577.47	\$ 2,707.47	\$ 2,842.67
	\$ 1,079.20	\$ 1,132.80	\$ 1,189.60	\$ 1,249.60	\$ 1,312.00
	\$ 13.49	\$ 14.16	\$ 14.87	\$ 15.62	\$ 16.40
23	\$ 28,745.60	\$ 30,180.80	\$ 31,678.40	\$ 33,280.00	\$ 34,944.00
	\$ 2,395.47	\$ 2,515.07	\$ 2,639.87	\$ 2,773.33	\$ 2,912.00
	\$ 1,105.60	\$ 1,160.80	\$ 1,218.40	\$ 1,280.00	\$ 1,344.00
	\$ 13.82	\$ 14.51	\$ 15.23	\$ 16.00	\$ 16.80
24	\$ 29,452.80	\$ 30,929.60	\$ 32,489.60	\$ 34,112.00	\$ 35,817.60
	\$ 2,454.40	\$ 2,577.47	\$ 2,707.47	\$ 2,842.67	\$ 2,984.80
	\$ 1,132.80	\$ 1,189.60	\$ 1,249.60	\$ 1,312.00	\$ 1,377.60
	\$ 14.16	\$ 14.87	\$ 15.62	\$ 16.40	\$ 17.22
25	\$ 30,180.80	\$ 31,678.40	\$ 33,280.00	\$ 34,944.00	\$ 36,691.20
	\$ 2,515.07	\$ 2,639.87	\$ 2,773.33	\$ 2,912.00	\$ 3,057.60
	\$ 1,160.80	\$ 1,218.40	\$ 1,280.00	\$ 1,344.00	\$ 1,411.20
	\$ 14.51	\$ 15.23	\$ 16.00	\$ 16.80	\$ 17.64
26	\$ 30,929.60	\$ 32,489.60	\$ 34,112.00	\$ 35,817.60	\$ 37,606.40
	\$ 2,577.47	\$ 2,707.47	\$ 2,842.67	\$ 2,984.80	\$ 3,133.87
	\$ 1,189.60	\$ 1,249.60	\$ 1,312.00	\$ 1,377.60	\$ 1,446.40
	\$ 14.87	\$ 15.62	\$ 16.40	\$ 17.22	\$ 18.08
27	\$ 31,678.40	\$ 33,280.00	\$ 34,944.00	\$ 36,691.20	\$ 38,521.60
	\$ 2,639.87	\$ 2,773.33	\$ 2,912.00	\$ 3,057.60	\$ 3,210.13
	\$ 1,218.40	\$ 1,280.00	\$ 1,344.00	\$ 1,411.20	\$ 1,481.60
	\$ 15.23	\$ 16.00	\$ 16.80	\$ 17.64	\$ 18.52
28	\$ 32,489.60	\$ 34,112.00	\$ 35,817.60	\$ 37,606.40	\$ 39,478.40
	\$ 2,707.47	\$ 2,842.67	\$ 2,984.80	\$ 3,133.87	\$ 3,289.87
	\$ 1,249.60	\$ 1,312.00	\$ 1,377.60	\$ 1,446.40	\$ 1,518.40
	\$ 15.62	\$ 16.40	\$ 17.22	\$ 18.08	\$ 18.98
29	\$ 33,280.00	\$ 34,944.00	\$ 36,691.20	\$ 38,521.60	\$ 40,435.20
	\$ 2,773.33	\$ 2,912.00	\$ 3,057.60	\$ 3,210.13	\$ 3,369.60
	\$ 1,280.00	\$ 1,344.00	\$ 1,411.20	\$ 1,481.60	\$ 1,555.20
	\$ 16.00	\$ 16.80	\$ 17.64	\$ 18.52	\$ 19.44
30	\$ 34,112.00	\$ 35,817.60	\$ 37,606.40	\$ 39,478.40	\$ 41,454.40
	\$ 2,842.67	\$ 2,984.80	\$ 3,133.87	\$ 3,289.87	\$ 3,454.53
	\$ 1,312.00	\$ 1,377.60	\$ 1,446.40	\$ 1,518.40	\$ 1,594.40
	\$ 16.40	\$ 17.22	\$ 18.08	\$ 18.98	\$ 19.93

ELK GROVE WATER DISTRICT

Salary Schedule

Annual, Monthly, Bi-Weekly & Hourly Wage

As of July 1, 2016

Grade	Step I	Step II	Step III	Step IV	Step V
31	\$ 34,944.00	\$ 36,691.20	\$ 38,521.60	\$ 40,435.20	\$ 42,473.60
	\$ 2,912.00	\$ 3,057.60	\$ 3,210.13	\$ 3,369.60	\$ 3,539.47
	\$ 1,344.00	\$ 1,411.20	\$ 1,481.60	\$ 1,555.20	\$ 1,633.60
	\$ 16.80	\$ 17.64	\$ 18.52	\$ 19.44	\$ 20.42
32	\$ 35,817.60	\$ 37,606.40	\$ 39,478.40	\$ 41,454.40	\$ 43,534.40
	\$ 2,984.80	\$ 3,133.87	\$ 3,289.87	\$ 3,454.53	\$ 3,627.87
	\$ 1,377.60	\$ 1,446.40	\$ 1,518.40	\$ 1,594.40	\$ 1,674.40
	\$ 17.22	\$ 18.08	\$ 18.98	\$ 19.93	\$ 20.93
33	\$ 36,691.20	\$ 38,521.60	\$ 40,435.20	\$ 42,473.60	\$ 44,595.20
	\$ 3,057.60	\$ 3,210.13	\$ 3,369.60	\$ 3,539.47	\$ 3,716.27
	\$ 1,411.20	\$ 1,481.60	\$ 1,555.20	\$ 1,633.60	\$ 1,715.20
	\$ 17.64	\$ 18.52	\$ 19.44	\$ 20.42	\$ 21.44
34	\$ 37,606.40	\$ 39,478.40	\$ 41,454.40	\$ 43,534.40	\$ 45,697.60
	\$ 3,133.87	\$ 3,289.87	\$ 3,454.53	\$ 3,627.87	\$ 3,808.13
	\$ 1,446.40	\$ 1,518.40	\$ 1,594.40	\$ 1,674.40	\$ 1,757.60
	\$ 18.08	\$ 18.98	\$ 19.93	\$ 20.93	\$ 21.97
35	\$ 38,521.60	\$ 40,435.20	\$ 42,473.60	\$ 44,595.20	\$ 46,820.80
	\$ 3,210.13	\$ 3,369.60	\$ 3,539.47	\$ 3,716.27	\$ 3,901.73
	\$ 1,481.60	\$ 1,555.20	\$ 1,633.60	\$ 1,715.20	\$ 1,800.80
	\$ 18.52	\$ 19.44	\$ 20.42	\$ 21.44	\$ 22.51
36	\$ 39,478.40	\$ 41,454.40	\$ 43,534.40	\$ 45,697.60	\$ 47,985.60
	\$ 3,289.87	\$ 3,454.53	\$ 3,627.87	\$ 3,808.13	\$ 3,998.80
	\$ 1,518.40	\$ 1,594.40	\$ 1,674.40	\$ 1,757.60	\$ 1,845.60
	\$ 18.98	\$ 19.93	\$ 20.93	\$ 21.97	\$ 23.07
37	\$ 40,435.20	\$ 42,473.60	\$ 44,595.20	\$ 46,820.80	\$ 49,150.40
	\$ 3,369.60	\$ 3,539.47	\$ 3,716.27	\$ 3,901.73	\$ 4,095.87
	\$ 1,555.20	\$ 1,633.60	\$ 1,715.20	\$ 1,800.80	\$ 1,890.40
	\$ 19.44	\$ 20.42	\$ 21.44	\$ 22.51	\$ 23.63
38	\$ 41,454.40	\$ 43,534.40	\$ 45,697.60	\$ 47,985.60	\$ 50,398.40
	\$ 3,454.53	\$ 3,627.87	\$ 3,808.13	\$ 3,998.80	\$ 4,199.87
	\$ 1,594.40	\$ 1,674.40	\$ 1,757.60	\$ 1,845.60	\$ 1,938.40
	\$ 19.93	\$ 20.93	\$ 21.97	\$ 23.07	\$ 24.23
39	\$ 42,473.60	\$ 44,595.20	\$ 46,820.80	\$ 49,150.40	\$ 51,625.60
	\$ 3,539.47	\$ 3,716.27	\$ 3,901.73	\$ 4,095.87	\$ 4,302.13
	\$ 1,633.60	\$ 1,715.20	\$ 1,800.80	\$ 1,890.40	\$ 1,985.60
	\$ 20.42	\$ 21.44	\$ 22.51	\$ 23.63	\$ 24.82
40	\$ 43,534.40	\$ 45,697.60	\$ 47,985.60	\$ 50,398.40	\$ 52,915.20
	\$ 3,627.87	\$ 3,808.13	\$ 3,998.80	\$ 4,199.87	\$ 4,409.60
	\$ 1,674.40	\$ 1,757.60	\$ 1,845.60	\$ 1,938.40	\$ 2,035.20
	\$ 20.93	\$ 21.97	\$ 23.07	\$ 24.23	\$ 25.44

ELK GROVE WATER DISTRICT

Salary Schedule

Annual, Monthly, Bi-Weekly & Hourly Wage

As of July 1, 2016

Grade	Step I	Step II	Step III	Step IV	Step V
41	\$ 44,595.20	\$ 46,820.80	\$ 49,150.40	\$ 51,625.60	\$ 54,204.80
	\$ 3,716.27	\$ 3,901.73	\$ 4,095.87	\$ 4,302.13	\$ 4,517.07
	\$ 1,715.20	\$ 1,800.80	\$ 1,890.40	\$ 1,985.60	\$ 2,084.80
	\$ 21.44	\$ 22.51	\$ 23.63	\$ 24.82	\$ 26.06
42	\$ 45,697.60	\$ 47,985.60	\$ 50,398.40	\$ 52,915.20	\$ 55,556.80
	\$ 3,808.13	\$ 3,998.80	\$ 4,199.87	\$ 4,409.60	\$ 4,629.73
	\$ 1,757.60	\$ 1,845.60	\$ 1,938.40	\$ 2,035.20	\$ 2,136.80
	\$ 21.97	\$ 23.07	\$ 24.23	\$ 25.44	\$ 26.71
43	\$ 46,820.80	\$ 49,150.40	\$ 51,625.60	\$ 54,204.80	\$ 56,908.80
	\$ 3,901.73	\$ 4,095.87	\$ 4,302.13	\$ 4,517.07	\$ 4,742.40
	\$ 1,800.80	\$ 1,890.40	\$ 1,985.60	\$ 2,084.80	\$ 2,188.80
	\$ 22.51	\$ 23.63	\$ 24.82	\$ 26.06	\$ 27.36
44	\$ 47,985.60	\$ 50,398.40	\$ 52,915.20	\$ 55,556.80	\$ 58,323.20
	\$ 3,998.80	\$ 4,199.87	\$ 4,409.60	\$ 4,629.73	\$ 4,860.27
	\$ 1,845.60	\$ 1,938.40	\$ 2,035.20	\$ 2,136.80	\$ 2,243.20
	\$ 23.07	\$ 24.23	\$ 25.44	\$ 26.71	\$ 28.04
45	\$ 49,150.40	\$ 51,625.60	\$ 54,204.80	\$ 56,908.80	\$ 59,758.40
	\$ 4,095.87	\$ 4,302.13	\$ 4,517.07	\$ 4,742.40	\$ 4,979.87
	\$ 1,890.40	\$ 1,985.60	\$ 2,084.80	\$ 2,188.80	\$ 2,298.40
	\$ 23.63	\$ 24.82	\$ 26.06	\$ 27.36	\$ 28.73
46	\$ 50,398.40	\$ 52,915.20	\$ 55,556.80	\$ 58,323.20	\$ 61,256.00
	\$ 4,199.87	\$ 4,409.60	\$ 4,629.73	\$ 4,860.27	\$ 5,104.67
	\$ 1,938.40	\$ 2,035.20	\$ 2,136.80	\$ 2,243.20	\$ 2,356.00
	\$ 24.23	\$ 25.44	\$ 26.71	\$ 28.04	\$ 29.45
47	\$ 51,625.60	\$ 54,204.80	\$ 56,908.80	\$ 59,758.40	\$ 62,732.80
	\$ 4,302.13	\$ 4,517.07	\$ 4,742.40	\$ 4,979.87	\$ 5,227.73
	\$ 1,985.60	\$ 2,084.80	\$ 2,188.80	\$ 2,298.40	\$ 2,412.80
	\$ 24.82	\$ 26.06	\$ 27.36	\$ 28.73	\$ 30.16
48	\$ 52,915.20	\$ 55,556.80	\$ 58,323.20	\$ 61,256.00	\$ 64,313.60
	\$ 4,409.60	\$ 4,629.73	\$ 4,860.27	\$ 5,104.67	\$ 5,359.47
	\$ 2,035.20	\$ 2,136.80	\$ 2,243.20	\$ 2,356.00	\$ 2,473.60
	\$ 25.44	\$ 26.71	\$ 28.04	\$ 29.45	\$ 30.92
49	\$ 54,204.80	\$ 56,908.80	\$ 59,758.40	\$ 62,732.80	\$ 65,873.60
	\$ 4,517.07	\$ 4,742.40	\$ 4,979.87	\$ 5,227.73	\$ 5,489.47
	\$ 2,084.80	\$ 2,188.80	\$ 2,298.40	\$ 2,412.80	\$ 2,533.60
	\$ 26.06	\$ 27.36	\$ 28.73	\$ 30.16	\$ 31.67
50	\$ 55,556.80	\$ 58,323.20	\$ 61,256.00	\$ 64,313.60	\$ 67,516.80
	\$ 4,629.73	\$ 4,860.27	\$ 5,104.67	\$ 5,359.47	\$ 5,626.40
	\$ 2,136.80	\$ 2,243.20	\$ 2,356.00	\$ 2,473.60	\$ 2,596.80
	\$ 26.71	\$ 28.04	\$ 29.45	\$ 30.92	\$ 32.46

ELK GROVE WATER DISTRICT

Salary Schedule

Annual, Monthly, Bi-Weekly & Hourly Wage

As of July 1, 2016

Grade	Step I	Step II	Step III	Step IV	Step V
51	\$ 56,908.80	\$ 59,758.40	\$ 62,732.80	\$ 65,873.60	\$ 69,180.80
	\$ 4,742.40	\$ 4,979.87	\$ 5,227.73	\$ 5,489.47	\$ 5,765.07
	\$ 2,188.80	\$ 2,298.40	\$ 2,412.80	\$ 2,533.60	\$ 2,660.80
	\$ 27.36	\$ 28.73	\$ 30.16	\$ 31.67	\$ 33.26
52	\$ 58,323.20	\$ 61,256.00	\$ 64,313.60	\$ 67,516.80	\$ 70,907.20
	\$ 4,860.27	\$ 5,104.67	\$ 5,359.47	\$ 5,626.40	\$ 5,908.93
	\$ 2,243.20	\$ 2,356.00	\$ 2,473.60	\$ 2,596.80	\$ 2,727.20
	\$ 28.04	\$ 29.45	\$ 30.92	\$ 32.46	\$ 34.09
53	\$ 59,758.40	\$ 62,732.80	\$ 65,873.60	\$ 69,180.80	\$ 72,633.60
	\$ 4,979.87	\$ 5,227.73	\$ 5,489.47	\$ 5,765.07	\$ 6,052.80
	\$ 2,298.40	\$ 2,412.80	\$ 2,533.60	\$ 2,660.80	\$ 2,793.60
	\$ 28.73	\$ 30.16	\$ 31.67	\$ 33.26	\$ 34.92
54	\$ 61,256.00	\$ 64,313.60	\$ 67,516.80	\$ 70,907.20	\$ 74,443.20
	\$ 5,104.67	\$ 5,359.47	\$ 5,626.40	\$ 5,908.93	\$ 6,203.60
	\$ 2,356.00	\$ 2,473.60	\$ 2,596.80	\$ 2,727.20	\$ 2,863.20
	\$ 29.45	\$ 30.92	\$ 32.46	\$ 34.09	\$ 35.79
55	\$ 62,732.80	\$ 65,873.60	\$ 69,180.80	\$ 72,633.60	\$ 76,252.80
	\$ 5,227.73	\$ 5,489.47	\$ 5,765.07	\$ 6,052.80	\$ 6,354.40
	\$ 2,412.80	\$ 2,533.60	\$ 2,660.80	\$ 2,793.60	\$ 2,932.80
	\$ 30.16	\$ 31.67	\$ 33.26	\$ 34.92	\$ 36.66
56	\$ 64,313.60	\$ 67,516.80	\$ 70,907.20	\$ 74,443.20	\$ 78,166.40
	\$ 5,359.47	\$ 5,626.40	\$ 5,908.93	\$ 6,203.60	\$ 6,513.87
	\$ 2,473.60	\$ 2,596.80	\$ 2,727.20	\$ 2,863.20	\$ 3,006.40
	\$ 30.92	\$ 32.46	\$ 34.09	\$ 35.79	\$ 37.58
57	\$ 65,873.60	\$ 69,180.80	\$ 72,633.60	\$ 76,252.80	\$ 80,080.00
	\$ 5,489.47	\$ 5,765.07	\$ 6,052.80	\$ 6,354.40	\$ 6,673.33
	\$ 2,533.60	\$ 2,660.80	\$ 2,793.60	\$ 2,932.80	\$ 3,080.00
	\$ 31.67	\$ 33.26	\$ 34.92	\$ 36.66	\$ 38.50
58	\$ 67,516.80	\$ 70,907.20	\$ 74,443.20	\$ 78,166.40	\$ 82,076.80
	\$ 5,626.40	\$ 5,908.93	\$ 6,203.60	\$ 6,513.87	\$ 6,839.73
	\$ 2,596.80	\$ 2,727.20	\$ 2,863.20	\$ 3,006.40	\$ 3,156.80
	\$ 32.46	\$ 34.09	\$ 35.79	\$ 37.58	\$ 39.46
59	\$ 69,180.80	\$ 72,633.60	\$ 76,252.80	\$ 80,080.00	\$ 84,073.60
	\$ 5,765.07	\$ 6,052.80	\$ 6,354.40	\$ 6,673.33	\$ 7,006.13
	\$ 2,660.80	\$ 2,793.60	\$ 2,932.80	\$ 3,080.00	\$ 3,233.60
	\$ 33.26	\$ 34.92	\$ 36.66	\$ 38.50	\$ 40.42
60	\$ 70,907.20	\$ 74,443.20	\$ 78,166.40	\$ 82,076.80	\$ 86,174.40
	\$ 5,908.93	\$ 6,203.60	\$ 6,513.87	\$ 6,839.73	\$ 7,181.20
	\$ 2,727.20	\$ 2,863.20	\$ 3,006.40	\$ 3,156.80	\$ 3,314.40
	\$ 34.09	\$ 35.79	\$ 37.58	\$ 39.46	\$ 41.43

ELK GROVE WATER DISTRICT

Salary Schedule

Annual, Monthly, Bi-Weekly & Hourly Wage

As of July 1, 2016

Grade	Step I	Step II	Step III	Step IV	Step V
61	\$ 72,633.60	\$ 76,252.80	\$ 80,080.00	\$ 84,073.60	\$ 88,275.20
	\$ 6,052.80	\$ 6,354.40	\$ 6,673.33	\$ 7,006.13	\$ 7,356.27
	\$ 2,793.60	\$ 2,932.80	\$ 3,080.00	\$ 3,233.60	\$ 3,395.20
	\$ 34.92	\$ 36.66	\$ 38.50	\$ 40.42	\$ 42.44
62	\$ 74,443.20	\$ 78,166.40	\$ 82,076.80	\$ 86,174.40	\$ 90,480.00
	\$ 6,203.60	\$ 6,513.87	\$ 6,839.73	\$ 7,181.20	\$ 7,540.00
	\$ 2,863.20	\$ 3,006.40	\$ 3,156.80	\$ 3,314.40	\$ 3,480.00
	\$ 35.79	\$ 37.58	\$ 39.46	\$ 41.43	\$ 43.50
63	\$ 76,252.80	\$ 80,080.00	\$ 84,073.60	\$ 88,275.20	\$ 92,705.60
	\$ 6,354.40	\$ 6,673.33	\$ 7,006.13	\$ 7,356.27	\$ 7,725.47
	\$ 2,932.80	\$ 3,080.00	\$ 3,233.60	\$ 3,395.20	\$ 3,565.60
	\$ 36.66	\$ 38.50	\$ 40.42	\$ 42.44	\$ 44.57
64	\$ 78,166.40	\$ 82,076.80	\$ 86,174.40	\$ 90,480.00	\$ 95,014.40
	\$ 6,513.87	\$ 6,839.73	\$ 7,181.20	\$ 7,540.00	\$ 7,917.87
	\$ 3,006.40	\$ 3,156.80	\$ 3,314.40	\$ 3,480.00	\$ 3,654.40
	\$ 37.58	\$ 39.46	\$ 41.43	\$ 43.50	\$ 45.68
65	\$ 80,080.00	\$ 84,073.60	\$ 88,275.20	\$ 92,705.60	\$ 97,323.20
	\$ 6,673.33	\$ 7,006.13	\$ 7,356.27	\$ 7,725.47	\$ 8,110.27
	\$ 3,080.00	\$ 3,233.60	\$ 3,395.20	\$ 3,565.60	\$ 3,743.20
	\$ 38.50	\$ 40.42	\$ 42.44	\$ 44.57	\$ 46.79
66	\$ 82,076.80	\$ 86,174.40	\$ 90,480.00	\$ 95,014.40	\$ 99,756.80
	\$ 6,839.73	\$ 7,181.20	\$ 7,540.00	\$ 7,917.87	\$ 8,313.07
	\$ 3,156.80	\$ 3,314.40	\$ 3,480.00	\$ 3,654.40	\$ 3,836.80
	\$ 39.46	\$ 41.43	\$ 43.50	\$ 45.68	\$ 47.96
67	\$ 84,073.60	\$ 88,275.20	\$ 92,705.60	\$ 97,323.20	\$ 102,190.40
	\$ 7,006.13	\$ 7,356.27	\$ 7,725.47	\$ 8,110.27	\$ 8,515.87
	\$ 3,233.60	\$ 3,395.20	\$ 3,565.60	\$ 3,743.20	\$ 3,930.40
	\$ 40.42	\$ 42.44	\$ 44.57	\$ 46.79	\$ 49.13
68	\$ 86,174.40	\$ 90,480.00	\$ 95,014.40	\$ 99,756.80	\$ 104,748.80
	\$ 7,181.20	\$ 7,540.00	\$ 7,917.87	\$ 8,313.07	\$ 8,729.07
	\$ 3,314.40	\$ 3,480.00	\$ 3,654.40	\$ 3,836.80	\$ 4,028.80
	\$ 41.43	\$ 43.50	\$ 45.68	\$ 47.96	\$ 50.36
69	\$ 88,275.20	\$ 92,705.60	\$ 97,323.20	\$ 102,190.40	\$ 107,307.20
	\$ 7,356.27	\$ 7,725.47	\$ 8,110.27	\$ 8,515.87	\$ 8,942.27
	\$ 3,395.20	\$ 3,565.60	\$ 3,743.20	\$ 3,930.40	\$ 4,127.20
	\$ 42.44	\$ 44.57	\$ 46.79	\$ 49.13	\$ 51.59
70	\$ 90,480.00	\$ 95,014.40	\$ 99,756.80	\$ 104,748.80	\$ 109,990.40
	\$ 7,540.00	\$ 7,917.87	\$ 8,313.07	\$ 8,729.07	\$ 9,165.87
	\$ 3,480.00	\$ 3,654.40	\$ 3,836.80	\$ 4,028.80	\$ 4,230.40
	\$ 43.50	\$ 45.68	\$ 47.96	\$ 50.36	\$ 52.88

ELK GROVE WATER DISTRICT

Salary Schedule

Annual, Monthly, Bi-Weekly & Hourly Wage

As of July 1, 2016

Grade	Step I	Step II	Step III	Step IV	Step V
71	\$ 92,705.60	\$ 97,323.20	\$ 102,190.40	\$ 107,307.20	\$ 112,673.60
	\$ 7,725.47	\$ 8,110.27	\$ 8,515.87	\$ 8,942.27	\$ 9,389.47
	\$ 3,565.60	\$ 3,743.20	\$ 3,930.40	\$ 4,127.20	\$ 4,333.60
	\$ 44.57	\$ 46.79	\$ 49.13	\$ 51.59	\$ 54.17
72	\$ 95,014.40	\$ 99,756.80	\$ 104,748.80	\$ 109,990.40	\$ 115,481.60
	\$ 7,917.87	\$ 8,313.07	\$ 8,729.07	\$ 9,165.87	\$ 9,623.47
	\$ 3,654.40	\$ 3,836.80	\$ 4,028.80	\$ 4,230.40	\$ 4,441.60
	\$ 45.68	\$ 47.96	\$ 50.36	\$ 52.88	\$ 55.52
73	\$ 97,323.20	\$ 102,190.40	\$ 107,307.20	\$ 112,673.60	\$ 118,310.40
	\$ 8,110.27	\$ 8,515.87	\$ 8,942.27	\$ 9,389.47	\$ 9,859.20
	\$ 3,743.20	\$ 3,930.40	\$ 4,127.20	\$ 4,333.60	\$ 4,550.40
	\$ 46.79	\$ 49.13	\$ 51.59	\$ 54.17	\$ 56.88
74	\$ 99,756.80	\$ 104,748.80	\$ 109,990.40	\$ 115,481.60	\$ 121,264.00
	\$ 8,313.07	\$ 8,729.07	\$ 9,165.87	\$ 9,623.47	\$ 10,105.33
	\$ 3,836.80	\$ 4,028.80	\$ 4,230.40	\$ 4,441.60	\$ 4,664.00
	\$ 47.96	\$ 50.36	\$ 52.88	\$ 55.52	\$ 58.30
75	\$ 102,190.40	\$ 107,307.20	\$ 112,673.60	\$ 118,310.40	\$ 124,217.60
	\$ 8,515.87	\$ 8,942.27	\$ 9,389.47	\$ 9,859.20	\$ 10,351.47
	\$ 3,930.40	\$ 4,127.20	\$ 4,333.60	\$ 4,550.40	\$ 4,777.60
	\$ 49.13	\$ 51.59	\$ 54.17	\$ 56.88	\$ 59.72
76	\$ 104,748.80	\$ 109,990.40	\$ 115,481.60	\$ 121,264.00	\$ 127,337.60
	\$ 8,729.07	\$ 9,165.87	\$ 9,623.47	\$ 10,105.33	\$ 10,611.47
	\$ 4,028.80	\$ 4,230.40	\$ 4,441.60	\$ 4,664.00	\$ 4,897.60
	\$ 50.36	\$ 52.88	\$ 55.52	\$ 58.30	\$ 61.22
77	\$ 107,307.20	\$ 112,673.60	\$ 118,310.40	\$ 124,217.60	\$ 130,436.80
	\$ 8,942.27	\$ 9,389.47	\$ 9,859.20	\$ 10,351.47	\$ 10,869.73
	\$ 4,127.20	\$ 4,333.60	\$ 4,550.40	\$ 4,777.60	\$ 5,016.80
	\$ 51.59	\$ 54.17	\$ 56.88	\$ 59.72	\$ 62.71
78	\$ 109,990.40	\$ 115,481.60	\$ 121,264.00	\$ 127,337.60	\$ 133,702.40
	\$ 9,165.87	\$ 9,623.47	\$ 10,105.33	\$ 10,611.47	\$ 11,141.87
	\$ 4,230.40	\$ 4,441.60	\$ 4,664.00	\$ 4,897.60	\$ 5,142.40
	\$ 52.88	\$ 55.52	\$ 58.30	\$ 61.22	\$ 64.28
79	\$ 112,673.60	\$ 118,310.40	\$ 124,217.60	\$ 130,436.80	\$ 136,947.20
	\$ 9,389.47	\$ 9,859.20	\$ 10,351.47	\$ 10,869.73	\$ 11,412.27
	\$ 4,333.60	\$ 4,550.40	\$ 4,777.60	\$ 5,016.80	\$ 5,267.20
	\$ 54.17	\$ 56.88	\$ 59.72	\$ 62.71	\$ 65.84
80	\$ 115,481.60	\$ 121,264.00	\$ 127,337.60	\$ 133,702.40	\$ 140,379.20
	\$ 9,623.47	\$ 10,105.33	\$ 10,611.47	\$ 11,141.87	\$ 11,698.27
	\$ 4,441.60	\$ 4,664.00	\$ 4,897.60	\$ 5,142.40	\$ 5,399.20
	\$ 55.52	\$ 58.30	\$ 61.22	\$ 64.28	\$ 67.49

ELK GROVE WATER DISTRICT

Salary Schedule

Annual, Monthly, Bi-Weekly & Hourly Wage

As of July 1, 2016

Grade	Step I	Step II	Step III	Step IV	Step V
81	\$ 118,310.40	\$ 124,217.60	\$ 130,436.80	\$ 136,947.20	\$ 143,811.20
	\$ 9,859.20	\$ 10,351.47	\$ 10,869.73	\$ 11,412.27	\$ 11,984.27
	\$ 4,550.40	\$ 4,777.60	\$ 5,016.80	\$ 5,267.20	\$ 5,531.20
	\$ 56.88	\$ 59.72	\$ 62.71	\$ 65.84	\$ 69.14
82	\$ 121,264.00	\$ 127,337.60	\$ 133,702.40	\$ 140,379.20	\$ 147,388.80
	\$ 10,105.33	\$ 10,611.47	\$ 11,141.87	\$ 11,698.27	\$ 12,282.40
	\$ 4,664.00	\$ 4,897.60	\$ 5,142.40	\$ 5,399.20	\$ 5,668.80
	\$ 58.30	\$ 61.22	\$ 64.28	\$ 67.49	\$ 70.86
83	\$ 124,217.60	\$ 130,436.80	\$ 136,947.20	\$ 143,811.20	\$ 150,987.20
	\$ 10,351.47	\$ 10,869.73	\$ 11,412.27	\$ 11,984.27	\$ 12,582.27
	\$ 4,777.60	\$ 5,016.80	\$ 5,267.20	\$ 5,531.20	\$ 5,807.20
	\$ 59.72	\$ 62.71	\$ 65.84	\$ 69.14	\$ 72.59
84	\$ 127,337.60	\$ 133,702.40	\$ 140,379.20	\$ 147,388.80	\$ 154,772.80
	\$ 10,611.47	\$ 11,141.87	\$ 11,698.27	\$ 12,282.40	\$ 12,897.73
	\$ 4,897.60	\$ 5,142.40	\$ 5,399.20	\$ 5,668.80	\$ 5,952.80
	\$ 61.22	\$ 64.28	\$ 67.49	\$ 70.86	\$ 74.41
85	\$ 130,436.80	\$ 136,947.20	\$ 143,811.20	\$ 150,987.20	\$ 158,537.60
	\$ 10,869.73	\$ 11,412.27	\$ 11,984.27	\$ 12,582.27	\$ 13,211.47
	\$ 5,016.80	\$ 5,267.20	\$ 5,531.20	\$ 5,807.20	\$ 6,097.60
	\$ 62.71	\$ 65.84	\$ 69.14	\$ 72.59	\$ 76.22
86	\$ 133,702.40	\$ 140,379.20	\$ 147,388.80	\$ 154,772.80	\$ 162,510.40
	\$ 11,141.87	\$ 11,698.27	\$ 12,282.40	\$ 12,897.73	\$ 13,542.53
	\$ 5,142.40	\$ 5,399.20	\$ 5,668.80	\$ 5,952.80	\$ 6,250.40
	\$ 64.28	\$ 67.49	\$ 70.86	\$ 74.41	\$ 78.13
87	\$ 136,947.20	\$ 143,811.20	\$ 150,987.20	\$ 158,537.60	\$ 166,462.40
	\$ 11,412.27	\$ 11,984.27	\$ 12,582.27	\$ 13,211.47	\$ 13,871.87
	\$ 5,267.20	\$ 5,531.20	\$ 5,807.20	\$ 6,097.60	\$ 6,402.40
	\$ 65.84	\$ 69.14	\$ 72.59	\$ 76.22	\$ 80.03
88	\$ 140,379.20	\$ 147,388.80	\$ 154,772.80	\$ 162,510.40	\$ 170,643.20
	\$ 11,698.27	\$ 12,282.40	\$ 12,897.73	\$ 13,542.53	\$ 14,220.27
	\$ 5,399.20	\$ 5,668.80	\$ 5,952.80	\$ 6,250.40	\$ 6,563.20
	\$ 67.49	\$ 70.86	\$ 74.41	\$ 78.13	\$ 82.04
89	\$ 143,811.20	\$ 150,987.20	\$ 158,537.60	\$ 166,462.40	\$ 174,803.20
	\$ 11,984.27	\$ 12,582.27	\$ 13,211.47	\$ 13,871.87	\$ 14,566.93
	\$ 5,531.20	\$ 5,807.20	\$ 6,097.60	\$ 6,402.40	\$ 6,723.20
	\$ 69.14	\$ 72.59	\$ 76.22	\$ 80.03	\$ 84.04
90	\$ 147,388.80	\$ 154,772.80	\$ 162,510.40	\$ 170,643.20	\$ 179,171.20
	\$ 12,282.40	\$ 12,897.73	\$ 13,542.53	\$ 14,220.27	\$ 14,930.93
	\$ 5,668.80	\$ 5,952.80	\$ 6,250.40	\$ 6,563.20	\$ 6,891.20
	\$ 70.86	\$ 74.41	\$ 78.13	\$ 82.04	\$ 86.14

ELK GROVE WATER DISTRICT

General Manager Salary

Annual, Monthly, Bi-Weekly & Hourly Wage

As of July 1, 2016

General Manager	
GM	\$ 187,405
	\$ 15,617
	\$ 7,208
	\$ 90.10

Elk Grove Water District -- FY 2016-17 Budget

Draft No. 2 - 5.19.16

Key
 Mark & Steve - 500
 Bruce - 560
 Mark - 610
 Stefani - 620
 Ellen - 640
 Donella - 650
 Admin - 700



Revenues

Account	Description	FY 12-13 Actual	FY 13-14 Actual	FY 14-15 Actual	FY 15-16 Budget	FY 15-16 Y-T-D - 3-31-16	FY 15-16 Projected	Ops 500	Tech Services 560	GM 610	HR 620	PM 640	Finance 650	Admin 700	FY 16-17 Budget	Difference	Percentage
4100	Water Payment Revenues - Residential	\$11,760,577	\$11,166,355	\$11,248,017	\$11,461,456	\$ 8,347,155	\$ 11,124,437	-2.94%						11,929,493	\$11,929,493	468,037	4.19%
4110	Water Payment Revenues - Commercial	1,917,358	1,715,300	1,590,139	1,528,307	\$ 1,082,153	\$ 1,442,208	-5.63%						1,460,916	\$1,460,916	(67,391)	-3.93%
4120	Water Payment Revenues - Fire Service	368,007	262,293	126,084	126,686	\$ 97,087	\$ 129,390	2.13%						133,749	\$133,749	7,063	2.69%
4200	Meter Fees/Plan Check/Water Capacity	101,020	68,128	29,346	26,000	\$ 141,670	\$ 147,786	468.41%						30,000	\$30,000	4,000	5.87%
4300	Backflow Install:Fin-EGWS	-	14,138	70,456	75,000	\$ 41,099	\$ 54,799	-26.93%						50,000	50,000	(25,000)	-176.83%
4520	Door Hanger Fees	116,675	121,300	121,950	130,000	\$ 84,150	\$ 112,200	-13.69%						112,000	\$112,000	(18,000)	-14.84%
4540	New account Fees	27,750	28,530	24,330	25,000	\$ 18,150	\$ 24,200	-3.20%						24,000	\$24,000	(1,000)	-3.51%
4550	NSF Fees	2,192	3,465	2,975	3,000	\$ 1,890	\$ 2,520	-16.00%						2,500	\$2,500	(500)	-14.43%
4570	Shut-off Fees	-	67,372	60,400	64,000	\$ 32,250	\$ 43,000							45,000	\$45,000	(19,000)	
4580	Restoration Fees	76,078	225	100	-	\$ 200	\$ 100	#DIV/0!						-	\$0	-	-
4590	Credit Card Fees	7,286	7,470	5,505	6,500	\$ 6,125	\$ 8,167	25.64%						8,000	\$8,000	1,500	20.08%
4900	Customer Refunds	(65,835)	(21,205)	(93,464)	(60,000)	\$ (11,030)	\$ (14,706)	-75.49%						(50,000)	(\$50,000)	10,000	-47.16%
4700	Rental Income	1,684	1,823	-	-	\$ -	\$ -							-	\$0	-	0.00%
TOTAL GROSS REVENUES		14,312,791	13,435,194	13,185,839	13,385,949	9,840,899	13,074,100	-2.33%	\$0	\$0	\$0	\$0	\$0	\$13,745,658	\$13,745,658	359,709	2.68%

Expenditures

1. Direct Expenses

Account	Description	FY 12-13 Actual	FY 13-14 Actual	FY 14-15 Actual	FY 15-16 Budget	FY 15-16 Y-T-D - 3-31-16	FY 15-16 Projected	Ops 500	Tech Services 560	GM 610	HR 620	PM 640	Finance 650	Admin 700	FY 16-17 Budget	Difference	Percentage	
Salaries & Benefits																		
5100	Executive Salary	\$131,051	\$150,220	\$153,097	\$140,194	123,904	\$ 165,206	17.84%		\$189,122					189,122	48,928	34.90%	
5110	Exempt Salaries	409,641	490,178	476,125	471,721	379,771	\$ 506,361	7.34%			93,067	93,987	219,679		605,166	133,445	28.29%	
5120	Non-Exempt Salaries	1,068,747	984,040	1,183,188	1,302,819	1,007,818	\$ 1,343,757	3.14%	1,127,277	94,929	92,647		156,897		1,471,750	168,931	12.97%	
5130	Overtime Compensation	65,613	43,062	45,062	57,800	35,844	\$ 47,792	-17.31%	51,000	2,500	1,000		1,800		56,300	(1,500)	-2.60%	
5140	On Call Pay	18,620	18,320	18,270	18,250	14,035	\$ 18,713	2.54%	18,250						18,250	0	0.00%	
5150	Holiday Pay	79,833	81,914	88,233	114,577	90,165	\$ 120,219	4.92%	63,875	17,528	8,402	5,572	22,366		117,743	3,166	2.76%	
5160	Vacation Pay	90,775	118,645	109,284	118,617	82,542	\$ 110,055	-7.22%	63,863	13,926	11,131	3,715	23,298		115,933	(2,684)	-2.26%	
5170	Personal Time Pay	79,814	74,870	79,245	91,662	74,292	\$ 99,056	8.07%	44,503	12,124	8,881	4,458	10,978		80,944	(10,718)	-11.69%	
5180	Internship Program	-	-	-	-	-	\$ -								0	0	0.00%	
5200	Medical Benefits	414,536	372,689	499,325	622,871	448,791	\$ 598,388	-3.93%	385,150	87,528	26,376	45,402	26,376	133,252	704,084	81,213	13.04%	
5195	EAP	1,267	883	820	880	645	\$ 860	-2.37%	557	124	31	62	155		960	80	9.03%	
5210	Dental/Vision/Life Insurance	45,789	41,289	50,983	57,837	42,222	\$ 56,296	-2.66%	37,279	10,149	5,764	3,873	2,642	9,289	68,995	11,158	19.29%	
5220	Retirement Benefits	293,259	260,687	273,439	297,548	231,160	\$ 308,214	3.58%	187,763	51,525	28,604	24,699	16,379	65,745	374,713	77,166	25.93%	
5225	Retirement Benefits - Post Employment	93,686	68,355	73,169	100,000	17,549	\$ 96,055	-3.95%							103,362	103,362	3,362	3.36%
5230	Medical Tax, Social Security and SUI	40,093	44,880	45,161	56,763	39,534	\$ 52,712	-7.14%	33,210	8,311	3,571	4,054	2,410	10,516	62,072	5,309	9.35%	
5240	Worker's Compensation Insurance	52,924	55,314	78,504	98,014	109,057	\$ 109,057	11.27%	85,169	5,330	12,975	2,113	1,401	5,624	112,612	14,598	14.89%	
5250	Education Assistance	-	1,290	4,687	18,000	3,910	\$ 5,213	-71.04%	4,000	-	-	-	5,000		9,000	(9,000)	-50.00%	
5260	Employee Training	13,992	21,892	15,103	28,203	4,964	\$ 6,619	-76.53%	16,350	3,500	-	5,900	2,000	500	28,250	48	0.17%	
5270	Employee Recognition	409	910	2,694	2,920	1,149	\$ 1,533	-47.51%	100	100	500	2,000	420		3,020	100	3.42%	
5280	Meetings	376	203	286	1,500	238	\$ 317	-78.88%	180	300	400	300	200	100	1,480	(20)	-1.33%	
Category Subtotal		\$2,900,424	\$2,829,645	\$3,196,675	\$3,600,175	\$2,707,589	3,646,423	1.28%	\$2,118,426	\$506,306	\$267,342	\$303,532	\$159,590	\$665,197	\$103,362	\$ 4,123,755	523,581	14.54%
Seminars, Conventions and Travel																		
5300-20	Airfare	\$ 1,317	\$ 318	\$ 3,035	\$ 4,750	1,902	2,535	-46.62%	800	750	\$900	\$1,000	450	\$800	4,700	(50)	-1.05%	
5310-20	Hotels	3,397	5,000	6,318	11,050	8,752	11,670	5.61%	1,000	1,500	2,200	2,500	1,100	2,400	10,700	(350)	-3.17%	
5320-20	Meals	2,046	2,371	4,109	5,210	4,657	6,210	19.19%	800	500	3,260	600	440	600	6,200	990	19.00%	
5330-20	Auto Rental	372	131	336	2,000	1,157	1,542	-22.89%	300	500	1,000	500	-	300	2,600	600	30.00%	
5340-20	Seminars & Conferences	5,503	3,160	6,630	9,450	6,455	8,607	-8.92%	1,200	2,500	1,500	2,100	1,300		9,100	(350)	-3.70%	
5345-20	Seminars & Conferences - Board	95	1,435	-	5,200	-	-	-100.00%			3,820				3,820	(1,380)	-26.54%	
5350-20	Mileage Reimbursement, Parking, Tolls	586	1,395	1,391	1,690	4,652	6,203	267.02%	200	200	300	150	600		1,450	(240)	-14.20%	
5375-20	Auto/Telephone Allowance	5,166	4,840	4,840	4,800	3,700	4,933	2.78%			6,000				6,000	1,200	25.00%	
Category Subtotal		\$18,483	\$18,650	\$26,659	\$44,150	\$31,275	41,700	-5.55%	\$4,300	\$5,950	\$18,680	\$7,000	\$2,640	\$6,000	\$0	\$ 44,570	420	0.95%
Office & Operational																		
5410	Advertising	\$ 3,203	\$ 3,754	\$ 11,239	\$ 6,200	5,198	6,931	11.79%			\$3,000	\$32,500			35,500	29,300	472.58%	
5415	Association Dues	53,716	53,823	61,518	72,170	66,861	89,148	23.52%	1,090	220			650	95,592	97,552	25,382	35.17%	
5420	Insurance	83,098	68,865	76,462	75,000	74,153	74,153	-1.13%						79,900	79,900	4,900	6.53%	
5425	Licenses, Certifications, Fees	18,446	5,809	13,488	9,700	2,685	3,580	-63.09%	8,800	350		100	600		9,850	150	1.55%	
5430	Repairs & Maintenance - Automotive	19,459	16,585	28,486	40,300	21,746	28,994	-28.05%	26,500	500			800		27,800	(12,500)	-31.02%	
5432	Repairs & Maintenance - Building	10,643	14,197	9,067	13,500	9,623	12,830	-4.96%	12,000					4,500	16,500	3,000	22.22%	
5434	Repairs & Maintenance - Computers	50,282	1,839	21,591	24,800	12,369	16,492	-33.50%	10,900	350			10,900		22,150	(2,650)	-10.69%	
5435	Repairs & Maintenance - Equipment	37,055	52,278	94,204	108,000	31,163	41,551	-61.53%	63,350						63,350	(44,650)	-41.34%	
5438	Fuel	41,505	41,338	38,424	63,600	22,973	30,631	-51.84%	50,000	1,000				600	51,600	(12,000)	-18.87%	
5440	Materials	149,957	143,564	268,654	206,000	45,835	61,113	-70.33%	90,000						90,000	(116,000)	-56.31%	
5445	Chemicals	24,955	48,945	14,813	12,000	8,904	11,872	-1.07%	115,000						115,000	103,000	858.33%	
5450	Meter Repairs	553	91	5,179	9,000	6,313	8,418	-6.47%	12,000						12,000	3,000	33.33%	
5453	Permits	7,380	31,193	39,318	39,620	24,536	32,714	-17.43%	49,150						84,800	45,180	114.03%	
5455	Postage	58,421	73,556	59,300	59,300	40,379	53,838	-9.21%			300	13,000		35,650	72,400	13,100	22.09%	
5460	Printing	5,849	8,086	14,														

Account	Description	FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 15-16	Ops	Tech Services	GM	HR	PM	Finance	Admin	FY 16-17	Difference			
		Actual	Actual	Actual	Budget	Y-T-D - 3-31-16								Projected			Budget	
5480	Telephone	32,972	38,333	35,983	29,505	25,002	33,336	12.99%						36,609	7,104	24.08%		
5485	Tools	7,282	24,069	23,834	5,329	5,727	7,635	43.28%						12,500	7,171	134.57%		
5490	Clothing Allowance	8,305	9,901	7,449	10,500	4,490	5,987	-42.98%					2,500	10,200	(300)	-2.86%		
5491	EGWD Other Clothing	\$0	7,644	7,782	12,289	6,527	8,702	-29.19%						12,000	(289)	-2.35%		
5493	Water Conservation Materials		30,000		3,869	5,159					30,000			30,000	-			
	Category Subtotal	\$735,323	\$786,482	\$1,025,927	\$993,202	\$518,300	\$666,350	-32.91%	\$561,383	\$34,220	\$0	\$6,800	\$95,350	\$56,593	\$291,242	1,045,589	52,387	5.27%
5495	Purchased Water	2,517,816	2,656,509	2,587,097	2,891,709	1,689,163	2,252,217	-22.11%	2,922,734					2,922,734	31,025	1.07%		
	Outside Services																	
5505	Administration Services	\$1,155	\$ 1,012	\$ 2,252	\$ 6,000	564	752	-87.47%						1,500	(4,500)	-75.00%		
5510	Bank Charges	41,787	47,799	62,586	62,400	52,560	70,080	12.31%						96,000	33,600	53.85%		
5515	Billing Services	26,484	28,308	26,657	26,400	17,241	22,987	-12.93%						28,800	2,400	9.09%		
5520	Contracted Services	127,963	136,029	240,381	248,836	212,356	283,142	13.79%	10,000	5,000	18,500	49,000	5,200	292,800	43,965	17.67%		
5523	Water Conservation Services				20,000	19,571	26,095							32,500	12,500	62.50%		
5525	Accounting Services	63,788	43,344	26,615	35,000	22,908	30,544	-12.73%						35,000	0	0.00%		
5530	Engineering	1,400	14,798	92,044	80,000	6,626	8,834	-88.96%		50,000				50,000	(30,000)	-37.50%		
5535	Legal Services	169,632	98,307	124,744	205,000	70,471	93,961	-54.17%		205,000				205,000	0	0.00%		
5540	Financial Consultants	86,998	29,653	68,601	10,000	-	-	-100.00%						10,000	0	0.00%		
5545	Community Relations	10,118	14,065	19,587	16,200	10,445	13,927	-14.03%		1,200		15,000		16,200	0	0.00%		
5552	Misc. Medical	2,354	2,086	1,485	2,000	1,067	1,423	-28.87%			2,500			2,500	500	25.00%		
5550	Pre-employment	1,817	630	6,508	10,000	493	657	-93.43%			10,000			10,000	0	0.00%		
5555	Janitorial	3,885	5,935	6,299	6,500	4,635	6,180	-4.92%	3,000					6,300	(200)	-3.08%		
5560	Bond Administration	7,366	7,353	6,917	8,500	12,042	16,056	88.89%						8,500	0	0.00%		
5570	Security	31,682	26,412	30,706	26,500	5,663	7,550	-71.51%						8,700	(2,800)	-10.57%		
5575	Sampling	16,256	23,858	35,513	45,647	11,504	15,339	-66.40%						35,000	(10,647)	-23.32%		
5580	Board Secretary/Treasurer	3,150	3,025	3,025	3,000	2,000	2,667	-11.11%						3,000	(3,000)	-100.00%		
	Category Subtotal	\$595,834	\$482,614	\$753,921	\$811,983	\$450,144	\$600,193	-26.08%	\$63,000	\$50,000	\$211,200	\$32,500	\$96,500	\$175,000	\$225,600	853,800	41,818	5.15%
	Equipment Rent, Taxes and Utilities																	
5610	Occupancy	-\$9,367		\$0		-												
5620	Equipment Rental	37,552	\$38,047	\$16,392	\$29,500	9,076	12,101	-58.98%	\$10,000					\$12,000	(7,500)	-25.42%		
5710	Property Taxes	3,464	3,992	4,701	4,700	1,328	1,771	-62.32%						1,500	(3,200)	-68.09%		
5720	Water	1,087												0	0			
5740	Electricity	359,504	333,039	295,131	379,000	190,086	253,448	-33.13%	325,814					9,000	(44,186)	-11.66%		
5750	Natural Gas	286	437	416	500	374	498	-0.33%						600	100	19.91%		
5760	Sewer & Garbage	24,138	19,273	22,950	29,700	12,965	17,286	-41.80%	20,000					5,900	(3,800)	-12.80%		
	Category Subtotal	\$416,662	\$394,788	\$339,590	\$443,400	\$213,828	\$285,104	-35.70%	\$355,813	\$0	\$0	\$0	\$0	\$0	\$29,000	384,813	(58,587)	-13.21%
	Gross O&M Expenses	\$7,184,542	\$7,168,688	\$7,929,869	\$8,784,618	\$5,610,300	\$7,491,986	-14.71%	\$3,102,922	\$596,476	\$497,222	\$349,832	\$354,080	\$902,790	\$649,204	9,375,261	590,643	6.72%
	Less: Capitalized Expenditures	-	(538,181)	(470,098)	(509,238)	(509,238)	(509,238)	0.00%	0	0	0	0	0	0	(528,352)	(19,114)	3.75%	
	Net O&M Expenses	\$7,184,542	\$6,630,507	\$7,459,771	\$8,275,380	\$5,101,063	\$6,982,749	-15.62%	\$3,102,922	\$596,476	\$497,222	\$349,832	\$354,080	\$902,790	\$649,204	\$8,846,909	571,529	6.91%
	Net Revenues	\$ 7,128,249	\$ 6,804,687	\$ 5,726,067	\$ 5,110,569	\$ 4,739,837	\$ 6,091,352	19.19%							\$4,898,749	(211,820)	-4.14%	

2. Capital Improvement Funding

1730	Meters				\$0									0	0		
1745	Transportation Equipment				\$0									0	0		
1760/1765	Capital Equipment & Expenditures		96,290											0	0		
1705	Non-Project Capital Expenses		35,000											0	0		
3560	Repair & Replacement Reserve				851,472	638,604	851,472							731,000	731,000	(120,472)	
3565	Long-Term Capital Improvement Reserve				698,528	523,896	698,528							969,000	969,000	270,472	
	Contribution to Reserves																
	TOTAL CAPITALIZED EXPENSES	\$0	\$131,290	\$0	\$1,550,000	\$1,162,500	\$1,550,000		\$0	\$0	\$0	\$0	\$0	\$1,700,000	1,700,000	150,000	9.68%

3. Nonoperating Revenue / (Expenses)

6440	Depreciation	\$1,687,331	\$2,054,712	\$1,696,678	\$0	-	-							\$0	-	0		
6450	Amortization	(5,579)														0		
7300	Debt Service (Bond Interest Expense)	2,624,774	2,580,129	2,289,556	2,225,240	1,668,930	2,225,240	0.00%						1,757,900	1,757,900	(467,340)		
7310	Discount Amortization Expense	28,344	28,229													0		
7320	Offering Expense - Deferred Charges		103,476	471,504												0		
7330	Amortization	26,990														0		
7400	Interest Paid	59,381	55,649													0		
2470	9257 Elk Grove Blvd. Note	55,606	59,337													0		
2500	Bond Retirement	1,080,000	1,175,000		1,430,000	1,072,500	1,430,000	0.00%						1,440,000	1,440,000	10,000		
9910	Interest Earned	(20,886)	(18,188)	(19,970)	(20,000)	(7,628)	(10,171)	-49.14%						(100,000)	(100,000)	(80,000)		
9920	Other Income	(52,452)	(22,304)	(318,569)										(26,566)	(26,566)	(26,566)		
3500	Contribution from Operating Reserves				(74,671)			-100.00%								74,671		
9920-73	Other Expenses (Toilet Program Costs, Other Income)	1,659														0		
9950	Election Costs	1,660		103,700										108,000	108,000	108,000		
9970	Rebate Program															0		
	TOTAL OTHER EXPENSES	\$5,486,827	\$6,016,040	\$4,222,899	\$3,560,569	\$2,733,802	\$3,645,069	2.37%	\$0	\$0	\$0	\$0	\$0	\$3,179,334	\$3,179,334	(381,235)	-10.71%	
	TOTAL EXPENDITURES	\$12,671,369	\$12,777,837	\$11,682,670	\$13,385,949	\$8,997,364	\$12,177,817	-9.03%	\$3,102,922	\$596,476	\$497,222	\$349,832	\$354,080	\$902,790	\$5,528,538	\$13,726,243	340,293	2.54%
	DISTRICT REVENUES IN EXCESS OF EXPENDITURES	\$1,641,422	\$657,357	\$1,503,169	\$0	\$843,535	\$896,283								\$19,415	\$19,415		

June 22, 2016

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Bruce M. Kamilos, Assistant General Manager

SUBJECT: **ELK GROVE WATER DISTRICT FISCAL YEAR 2017-2021 CAPITAL IMPROVEMENT PROGRAM**

RECOMMENDATION

It is recommended that the Board of Directors of the Florin Resource Conservation District approve Resolution 06.22.16.05 adopting the Elk Grove Water District Fiscal Year 2017-2021 Capital Improvement Program and approving an appropriation of \$2,548,000 from designated reserve funds to the Fiscal Year 2016-17 Capital Improvement Program budget.

Summary

The Fiscal Year 2017-2021 Capital Improvement Program (FY 2017-21 CIP) describes capital improvement projects planned by the Elk Grove Water District (District) over the next five fiscal years. District staff presented the FY 2017-21 CIP at the Infrastructure Committee meeting on April 21, 2016. Comments and recommendations from that meeting have been incorporated into the FY 2017-21 CIP. The final version of the FY 2017-21 CIP (attached) is being presented to the Board of Directors for adoption.

DISCUSSION

Background

The FY 2017-21 CIP describes capital improvement projects planned by the District over the next five fiscal years. The CIP serves as a blueprint for the development, rehabilitation, and replacement of the District's water system infrastructure, and other facilities owned and operated by the District. District staff presented the FY 2017-21 CIP to the Infrastructure Committee on April 21, 2016. Comments and recommendations from that meeting have been incorporated into the final version of the FY 2017-21 CIP.

ELK GROVE WATER DISTRICT FISCAL YEAR 2017-2021 CAPITAL IMPROVEMENT PROGRAM

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Present Situation

Below is a summary of notable changes to this year's CIP.

- An "Expenditure History & Revision" table has been added on projects that span over several years. This table will track total expenditures against a project.
- The schedule for the "Service Line Replacements" project has been revised to span from two years to three years.
- The "8-inch Water Line Replacement Waterman Rd." project has been eliminated.
 - This project was originally conceived as a companion project to a planned development of a large industrial/commercial parcel on Brinkman Ct. The project would replace a section of 8" water main with a 12" water main along Waterman Rd. and loop to the new Railroad Corridor Water Main. Plans for developing the parcel have stalled, and therefore, this project is not required at this time.
- The "Pumped-to-Waste Infrastructure – Deep Wells" project has been eliminated.
 - This project modified well discharge piping to allow the deep wells to be temporarily pumped to the storm drain system, especially at well startup when water quality can be degraded. Operations confirmed by testing that none of the deep wells produce measurable amounts of sand. Additionally, the water from the deep wells is filtered and treated at the Railroad Water Treatment Facility before being distributed as potable water. The existing process provides the necessary water treatment, and therefore, this project has been eliminated from the CIP
- The "Hydropneumatic Tanks Refurbishments" project has been eliminated.
 - New projects to install VFDs on the pumps at Well 3 and Well 8 will eliminate the need for hydropneumatic tanks at these well sites. Therefore, this project is no longer required.
- The "Automatic Meter Infrastructure (AMI)" project has been eliminated.
 - In July 2015, the Infrastructure Committee recommended against proceeding with AMI, but suggested revisiting the feasibility of AMI for EGWD in two years. For this reason, AMI has been eliminated from the CIP.

**ELK GROVE WATER DISTRICT FISCAL YEAR 2017-2021 CAPITAL
IMPROVEMENT PROGRAM**

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New Projects

- Lark St. Water Main
- Hampton WTP Improvements
- Well 1D Profiling/Modifications
- Well 3 Pump Replacement/VFD
- Well 8 Pump Replacement VFD
- Fiber Optic Cable
- HVWTP Roof Replacement
- Emergency Generator Administration Building

The final version of the FY 2017-21 CIP is being presented to the Board of Directors for adoption. Although the FY 2017-21 CIP is a 5-year program, the capital improvement program is funded on a year-to-year basis. District staff, therefore, requests that the Board approve an appropriation of \$2,548,000 from designated reserve funds to the FY 2016-17 CIP budget.

ENVIRONMENTAL CONSIDERATIONS

The adoption of the FY 2017-21 CIP does not in and of itself affect environmental considerations. Environmental considerations related to the projects contained in the FY 2017-21 CIP will be addressed on a per project basis in the future as part of each project. Staff reports requesting authorization from the Board of Directors to proceed with a specific CIP project will address environmental considerations at that time.

STRATEGIC PLAN CONFORMITY

The recommendation made in this staff report conforms to FRCD/EGWD's Strategic Plan. As part of ensuring financial stability, the Strategic Plan directs the District to address capital needs through the development of a multi-year capital improvement program with "pay-as-you-go" funding.

June 22, 2016

**ELK GROVE WATER DISTRICT FISCAL YEAR 2017-2021 CAPITAL
IMPROVEMENT PROGRAM**

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FINANCIAL SUMMARY

The financial impact of the FY 2017-21 CIP on capital funds is \$9,233,000 over five fiscal years. A breakdown by year of capital funds required is as follows.

FY 2016-17	\$2,548,000
FY 2017-18	\$1,827,000
FY 2018-19	\$1,701,000
FY 2019-20	\$1,492,000
<u>FY 2020-21</u>	<u>\$1,665,000</u>
Total	\$9,233,000

To fund the FY 2016-17 CIP, District staff requests that the Board approve an appropriation of \$2,548,000 from designated reserves to the FY 2016-17 CIP budget.

Respectfully submitted,



BRUCE M. KAMILOS
ASSISTANT GENERAL MANAGER

Attachment

RESOLUTION No. 06.22.16.05

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE FLORIN RESOURCE CONSERVATION DISTRICT
ADOPTING THE ELK GROVE WATER DISTRICT FISCAL YEAR 2017-2021
CAPITAL IMPROVEMENT PROGRAM AND APPROVING AN APPROPRIATION OF
\$2,548,000 FROM DESIGNATED RESERVE FUNDS TO THE FISCAL YEAR 2016-17
CAPITAL IMPROVEMENT PROGRAM BUDGET**

WHEREAS, the Elk Grove Water District Fiscal Year 2017-2021 Capital Improvement Program (hereinafter "FY 2017-21 CIP") has been presented to the Infrastructure Committee on April 21, 2016 for review; and

WHEREAS, District staff have incorporated the comments and recommendations from the above mentioned meeting into the final version of the Elk Grove Water District FY 2017-21 CIP; and

WHEREAS, the adoption of the Elk Grove Water District FY 2017-21 CIP does not in and of itself affect environmental considerations. Environmental considerations related to the projects contained in the Elk Grove Water District FY 2017-21 CIP will be addressed on a per project basis in the future as part of each project; and

WHEREAS, the adoption of the Elk Grove Water District FY 2017-21 CIP conforms to FRCD/EGWD's Strategic Plan. The Strategic Plan directs the District to address capital needs through the development of a multi-year capital improvement program with "pay-as-you-go" funding; and

WHEREAS, the financial impact of the Elk Grove Water District FY 2017-21 CIP on capital funds is \$9,233,000 over the next five fiscal years, the actual commitment of CIP funds is done on a year-to-year basis with \$2,548,000 being requested for the FY 2016-17 Capital Improvement Program.

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

Section 1. The Board of Directors hereby adopts the Elk Grove Water District Fiscal Year 2017-2021 Capital Improvement Program.

Section 2. The Board of Directors hereby appropriates \$2,548,000 from designated reserve funds to the Fiscal Year 2016-17 Capital Improvement Program Budget.

Section 3. The Secretary to the Board shall certify to the passage and adoption of this resolution and the same shall take effect and be in force upon its adoption.

APPROVED AND ADOPTED this 22th day of June, 2016.

AYES:

NOES:

ABSENT:

ABSTAIN:

Chuck Dawson
Chairman of the Board of Directors

ATTEST:

Stefani Phillips
Secretary to the Board of Directors

APPROVED AS TO FORM:

Best Best & Krieger LLP
General Counsel

EXHIBIT “A”

“ELK GROVE WATER DISTRICT FY 2017-2021 CAPITAL IMPROVEMENT PROGRAM.”

[Attached behind this cover page]



FY 2017-2021 CAPITAL IMPROVEMENT PROGRAM

BOARD OF DIRECTORS

Chuck Dawson, Chair

Tom Nelson, Vice Chair

Elliot Mulberg, Director

Bob Gray, Director

Jeanne Sabin, Director

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OVERVIEW

The Elk Grove Water District's (District) FY 2017 – 2021 Five-Year Capital Improvement Program (CIP) is a projection of the District's capital funding for planned capital projects in fiscal years 2016/17 through 2020/21. The CIP is reviewed and updated on an annual basis, and is a key component of the District's overall Strategic Plan. The CIP is an important document for performing water rate studies and for managing the District's operations. The CIP also provides a basis to align District plans with other local agency plans so that an integrated approach may be applied to projects within the community at large.

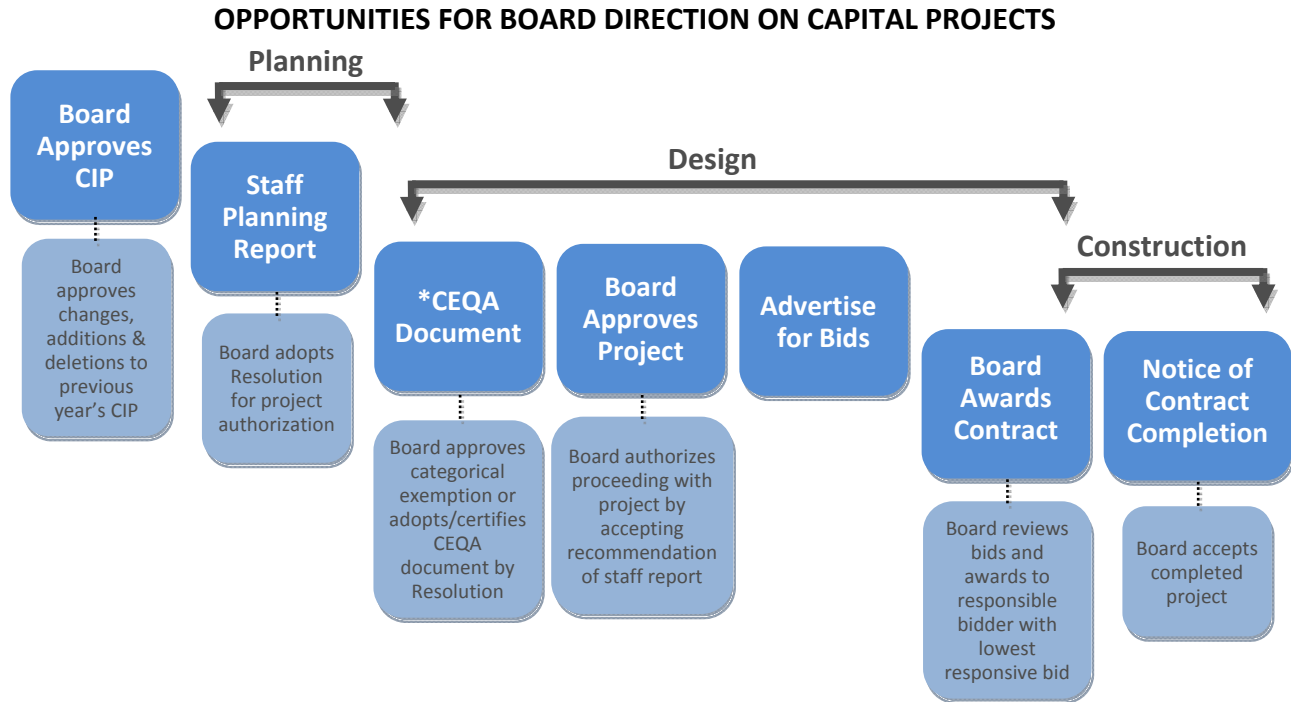
Annually, District staff members and the General Manager meet to identify projects to be included in the CIP. Each project defined in the CIP is summarized by a brief project description and justification. The project location, timing, expenditure schedule, funding source, impact on operating costs and useful life are given for each project. After the CIP is updated, the General Manager reviews the CIP to ensure proposed projects are aligned with the District's Strategic Plan. The CIP is developed in parallel with the District's budget and water rate setting analyses. The General Manager reviews the CIP's proposed expenditure schedule and funding sources to ensure that the CIP's financial elements are consistent with the District's financial policies.

The Board has opportunities each year to provide direction on projects contained in the CIP. During the year, the CIP is presented to the Board on separate occasions for review and input. The Board's comments and direction are incorporated into a draft CIP. The draft CIP is reviewed and accepted by the Board prior to releasing the CIP for public view.

Each project in the CIP goes through a planning phase, design phase and construction phase. At the beginning of the design phase, the environmental impacts relevant to the California Environmental Quality Act (CEQA) are determined for the project. For smaller projects with little or no impact on the environment, the lead agency may declare a negative declaration for the project or deem it exempt from CEQA. In these cases, project-specific information from the planning phase and requirements related to CEQA may be combined and summarized in a single staff report. This approach will help expedite the project schedule.

The Board may determine to not implement a project based on various considerations such as financial constraints, environmental impacts or community desire during a project's planning or design phases. Approval of a capital project by the Board occurs near the end of the design phase when the Board approves proceeding with contract document preparation per the recommendation of a staff report. Figure 1 schematically summarizes the opportunities for Board direction on capital projects.

FIGURE 1



**For smaller projects that have a negative declaration or are exempt, CEQA determination may be included in the staff planning report to expedite the project schedule.*

Principal sources of revenue for the District come from water usage charges and developer connection fees. These revenues are organized into four fund sources – unrestricted reserves, capital improvements, capital repairs/replacements, elections and special studies. The CIP allocates the use of funds related only to capital improvements and capital repairs/replacements.

On the following page, Table 1 presents the project funding schedule of capital improvements for fiscal years 2016/17 through 2020/21. Each project was scored on a score sheet using priority ranking criteria. (All of the score sheets are provided in Appendix B.) A project priority list (Appendix A) was generated based on the priority scores from the score sheets. Projects with a priority score of 80-100 were assigned a priority 1. Projects with a priority score of 70-79 were assigned a priority 2. Projects with a priority score of 60-69 were assigned a priority 3. Projects with a priority score of 40-59 were assigned a priority 4. Projects with a priority score of 0-39 were assigned a priority 5. Detailed information for each project can be found starting on page 10 of this document. The detailed information for each project is presented in the same order as that in Table 1.

Table 1
5-Year CIP Summary

(in thousands \$)

Priority	PROJECT NAME	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Total
SUPPLY / DISTRIBUTION IMPROVEMENTS							
2	Service Line Replacements <i>pg. 10</i>	250	250	-	-	-	500
3	Kent St. Water Main <i>pg. 12</i>	280	-	-	-	-	280
3	Truman St./Adams St. Water Main <i>pg. 14</i>	-	-	-	240	-	240
3	School/Locust/Summit Alley Water Main <i>pg. 16</i>	-	-	-	495	-	495
3	Elk Grove Blvd Grove St. Alley Water Main <i>pg. 18</i>	-	-	-	-	290	290
3	Locust St.-Elk Grove Blvd Alley/Derr St. Water Main <i>pg. 20</i>	-	-	-	-	210	210
4	Elk Grove Blvd Water Main <i>pg. 22</i>	-	-	-	-	500	500
2	Lark St. Water Main <i>pg. 24</i>	-	-	-	170	-	170
1	Well Rehabilitation Program (one per year) <i>pg. 26</i>	90	93	95	98	101	477
1	Well 1D Pump Conversion <i>pg. 28</i>	64	-	-	-	-	64
2	Railroad Corridor Water Line <i>pg. 30</i>	-	-	-	-	190	190
3	Backyard Water Mains/Services Replacement <i>pg. 32</i>	-	844	844	-	-	1,688
2	Business Center/CSD Bldg. Water Main Looping <i>pg. 34</i>	175	-	-	-	-	175
3	Cadura Circle Water Main Looping <i>pg. 36</i>	-	-	30	-	-	30
3	Mormon Church Water Main Looping <i>pg. 38</i>	-	-	-	70	-	70
TREATMENT IMPROVEMENTS							
2	RRWTF Tanks & Vessels Recoating <i>pg. 40</i>	350	-	150	-	-	500
1	Media Replacement Filter Vessels <i>pg. 42</i>	50	50	-	-	-	100
1	Chlorine Tank Replacement - ClorTec Room <i>pg. 44</i>	-	-	80	-	-	80
1	Hampton WTP Improvements <i>pg. 46</i>	200	-	-	-	-	200
1	Well 1D Profiling/Modifications <i>pg. 48</i>	100	-	-	-	-	100
1	Well 3 Pump Replacement/VFD <i>pg. 50</i>	175	-	-	-	-	175
1	Well 8 Pump Replacement/VFD <i>pg. 52</i>	-	180	-	-	-	180
4	Link Sample Pressure Stations to SCADA <i>pg. 54</i>	-	-	100	-	-	100
BUILDING & SITE IMPROVEMENTS / VEHICLES							
3	Truck Replacements <i>pg. 56</i>	120	165	202	219	174	880
3	Security Infrastructure <i>pg. 58</i>	84	-	-	-	-	84
1	RRWTF Emergency Access Gate <i>pg. 60</i>	-	25	-	-	-	25
	District Administration Bldg. Improvements <i>pg. 62</i>	-	-	-	-	-	0
1	RRWTF Modular Meeting Room & I.T. Center <i>pg. 64</i>	215	-	-	-	-	215
1	Fiber Optic Cable <i>pg. 66</i>	135	-	-	-	-	135
4	Well 1D Gate Improvement <i>pg. 68</i>	10	-	-	-	-	10
4	HVWTP Roof Replacement <i>pg. 70</i>	-	20	-	-	-	20
2	Emergency Generator Administration Building <i>pg. 72</i>	50	-	-	-	-	50
UNFORESEEN CAPITAL PROJECTS							
	Unforeseen Capital Projects <i>pg. 74</i>	200	200	200	200	200	1,000
TOTAL		2,548	1,827	1,701	1,492	1,665	9,233

Table 2 and Table 3 separate the funding source requirements into two components – user fees, and connection fees. The relevance of separating the funding source requirements into two components is critical when performing water rate studies. Water rate studies determine how capital improvements will be funded – either through rates charged to existing users (user fees), or through fees collected from new users (connection fees). On the next pages, Tables 4A through 4H provide supporting data for Table 2. Tables 4A through 4G break down **user fees** by funding sources and capital improvement programs. Tables 5A and 5B provide supporting data for Table 3. Tables 5A and 5B break down **connection fees** by capital improvement programs.

Table 2
Funding Source Requirements
User Fees

FUND	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Total
CAPITAL IMPROVEMENT FUNDS						
Supply/Distribution Improvements	425	250	30	70	661	1,436
Treatment Improvements	355	180	100	-	-	635
Building & Site Improvements/Vehicles	604	190	202	219	174	1,389
SUB-TOTAL	1,384	620	332	289	835	3,460
CAPITAL REPAIR/REPLACEMENT FUNDS						
Supply/Distribution Improvements	434	937	939	1,003	601	3,914
Treatment Improvements	500	50	230	-	-	780
Building & Site Improvements/Vehicles	10	20	-	-	-	30
SUB-TOTAL	944	1,007	1,169	1,003	601	4,724
UNFORESEEN CAPITAL PROJECT FUNDS						
Unforeseen Capital Projects	200	200	200	200	200	1,000
SUB-TOTAL	200	200	200	200	200	1,000
TOTAL	2,528	1,827	1,701	1,492	1,636	9,184

Table 3
Funding Source Requirements
Connection Fees

FUND	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Total
CAPITAL IMPROVEMENT FUNDS						
Supply/Distribution Improvements	-	-	-	-	29	29
Treatment Improvements	20	-	-	-	-	20
TOTAL	20	0	0	0	29	49

Table 4A
 Schedule of User Fees
 Supply / Distribution Improvements
 Capital Improvement Funds

CAPITAL IMPROVEMENT FUND	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Total
SUPPLY / DISTRIBUTION IMPROVEMENTS						
Service Line Replacements	250	250	-	-	-	500
Elk Grove Blvd Water Main	-	-	-	-	500	500
Railroad Corridor Water Line	-	-	-	-	161	161
Business Center/CSD Bldg. Water Main Looping	175	-	-	-	-	175
Cadura Circle Water Main Looping	-	-	30	-	-	30
Mormon Church Water Main Looping	-	-	-	70	-	70
TOTAL	425	250	30	70	661	1,436

Table 4B
 Schedule of User Fees
 Treatment Improvements
 Capital Improvement Funds

CAPITAL IMPROVEMENT FUND	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Total
TREATMENT IMPROVEMENTS						
Hampton WTP Improvements	180	-	-	-	-	180
Well 3 Pump Replacement/VFD	175	-	-	-	-	175
Well 8 Pump Replacement/VFD	-	180	-	-	-	180
Link Sample Pressure Stations to SCADA	-	-	100	-	-	100
TOTAL	355	180	100	0	0	635

Table 4C
 Schedule of User Fees
 Building & Site Improvements/Vehicles
 Capital Improvement Funds

CAPITAL IMPROVEMENT FUND	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Total
BUILDING & SITE IMPROVEMENTS						
Truck Replacements	120	165	202	219	174	880
Security Infrastructure	84	-	-	-	-	84
RRWTF Emergency Access Gate	-	25	-	-	-	25
District Administration Bldg. Improvements	-	-	-	-	-	0
RRWTF Modular Meeting Room & I.T. Center	215	-	-	-	-	215
Fiber Optic Cable	135	-	-	-	-	135
Emergency Generator Administration Building	50	-	-	-	-	50
TOTAL	604	190	202	219	174	1,389

Table 4D
 Schedule of User Fees
 Supply / Distribution Improvements
 Capital Repair/Replacement Funds

CAPITAL REPAIR/REPLACEMENT	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Total
SUPPLY / DISTRIBUTION IMPROVEMENTS						
Kent St. Water Main	280	-	-	-	-	280
Truman St./Adams St. Water Main	-	-	-	240	-	240
School/Locust/Summit Alley Water Main	-	-	-	495	-	495
Elk Grove Blvd Grove St. Alley Water Main	-	-	-	-	290	290
Locust St.-Elk Grove Blvd Alley/Derr St. Water M	-	-	-	-	210	210
Lark St. Water Main	-	-	-	170	-	170
Well Rehabilitation Program (one per year)	90	93	95	98	101	477
Well 1D Pump Conversion	64	-	-	-	-	64
Backyard Water Mains/Services Replacement	-	844	844	-	-	1,688
TOTAL	434	937	939	1,003	601	3,914

Table 4E
 Schedule of User Fees
 Treatment Improvements
 Capital Repair/Replacement Funds

CAPITAL REPAIR/REPLACEMENT	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Total
TREATMENT IMPROVEMENTS						
RRWTF Tanks & Vessels Recoating	350	-	150	-	-	500
Media Replacement Filter Vessels	50	50	-	-	-	100
Chlorine Tank Replacement ClorTec Room	-	-	80	-	-	80
Well 1D Profiling/Modifications	100	-	-	-	-	100
TOTAL	500	50	230	0	0	780

Table 4F
 Schedule of User Fees
 Building & Site Improvements/Vehicles
 Capital Repair/Replacement Funds

CAPITAL REPAIR/REPLACEMENT	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Total
BUILDING & SITE IMPROVEMENTS						
Well 1D Gate Improvements	10	-	-	-	-	10
HWTP Roof Replacement	-	20	-	-	-	20
TOTAL	10	20	0	0	0	30

Table 4G
 Schedule of User Fees
 Unforeseen Capital Projects
 Unforeseen Capital Projects Funds

UNFORESEEN CAPITAL PROJECTS	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Total
Unforeseen Capital Projects	200	200	200	200	200	1000
TOTAL	200	200	200	200	200	1,000

Table 5A
 Schedule of Connection Fees
 Supply / Distribution Improvements

CAPITAL IMPROVEMENT FUND		FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Total
SUPPLY / DISTRIBUTION IMPROVEMENTS							
Railroad Corridor Water Line		-	-	-	-	29	29
TOTAL		0	0	0	0	29	29

Table 5B
 Schedule of Connection Fees
 Treatment Improvements

CAPITAL IMPROVEMENT FUND		FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Total
TREATMENT IMPROVEMENTS							
Hampton WTP Improvements		20	-	-	-	-	20
TOTAL		20	0	0	0	0	20

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Project	Service Line Replacements
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	2
Project No.	200



PROJECT DESCRIPTION

The Elk Grove Water District has a number of installations where 3/4” service lines tap water mains. In some cases, a common service line tap splits at a tee fitting (or what is commonly known as a “bullhead”) to serve two (2) water meters. This project replaces all 3/4” service lines with 1” service lines, and replaces common bullhead services with separate 1” taps so that every water meter is fed individually by a 1” service.

JUSTIFICATION

This project will improve delivery of water to those services currently being served by 3/4” service line.

PROJECT LOCATION

The project is located throughout various areas of Service Area 1.



★ Project Location

SCHEDULE & STATUS

Construction of this project began in March 2014 and is expected to last through FY 2017/18.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Service Line Replacements	250	243	0	0	0	493
with inflation (3%)	250	250	0	0	0	500

Expenditure breakdown: no design costs, 100% construction

EXPENDITURE HISTORY & REVISIONS

(in thousands \$)

Description	Past / Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Original Budget	900	0	0	0	0	900
Expenditure	(120)	(80)	0	0	0	0
Balance / Carry-over	780	700	0	0	0	0
Revised Budget	120	80	250	250	0	700

Budget has been revised downward due to actual construction costs coming in under budget.

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	700
Total	700

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by replacing old service lines and tapping saddles that have reached their useful life and are at risks of developing leaks. It is anticipated that the elimination of future leaks will result in an annual savings of \$25,000 over a 5-year period.

USEFUL LIFE: 25 years

Project	Kent St. Water Main
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	3
Project No.	TBD



PROJECT DESCRIPTION

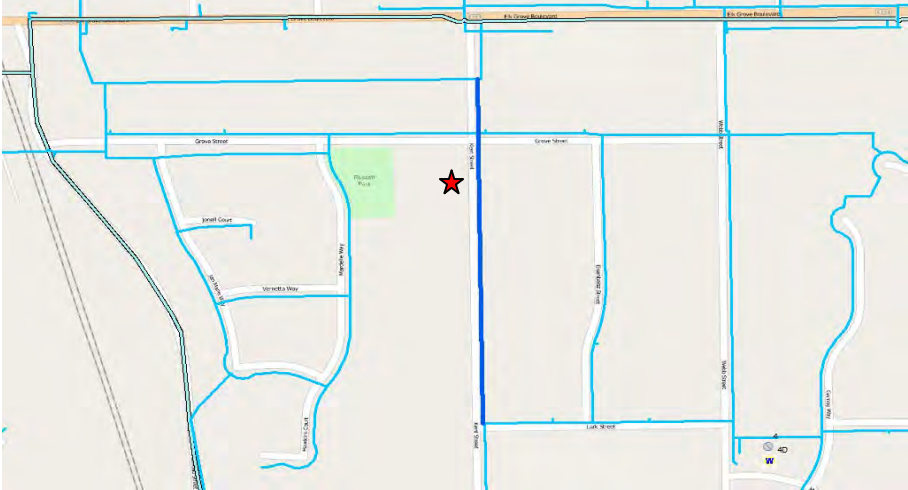
This project installs approximately 1,200 lineal feet of 8” C900 PVC water main in Kent Street.

JUSTIFICATION

Kent Street is currently served by a 4” water main installed in 1960. EGWD standard construction specifications specify minimum size of water mains to be 8” diameter. Furthermore, EGWD has a capital improvement project (CIP) to replace all 3/4” service lines in the district with 1” service lines. The lots on Kent Street are served by 3/4” service lines. This project installs an 8” water main in Kent Street to current EGWD standards and replaces the 3/4” service lines with 1” service lines.

PROJECT LOCATION

The project is located on Kent Street.



★ Project Location

— Proposed Water Main

— Existing Water Main

SCHEDULE & STATUS

Construction of this project is expected to start in July 2016 and last through September 2016.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Kent St. Water Main	280	0	0	0	0	280
with inflation (3%)	280	0	0	0	0	280

Expenditure breakdown: \$7,500 design, \$272,500 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	280
Total	280

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by replacing an old water main, service lines and tapping saddles that have reached their useful life and are at risks of developing leaks. It is estimated that the elimination of future leaks will result in an annual savings of \$1,200.

USEFUL LIFE: 125 years

Project	Truman St./Adams St. Water Main
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	3
Project No.	TBD



PROJECT DESCRIPTION

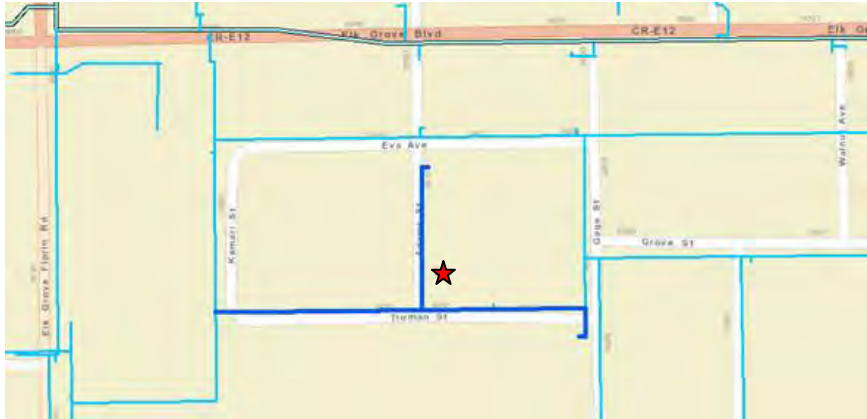
This project installs approximately 700 lineal feet of 8” C900 PVC water main in Truman Street and 325 lineal feet of 8” C900 PVC water main in Adams Street for a total 1,025 lineal feet of 8” C900 PVC water main.

JUSTIFICATION

Truman Street and Adams Street are currently served by 4” water mains installed in 1975. EGWD standard construction specifications specify minimum size of water mains to be 8” diameter. Furthermore, EGWD has a capital improvement project (CIP) to replace all 3/4" service lines in the district with 1” service lines. The lots on Truman Street and Adams Street are served by 3/4" service lines. This project installs an 8” water main in Truman Street and Adams Street to current EGWD standards and replaces the 3/4” service lines with 1” service lines.

PROJECT LOCATION

The project is located on Truman Street and Adams Street.



- ★ Project Location
- Proposed Water Main
- Existing Water Main

SCHEDULE & STATUS

Construction of this project is scheduled to occur in FY 2019/20.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Truman St./Adams St. Water Main	0	0	0	220	0	220
with inflation (3%)	0	0	0	240	0	240

Expenditure breakdown: \$6,000 design, \$234,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	240
Total	240

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by replacing an old water main, service lines and tapping saddles that have reached their useful life and are at risks of developing leaks. It is estimated that the elimination of future leaks will result in an annual savings of \$1,200.

USEFUL LIFE: 125 years

Project	School/Locust/Summit Alley Water Main
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	3
Project No.	TBD



PROJECT DESCRIPTION

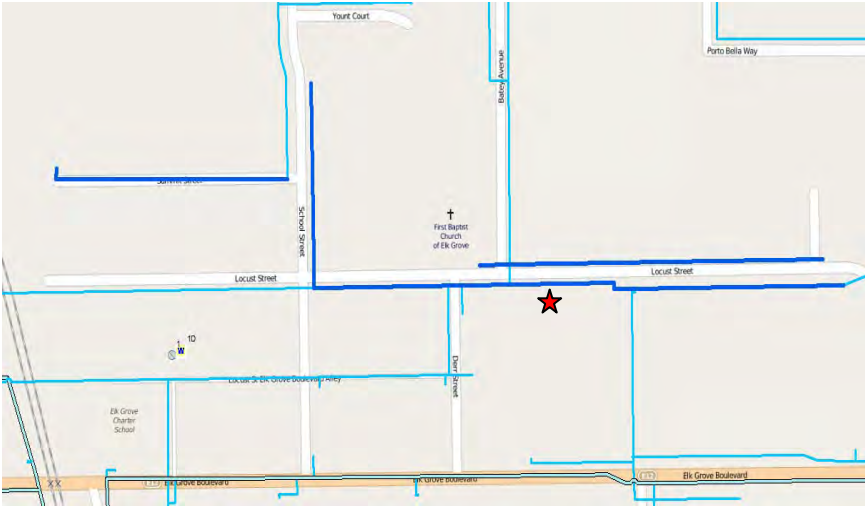
This project installs approximately 225 lineal feet of 8” C900 PVC water main in School Street, 1,300 lineal feet of 8” C900 PVC water main in Locust Street, and 625 lineal feet of 8” C900 PVC water main in Summit St. Alley for a total 2,150 lineal feet of 8” C900 PVC water main.

JUSTIFICATION

Locust Street is currently served by a 4” water main installed in 1965, and School Street and Summit St. Alley are currently served by 4” water mains installed in 1977. EGWD standard construction specifications specify minimum size of water mains to be 8” diameter. Furthermore, EGWD has a capital improvement project (CIP) to replace all 3/4” service lines in the district with 1” service lines. The lots on School Street, Locust Street, and Summit St. Alley are served by 3/4” service lines. This project installs an 8” water main in School Street, Locust Street and Summit St. Alley to current EGWD standards and replaces the 3/4” service lines with 1” service lines.

PROJECT LOCATION

The project is located on School Street, Locust Street, and Summit Alley.



- ★ Project Location
- Proposed Water Main
- Existing Water Main

SCHEDULE & STATUS

Construction of this project is scheduled to occur in FY 2019/20.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
School/Locust/Summit Alley Water Main	0	0	0	453	0	453
with inflation (3%)	0	0	0	495	0	495

Expenditure breakdown: \$9,000 design, \$486,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	495
Total	495

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by replacing an old water main, service lines and tapping saddles that have reached their useful life and are at risks of developing leaks. It is estimated that the elimination of future leaks will result in an annual savings of \$1,200.

USEFUL LIFE: 125 years

Project	Elk Grove Blvd Grove St. Alley Water Main
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	3
Project No.	TBD



PROJECT DESCRIPTION

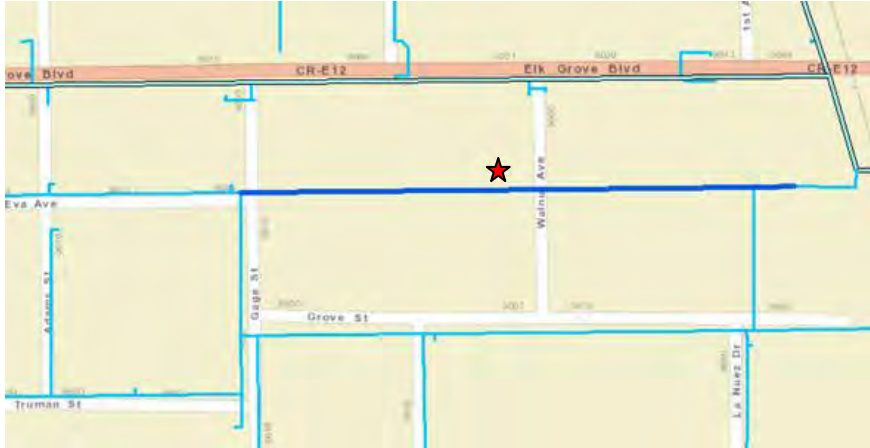
This project installs approximately 900 lineal feet of 8” C900 PVC water main in Elk Grove Blvd Grove St. Alley.

JUSTIFICATION

Elk Grove Blvd Grove St. Alley is currently served by a 4” water main installed in 1975. EGWD standard construction specifications specify minimum size of water mains to be 8” diameter. Furthermore, EGWD has a capital improvement project (CIP) to replace all 3/4” service lines in the district with 1” service lines. The lots on Elk Grove Blvd Grove St. Alley are served by 3/4” service lines. This project installs an 8” water main in Elk Grove Blvd Grove St. Alley to current EGWD standards and replaces the 3/4” service lines with 1” service lines.

PROJECT LOCATION

The project is located on Elk Grove Blvd Grove St. Alley.



- ★ Project Location
- Proposed Water Main
- Existing Water Main

SCHEDULE & STATUS

Construction of this project is scheduled to occur in FY 2020/21.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Elk Grove Blvd Grove St. Alley Water Main	0	0	0	0	258	258
with inflation (3%)	0	0	0	0	290	290

Expenditure breakdown: \$7,500 design, \$282,500 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	290
Total	290

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by replacing an old water main, service lines and tapping saddles that have reached their useful life and are at risks of developing leaks. It is estimated that the elimination of future leaks will result in an annual savings of \$1,200.

USEFUL LIFE: 125 years

Project	Locust St.-Elk Grove Blvd Alley/Derr St. Water Main
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	3
Project No.	TBD



PROJECT DESCRIPTION

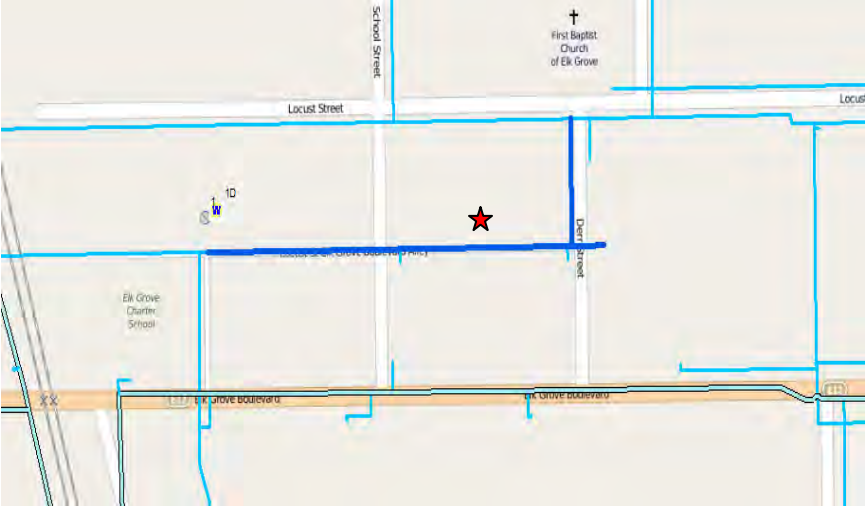
This project installs approximately 725 lineal feet of 8” C900 PVC water main in Locust St.-Elk Grove Blvd Alley and 175 lineal feet of 8” C900 PVC water main in Derr Street.

JUSTIFICATION

Locust St.-Elk Grove Blvd Alley and Derr Street are currently served by 4” water mains installed in 1965. EGWD standard construction specifications specify minimum size of water mains to be 8” diameter. This project installs an 8” water main in Locust St.-Elk Grove Blvd Alley and Derr Street to current EGWD standards.

PROJECT LOCATION

The project is located on Locust St.-Elk Grove Blvd Alley and Deer Street.



- ★ Project Location
- Proposed Water Main
- Existing Water Main

SCHEDULE & STATUS

Construction of this project is scheduled to occur in FY 2020/21.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Locust St.-Elk Grove Blvd Alley/Derr St. Water Main	0	0	0	0	187	187
with inflation (3%)	0	0	0	0	210	210

Expenditure breakdown: \$7,500 design, \$202,500 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	210
Total	210

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by replacing an old water main, service lines and tapping saddles that have reached their useful life and are at risks of developing leaks. It is estimated that the elimination of future leaks will result in an annual savings of \$1,200.

USEFUL LIFE: 125 years

Project	Elk Grove Blvd Water Main
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	4
Project No.	206



PROJECT DESCRIPTION

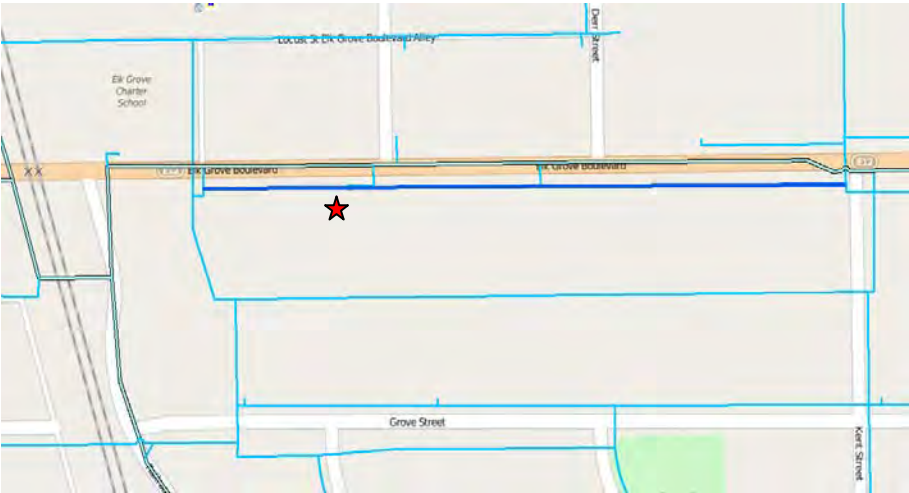
This project installs approximately 1,300 lineal feet of 8” water main on the south side of Elk Grove Blvd. between the Union Pacific Railroad tracks and Kent St, and installs water meters on the front side of the properties along this stretch.

JUSTIFICATION

Businesses and residences along the south side of Elk Grove Blvd. are currently served by a 4” water main located along the rear property lines. To complete the water meter retrofit program, water meters have been placed in the public utility easement at the back of each property. To read the meters, the properties must be accessed by entering fenced-in backyards which are often locked. This project replaces an undersized 4” main with an 8” main and moves the meters to the front sides of the properties.

PROJECT LOCATION

The project is located on the south side of Elk Grove Blvd. between the UPRR tracks and Kent St.



- ★ Project Location
- Proposed Water Main
- Existing Water Main

SCHEDULE & STATUS

Construction of this project is expected to occur in FY 2020/21.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Elk Grove Blvd Water Main	0	0	0	0	444	444
with inflation (3%)	0	0	0	0	500	500

Expenditure breakdown: \$12,000 design, \$488,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	500
Total	500

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by replacing an old water main, service lines and tapping saddles that have reached their useful life and are at risks of developing leaks. It is estimated that the elimination of future leaks will result in an annual savings of \$600.

USEFUL LIFE: 125 years

Project	Lark St. Water Main
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	2
Project No.	TBD



PROJECT DESCRIPTION

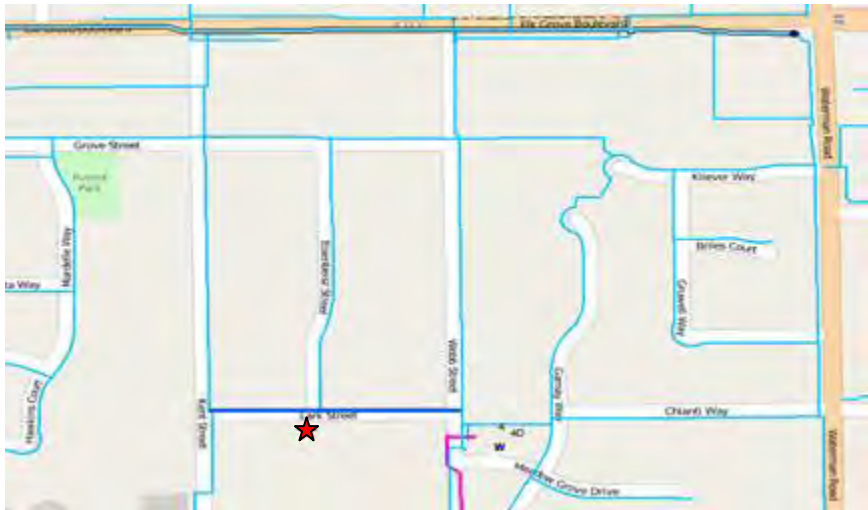
This project installs approximately 730 lineal feet of 8” C900 PVC water main in Lark Street.

JUSTIFICATION

Lark Street is currently served by a 6” water main installed in 1960. The material of the water main is asbestos-cement pipe (ACP). Repairs on this water main in September 2015 revealed that the wall of the ACP is becoming soft from water absorption. Due to the deteriorating condition of the pipe, it is time to replace this water main and bring it up to current EGWD standard construction specifications. Furthermore, EGWD has a capital improvement project (CIP) to replace all 3/4" service lines in the district with 1" service lines. Six of the eighteen lots on Lark Street are served by 3/4" service lines. This project installs an 8” water main in Lark Street and replaces the six (6) 3/4” service lines with 1” service lines.

PROJECT LOCATION

The project is located on Lark Street.



★ Project Location

— Proposed Water Main

— Existing Water Main

SCHEDULE & STATUS

Construction of this project is scheduled to occur in FY 2018/19.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Lark St. Water Main	0	0	0	156	0	156
with inflation (3%)	0	0	0	170	0	170

Expenditure breakdown: \$7,500 design, \$162,500 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	170
Total	170

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by replacing an old water main, service lines and tapping saddles that have reached their useful life and are at risks of developing leaks. It is estimated that the elimination of future leaks will result in an annual savings of \$1,200.

USEFUL LIFE: 125 years

Project	Well Rehabilitation Program (one per year)
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	1
Project No.	503



PROJECT DESCRIPTION

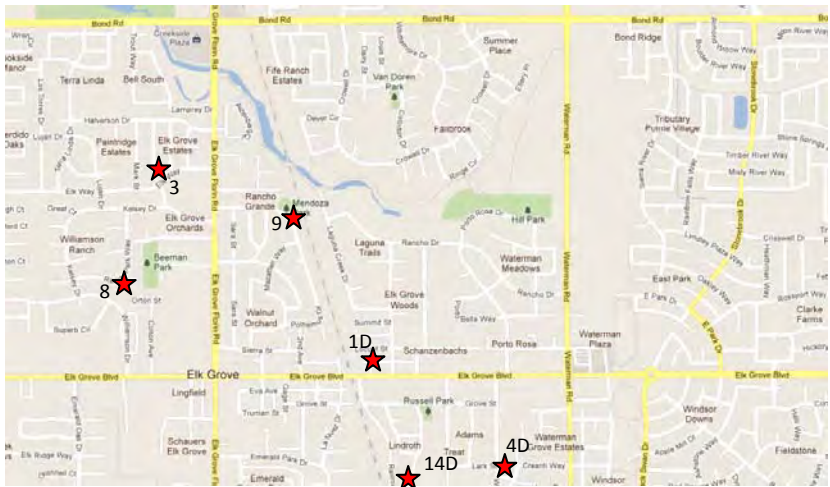
The well rehabilitation program provides for one well rehabilitation project each year.

JUSTIFICATION

The well rehabilitation program maintains production and water quality from the District’s wells. By putting the well rehabilitation program in place, the District spreads the capital costs associated with maintaining its well assets. Maintaining production and water quality from the District’s wells are critical to meeting the required source capacity as prescribed by the Division of Drinking Water regulations.

PROJECT LOCATION

The project locations, some of which are shown below, are the wells within the District’s boundary.



★ Project Location

SCHEDULE & STATUS

Preliminary engineering, final design and construction are recurring on an annual basis.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Well Rehabilitation Program	90	90	90	90	90	450
with inflation (3%)	90	93	95	98	101	477

Expenditure breakdown: \$25,000 design, \$452,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Supply / Distribution Improvements	477
Total	477

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 5 years (for each rehabilitated well)

Project	Well 1D Pump Conversion
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	1
Project No.	504



PROJECT DESCRIPTION

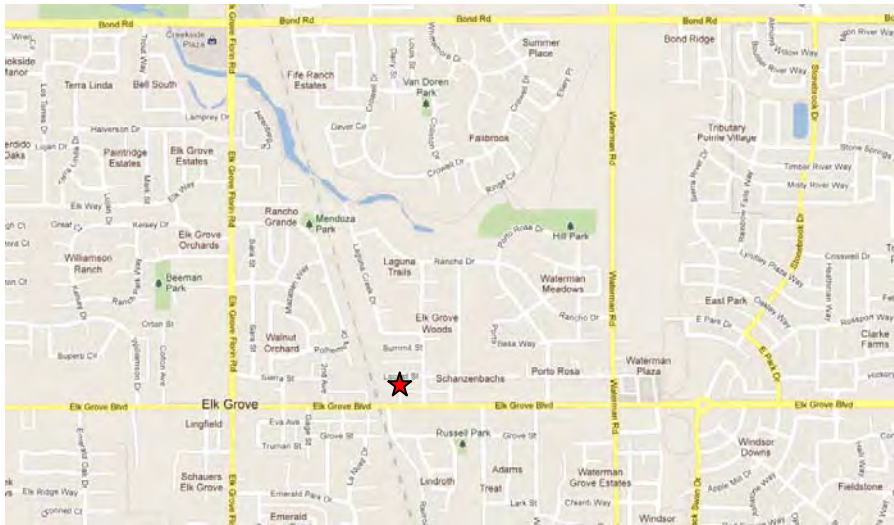
This project converts the vertical turbine pump of Well 1D (School Street Deep Well) from an oil-lubricated system to a water-lubricated system.

JUSTIFICATION

Well 1D is an active, permitted deep well with a depth of 1,025 feet and a flow rate of approximately 1,900 gpm. The vertical, turbine pump in Well 1D is oil lubricated. Oil lubrication in domestic water pumps can cause bacteriological contamination of the drinking water, particularly after the pump has been idle for an extended period of time.

PROJECT LOCATION

The address for Well 1D is 9085 Elk Grove Blvd., Elk Grove, California. The assessor’s parcel number is APN 12502530020000.



★ Project Location

SCHEDULE & STATUS

Preliminary engineering, final design and construction are scheduled to occur in FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Well 1D Pump Conversion	64	0	0	0	0	64
with inflation (3%)	64	0	0	0	0	64

Expenditure breakdown: \$5,000 design, \$59,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	64
Total	64

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 20 years

Project	Railroad Corridor Water Line
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	2
Project No.	210



PROJECT DESCRIPTION

This project completes the installation of a 18” to 16” diameter transmission main that connects the Railroad Street WTF to points of connection (POC) along the most southeastern side of the District’s water distribution system at Falcon Meadow Dr. and Provencial Court. The following lengths of pipe are already installed: 2,600 lineal feet (LF) of 18” pipe, 400 LF of 16” pipe and 150 LF of 12” pipe. This project covers the remaining work to complete the transmission main and includes installation of 600 LF of 16” pipe (including a 60 LF open-cut trench creek crossing), 100 LF of 12” pipe, and one (1) 26” diameter x 115 LF boring.

JUSTIFICATION

This project will enhance the District’s water distribution system by facilitating the movement of treated water from the Railroad Street WTF to areas of demand. Computer modeling shows that undeveloped property totaling 68 acres will receive 10 to 15% of the water in the transmission main based on typical water usage from a future industrial tenant. The remainder of water would go to residential water consumers.

PROJECT LOCATION

The project is located in the corridor along the west side of the Southern Pacific Railroad tracks from the Railroad Street WTF to a POC of the water distribution system at Provencial Ct.



★ Project Location

SCHEDULE & STATUS

Completion of the transmission main is scheduled for FY2015/16. The second railroad crossing is scheduled for FY2020/21.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Railroad Corridor Water Line	0	0	0	0	169	169
with inflation (3%)	0	0	0	0	190	190

Expenditure breakdown: \$10,000 design, \$180,000 construction

EXPENDITURE REVISION

(in thousands \$)

Description	Past / Planned Expenditures						Total
	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Original Budget	164	0	175	0	0	0	339
Expenditure	(304)	0	0	0	0	0	0
Balance / Carry-over	(140)*	0	0	0	0	0	0
Revised Budget	304	0	0	0	0	190	494

**\$140K from Unforeseen Capital Projects to cover unaccounted for expenditures related to jack & bore work under UPRR tracks.*

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	420

CONNECTION FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	74
Total	494

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 125 years

Project	Backyard Water Mains/ Services Replacement
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	3
Project No.	505



PROJECT DESCRIPTION

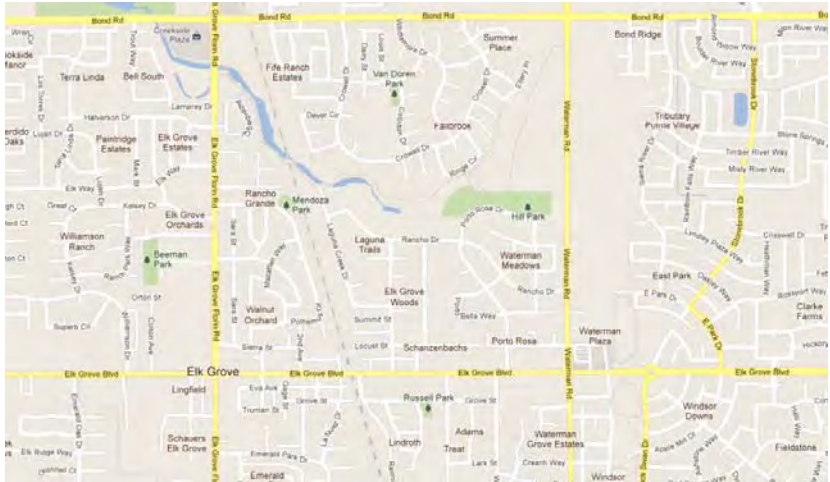
This project replaces existing 4” water mains with larger diameter water mains and relocates the mains from backyard public utilities easements to rights-of-ways in the streets. Water services will be moved from the backyards to the front sides of homes.

JUSTIFICATION

Some of the District’s older areas are served by 4” water mains located in backyard public utilities easements. EGWD standard construction specifications specify minimum size of water mains to be 8” diameter. This project will bring undersized water mains up to current EGWD standards and will place water mains on the front sides of properties for better access.

PROJECT LOCATION

Project locations include Elk Grove-Florin (Frontage), Sara Street, Durango Way, Mary Ellen Way, Mark Street, Emily Street, Barth Street, Amethyst Court, Garnet Court, Elk Way, Kelsey Drive, Sharkey Avenue, Fenton Court, and Skydome Court. Due to the many locations, the project locations are not shown.



★ Project Location

SCHEDULE & STATUS

The project is scheduled to occur in FY 2017/18 and FY 2018/19.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Backyard Water Mains/Services Replacements	0	819	796	0	0	1,615
with inflation (3%)	0	844	844	0	0	1,688

Expenditure breakdown: \$50,000 design, \$1,638,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Supply / Distribution Improvements	1,688
Total	1,688

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 125 years

Project	Business Center/CSD Bldg. Water Main Looping
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	2
Project No.	208



PROJECT DESCRIPTION

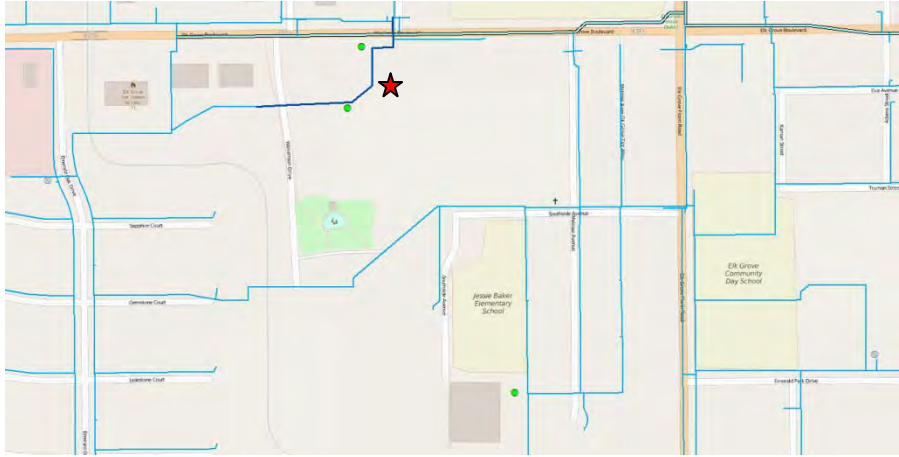
This project installs approximately 700 lineal feet of 8” C900 PVC water main to connect a dead-end water main at The Business Center to a 12” water main stub at Elk Grove Blvd and Colton Avenue. The new water main loop includes installing two (2) new hydrants at the Cosumnes CSD Administration Building.

JUSTIFICATION

Water system performance and water quality will be enhanced by connecting an 8” dead-end main at The Business Center to a 12” water main stub at Elk Grove Blvd and Colton Avenue. 700 lineal feet of 8” water main will be aligned in an L-shaped pattern between the dead-end main at The Business Center and the 12” point-of-connection (POC) at Elk Grove Blvd. The 12” POC is located on the north side of Elk Grove Blvd. Therefore, 100 lineal feet of horizontal directional drilling will be required to install the 8” water main across Elk Grove Blvd. Two (2) new hydrants will be installed along this new section of water main to provide closer hydrant access for the CSD Administration Bldg. Additionally, a new hydrant will be installed on the east side of the Project R.I.D.E. equestrian arena as part of this project.

PROJECT LOCATION

The project is located near the Cosumnes CSD Administration Bldg. and Project R.I.D.E..



- ★ Project Location
- Proposed Water Main
- Existing Water Main
- Proposed Hydrant

SCHEDULE & STATUS

Construction started in FY2015/16 and is scheduled to complete in FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Business Center/CSD Bldg. Water Main Looping	175	0	0	0	0	175
with inflation (3%)	175	0	0	0	0	175

Expenditure breakdown: \$5,000 design, \$170,000 construction

EXPENDITURE REVISION

(in thousands \$)

Description	Past / Planned Expenditures					Total
	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	
Original Budget	175	0	0	0	0	175
Expenditure	0	0	0	0	0	0
Balance / Carry-over	175	175	0	0	0	0
Revised Budget	0	175	0	0	0	175

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	175
Total	175

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 125 years

Project	Cadura Circle Water Main Looping
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	3
Project No.	TBD



PROJECT DESCRIPTION

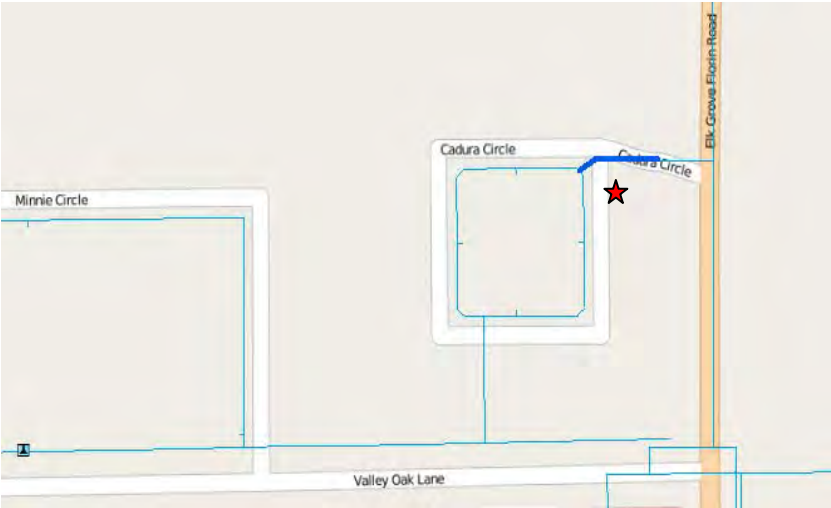
This project installs approximately 130 lineal feet of 8” C900 PVC water main to provide a water main loop so that Cadura Circle is fed by two (2) water mains.

JUSTIFICATION

Cadura Circle is presently served by an 8” water main off of Valley Oak Lane. An 8” water main stub for future connection already exists off of Elk Grove-Florin Road. This project connects the existing 8” water main stub off of Elk Grove-Florin Road to Cadura Circle to enhance water system performance and water quality.

PROJECT LOCATION

The project is located Cadura Circle.



- ★ Project Location
- Proposed Water Main
- Existing Water Main

SCHEDULE & STATUS

Preliminary engineering, final design and construction are scheduled to occur in FY 2018/19.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Cadura Circle Water Main Looping	0	0	28	0	0	28
with inflation (3%)	0	0	30	0	0	30

Expenditure breakdown: \$1,000 design, \$29,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	30
Total	30

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 125 years

Project	Mormon Church Water Main Looping
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	3
Project No.	TBD



PROJECT DESCRIPTION

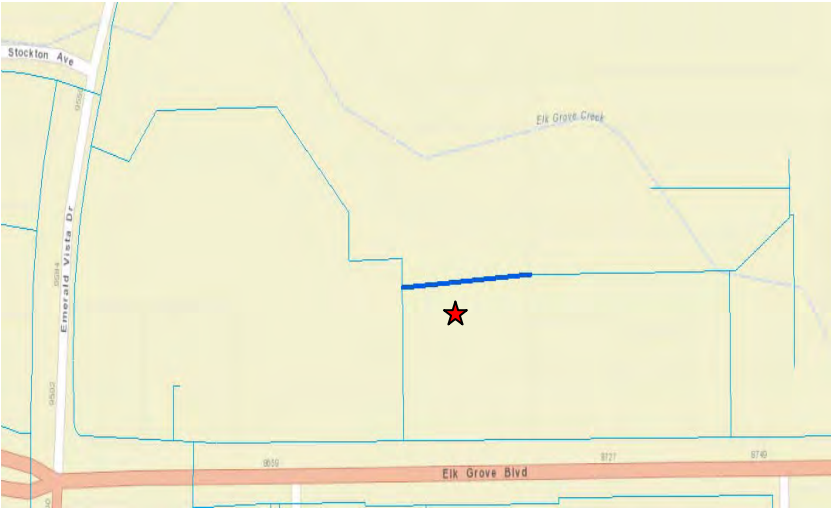
This project installs approximately 300 lineal feet of 8” C900 PVC water main to connect two (2) dead-end mains along the property of the Mormon Church on Elk Grove Blvd.

JUSTIFICATION

An 8” water main exists along the west side of the Mormon Church property off of Elk Grove Blvd. An 8” water main stub for future connection exists at the east side of the property. This project connects the existing 8” water main stub to the 8” water main on the other side of the property. The looped water main system will enhance water system performance and water quality.

PROJECT LOCATION

The project is located at 8679 Elk Grove Blvd, Elk Grove, California.



- ★ Project Location
- Proposed Water Main
- Existing Water Main

SCHEDULE & STATUS

Preliminary engineering, final design and construction are scheduled to occur in FY 2019/20.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Cadura Circle Water Main Looping	0	0	0	64	0	64
with inflation (3%)	0	0	0	70	0	70

Expenditure breakdown: \$1,500 design, \$68,500 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	70
Total	70

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 125 years

Project	RRWTF Tanks & Vessels Recoating
Funding Type	Capital Repair/Replacement Funds
Program	Treatment Improvements
Priority	2
Project No.	TBD



PROJECT DESCRIPTION

This project recoats the exteriors and interiors of the two 2-million gallon water storage tanks, the 190,000-gallon backwash tank, and six 5000-gallon filter vessels at the Railroad Street Water Treatment Facility (RRWTF).

JUSTIFICATION

The tanks and vessels at the RRWTF were constructed in year 2005. The exterior and interior coatings of these tanks and vessels are nearly ten years old. External corrosion where fragments of the coating have separated from the storage tanks and exposed the base metal was noted during an inspection. Internal corrosion in the storage tanks above the water line and along the roof rafters was noted during inspections performed by divers. Recoating the storage tanks, the backwash tank and filter vessels is necessary to maintain the useful lives of the tanks and vessels. Engineering will look at the potential benefits of protecting the storage tanks and backwash tank with cathodic protection prior to recoating.

PROJECT LOCATION

The address for the RRWTF is 9175 Railroad Street, Elk Grove, California. The assessor’s parcel number is APN 13400500810000.



★ Project Location

SCHEDULE & STATUS

Engineering was performed in FY 2015/16 to develop the recoating specifications and assess if cathodic protection should be installed in the storage tanks and backwash tank. Recoating of the two 2-million gallon storage tanks is scheduled for FY 2016/17. Recoating of the backwash tank and six filter vessels is scheduled for FY 2018/19.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
RRWTF Tanks & Vessels Recoating	350	0	141	0	0	497
with inflation (3%)	350	0	150	0	0	500

Expenditure breakdown: \$10,000 engineering, \$500,000 construction

Description	Past / Planned Expenditures					Total
	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	
Original Budget	50	350	35	150	0	585
Expenditure	(10)	0	0	0	0	0
Balance / Carry-over	40	40	0	0	0	0
Revised Budget	10	350	0	150	0	510

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Treatment Improvements	510
Total	510

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 10 years

Project	Media Replacement Filter Vessels
Funding Type	Capital Repair/Replacement Funds
Program	Treatment Improvements
Priority	1
Project No.	508



PROJECT DESCRIPTION

This project replaces the media in the filter vessels of Filter Train B and Filter Train C at the Railroad Street Water Treatment Facility (RRWTF). Each filter train contains two (2) filter vessels; therefore, the total number of filter vessels for media replacement is four (4).

JUSTIFICATION

Filter media typically has a useful life of 10 years. The RRWTF was built in 2005 with three (3) filter trains – Filter Trains A, B, and C. In 2012, Filter Train D was added to the RRWTF. The filter vessels of Filter Trains B and C contain their original media, a proprietary product called Metalease. This project changes out the media in the filter vessels of Filter Trains B and C to GreensandPlus. GreensandPlus is the most commonly used media in the water industry to remove manganese and iron. This project will make the use of GreensandPlus media consistent throughout all filter trains, and provide for needed maintenance on the RRWTF’s water treatment equipment.

PROJECT LOCATION

The address for the RRWTF is 9175 Railroad Street, Elk Grove, California. The assessor’s parcel number is APN 13400500810000.



★ Project Location

SCHEDULE & STATUS

Construction is expected to occur on one filter train in FY 2016/17 and the other in FY 2017/18.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Media Replacement Filter Vessels	50	49	0	0	0	99
with inflation (3%)	50	50	0	0	0	100

Expenditure breakdown: no design costs, 100% construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Treatment Improvements	100
Total	100

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 10 years

Project	Chlorine Tank Replacement ClorTec Room
Funding Type	Capital Repair/Replacement Funds
Program	Treatment Improvements
Priority	1
Project No.	509



PROJECT DESCRIPTION

This project replaces the 6,000-gallon fiberglass, sodium hypochlorite tank of the ClorTec system at the Railroad Street Water Treatment Facility (RRWTF).

JUSTIFICATION

The resin in the sodium hypochlorite tank is failing. The tank was repaired once already in the summer of 2011 for the same problem. Resin failure in fiberglass tanks storing sodium hypochlorite is a documented problem. It is imperative that the right fiberglass resin be used when manufacturing the tank. If not, studies show that structural damage to the tank can occur in 3 to 5 years. Because of structural concerns, the fiberglass tank requires replacement. In addition, the salt/brine tank will require replacement because it is blocking access to the sodium hypochlorite tank. Modifications to eliminate this problem in the future are part of this project. (Note: Placing a polyethylene liner in the tank is a temporary repair solution that can prolong the need for immediate replacement which is why the timing of this project has been deferred to FY 2018/19.)

PROJECT LOCATION

The address for the RRWTF is 9175 Railroad Street, Elk Grove, California. The assessor’s parcel number is APN 13400500810000.



★ Project Location

SCHEDULE & STATUS

Construction is expected to occur in FY 2018/19.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Chlorine Tank Replacement ChlorTec Room	0	0	75	0	0	75
with inflation (3%)	0	0	80	0	0	80

Expenditure breakdown: no design costs, 100% construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Treatment Improvements	80
Total	80

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not alter the existing facilities or modes of operation.

USEFUL LIFE: 15 years

Project	Hampton WTP Improvements
Funding Type	Capital Improvement Funds
Program	Treatment Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

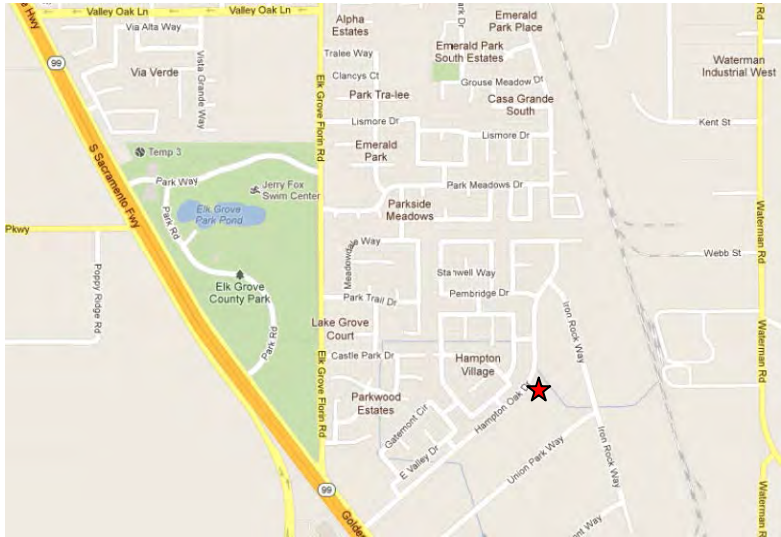
This project adds water quality treatment improvements to the Hampton Village Water Treatment Plant.

JUSTIFICATION

The Hampton Village Water Treatment Plant (HVWTP) was refurbished in FY2014/15 and recommissioned in 2015. Well 13 supplies raw water to the HVWTP and has shown a gradual trend upward in arsenic levels after three months of continuous operation. By California law, the maximum contaminant level (MCL) of arsenic in potable water is 10 parts per billion (ppb). This project is justified on the basis that the HVWTP must meet this state MCL requirement.

PROJECT LOCATION

The address for Hampton Village Water Treatment Plant is 10113 Hampton Oak Dr., Elk Grove, California. The assessor’s parcel number is APN 13407100390000.



★ Project Location

SCHEDULE & STATUS

Engineering, design, and construction are scheduled for FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Hampton WTP Improvements	200	0	0	0	0	200
with inflation (3%)	200	0	0	0	0	200

Expenditure breakdown: \$20,000 engineering, \$180,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Treatment Improvements	180

CONNECTION FEES

Capital Improvement Funds	
▪ Treatment Improvements	20
Total	200

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs.

USEFUL LIFE: 40 years

Project	Well 1D Profiling/Modifications
Funding Type	Capital Repair/Replacement Funds
Program	Treatment Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

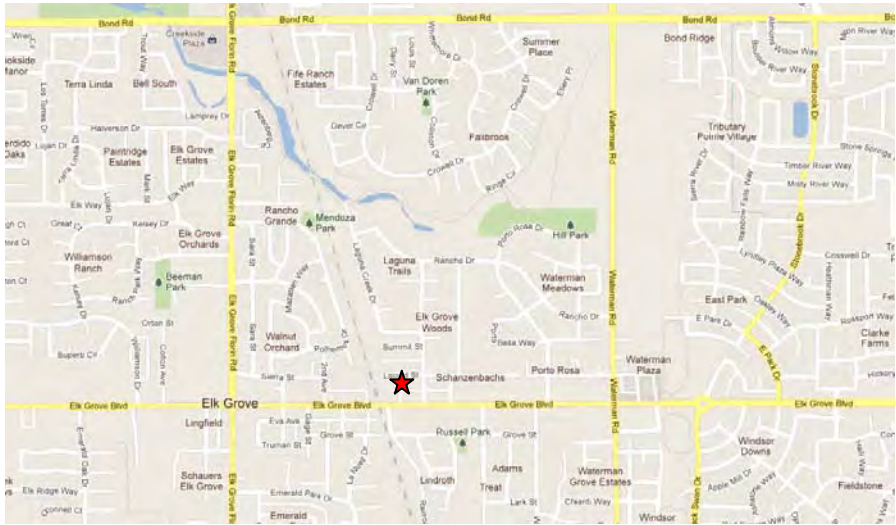
This project uses technology to characterize the flow and water quality chemistry that is produced from aquifer intervals across the well screens of Well 1D. Based on the results of this work, Well 1D may be modified to eliminate production from the stratum in the aquifer that contains arsenic.

JUSTIFICATION

Well 1D, by itself, produces water that exceeds the maximum contaminant level (MCL) of arsenic. Presently, produced water from Well 1D must be blended with produced water from another well to dilute the arsenic concentration below the MCL. Well 1D is screened at the following intervals (depths are given from below ground surface): 490'-530', 830'-860', and 930'-991'. It is speculated that the source of the arsenic is confined in the 490'-530' stratum. If so, Well 1D may be modified to eliminate production from this zone.

PROJECT LOCATION

The address for Well 1D is 9085 Elk Grove Blvd., Elk Grove, California. The assessor's parcel number is APN 12502530020000.



★ Project Location

SCHEDULE & STATUS

Engineering, design, and construction are scheduled for FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Well 1D Profiling/Modifications	100	0	0	0	0	100
with inflation (3%)	100	0	0	0	0	100

Expenditure breakdown: \$20,000 engineering, \$80,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Treatment Improvements	100
Total	100

OPERATING COST IMPACTS

The completion of this project is anticipated to reduce operating costs by an estimated \$50,000 per year when compared to the alternative of providing chemical treatment for arsenic using surface facilities.

USEFUL LIFE: 40 years

Project	Well 3 Pump Replacement/VFD
Funding Type	Capital Improvement Funds
Program	Treatment Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

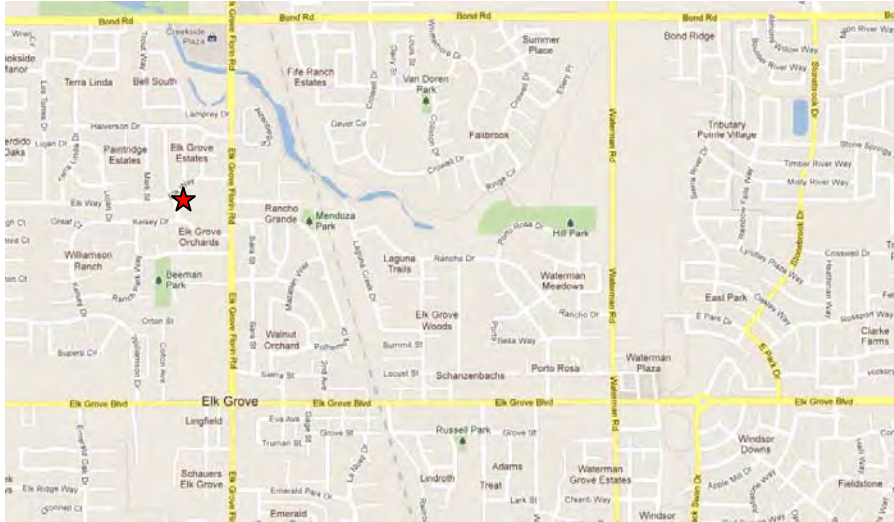
This project replaces the existing vertical turbine pump at Well 3 with a submersible pump, down-hole sand separator and variable frequency drive (VFD), and removes the hydropneumatic tank from the site. This project also installs a pumped-to-waste system to allow the well to be temporarily pumped to storm drain during start-up.

JUSTIFICATION

Well 3 is currently equipped with a vertical turbine pump rated at 850 gpm at 252 feet of head. At a rated flow of 850 gpm, if demand in the water distribution system isn't high, the existing pump starts and stops frequently resulting in inefficient pump operations. Replacing the pump with a submersible pump and VFD combination will promote continuous, efficient operation of the pump. The VFD will also eliminate the need for the hydropneumatic tank.

PROJECT LOCATION

The address for Well 3 is 9374 Emily Street, Elk Grove, California. The assessor's parcel number is APN 11601340130000.



★ Project Location

SCHEDULE & STATUS

Engineering, design, and construction are scheduled for FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Well 8 Pump Replacement/VFD	175	0	0	0	0	175
with inflation (3%)	175	0	0	0	0	175

Expenditure breakdown: \$15,000 engineering, \$160,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Treatment Improvements	175
Total	175

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by \$1500 per year due to more efficient operation of the pump being controlled by a VFD.

USEFUL LIFE: 20 years

Project	Well 8 Pump Replacement/VFD
Funding Type	Capital Improvement Funds
Program	Treatment Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

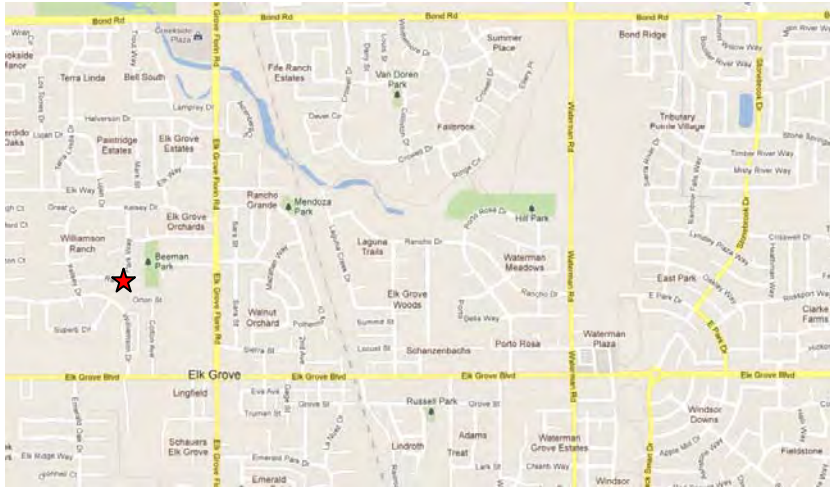
This project replaces the existing vertical turbine pump at Well 8 with a submersible pump, down-hole sand separator and variable frequency drive (VFD), and removes the hydropneumatic tank from the site.

JUSTIFICATION

Well 8 is currently equipped with a 75 hp vertical turbine pump with a design rate of 850 gpm at 252 feet of head. Well 8 has a history of producing of sand, especially during startup. At a rated flow of 850 gpm, if demand in the water distribution system isn't high, the existing pump starts and stops frequently, exacerbating sand production. This project would replace the 75 hp vertical turbine pump with a 40 hp submersible pump designed to pump 475 gpm at 268 feet head. A down-hole sand separator and VFD would also be installed. The reduced flow capacity and VFD combination will promote continuous pump operation and minimize sand production. The VFD will also eliminate the need for the hydropneumatic tank.

PROJECT LOCATION

The address for Well 8 is 9457 Ranch Park Way, Elk Grove, California. The assessor's parcel number is APN 12504100610000.



★ Project Location

SCHEDULE & STATUS

Preliminary engineering, final design and construction are scheduled to occur in FY 2017/18.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Well 8 Pump Replacement/VFD	0	175	0	0	0	175
with inflation (3%)	0	180	0	0	0	180

Expenditure breakdown: \$15,000 design, \$165,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Treatment Improvements	180
Total	180

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by \$1500 per year due to more efficient operation of the pump being controlled by a VFD.

USEFUL LIFE: 20 years

Project	Link Sample Pressure Stations to SCADA
Funding Type	Capital Improvement Funds
Program	Treatment Improvements
Priority	4
Project No.	TBD



PROJECT DESCRIPTION

This project links to SCADA the ten (10) stations in the District’s distribution system that automatically sample water pressure at a regular time interval.

JUSTIFICATION

The District has ten (10) sample stations that regularly poll pressure data in the water distribution system. The pressure data is currently uploaded on a monthly basis to the District’s computer server. Operations personnel use the pressure data to track the ongoing performance of the distribution system, and to make operational adjustments as deemed necessary. Linking the pressure data to the District’s supervisory control and data acquisition (SCADA) system will allow Operators to assess and adjust operations based on real-time pressure data.

PROJECT LOCATION

The ten (10) sample stations are located throughout the District’s two service areas.



★ Project Location

SCHEDULE & STATUS

Engineering and construction is expected to occur in FY 2018/19.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Link Sample Pressure Stations to SCADA	0	0	94	0	0	94
with inflation (3%)	0	0	100	0	0	100

Expenditure breakdown: \$5,000 engineering, \$95,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Treatment Improvements	100
Total	100

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 15 years

Project	Truck Replacements
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	3
Project No.	401



PROJECT DESCRIPTION

This project replaces aging work trucks with new trucks.

JUSTIFICATION

Because distances traveled by work trucks are relatively short within the EGWD boundary, the replacement of vehicles in the EGWD truck fleet is primarily predicated on age and not mileage. EGWD typically keeps trucks for 10 years. The following are trucks planned for replacement over the next five years.

FY 16/17

- Truck 301 – 2006 Chevy 3500 – 35,000 Miles – 1 Ton - \$60K
- Truck 401 – 2007 Chevy C2500 – 55,000 Miles – ¾ Ton - \$60K

FY 17/18

- Truck 102 – 2007 Chevy 3500 – 67,000 Miles – 1 Ton - \$60K
- Truck 303 – 2006 Ford F650 – 31,000 Miles – Dump Truck - \$100K

FY 18/19

- Truck 302 – 2006 Chevy 3500 – 35,000 Miles – 1 Ton - \$70K
- Truck 403 – 2007 Chevy Tahoe – 37,000 Miles – SUV - \$60K
- Truck 402 – 2008 Ford F250 – 65,000 Miles – ¾ Ton - \$60K

FY 19/20

- Truck 407 – 2008 Ford F550 – 20,000 Miles – Dump Truck - \$100K
- Truck 405 – 2007 Ford F550 – 18,000 Miles – Dump Truck - \$100K

FY20/21

- Truck 404 – 2008 Ford Escape – 72,000 Miles – SUV - \$55K
- Truck 409 – 2009 Ford F650 – 23,000 Miles – Dump Truck - \$100K

PROJECT LOCATION

These work vehicles cover all areas of the Elk Grove Water District.

SCHEDULE & STATUS

Refer to Justification section above for vehicle replacement schedule.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Truck Replacements	120	160	190	200	155	825
with inflation (3%)	120	165	202	219	174	880

Expenditure breakdown: no design, 100% purchase

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	880
Total	880

OPERATING COST IMPACTS

It is anticipated that the purchase of the replacement trucks will decrease maintenance costs by \$2,500 per year by lowering the incidence of repairs needed to keep older trucks operational.

USEFUL LIFE: 10 years

Project	Security Infrastructure
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	3
Project No.	403



PROJECT DESCRIPTION

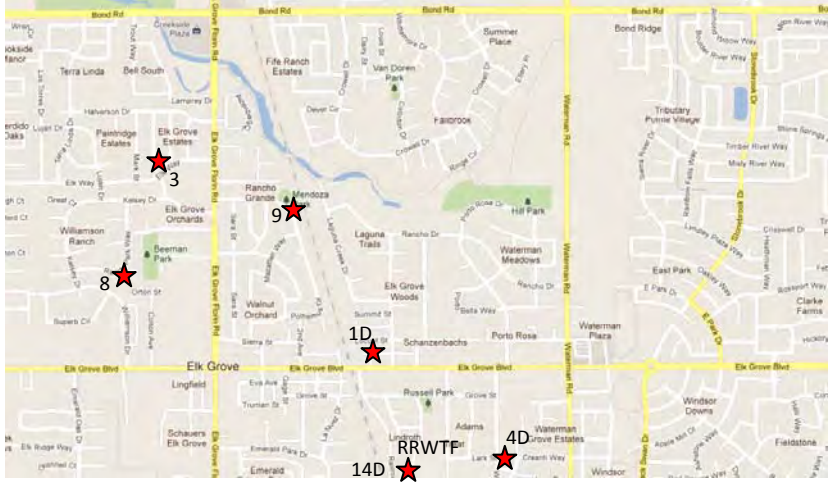
This project improves security of the District’s facilities by replacing existing low resolution cameras with high tech/high resolution cameras at the deep well sites and water treatment facilities, and installing cameras at the shallow well sites.

JUSTIFICATION

The District is responsible for providing the public with a safe and reliable water supply. Public water systems are at risk to acts of vandalism and intrusion. The District currently has security cameras and alarm systems at the deep well sites and water treatment facilities. These cameras are old technology with poor resolution. This project replaces the existing cameras with high resolution cameras and adds these cameras at the shallow well sites so that all well sites and water treatment facilities are monitored by cameras. Additionally, it will be investigated if perimeter beams at each well site should be eliminated and replaced by a video verification. With the video verification system, the cameras sense motion and then tilt and zoom to where the motion is. The security contractor then determines if an alarm event is occurring and can call the police.

PROJECT LOCATION

The project locations are all of the well sites (Well 11D and Well 13 not shown), the Railroad Water Treatment Facility and Hampton Village Water Treatment Plant (not shown).



★ Project Location

SCHEDULE & STATUS

Engineering, design, and construction are expected to occur in FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Security Infrastructure	84	0	0	0	0	84
with inflation (3%)	84	0	0	0	0	84

Expenditure breakdown: \$17,000 design, \$67,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	84
Total	84

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by \$2,000 per year for the additional video verification monitoring services by the security contractor and adding DSL service at the three (3) shallow well sites.

USEFUL LIFE: 15 years

Project	RRWTF Emergency Access Gate
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

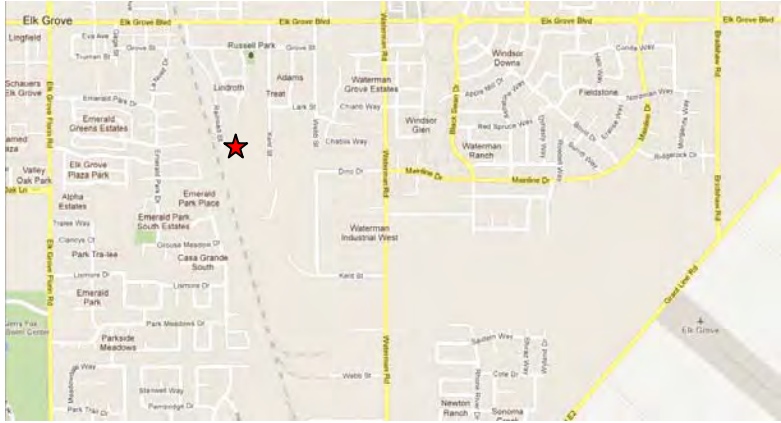
This project installs an additional 15' wide access gate to the Railroad Water Treatment Facility (RRWTF) on the rear side (east side) of the RRWTF site.

JUSTIFICATION

The RRWTF site has only one access gate located at the front of the property. In the event of an emergency that rendered Railroad Street unusable, personnel at the RRWTF could be trapped and unable to provide services, including emergency services, to Elk Grove Water District customers. Having a secondary access gate located on the rear side of the RRWTF site would provide District personnel an accessible path during an emergency event.

PROJECT LOCATION

The project location is at the Railroad Street Water Treatment Facility.



★ Project Location

SCHEDULE & STATUS

Engineering, design, and construction are expected to occur in FY 2017/18.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
RRWTF Emergency Access Gate	0	24	0	0	0	24
with inflation (3%)	0	25	0	0	0	25

Expenditure breakdown: \$25,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	25
Total	25

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 20 years

Project	District Administration Bldg. Improvements
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	
Project No.	404



PROJECT DESCRIPTION

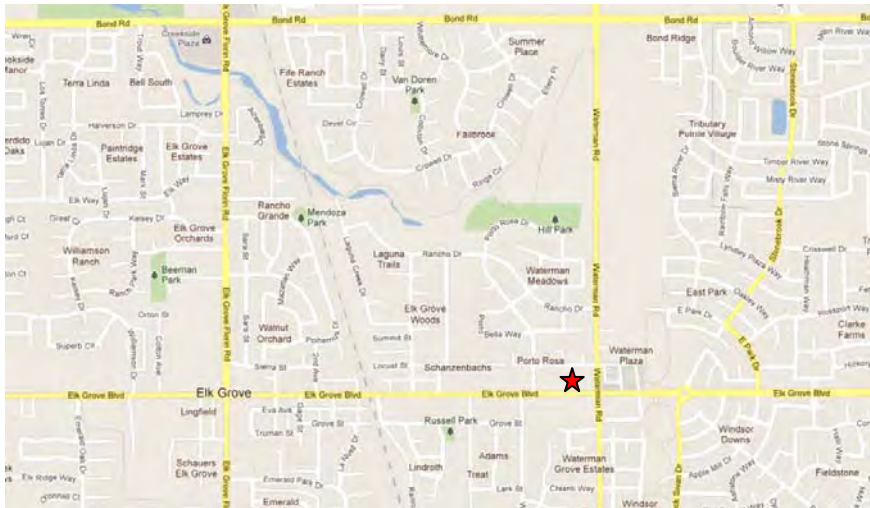
This project makes improvements to the District Administration Building.

JUSTIFICATION

To be discussed during the Infrastructure Committee meeting on 4/21/16.

PROJECT LOCATION

The address for the administration building is 9257 Elk Grove Blvd, #A, Elk Grove, California.



★ Project Location

SCHEDULE & STATUS

This project is planned for .

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
District Administration Bldg. Improvements	0	0	0	0	0	0
with inflation (3%)	0	0	0	0	0	0

Expenditure breakdown: ?? design, ?? construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	0
Total	0

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: ?? years

Project	RRWTF Modular Meeting Room & I.T. Center
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	1
Project No.	405



PROJECT DESCRIPTION

This project installs a modular building(s) for a meeting/training room for Operations personnel and information technology (I.T.) center behind the Operations and Maintenance building at the Railroad Street Water Treatment Facility (WTF).

JUSTIFICATION

The Railroad Street WTF is where Operations personnel and maintenance activities are based. The Operations and Maintenance (O&M) building at the Railroad Street WTF does not have a room for meetings and training classes. This project provides a building where meetings and training classes for Operations personnel can occur. It also centralizes the I.T. operations and equipment in one location, and in an environment with better control of room temperature.

PROJECT LOCATION

The address for Railroad Street WTF is 9715 Railroad Street, Elk Grove, California. The assessor’s parcel number is APN 13400500810000.



★ Project Location

SCHEDULE & STATUS

This project is a carry-over from last fiscal year and is now planned for construction in FY 2015/16. Construction is planned for FY2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
RRWTF Modular Meeting Room & I.T. Center	215	0	0	0	0	215
with inflation (3%)	215	0	0	0	0	215

Expenditure breakdown: \$25,000 design, \$190,000 construction

EXPENDITURE REVISION

(in thousands \$)

Description	Past / Planned Expenditures					Total
	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	
Original Budget	125	0	0	0	0	125
Expenditure	(1)	0	0	0	0	0
Balance / Carry-over	124	91	0	0	0	
Revised Budget	1	215	0	0	0	216

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	216
Total	216

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50 years

Project	Fiber Optic Cable
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

This project installs a 3400 linear feet of fiber optic cable between the District Office and the Railroad Water Treatment Facility (RRWTF). This project is required in order for the computer servers to be centralized at the proposed RRWTF Modular Meeting Room & I.T. Center.

JUSTIFICATION

The District is planning to build a modular meeting room & I.T. center at the RRWTF. With the exception of servers supporting camera security, all computer servers will be housed in the proposed I.T. Center. The computers at the District Office will require a fast fiber optic connection with the servers located at the RRWTF I.T. Center so that daily business may be conducted. Consolidated Communications is the only company that provides fiber optic service in the District’s area. The cost for fiber optic service from Consolidated Communications is \$2,999 per month with a minimum 3-year term. The District can install its own fiber optic cable for estimated \$135,000. This project is justified on the basis of a 3.75 year payout when compared against the cost of leasing fiber optic from Consolidated Communications.

PROJECT LOCATION

The proposed route of the fiber optic cable is along Elk Grove Blvd., Webb St., Grove St., Kent St. and to the RRWTF.



★ Project Location

SCHEDULE & STATUS

Engineering, design and construction are scheduled for FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Fiber Optic Cable	135	0	0	0	0	135
with inflation (3%)	135	0	0	0	0	135

Expenditure breakdown: \$5,000 design, \$130,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	135
Total	135

OPERATING COST IMPACTS

The completion of this project is expected to decrease operating costs by \$36,000 per year based on savings achieved from not leasing fiber optic from Consolidated Communications.

USEFUL LIFE: 20 years

Project	Well 1D Gate Improvement
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	4
Project No.	407



PROJECT DESCRIPTION

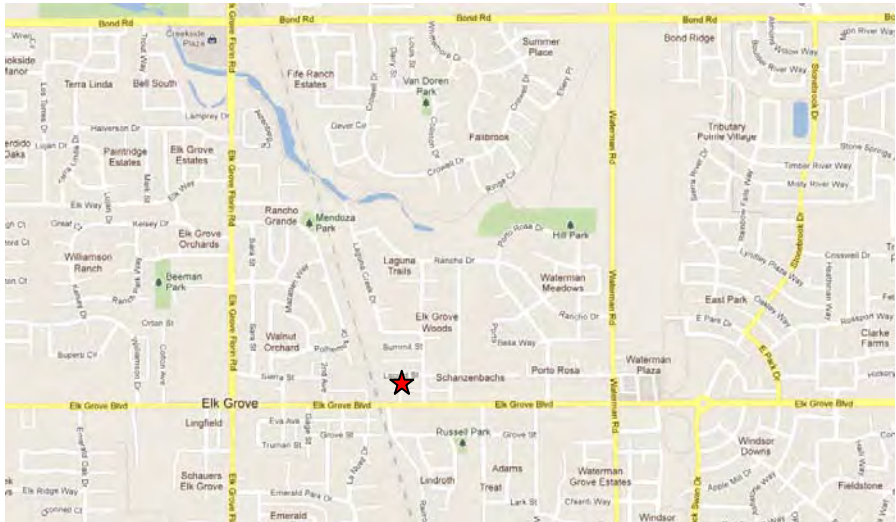
This project modifies the vehicle access gate at the location for Well 1D (School Street Deep Well) so that it is operable.

JUSTIFICATION

Well 1D was constructed in 2008 and is located in the historic area of downtown Elk Grove, known as Old Town Elk Grove. To match the character of Old Town, the fence at the front of the property was built out of ornamental iron. The vehicle access gate to the well site is also constructed of ornamental iron and was designed to hinge open electronically. The gate does not work properly, primarily due to the heavy weight of the gate. This project modifies the gate with rollers to take the weight off the hinge and changes its to a manual operation.

PROJECT LOCATION

The address for Well 1D is 9085 Elk Grove Blvd., Elk Grove, California. The assessor’s parcel number is APN 12502530020000.



★ Project Location

SCHEDULE & STATUS

Construction is planned for FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Well 1D Gate Improvement	10	0	0	0	0	10
with inflation (3%)	10	0	0	0	0	10

Expenditure breakdown: \$10,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	10
Total	10

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 15 years

Project	HVWTP Roof Replacement
Funding Type	Capital Repair/Replacement Funds
Program	Treatment Improvements
Priority	4
Project No.	TBD



PROJECT DESCRIPTION

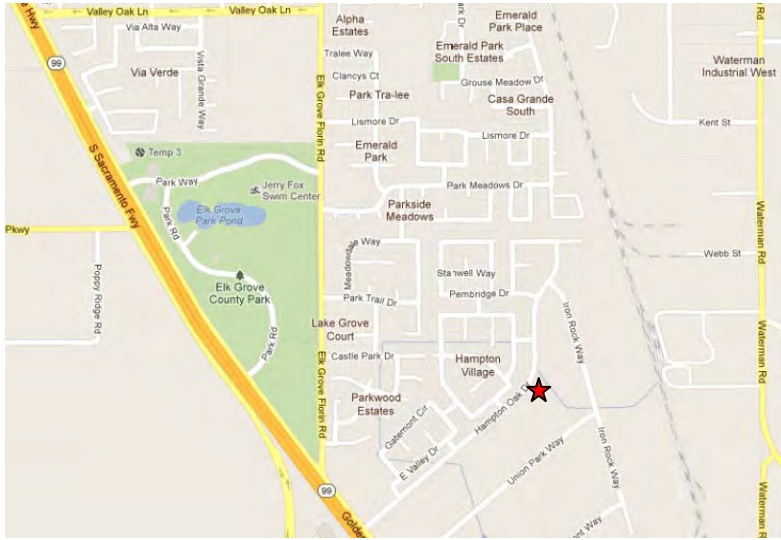
This project replaces the roof of the building housing the control room and water quality treatment equipment at the Hampton Village Water Treatment Plant.

JUSTIFICATION

The Hampton Village Water Treatment Plant (HVWTP) was built in 1996. The roof housing the control room and water quality treatment equipment is 20 years old and is nearing the end of its useful life. This project replaces the roof to extend the useful life of the building at the HVWTP.

PROJECT LOCATION

The address for Hampton Village Water Treatment Plant is 10113 Hampton Oak Dr., Elk Grove, California. The assessor’s parcel number is APN 13407100390000.



★ Project Location

SCHEDULE & STATUS

Construction is scheduled for FY 2017/18.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
HVWTP Roof Replacement	0	19	0	0	0	19
with inflation (3%)	0	20	0	0	0	20

Expenditure breakdown: no design, \$20,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Treatment Improvements	20
Total	20

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs.

USEFUL LIFE: 20 years

Project	Emergency Generator Administration Building
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	2
Project No.	TBD



PROJECT DESCRIPTION

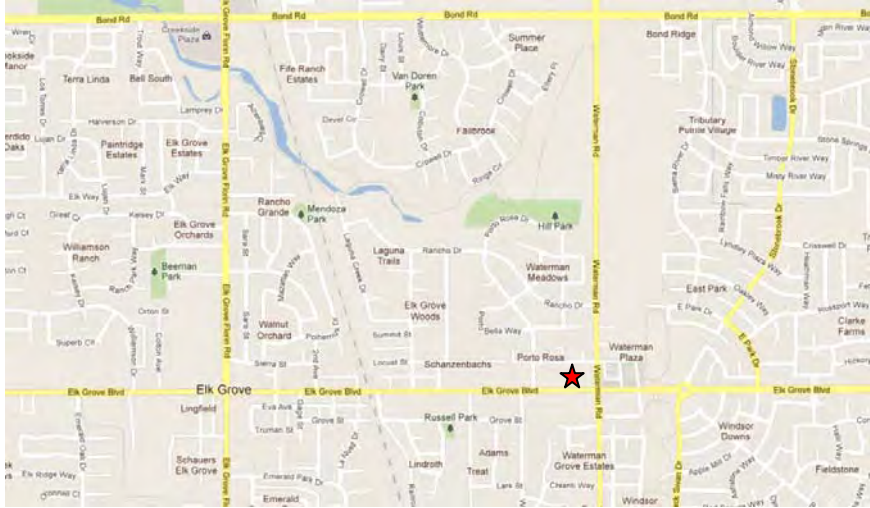
This project installs an emergency generator at the District administration building.

JUSTIFICATION

The District has determined that as part of its emergency response plan, the administration building requires emergency power to sustain operations during an emergency where SMUD is unable to provide power to the administration building.

PROJECT LOCATION

The address for the administration building is 9257 Elk Grove Blvd, #A, Elk Grove, California.



★ Project Location

SCHEDULE & STATUS

This project is planned for construction in FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Emergency Generator Administration Building	50	0	0	0	0	50
with inflation (3%)	50	0	0	0	0	50

Expenditure breakdown: \$3,000 design, \$47,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	50
Total	50

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 20 years

Project	Unforeseen Capital Projects
Funding Type	Unforeseen Capital Projects Funds
Program	Unforeseen Capital Projects
Priority	N/A
Project No.	TBD



PROJECT DESCRIPTION

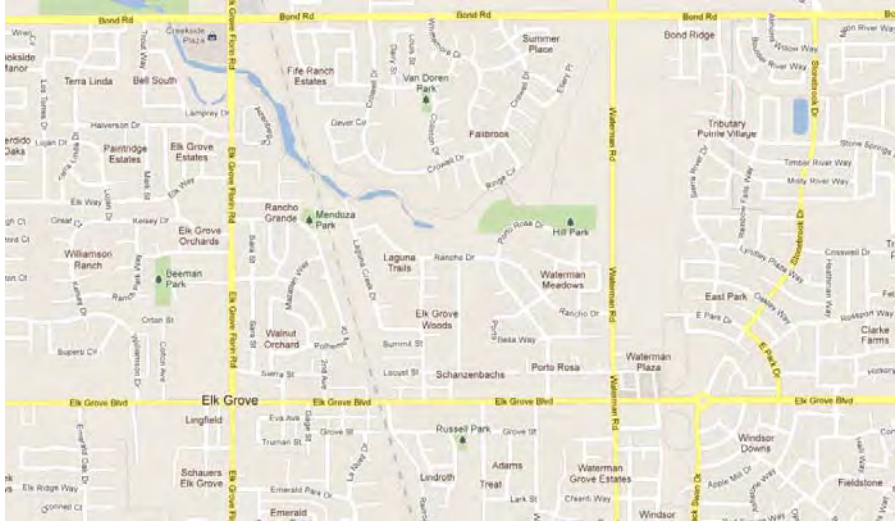
This project provides reserve funds for unforeseen future capital projects.

JUSTIFICATION

The purpose of the capital improvement program is to plan and fund capital projects in advance of the projects’ needed design and construction date. The unforeseen capital projects program provides the Elk Grove Water District with a safety net for funding future capital projects that are not included in the CIP planning process. In some cases, these unforeseen capital projects may be the result of emergencies that have occurred in the district.

PROJECT LOCATION

Project locations are unknown at this time and therefore not shown.



★ Project Location

SCHEDULE & STATUS

Engineering, design, and construction associated with the unforeseen capital projects program are unknown.

EXPENDITURE SCHEDULE

(in thousands \$)

	Planned Expenditures					Total
Project	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	
Unforeseen Capital Projects	200	200	200	200	200	1,000
no inflation used	200	200	200	200	200	1,000

Expenditure breakdown: \$100,000 design, \$900,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Unforeseen Capital Projects Funds	
▪ Unforeseen Capital Projects	1,000
Total	1,000

OPERATING COST IMPACTS

It is not know if the completion of projects associated with the unforeseen capital projects program will increase or decrease operating costs.

USEFUL LIFE: Unknown

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APPENDIX A – PROJECT LIST BY PRIORITY

Priority	PROJECT NAME	Priority Score
1	Hampton WTP Improvements <i>pg. 46</i>	97
1	Chlorine Tank Replacement - ClorTec Room <i>pg. 44</i>	94
1	Well Rehabilitation Program (one per year) <i>pg. 26</i>	91
1	RRWTF Emergency Access Gate <i>pg. 60</i>	85
1	Well 1D Pump Conversion <i>pg. 28</i>	82
1	Media Replacement Filter Vessels <i>pg. 42</i>	82
1	Well 1D Profiling/Modifications <i>pg. 48</i>	82
1	Well 3 Pump Replacement/VFD <i>pg. 50</i>	82
1	Well 8 Pump Replacement/VFD <i>pg. 52</i>	82
1	RRWTF Modular Meeting Room & I.T. Center <i>pg. 64</i>	80
1	Fiber Optic Cable <i>pg. 66</i>	80
2	Service Line Replacements <i>pg. 10</i>	79
2	RRWTF Tanks & Vessels Recoating <i>pg. 40</i>	79
2	Business Center/CSDBldg. Water Main Looping <i>pg. 34</i>	76
2	Railroad Corridor Water Line <i>pg. 30</i>	74
2	Lark St. Water Main <i>pg. 24</i>	73
2	Emergency Generator Administration Building <i>pg. 72</i>	72
3	Security Infrastructure <i>pg. 58</i>	69
3	Cadura Circle Water Main Looping <i>pg. 36</i>	64
3	Mormon Church Water Main Looping <i>pg. 38</i>	64
3	Backyard Water Mains/Services Replacement <i>pg. 32</i>	63
3	Kent St. Water Main <i>pg. 12</i>	62
3	Truman St./Adams St. Water Main <i>pg. 14</i>	62
3	School/Locust/Summit Alley Water Main <i>pg. 16</i>	62
3	Elk Grove Blvd Grove St. Alley Water Main <i>pg. 18</i>	62
3	Locust St.-Elk Grove Blvd Alley/Derr St. Water Main <i>pg. 20</i>	62
3	Truck Replacements <i>pg. 56</i>	60
4	Elk Grove Blvd Water Main <i>pg. 22</i>	56
4	Link Sample Pressure Stations to SCADA <i>pg. 54</i>	56
4	HVWTP Roof Replacement <i>pg. 70</i>	53
4	Well 1D Gate Improvement <i>pg. 68</i>	52
	District Administration Bldg. Improvements <i>pg. 62</i>	0

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APPENDIX B – CIP PRIORITY RANKING CRITERIA SCORE SHEETS

▪ **FY 2017-2021 WATER SUPPLY / TREATMENT IMPROVEMENT PROJECTS**

- Service Line Replacements
- Kent St. Water Main
- Truman St./Adams St. Water Main
- School/Locust/Summit Alley Water Main
- Elk Grove Blvd/Grove St. Alley Water Main
- Locust St.-Elk Grove Blvd Alley/Derr St. Water Main
- Elk Grove Blvd. Water Main
- Lark St. Water Main
- Well Rehabilitation Program (one per year)
- Well 1D Pump Conversion
- Railroad Corridor Water Line
- Backyard Water Mains/Services Replacement
- Business Center/CSD Bldg. Water Main Looping
- Cadura Circle Water Main Looping
- Mormon Church Water Main Looping
- RRWTF Tanks & Vessels Recoating
- Media Replacement Filter Vessels
- Chlorine Tank Replacement - ClorTec Room
- Hampton WTP Improvements
- Well 1D Profiling/Modifications
- Well 3 Pump Replacement/VFD
- Well 8 Pump Replacement/VFD
- Link Sample Pressure Stations to SCADA

▪ **FY 2017-2021 BUILDING & SITE IMPROVEMENT/VEHICLES PROJECTS**

- Truck Replacements
- Security Infrastructure
- RRWTF Emergency Access Gate
- District Administration Bldg. Improvements
- RRWTF Modular Meeting Room & I.T. Center
- Fiber Optic Cable
- Well 1D Gate Improvement
- HWWTP Roof Replacement
- Emergency Generator Administration Building

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 79
RAW SCORE = 64

Service Line Replacements

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = H		58.50
	A	<input type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		0.00
	<input type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY PROJECTS Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Service Line Replacements*

Impact = ; Probability = 75.00 <-- Totals from

Water Supply (E 2)

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup *due to restricted flow to customers and old infrastructure*

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100% *← likelihood is high*

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers.

Medium (M) – Provides benefits for 10,000 to 30,000 customers.

Low (L) – Provides benefits for less than 10,000 customers.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years.

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE
(75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 62

Kent St. Water Main

RAW SCORE = 49

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		41.25
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
	C	<input checked="" type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))	
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		2.50
	<input type="checkbox"/> Promotes Emergency Recovery		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		5.63
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
	<input checked="" type="checkbox"/> Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY PROJECTS Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Kent St. Water Main*

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 ← Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																				
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score)</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td colspan="3" style="text-align: center;">Probability</td> </tr> <tr> <td></td> <td style="text-align: center;">High</td> <td style="text-align: center;">Med.</td> <td style="text-align: center;">Low</td> </tr> <tr> <td style="text-align: center;">High</td> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <td style="text-align: center;">Med.</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <td style="text-align: center;">Low</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <u>Medium</u> – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <i>remains are undersized for fire protection</i> <u>Low</u> – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> – Likely to almost certain 65% – 100% <u>Medium</u> – Possible 35% – 65% → <u>Low</u> – Unlikely or rare 0% – 35%</p>		Probability				High	Med.	Low	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
		Probability																			
		High	Med.	Low																	
	High	H+ 55	H- 42	M+ 30																	
Med.	H- 42	M+ 30	M- 17																		
Low	M+ 30	M- 17	L 5.5																		
<p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>																					
<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> – Provides benefits for more than 30,000 customers. <u>Medium (M)</u> – Provides benefits for 10,000 to 30,000 customers. ← <i>Affects Service Area 1 areas</i> <u>Low (L)</u> – Provides benefits for less than 10,000 customers.</p>																					
<p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																					
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> – Project is needed to meet current demands or regulations within the next three (3) years. <u>Short-Term Need (S)</u> – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. → <u>Long-Term Need (L)</u> – Project is needed to meet demands beyond the next five (5) years.</p>																					
<p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																					

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 62

Truman St./Adams St. Water Main

RAW SCORE = 49

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		41.25
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input checked="" type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		2.50
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		5.63
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input checked="" type="checkbox"/>	Promotes water use efficiency	<input checked="" type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY PROJECTS Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Truman St./Adams St. Water Main*

	Water Supply (E 2)	Impact =	Probability =	75.00	← Totals from																		
<p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p>																							
<p>Probability</p> <table style="margin: auto;"> <tr> <td></td> <td style="text-align: center;">High</td> <td style="text-align: center;">Med.</td> <td style="text-align: center;">Low</td> <td></td> </tr> <tr> <td style="text-align: center;">High</td> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td rowspan="3" style="vertical-align: top; padding-left: 10px;"> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.</p> <p>Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <i>4" mains are undersized for fire protection</i></p> <p>Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: High – Likely to almost certain 65% – 100%</p> <p>Medium – Possible 35% – 65% ←</p> <p>Low – Unlikely or rare 0% – 35%</p> </td> </tr> <tr> <td style="text-align: center;">Med.</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <td style="text-align: center;">Low</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </table>							High	Med.	Low		High	H+ 55	H- 42	M+ 30	<p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.</p> <p>Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <i>4" mains are undersized for fire protection</i></p> <p>Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: High – Likely to almost certain 65% – 100%</p> <p>Medium – Possible 35% – 65% ←</p> <p>Low – Unlikely or rare 0% – 35%</p>	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
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Med.	H- 42	M+ 30	M- 17																				
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<p>WATER SUPPLY OBJECTIVE (75% of Raw Score)</p>	<p><i>This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</i></p>																						
<p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>																							
<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: High (H) – Provides benefits for more than 30,000 customers. Medium (M) – Provides benefits for 10,000 to 30,000 customers. ← <i>Affects Service Area 1 Areas</i> Low (L) – Provides benefits for less than 10,000 customers.</p>																							
<p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																							
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. ← Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.</p>																							
<p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																							

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 62

School/Locust/Summit Alley Water Main

RAW SCORE = 49

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		41.25
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input checked="" type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		2.50
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		5.63
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input checked="" type="checkbox"/> Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY PROJECTS Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *School/Locust/Summit Alley Water Main*

Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup *remains are undersized for fire protection*

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100%

Medium – Possible 35% – 65% →

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers.

Medium (M) – Provides benefits for 10,000 to 30,000 customers. ← *Affects Service Area 1 areas*

Low (L) – Provides benefits for less than 10,000 customers.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years.

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. →

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE
(75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 62

Elk Grove Blvd Grove St. Alley Water Main

RAW SCORE = 49

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		41.25
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input checked="" type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		2.50
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		5.63
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input checked="" type="checkbox"/> Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY PROJECTS Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Elk Grove Blvd Grove St. Alley Water Main*

Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup *it remains undersized for fire protection*

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100%

Medium – Possible 35% – 65% →

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers.

Medium (M) – Provides benefits for 10,000 to 30,000 customers. ← *Affects Service Area 1 Areas*

Low (L) – Provides benefits for less than 10,000 customers.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years.

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. →

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE (75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 62

Locust St.-Elk Grove Blvd Alley/Derr St. Water Main

RAW SCORE = 49

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		41.25
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input checked="" type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		2.50
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		5.63
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input checked="" type="checkbox"/> Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY PROJECTS Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Locust St. - Elk Grove Blvd Alley / Derr St. Main*

Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup *remains are undersized for fire protection*

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100%

Medium – Possible 35% – 65% →

Low – Unlikely or rare 0% – 35%

Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water, or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers.

Medium (M) – Provides benefits for 10,000 to 30,000 customers. → *Affects Service Area 1 areas*

Low (L) – Provides benefits for less than 10,000 customers.

Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years.

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. →

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE
(75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 56

Elk Grove Blvd. Water Main

RAW SCORE = 45

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = M		34.50
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> L Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input checked="" type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		5.63
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input checked="" type="checkbox"/> Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Elk Grove Blvd. Main*

	Water Supply (E 2)	Impact =	Probability =	75.00	<-- Totals from	
WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.	Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure					
	Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:					
	Impact	Probability	High	Med.	Low	
	High	H+ 55	H- 42	M+ 30		Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. Impact: High - Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards, but will be operating at a higher level of risk, potentially relying on redundancy or backup, or does not meet regulatory requirements. Medium - Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <i>meters in backyard are inaccessible due diff to access and fed by an old #1 main.</i> Low - Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system. Probability of impact occurring: High - Likely to almost certain 65% - 100% Medium - Possible 35% - 65% ← Low - Unlikely or rare 0% - 35%
Med.	H- 42	M+ 30	M- 17			
Low	M+ 30	M- 17	L 5.5			
	<input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.					
Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low". Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. Effect of Project Impact: High (H) - Provides benefits for more than 30,000 customers. Medium (M) - Provides benefits for 10,000 to 30,000 customers. Low (L) - Provides benefits for less than 10,000 customers. ← <i>customers on south side EG Blvd. between Kent & RR tracks.</i>						
	<input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.					
Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term". Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. Project Urgency: Immediate Need (I) - Project is needed to meet current demands or regulations within the next three (3) years. Short-Term Need (S) - Project is needed to meet demands or regulations within the next three to five (3-5) years. ← <i>Planned for 5 yrs. out.</i> Long-Term Need (L) - Project is needed to meet demands beyond the next five (5) years.						
	<input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.					

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 73
RAW SCORE = 58

Lark St. Water Main

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		50.25
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
	C	<input checked="" type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))	
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		2.50
	<input type="checkbox"/> Promotes Emergency Recovery		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		5.63
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
	<input checked="" type="checkbox"/> Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
	<input type="checkbox"/> Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here Lerk St. Water Main

PRIORITY SCORE =
RAW SCORE = 100

Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100%

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

during repairs, inspection showed sections of AC pipe are soft from water saturation of pipe wall.

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers.

Medium (M) – Provides benefits for 10,000 to 30,000 customers.

Low (L) – Provides benefits for less than 10,000 customers.

← Affects Service Area 1

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years.

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE (75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 91

RAW SCORE = 73

Well Rehabilitation Program (one per year)

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		68.25
	A	<input checked="" type="checkbox"/> H+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		2.50
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Well Rehab Program*

PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																														
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2"></td> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <td colspan="2"></td> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> <tr> <th rowspan="3" style="text-align: center; vertical-align: middle;">Impact</th> <th style="text-align: center;">High</th> <td style="text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H+</td> <td style="text-align: center;">H-</td> <td style="text-align: center;">M+</td> </tr> <tr> <td style="text-align: center;">55</td> <td style="text-align: center;">42</td> <td style="text-align: center;">30</td> </tr> </table> </td> <td style="text-align: center;">42</td> <td style="text-align: center;">30</td> </tr> <tr> <th style="text-align: center;">Med.</th> <td style="text-align: center;">42</td> <td style="text-align: center;">30</td> <td style="text-align: center;">17</td> </tr> <tr> <th style="text-align: center;">Low</th> <td style="text-align: center;">30</td> <td style="text-align: center;">17</td> <td style="text-align: center;">5.5</td> </tr> </table>			Probability					High	Med.	Low	Impact	High	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H+</td> <td style="text-align: center;">H-</td> <td style="text-align: center;">M+</td> </tr> <tr> <td style="text-align: center;">55</td> <td style="text-align: center;">42</td> <td style="text-align: center;">30</td> </tr> </table>	H+	H-	M+	55	42	30	42	30	Med.	42	30	17	Low	30	17	5.5	<p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <i>Well rehabs important to maintain production and water quality compliant w/ DPH req.</i></p> <p><u>Medium</u> – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup</p> <p><u>Low</u> – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> – Likely to almost certain 65% – 100% <i>Prod. & water quality will decline w/o rehabs.</i></p> <p><u>Medium</u> – Possible 35% – 65%</p> <p><u>Low</u> – Unlikely or rare 0% – 35%</p>
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<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> – Provides benefits for more than 30,000 customers.</p> <p><u>Medium (M)</u> – Provides benefits for 10,000 to 30,000 customers. <i>Affects Service Area 1 customers.</i></p> <p><u>Low (L)</u> – Provides benefits for less than 10,000 customers.</p>																															
<p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																															
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> – Project is needed to meet current demands or regulations within the next three (3) years. <i>←</i></p> <p><u>Short-Term Need (S)</u> – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.</p> <p><u>Long-Term Need (L)</u> – Project is needed to meet demands beyond the next five (5) years.</p>																															
<p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																															

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 82

RAW SCORE = 65

Well 1D Pump Conversion

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = M		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Well ID Pump Conversion*

	Water Supply (E 2)	Impact = ; Probability =	75.00	<-- Totals from																																									
WATER SUPPLY OBJECTIVE (75% of Raw Score) <i>This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</i>	<p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																																												
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	<table border="1" style="margin: auto;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <th rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Impact</th> <th style="text-align: center;">High</th> <td style="text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H+</td> <td style="text-align: center;">H-</td> <td style="text-align: center;">M+</td> </tr> <tr> <td style="text-align: center;">55</td> <td style="text-align: center;">42</td> <td style="text-align: center;">30</td> </tr> </table> </td> <td></td> <td></td> </tr> <tr> <th style="text-align: center;">Med.</th> <td style="text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H-</td> <td style="text-align: center;">M+</td> <td style="text-align: center;">M-</td> </tr> <tr> <td style="text-align: center;">42</td> <td style="text-align: center;">30</td> <td style="text-align: center;">17</td> </tr> </table> </td> <td></td> <td></td> </tr> <tr> <th style="text-align: center;">Low</th> <td style="text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">M+</td> <td style="text-align: center;">M-</td> <td style="text-align: center;">L</td> </tr> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">17</td> <td style="text-align: center;">5.5</td> </tr> </table> </td> <td></td> <td></td> </tr> </tbody> </table>			Probability					High	Med.	Low	Impact	High	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H+</td> <td style="text-align: center;">H-</td> <td style="text-align: center;">M+</td> </tr> <tr> <td style="text-align: center;">55</td> <td style="text-align: center;">42</td> <td style="text-align: center;">30</td> </tr> </table>	H+	H-	M+	55	42	30			Med.	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H-</td> <td style="text-align: center;">M+</td> <td style="text-align: center;">M-</td> </tr> <tr> <td style="text-align: center;">42</td> <td style="text-align: center;">30</td> <td style="text-align: center;">17</td> </tr> </table>	H-	M+	M-	42	30	17			Low	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">M+</td> <td style="text-align: center;">M-</td> <td style="text-align: center;">L</td> </tr> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">17</td> <td style="text-align: center;">5.5</td> </tr> </table>	M+	M-	L	30	17	5.5			<p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <i>CDPH no longer wants oil-based tube systems due to bacteria problems</i></p> <p>Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup</p> <p>Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: High – Likely to almost certain 65% – 100% <i>prime</i> Medium – Possible 35% – 65% <i>← Well ID pump is last on in line up and therefore is not often used.</i> Low – Unlikely or rare 0% – 35%</p>		
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<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. <i>←</i> Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																																													

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 74
RAW SCORE = 59

Railroad Corridor Water Line

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = H		50.25
	A	<input type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input checked="" type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		3.75
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/> Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Railroad Corridor Water Line*

PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 ← Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																								
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <td rowspan="2" style="text-align: center; vertical-align: middle;">Impact</td> <td style="text-align: center;">High</td> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <td style="text-align: center;">Med.</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <td></td> <td style="text-align: center;">Low</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </tbody> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <u>Medium</u> – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <i>This proj. installs a major T-main between RRUTP & Hampton allowing for much greater redundancy in EGWD distr. system</i> <u>Low</u> – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> – Likely to almost certain 65% – 100% <u>Medium</u> – Possible 35% – 65% <u>Low</u> – Unlikely or rare 0% – 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17		Low	M+ 30	M- 17	L 5.5
			Probability																						
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<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> – Provides benefits for more than 30,000 customers. <u>Medium (M)</u> – Provides benefits for 10,000 to 30,000 customers. ← <i>Impacts Service Area 1 primarily</i> <u>Low (L)</u> – Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																									
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> – Project is needed to meet current demands or regulations within the next three (3) years. <u>Short-Term Need (S)</u> – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. <u>Long-Term Need (L)</u> – Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																									

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 63

RAW SCORE = 50

Backyard Water Mains/Services Replacement

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = M		41.25
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input checked="" type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		3.75
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input checked="" type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

PRIORITY SCORE =

Project Name Here Backyard Water Mains/Service Replacements RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 ← Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score)</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <td rowspan="3" style="text-align: center; vertical-align: middle;">Impact</td> <td style="text-align: center;">High</td> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <td style="text-align: center;">Med.</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center; border: 2px solid red;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <td style="text-align: center;">Low</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </tbody> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup. ← <i>Backyard mains undersized and difficult to access to repairs leaks. Current configuration has district-owned infrastructure related to frost-yer meters on private property</i> Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: High – Likely to almost certain 65% – 100% Medium – Possible 35% – 65% ← Low – Unlikely or rare 0% – 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
			Probability																					
			High	Med.	Low																			
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Med.		H- 42	M+ 30	M- 17																				
Low		M+ 30	M- 17	L 5.5																				
<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: High (H) – Provides benefits for more than 30,000 customers. Medium (M) – Provides benefits for 10,000 to 30,000 customers. ← <i>Impacts areas of Service Area 1</i> Low (L) – Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																								
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. ← Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																								

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 76

Business Center/CSD Bldg. Water Main Looping

RAW SCORE = 61

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = M		51.75
	A	<input type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> L Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
	C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))	
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		7.50
	<input checked="" type="checkbox"/>	Promotes Emergency Recovery	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
	<input type="checkbox"/>	Promotes water use efficiency	
	<input type="checkbox"/>	Promotes groundwater basin management	
	<input checked="" type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features	
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY PROJECTS Priority Ranking Criteria

PRIORITY SCORE =

Project Name Here Business Center / CSD Bldg. Water Main Looping RAW SCORE = 100

Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100%

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers.

Medium (M) – Provides benefits for 10,000 to 30,000 customers.

Low (L) – Provides benefits for less than 10,000 customers.

Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years.

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE
(75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 64
RAW SCORE = 52

Cadura Circle Water Main Looping

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = M		42.75
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> L Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		3.75
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY PROJECTS Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Cadara Circle Water Main Looping*

75.00 <-- Totals from

Water Supply (E 2)

Impact = ; Probability =

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100%

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers.

Medium (M) – Provides benefits for 10,000 to 30,000 customers.

Low (L) – Provides benefits for less than 10,000 customers.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years.

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE

(75% of Raw Score)

This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 64
RAW SCORE = 52

Mormon Church Water Main Looping

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = M		42.75
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> L Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input checked="" type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		3.75
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/> Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY PROJECTS Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Mormon Church Water Main Looping*

75.00 <-- Totals from

Water Supply (E 2)

Impact = ; Probability =

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100%

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers.

Medium (M) – Provides benefits for 10,000 to 30,000 customers.

Low (L) – Provides benefits for less than 10,000 customers.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years.

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE
(75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 79
RAW SCORE = 63

RRWTF Tanks & Vessels Recoating

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = H		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		2.50
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *RRWTF Tanks + Vessels Recoating.*

PRIORITY SCORE =
RAW SCORE = 100

	Water Supply (E 2)	Impact =	Probability =	75.00	← Totals from						
<p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>											
<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p>											
<p>Probability</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;">High</td> <td style="text-align: center;">Med.</td> <td style="text-align: center;">Low</td> </tr> </table>							High	Med.	Low		
	High	Med.	Low								
Impact	High	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H+</td> <td style="text-align: center;">H-</td> <td style="text-align: center;">M+</td> </tr> <tr> <td style="text-align: center;">55</td> <td style="text-align: center;">42</td> <td style="text-align: center;">30</td> </tr> </table>	H+	H-	M+	55	42	30			
	H+	H-	M+								
	55	42	30								
Med.	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H-</td> <td style="text-align: center;">M+</td> <td style="text-align: center;">M-</td> </tr> <tr> <td style="text-align: center;">42</td> <td style="text-align: center;">30</td> <td style="text-align: center;">17</td> </tr> </table>	H-	M+	M-	42	30	17				
H-	M+	M-									
42	30	17									
Low	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">M+</td> <td style="text-align: center;">M-</td> <td style="text-align: center;">L</td> </tr> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">17</td> <td style="text-align: center;">5.5</td> </tr> </table>	M+	M-	L	30	17	5.5				
M+	M-	L									
30	17	5.5									

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. **Impact:** High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup. *← Tank recoating maint. is a necessity to maintain critical infrastructure.* Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system. **Probability of impact occurring:** High – Likely to almost certain 65% – 100% *← maint. is req'd.* Medium – Possible 35% – 65% Low – Unlikely or rare 0% – 35%					
H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.					
Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low". **Definition:** Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. **Effect of Project Impact:** High (H) – Provides benefits for more than 30,000 customers. Medium (M) – Provides benefits for 10,000 to 30,000 customers. *← Impacts Service Area 1 customers* Low (L) – Provides benefits for less than 10,000 customers.					
H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.					
Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term". **Definition:** Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. **Project Urgency:** Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. *for 2 MG storage tanks* Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.					
I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.					

WATER SUPPLY OBJECTIVE
(75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria

PRIORITY SCORE = 82

RAW SCORE = 65

Media Replacement Filter Vessels

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = M		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input checked="" type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/> Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Media Replacement Filters*

PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <th rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Impact</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">High</th> <td style="text-align: center;">H+ 55</td> <td style="text-align: center; border: 2px solid red;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Med.</th> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Low</th> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </tbody> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: High - Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <i>- water treatment media has a typ. life cycle of 10 yrs. Orig. Plt. media nearing end of 10 yrs.</i> Medium - Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup Low - Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: High - Likely to almost certain 65% - 100% Medium - Possible 35% - 65% <i>← med. probability old media will not adequately treat water in near future</i> Low - Unlikely or rare 0% - 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
			Probability																					
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Low		M+ 30	M- 17	L 5.5																				
<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: High (H) - Provides benefits for more than 30,000 customers. Medium (M) - Provides benefits for 10,000 to 30,000 customers. <i>← Affects Service Area 1 customers.</i> Low (L) - Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																								
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: Immediate Need (I) - Project is needed to meet current demands or regulations within the next three (3) years. <i>←</i> Short-Term Need (S) - Project is needed to meet demands or regulations within the next three to five (3 - 5) years. Long-Term Need (L) - Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																								

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 94
RAW SCORE = 75

Chlorine Tank Replacement - ClorTec Room

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		68.25
	A	<input checked="" type="checkbox"/> H+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input checked="" type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/> Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Chlorine Tank Replacement - Chlor-Tee Room* PRIORITY SCORE = RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																																	
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td colspan="2"></td> <th colspan="3">Probability</th> </tr> <tr> <td colspan="2"></td> <th>High</th> <th>Med.</th> <th>Low</th> </tr> <tr> <th rowspan="3">Impact</th> <th>High</th> <td style="text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> </table> </td> <td></td> <td></td> </tr> <tr> <th>Med.</th> <td style="text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> </table> </td> <td></td> <td></td> </tr> <tr> <th>Low</th> <td style="text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </table> </td> <td></td> <td></td> </tr> </table>			Probability					High	Med.	Low	Impact	High	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> </table>	H+ 55	H- 42	M+ 30			Med.	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> </table>	H- 42	M+ 30	M- 17			Low	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </table>	M+ 30	M- 17	L 5.5			<p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> - Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <i>- Chlorine tank shell is failing. This is critical infrastructure to District's mtg of drinking water.</i> <u>Medium</u> - Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <u>Low</u> - Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> - Likely to almost certain 65% - 100% <i>← Failure in time is likely.</i> <u>Medium</u> - Possible 35% - 65% <u>Low</u> - Unlikely or rare 0% - 35%</p>
			Probability																															
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<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> - Provides benefits for more than 30,000 customers. <u>Medium (M)</u> - Provides benefits for 10,000 to 30,000 customers. <i>← Impacts Service Area 1 customers.</i> <u>Low (L)</u> - Provides benefits for less than 10,000 customers.</p>																																		
<p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																																		
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> - Project is needed to meet current demands or regulations within the next three (3) years. <i>←</i> <u>Short-Term Need (S)</u> - Project is needed to meet demands or regulations within the next three to five (3 - 5) years. <u>Long-Term Need (L)</u> - Project is needed to meet demands beyond the next five (5) years.</p>																																		
<p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																																		

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 97
RAW SCORE = 78

Hampton WTP Improvements

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		68.25
	A	<input checked="" type="checkbox"/> H+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		7.50
	<input checked="" type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Hampton WTP Improvements*

75.00 <-- Totals from

Water Supply (E 2)

Impact = ; Probability =

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	<input checked="" type="checkbox"/> H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. *Important project to provide redundancy to District's drinking water system.*

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100%

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

Source capacity issues without backup source if RRWTF goes down.

Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers.

Medium (M) – Provides benefits for 10,000 to 30,000 customers.

Low (L) – Provides benefits for less than 10,000 customers.

Impacts Service Area customers.

Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years.

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE (75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 82

RAW SCORE = 65

Well 1D Profiling/Modifications

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Well ID Profiling/Modification*

Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup *District may be able to improve water quality of Well ID with this proj.*

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100% ←

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers.

Medium (M) – Provides benefits for 10,000 to 30,000 customers. ← *Impacts Service Area 1 customers.*

Low (L) – Provides benefits for less than 10,000 customers.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. ←

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 82

RAW SCORE = 65

Well 3 Pump Replacement/VFD

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = M		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community		<input checked="" type="checkbox"/> With other agencies	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/> Promotes water use efficiency		<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Well 3 Pump Replacement / VFD*

75.00 <-- Totals from

Water Supply (E 2)

Impact = ; Probability =

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup *This proj. provides redundancy to District's Water System.*

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100% ←

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers.

Medium (M) – Provides benefits for 10,000 to 30,000 customers. ← *Service Area 1*

Low (L) – Provides benefits for less than 10,000 customers.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. ←

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE
(75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 82

RAW SCORE = 65

Well 8 Pump Replacement/VFD

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = M		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Well 8 Pump Replacement / VFD*

75.00 <-- Totals from

Water Supply (E 2) Impact = ; Probability = 75.00

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets
Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:
High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.
Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup *This proj. provides redundancy to District's water system.*
Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:
High – Likely to almost certain 65% – 100% ←
Medium – Possible 35% – 65%
Low – Unlikely or rare 0% – 35%

Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets
Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:
Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:
High (H) – Provides benefits for more than 30,000 customers.
Medium (M) – Provides benefits for 10,000 to 30,000 customers. ← Service Area 1
Low (L) – Provides benefits for less than 10,000 customers.

Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency
Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:
Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:
Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. ←
Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.
Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE
(75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2017-2021 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 56

RAW SCORE = 45

Link Sample Pressure Stations to SCADA

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		37.88
	A	<input type="checkbox"/> L Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> H Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Link Sample Pressure Stations to SCADA*

Water Supply (E 2)

Impact = ; Probability = 75.00

<-- Totals for

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100%

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers. ← *Service Areas 1 & 2*

Medium (M) – Provides benefits for 10,000 to 30,000 customers.

Low (L) – Provides benefits for less than 10,000 customers.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. ←

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

FY 2017-2021 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria

PRIORITY SCORE = 60

RAW SCORE = 48

Truck Replacements

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = M ; Probability = H		46.20
	A	<input checked="" type="checkbox"/> H- Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer or public safety standards.	
	B	<input type="checkbox"/> M Project enhances building infrastructure to address treatment of staff or public issues.	
	C	<input type="checkbox"/> H Project positions the District to meet projected future space needs.	
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply		2.00
		<input checked="" type="checkbox"/> With the Community <input type="checkbox"/> With other agencies	
	Good Neighbor (E 4) - Check all that apply		
	<input type="checkbox"/> Graffiti removal or Prevention Features		
	<input type="checkbox"/> Trash removal features (vortex weirs)		
	<input type="checkbox"/> Improves esthetics of project location		
GREENER OBJECTIVE (15%)	Natural Resources Sustainability (E 3.2) - Check all that apply		0.00
	<input type="checkbox"/> Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized	
	<input type="checkbox"/> Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management	
	<input type="checkbox"/> Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste	
	<input type="checkbox"/> Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production	
	<input type="checkbox"/> Use of Recycled or Alternative Building Materials		
	Trails & Open Space (E3.3) - Check all that apply		
	<input type="checkbox"/> Trail friendly features	<input type="checkbox"/> Open Space Protection / Preservation	
	<input type="checkbox"/> Provides/Improves Bicycle Commute Route		
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
	<input type="checkbox"/> 26% to 50% of project costs available from other agencies		
	<input type="checkbox"/> Up to 25% of project costs available from other agencies		

BUILDINGS & GROUNDS PROJECTS Priority Ranking Criteria

Project Name Here *Truck Replacements*

PRIORITY SCORE =
RAW SCORE = 100

Buildings and Grounds (EL 3.4) Impact = ; Probability = 60.0

Buildings and Grounds capital projects are prioritized according to their ability to sustain the District's support functions.

Criterion A: Protect Existing Assets

Highest possible value is 55 points, with 55 points for "high", 33 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 44	M+ 33
	Med.	H- 44	M+ 33	M- 19.3
	Low	M+ 33	M- 19.3	L 5.5

Definition: Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards

Impact:

High – Without the project, District staff likely can not perform their normal daily work or an unsafe condition is present with the public.

Medium – Without the project, District staff likely can only perform their normal daily work in a restricted manner for a limited duration and with work-arounds. *Broken down equipment will result in this.*

Low – Without the project, District staff can continue to perform their daily work. However, the building is at risk from a seismic event or continues to deteriorate to a critical condition where staff cannot perform their daily work.

Probability of impact occurring:

High – Likely to almost certain 65% – 100% *Likelihood due to age, mileage and general condition of equipment.*

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Enhancement of Existing Assets

Highest possible points are 30 points, with 30 points for "high", 18 points for "medium" and 3 points for "low".

Definition:

Project enhances building infrastructure to address treatment of staff issues.

Effect of Project Impact:

High (H) – Provides benefits for all employees or the public.

Medium (M) – Provides benefits for between 10 to all employees. *Impacts Field Crew*

Low (L) – Provides benefits for below 10 employees.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Addressing Future Space Needs

Highest possible points are 15 points, with 15 points for "high", 9 points for "medium" and 1.5 points for "low".

Definition:

Project positions the District to meet projected future space needs.

Effect of Project Impact:

High (H) – Meet projected demand 10 years in the future. *→*

Medium (M) – Meet projected demand 10 to 20 years in the future.

Low (L) – Meet projected demand beyond 20 years in the future.

H Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

BUILDINGS & GROUNDS OBJECTIVE
Clean (60% of Raw Score)

**FY 2017-2021 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 69

RAW SCORE = 55

Security Infrastructure

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = M		48.00
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> H Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
	C	<input checked="" type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))	
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input checked="" type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/> Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
	<input type="checkbox"/> 26% to 50% of project costs available from other agencies		
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

* For this project, the Water Supply / Treatment Project priority ranking criteria was used because security for the well sites is driven by water safety.

WATER SUPPLY / TREATMENT PROJECTS

Priority Ranking Criteria

Project Name Here *Security Infrastructure*

PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 <- Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																					
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score)</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" rowspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <td rowspan="3" style="vertical-align: middle; text-align: center;">Impact</td> <td style="text-align: center;">High</td> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <td style="text-align: center;">Med.</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center; border: 2px solid red;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <td style="text-align: center;">Low</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </tbody> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <u>Medium</u> – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <u>Low</u> – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> – Likely to almost certain 65% – 100% <u>Medium</u> – Possible 35% – 65% <u>Low</u> – Unlikely or rare 0% – 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability			High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
				Probability																		
			High	Med.	Low																	
	Impact	High	H+ 55	H- 42	M+ 30																	
Med.		H- 42	M+ 30	M- 17																		
Low		M+ 30	M- 17	L 5.5																		
<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> – Provides benefits for more than 30,000 customers. <u>Medium (M)</u> – Provides benefits for 10,000 to 30,000 customers. <u>Low (L)</u> – Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																						
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> – Project is needed to meet current demands or regulations within the next three (3) years. <u>Short-Term Need (S)</u> – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. <u>Long-Term Need (L)</u> – Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																						

Potential of security threats at shallow wells where no security measures other than locked fenced-in area

Potentially impacts all customers

**FY 2017-2021 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 85

RRWTF Emergency Access Gate

RAW SCORE = 68

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = M		58.50
	A	<input type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		7.50
	<input checked="" type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

* For this project, the Water Supply / Treatment Project priority ranking criteria was used because security for the well sites is driven by water safety.

BUILDINGS & SITE / VEHICLES PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *RRWTF Emergency Access Gate*

BUILDINGS & GROUNDS OBJECTIVE Clean (60% of Raw Score)	Buildings and Grounds (EL 3.4)	Impact =		Probability =	60.00
	Buildings and Grounds capital projects are prioritized according to their ability to sustain the District's support functions.				
	Criterion A: Protect Existing Assets				
	Highest possible value is 55 points, with 55 points for "high", 33 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:				
		Probability			
		High	Med.	Low	
High	High	H+ 55	H- 44	M+ 33	<p>Definition: Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.</p> <p>Impact: <u>High</u> - Without the project, District staff likely can not perform their normal daily work <i>Emergency based project</i> <u>Medium</u> - Without the project, District staff likely can only perform their normal daily work in a restricted manner for a limited duration and with work-arounds. <u>Low</u> - Without the project, District staff can continue to perform their daily work. However, the building is at risk from a seismic event or continues to deteriorate to a critical condition where staff cannot perform their daily work.</p> <p>Probability of impact occurring: <u>High</u> - Likely to almost certain 65% - 100% <u>Medium</u> - Possible 35% - 65% ← <u>Low</u> - Unlikely or rare 0% - 35%</p>
Med.	Med.	H- 44	M+ 33	M- 19.3	
Low	Low	M+ 33	M- 19.3	L 5.5	
	<input type="text" value="H+"/>	Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.			
Criterion B: Enhancement of Existing Assets					
Highest possible points are 30 points, with 30 points for "high", 18 points for "medium" and 3 points for "low".					
Definition: Project enhances building infrastructure to address treatment of staff issues.					
Effect of Project Impact:					
<u>High</u> (H) - Provides benefits for all employees or the public. ←					
<u>Medium</u> (M) - Provides benefits for between 10 to all employees.					
<u>Low</u> (L) - Provides benefits for below 10 employees.					
	<input type="text" value="H"/>	Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.			
Criterion C: Addressing Future Space Needs					
Highest possible points are 15 points, with 15 points for "high", 9 points for "medium" and 1.5 points for "low".					
Definition: Project positions the District to meet projected future space needs.					
Effect of Project Impact:					
<u>High</u> (H) - Meet projected demand 10 years in the future.					
<u>Medium</u> (M) - Meet projected demand 10 to 20 years in the future.					
<u>Low</u> (L) - Meet projected demand beyond 20 years in the future.					
	<input type="text" value="H"/>	Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.			

FY 2017-2021 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria

PRIORITY SCORE = 0

RAW SCORE = 0

District Administration Bldg. Improvements

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = H ; Probability = M		0.00
	A	<input type="checkbox"/> Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer or public safety standards.	
	B	<input type="checkbox"/> Project enhances building infrastructure to address treatment of staff or public issues.	
	C	<input type="checkbox"/> Project positions the District to meet projected future space needs.	
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply		0.00
	<input type="checkbox"/>	With the Community	<input type="checkbox"/> With other agencies
	Good Neighbor (E 4) - Check all that apply		
	<input type="checkbox"/>	Graffiti removal or Prevention Features	
	<input type="checkbox"/>	Trash removal features (vortex weirs)	
	<input type="checkbox"/>	Improves esthetics of project location	
GREENER OBJECTIVE (15%)	Natural Resources Sustainability (E 3.2) - Check all that apply		0.00
	<input type="checkbox"/>	Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized
	<input type="checkbox"/>	Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management
	<input type="checkbox"/>	Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste
	<input type="checkbox"/>	Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production
			<input type="checkbox"/> Use of Recycled or Alternative Building Materials
	Trails & Open Space (E3.3) - Check all that apply		
	<input type="checkbox"/>	Trail friendly features	<input type="checkbox"/> Open Space Protection / Preservation
	<input type="checkbox"/>	Provides/Improves Bicycle Commute Route	
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
	<input type="checkbox"/>	26% to 50% of project costs available from other agencies	
	<input type="checkbox"/>	Up to 25% of project costs available from other agencies	

FY 2017-2021 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria

PRIORITY SCORE = 80

RAW SCORE = 64

RRWTF Modular Meeting Room & I.T. Center

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = M ; Probability = M		60.00
	A	<input checked="" type="checkbox"/> H+ Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer or public safety standards.	
	B	<input type="checkbox"/> H Project enhances building infrastructure to address treatment of staff or public issues.	
C	<input type="checkbox"/> H Project positions the District to meet projected future space needs.		
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply		4.00
	<input checked="" type="checkbox"/> With the Community	<input checked="" type="checkbox"/> With other agencies	
CLEANER OBJECTIVE (10%)	Good Neighbor (E 4) - Check all that apply		
	<input type="checkbox"/> Graffiti removal or Prevention Features	<input type="checkbox"/> Trash removal features (vortex weirs)	
CLEANER OBJECTIVE (10%)	<input type="checkbox"/> Improves esthetics of project location		
	Natural Resources Sustainability (E 3.2) - Check all that apply		0.00
GREENER OBJECTIVE (15%)	<input type="checkbox"/> Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized	
	<input type="checkbox"/> Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management	
GREENER OBJECTIVE (15%)	<input type="checkbox"/> Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste	
	<input type="checkbox"/> Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production	
GREENER OBJECTIVE (15%)	Trails & Open Space (E3.3) - Check all that apply		
	<input type="checkbox"/> Trail friendly features	<input type="checkbox"/> Open Space Protection / Preservation	
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000	
LEANER OBJECTIVE (15%)	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
LEANER OBJECTIVE (15%)	<input type="checkbox"/> Over 50% of project costs available from other agencies		
	<input type="checkbox"/> 26% to 50% of project costs available from other agencies		
LEANER OBJECTIVE (15%)	<input type="checkbox"/> Up to 25% of project costs available from other agencies		

BUILDINGS & GROUNDS PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =

Project Name Here *RRWTF Modular Meeting Room + I.T. Center*

RAW SCORE = 100

Buildings and Grounds (EL 3.4)

Impact = ; Probability =

60.00

Buildings and Grounds capital projects are prioritized according to their ability to sustain the District's support functions.

Criterion A: Protect Existing Assets

Highest possible value is 55 points, with 55 points for "high", 33 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	<div style="border: 1px solid black; border-radius: 50%; padding: 2px;">H+</div> 55	H- 44	M+ 33
	Med.	H- 44	M+ 33	M- 19.3
	Low	M+ 33	M- 19.3	L 5.5

Definition: Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.

Impact:

High - Without the project, District staff likely can not perform their normal daily work or an unsafe condition is present with the public. *← The I.T. Dept currently has the District's servers in multiple locations making routine maintenance unnecessarily difficult centralizing to I.T. operation will make the*
Medium - Without the project, District staff likely can only perform their normal daily work in a restricted manner for a limited duration and with work-arounds. *operation more efficient. Additionally, field crews currently use the District's Adams Bldg. conf. room for training sessions which is undersized for this*
Low - Without the project, District staff can continue to perform their daily work. However, the building is at risk from a seismic event or continues to deteriorate to a critical condition where staff cannot perform their daily work.

Probability of impact occurring:

High - Likely to almost certain 65% - 100%
Medium - Possible 35% - 65%
Low - Unlikely or rare 0% - 35%

purpose. There is not enough parking and some vehicles are parked across the street in a vacant lot making a situation where some staff are required to cross Elk from Blvd. which is busy and w/o a crosswalk near this location to reach their destination.

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Enhancement of Existing Assets

Highest possible points are 30 points, with 30 points for "high", 18 points for "medium" and 3 points for "low".

Definition:

Project enhances building infrastructure to address treatment of staff issues.

Effect of Project Impact:

High (H) - Provides benefits for all employees or the public. *←*
Medium (M) - Provides benefits for between 10 to all employees.
Low (L) - Provides benefits for below 10 employees.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Addressing Future Space Needs

Highest possible points are 15 points, with 15 points for "high", 9 points for "medium" and 1.5 points for "low".

Definition:

Project positions the District to meet projected future space needs.

Effect of Project Impact:

High (H) - Meet projected demand 10 years in the future. *←*
Medium (M) - Meet projected demand 10 to 20 years in the future.
Low (L) - Meet projected demand beyond 20 years in the future.

H Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

BUILDINGS & GROUNDS OBJECTIVE
Clean (60% of Raw Score)

**FY 2017-2021 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 80

Fiber Optic Cable

RAW SCORE = 64

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = M ; Probability = H		60.00
	A	<input checked="" type="checkbox"/> H+ Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer or public safety standards.	
	B	<input checked="" type="checkbox"/> H Project enhances building infrastructure to address treatment of staff or public issues.	
	C	<input checked="" type="checkbox"/> H Project positions the District to meet projected future space needs.	
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply		4.00
	<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies
	Good Neighbor (E 4) - Check all that apply		
	<input type="checkbox"/>	Graffiti removal or Prevention Features	
	<input type="checkbox"/>	Trash removal features (vortex weirs)	
	<input type="checkbox"/>	Improves esthetics of project location	
GREENER OBJECTIVE (15%)	Natural Resources Sustainability (E 3.2) - Check all that apply		0.00
	<input type="checkbox"/>	Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized
	<input type="checkbox"/>	Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management
	<input type="checkbox"/>	Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste
	<input type="checkbox"/>	Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production
			<input type="checkbox"/> Use of Recycled or Alternative Building Materials
	Trails & Open Space (E3.3) - Check all that apply		
	<input type="checkbox"/>	Trail friendly features	<input type="checkbox"/> Open Space Protection / Preservation
	<input type="checkbox"/>	Provides/Improves Bicycle Commute Route	
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
	<input type="checkbox"/>	26% to 50% of project costs available from other agencies	
	<input type="checkbox"/>	Up to 25% of project costs available from other agencies	

FY 2017-2021 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria

PRIORITY SCORE = 52

Well 1D Gate Improvement

RAW SCORE = 41

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = L ; Probability = L		35.40
	A	<input checked="" type="checkbox"/> H- Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer or public safety standards.	
	B	<input checked="" type="checkbox"/> H- Project enhances building infrastructure to address treatment of staff or public issues.	
	C	<input checked="" type="checkbox"/> H Project positions the District to meet projected future space needs.	
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply		6.00
	<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies
	Good Neighbor (E 4) - Check all that apply		
	<input type="checkbox"/>	Graffiti removal or Prevention Features	
	<input type="checkbox"/>	Trash removal features (vortex weirs)	
	<input checked="" type="checkbox"/>	Improves esthetics of project location	
GREENER OBJECTIVE (15%)	Natural Resources Sustainability (E 3.2) - Check all that apply		0.00
	<input type="checkbox"/>	Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized
	<input type="checkbox"/>	Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management
	<input type="checkbox"/>	Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste
	<input type="checkbox"/>	Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production
			<input type="checkbox"/> Use of Recycled or Alternative Building Materials
	Trails & Open Space (E3.3) - Check all that apply		
	<input type="checkbox"/>	Trail friendly features	<input type="checkbox"/> Open Space Protection / Preservation
	<input type="checkbox"/>	Provides/Improves Bicycle Commute Route	
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
	<input type="checkbox"/>	26% to 50% of project costs available from other agencies	
	<input type="checkbox"/>	Up to 25% of project costs available from other agencies	

BUILDINGS & SITE / VEHICLES PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Well ID Gate Improvement*

BUILDINGS & GROUNDS OBJECTIVE Clean (60% of Raw Score)	Buildings and Grounds (EL 3.4)	Impact =		Probability =	60.00
	Buildings and Grounds capital projects are prioritized according to their ability to sustain the District's support functions.				
	Criterion A: Protect Existing Assets				
	Highest possible value is 55 points, with 55 points for "high", 33 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:				
		Probability			
		High	Med.	Low	
Impact	High	H+ 55	H- 44	M+ 33	<p>Definition: Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.</p> <p>Impact: <u>High</u> – Without the project, District staff likely can not perform their normal daily work <u>Medium</u> – Without the project, District staff likely can only perform their normal daily work in a restricted manner for a limited duration and with work-arounds. <i>Ex. gate broken making truck access difficult.</i> <u>Low</u> – Without the project, District staff can continue to perform their daily work. However, the building is at risk from a seismic event or continues to deteriorate to a critical condition where staff cannot perform their daily work.</p> <p>Probability of impact occurring: <u>High</u> – Likely to almost certain 65% – 100% ← <u>Medium</u> – Possible 35% – 65% <u>Low</u> – Unlikely or rare 0% – 35%</p>
	Med.	H- 44	M+ 33	M- 19.3	
	Low	M+ 33	M- 19.3	L 5.5	
	<input type="text" value="H+"/>	Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.			
	Criterion B: Enhancement of Existing Assets				
	Highest possible points are 30 points, with 30 points for "high", 18 points for "medium" and 3 points for "low".				
	Definition: Project enhances building infrastructure to address treatment of staff issues.				
	Effect of Project Impact:				
	<u>High</u> (H) – Provides benefits for all employees or the public. ← <i>Access difficulty in event of emergency could impact public</i>				
	<u>Medium</u> (M) – Provides benefits for between 10 to all employees.				
	<u>Low</u> (L) – Provides benefits for below 10 employees.				
	<input type="text" value="H"/>	Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.			
	Criterion C: Addressing Future Space Needs				
	Highest possible points are 15 points, with 15 points for "high", 9 points for "medium" and 1.5 points for "low".				
	Definition: Project positions the District to meet projected future space needs.				
	Effect of Project Impact:				
	<u>High</u> (H) – Meet projected demand 10 years in the future. ←				
	<u>Medium</u> (M) – Meet projected demand 10 to 20 years in the future.				
	<u>Low</u> (L) – Meet projected demand beyond 20 years in the future.				
	<input type="text" value="H"/>	Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.			

FY 2017-2021 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria

PRIORITY SCORE = 53

HVWTP Roof Replacement

RAW SCORE = 43

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = M ; Probability = H		38.58
	A	<input checked="" type="checkbox"/> M- Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer or public safety standards.	
	B	<input checked="" type="checkbox"/> H Project enhances building infrastructure to address treatment of staff or public issues.	
	C	<input checked="" type="checkbox"/> H Project positions the District to meet projected future space needs.	
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply		4.00
	<input checked="" type="checkbox"/>	With the Community	<input type="checkbox"/> With other agencies
	Good Neighbor (E 4) - Check all that apply		
	<input type="checkbox"/>	Graffiti removal or Prevention Features	
	<input type="checkbox"/>	Trash removal features (vortex weirs)	
	<input checked="" type="checkbox"/>	Improves esthetics of project location	
GREENER OBJECTIVE (15%)	Natural Resources Sustainability (E 3.2) - Check all that apply		0.00
	<input type="checkbox"/>	Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized
	<input type="checkbox"/>	Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management
	<input type="checkbox"/>	Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste
	<input type="checkbox"/>	Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production
			<input type="checkbox"/> Use of Recycled or Alternative Building Materials
	Trails & Open Space (E3.3) - Check all that apply		
	<input type="checkbox"/>	Trail friendly features	<input type="checkbox"/> Open Space Protection / Preservation
	<input type="checkbox"/>	Provides/Improves Bicycle Commute Route	
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
	<input type="checkbox"/>	26% to 50% of project costs available from other agencies	
	<input type="checkbox"/>	Up to 25% of project costs available from other agencies	

BUILDINGS & SITE / VEHICLES PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *HVWTP Roof Replacement*

Buildings and Grounds (EL 3.4)

Impact = ; Probability = 60.00

Buildings and Grounds capital projects are prioritized according to their ability to sustain the District's support functions.

Criterion A: Protect Existing Assets

Highest possible value is 55 points, with 55 points for "high", 33 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 44	M+ 33
	Med.	H- 44	M+ 33	M- 19.3
	Low	M+ 33	M- 19.3	L 5.5

Definition: Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.

Impact:

High – Without the project, District staff likely can not perform their normal daily work

Medium – Without the project, District staff likely can only perform their normal daily work in a restricted manner for a limited duration and with work-arounds.

Low – Without the project, District staff can continue to perform their daily work. However, the building is at risk from a seismic event or continues to deteriorate to a critical condition where staff cannot perform their daily work.

Probability of impact occurring:

High – Likely to almost certain 65% – 100%

Medium – Possible 35% – 65% →

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Enhancement of Existing Assets

Highest possible points are 30 points, with 30 points for "high", 18 points for "medium" and 3 points for "low".

Definition:

Project enhances building infrastructure to address treatment of staff issues.

Effect of Project Impact:

High (H) – Provides benefits for all employees or the public. →

Medium (M) – Provides benefits for between 10 to all employees.

Low (L) – Provides benefits for below 10 employees.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Addressing Future Space Needs

Highest possible points are 15 points, with 15 points for "high", 9 points for "medium" and 1.5 points for "low".

Definition:

Project positions the District to meet projected future space needs.

Effect of Project Impact:

High (H) – Meet projected demand 10 years in the future. →

Medium (M) – Meet projected demand 10 to 20 years in the future.

Low (L) – Meet projected demand beyond 20 years in the future.

H Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

BUILDINGS & GROUNDS OBJECTIVE
Clean (60% of Raw Score)

FY 2017-2021 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria

PRIORITY SCORE = 72

Emergency Generator Administration Building

RAW SCORE = 57

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = M ; Probability = H		53.40
	A	<input checked="" type="checkbox"/> H- Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer or public safety standards.	
	B	<input checked="" type="checkbox"/> H Project enhances building infrastructure to address treatment of staff or public issues.	
	C	<input checked="" type="checkbox"/> H Project positions the District to meet projected future space needs.	
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply		4.00
	<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies
	Good Neighbor (E 4) - Check all that apply		
	<input type="checkbox"/>	Graffiti removal or Prevention Features	
	<input type="checkbox"/>	Trash removal features (vortex weirs)	
	<input type="checkbox"/>	Improves esthetics of project location	
GREENER OBJECTIVE (15%)	Natural Resources Sustainability (E 3.2) - Check all that apply		0.00
	<input type="checkbox"/>	Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized
	<input type="checkbox"/>	Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management
	<input type="checkbox"/>	Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste
	<input type="checkbox"/>	Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production
			<input type="checkbox"/> Use of Recycled or Alternative Building Materials
	Trails & Open Space (E3.3) - Check all that apply		
	<input type="checkbox"/>	Trail friendly features	<input type="checkbox"/> Open Space Protection / Preservation
	<input type="checkbox"/>	Provides/Improves Bicycle Commute Route	
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
	<input type="checkbox"/>	26% to 50% of project costs available from other agencies	
	<input type="checkbox"/>	Up to 25% of project costs available from other agencies	

BUILDINGS & SITE / VEHICLES PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Emergency Generator - Administration Building*

BUILDINGS & GROUNDS OBJECTIVE Clean (60% of Raw Score)	Buildings and Grounds (EL 3.4)		Impact = ; Probability =	60.00
	Buildings and Grounds capital projects are prioritized according to their ability to sustain the District's support functions.			
	Criterion A: Protect Existing Assets			
	Highest possible value is 55 points, with 55 points for "high", 33 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:			

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 44	M+ 33
	Med.	H- 44	M+ 33	M- 19.3
	Low	M+ 33	M- 19.3	L 5.5

Definition: Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.

Impact:
High - Without the project, District staff likely can not perform their normal daily work *in event of a power outage*
Medium - Without the project, District staff likely can only perform their normal daily work in a restricted manner for a limited duration and with work-arounds.
Low - Without the project, District staff can continue to perform their daily work. However, the building is at risk from a seismic event or continues to deteriorate to a critical condition where staff cannot perform their daily work.

Probability of impact occurring:
High - Likely to almost certain 65% - 100%
Medium - Possible 35% - 65% ←
Low - Unlikely or rare 0% - 35%

Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Enhancement of Existing Assets
 Highest possible points are 30 points, with 30 points for "high", 18 points for "medium" and 3 points for "low".

Definition:
 Project enhances building infrastructure to address treatment of staff issues.

Effect of Project Impact:
High (H) - Provides benefits for all employees or the public. ←
Medium (M) - Provides benefits for between 10 to all employees.
Low (L) - Provides benefits for below 10 employees.

Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Addressing Future Space Needs
 Highest possible points are 15 points, with 15 points for "high", 9 points for "medium" and 1.5 points for "low".

Definition:
 Project positions the District to meet projected future space needs.

Effect of Project Impact:
High (H) - Meet projected demand 10 years in the future. ←
Medium (M) - Meet projected demand 10 to 20 years in the future.
Low (L) - Meet projected demand beyond 20 years in the future.

Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

June 22, 2016

TO: Chairman and Directors of the Florin Resource Conservation District
FROM: Jim Malberg, Finance Manager / Treasurer
SUBJECT: INVESTMENT POLICY GUIDELINES FISCAL YEAR 2016-17

RECOMMENDATION

Approve Resolution 06.22.16.06, of the Board of Directors of the District adopting the Fiscal Year 2016-17 Investment Policy Guidelines of the Florin Resource Conservation District.

Summary

By this action, the Board will approve the Fiscal Year 2016-17 Investment Policy Guidelines.

DISCUSSION

Background

State of California Government Code section 53600 et. seq., states that the authority to invest District funds is expressly delegated to the Board of Directors for subsequent re-delegation to the District Treasurer for a period of up to one year. Subject to review, the Board may renew the delegation of authority each year.

Present Situation

Investment Policy Guidelines Fiscal Year 2016-17 is an annual adoption of the Florin Resource Conservation District's Investment Policy. California Government Code sections 53600 – 53610 establishes the guidelines for the investment of public funds including the types of allowable investments and maximum amounts of each type of investment. Staff is not recommending any changes to the Investment Policy Guidelines at this time.

INVESTMENT POLICY GUIDELINES FISCAL YEAR 2016-17

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Strategic Plan Conformity

This item conforms to the FRCD/EGWD's 2012-2017 Strategic Plan. Annual adoption of the Investment Policy Guidelines is in line with the financial stability and best business practices of the financial stability challenge section of the Strategic Plan.

FINANCIAL SUMMARY

There is no direct financial impact associated with this item.

Respectfully Submitted,



JIM MALBERG
FINANCE MANAGER / TREASURER

Attachments

RESOLUTION NO. 06.22.16.06

RESOLUTION OF THE BOARD OF DIRECTORS OF THE FLORIN RESOURCE
CONSERVATION DISTRICT ADOPTING FISCAL YEAR 2016-17 INVESTMENT POLICY
GUIDELINES OF THE FLORIN RESOURCE CONSERVATION DISTRICT

WHEREAS, the Board of Directors adopted the **Investment Policy Guidelines of the Florin Resource Conservation District (FY 2015-16)** ("Investment Policy Guidelines") on June 24, 2015, to guide the Florin Resource Conservation District ("District"), General Manager, Finance Manager, and District staff regarding District investments; and

WHEREAS, paragraph R of the Investment Policy Guidelines provides that the District shall adopt the Guidelines by resolution annually; and

WHEREAS, the Board of Directors wishes to re-adopt the Investment Policy Guidelines for the Fiscal Year (FY) 2016-17.

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

Section 1. Investments shall be made in accordance with the **Investment Policy Guidelines of the Florin Resource Conservation District (FY 2016-17)** attached hereto as Exhibit "A," and made a part hereof.

Section 2. The policies adopted by this resolution are in addition to and supplement any other legal requirements.

Section 3. The Secretary to the Board shall certify to the passage and adoption of this resolution and the same shall take effect and be in force upon its adoption.

APPROVED, AND ADOPTED this 22nd day of June, 2016.

AYES:
NOES:
ABSENT:
ABSTAIN:

Chuck Dawson
Chairman of the Board of Directors

ATTEST:

Stefani Phillips
Secretary to the Board of Directors



**Investment Policy Guidelines
of the
Florin Resource Conservation District**

FY 2016-17

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A. Investment Authority

In accordance with the section 53600 et. seq. of the Government Code of the State of California, the authority to invest public funds is expressly delegated to the Board of Directors for subsequent re-delegation to the Finance Manager/District Treasurer.

B. Delegation of Authority

Management responsibility for the investment program is hereby delegated, pursuant to Section 53607 of the Government Code, to the Finance Manager/District Treasurer, who shall establish written procedures for the operation of the investment program consistent with this investment policy. This responsibility includes authority to select Brokers, establish safekeeping accounts, enter into wire transfer agreements, banking service contracts, and collateral/depository agreements. The Finance Manager/Treasurer shall be responsible for all transactions undertaken and shall establish a system of controls to regulate the activities of subordinate officials. This delegation shall be for no greater than one year and may be revoked at any time, or, upon review, renewed each year.

C. Policy

It is the policy of the Florin Resource Conservation District to invest public funds in a manner which will provide the highest investment return with the maximum security while meeting the daily cash flow demands of the District and conforming to all state and local statutes governing the investment of public funds.

D. Scope

This investment policy applies to all surplus financial assets of the District. These funds are accounted in the monthly financial reports and the comprehensive annual financial report of District financial activities.

E. Prudence

The standard of prudence to be used by investment officials in the management of District funds shall be the "prudent investor" standard which shall be applied in the context of managing all aspects of the overall portfolio. Investments shall be made with the care, skill, prudence and diligence, under circumstances then prevailing, including the general economic conditions and the anticipated needs of the District, which persons of prudence, discretion and intelligence acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the District.

It is the District's intent, at the time of purchase, to hold all investments until maturity. However, investments may be sold prior to maturity for cash flow purposes or to take advantage of principal appreciation.

F. Objective

The primary objectives, in priority order, of the District's investment activities shall be:

1. **Safety:** Safety of principal is the foremost objective of the investment program. Investments of the District shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio.

2. **Liquidity:** The District's investment portfolio will remain sufficiently liquid to enable the District to meet all operating requirements which might be reasonably anticipated.
3. **Return on Investments:** The District's investment portfolio shall be designed with the objective of attaining a rate of return commensurate with the District's investment risk constraints and the cash flow characteristics of the portfolio.

G. Ethics and Conflicts of Interest

Officers and employees involved in the investment process shall refrain from personal business activity that conflicts with proper execution of the investment program, or impairs their ability to make impartial investment decisions. Additionally, the Finance Manager/Director Treasurer is required to annually file applicable financial disclosures as required by the Fair Political Practices Commission (FPPC) and/or the District's Conflict of Interest Code.

H. Authorized Financial Dealers and Institutions

The District shall transact business only with banks, associations, and with broker/dealers licensed by the State of California. The broker/dealers should be primary government dealers regularly reporting to the New York Federal Reserve Bank. The Finance Manager/District Treasurer shall annually send a copy of the current investment policy to all broker/dealers approved to do business with the District. Confirmation of receipt of this policy shall be considered evidence that the dealer understands the District's investment policies and intends to sell the District only appropriate investments authorized by this investment policy.

I. Authorized and Suitable Investments

All investment vehicles allowed by Sections 53601 of the California Government Code may be used by the Florin Resource Conservation District.

GOVERNMENT AGENCY ISSUES: As authorized in Government Code Sections 53601 (a) through (f), this category includes a wide variety of government securities. There are no special portfolio limitations on the amount that may be invested in these securities, as follows:

1. California local government agency bonds, notes, warrants or other indebtedness;
2. California State warrants, notes, bonds or other indebtedness;
3. Bonds issued by the Florin Resource Conservation District;
4. U.S. Treasury notes, bonds, bills or other certificates of indebtedness secured by the full faith and credit of the federal government;
5. Federal agency or United States government-sponsored enterprise obligations, participations, or other instruments, including those issued by or fully guaranteed as to principal and interest by federal agencies or United States government-sponsored enterprises.

BANKERS ACCEPTANCES: As provided in Government Code Section 53601 (g), up to 40% of the District's surplus funds may be invested in Bankers Acceptances [that are eligible for purchase by the Federal Reserve System], although no more than 30% of the surplus funds may be invested in Bankers Acceptances of any one commercial bank. Additionally, the maturity period of any Bankers Acceptance shall not exceed 180 days.

COMMERCIAL PAPER: As authorized in Government Code Section 53601 (h), up to 25% of the District's surplus funds may be invested in "prime" commercial paper of quality of the highest ranking or of the highest letter and number rating provided by a nationally recognized statistical-rating organization (NRSRO). Issuing corporation must meet all of the following conditions in either paragraph (1) or paragraph (2):

- (1) The entity meets the following criteria:
 - (A) Is organized and operating in the United States as a general corporation.
 - (B) Has total assets in excess of five hundred million dollars (\$500,000,000).
 - (C) Has debt other than commercial paper, if any, that is rated "A" or higher by a nationally recognized statistical-rating organization (NRSRO).

- (2) The entity meets the following criteria:
 - (A) Is organized within the United States as a special purpose corporation, trust, or limited liability company.
 - (B) Has program-wide credit enhancements including, but not limited to, overcollateralization, letters of credit, or surety bond.
 - (C) Has commercial paper that is rated "A-1" or higher, or the equivalent, by a nationally recognized statistical-rating organization (NRSRO).

District shall not purchase more than 10% of the outstanding commercial paper of any one issuer. Maturities may not exceed 270 days.

NEGOTIABLE CERTIFICATES OF DEPOSIT OR BONDS: As authorized in Government Code Section 53601 (i), up to 30% of District's surplus funds may be invested in negotiable certificates of deposit issued by nationally or state-chartered commercial banks, federally insured credit unions, or the state licensed branch of a foreign bank. There is no limitation on the maturity period for this investment vehicle except for the overall investment constraints.

REPURCHASE AGREEMENTS, REVERSE REPURCHASE AGREEMENTS, OR SECURITIES LENDING AGREEMENTS: As authorized in Government Code Section 53601 (j), District may invest in repurchase agreements, reverse repurchase agreements, or securities lending agreements of any securities authorized in Government Code Section 53601 (a) to (k) or (n) or (o) provided that a master repurchase agreement that complies with the Bond Market Association (TBMA) Model has been executed with the contra-party. These investment vehicles are agreements between the District and the seller for the purchase of government securities to be resold on or before a specified date and for a specified amount. The market value of the securities that underlay the repurchase agreement shall be valued at 102% or greater of the funds borrowed against those securities, adjusted no less than quarterly. As provided in Government Code Section 53601(j)(5), investing in reverse repurchase agreements or securities lending agreements may only be made upon prior approval of the Board of Directors. The proceeds from a reverse repurchase agreement shall solely supplement the income normally received from the underlying securities.

Also:

1. The maturity of the reverse repurchase agreement must match the maturity of the securities purchased with the proceeds from the sale of the securities on the reverse repurchase agreement, and shall not exceed a term of 92 days, unless the agreement includes a written codicil guaranteeing a minimum earning or spread

for the entire period between the sale of a security using a reverse repurchase agreement and the final maturity date of the same security.

2. The total amount invested in reverse repurchase agreements shall not exceed 20% of the base value of the portfolio.
3. The securities to be sold on the reverse repurchase agreement or securities lending agreement must be owned and fully paid for by the District for a minimum of 30 days prior to the settlement of the reverse repurchase agreement.
4. Repurchase agreements, reverse repurchase agreements, or securities lending agreements may only be made with primary dealers of the Federal Reserve Bank of New York.

The Board of Directors specifically authorizes the Finance Manager/District Treasurer to enter into reverse repurchase agreements or securities lending agreements pursuant to the limitations described herein.

MEDIUM-TERM CORPORATE NOTES: As authorized in Government Code Section 53601 (k), up to 30% of District's surplus funds may be invested in medium term corporate notes. Maturities may not exceed five years. The issuing corporation must be organized and operating within the U.S. and must be rated "A" or better by a nationally recognized rating service.

SHARES OF BENEFICIAL INTEREST: As authorized by Government Code Section 53601 (l), up to 20% of District's surplus funds may be invested in shares of beneficial interest issued by diversified management companies investing in securities authorized by Government Code Section 53601 (a) to (k), inclusive or (n) or (o), and shares of beneficial interest issued by diversified management companies that are money market funds registered with the Securities and Exchange Commission under the investment company act of 1940.

If the investment is in shares by a company that invests in securities and obligations authorized by subdivisions (a) to (k), inclusive or subdivisions (n) or (o), the company must have attained the highest ranking or the highest letter and numerical rating provided by two nationally recognized statistical rating organizations or retain an investment advisor registered or exempt from registration with the Securities and Exchange Commission with at least five (5) years investing the securities authorized by subdivisions (a) to (k), inclusive, or (n) or (o) or experience managing money market mutual funds and with assets under management in excess of five hundred million dollars (\$500,000,000.00).

The purchase price of shares shall not include any commission and no more than 10% of the surplus funds may be invested in shares of any one mutual fund.

MORTGAGE PASS-THROUGH SECURITIES: As authorized in Government Code Section 53601 (o) up to 20% of the District's surplus funds may be invested in mortgage pass-through securities, collateralized mortgage obligations, mortgage-backed or other pay-through bonds, equipment lease-backed certificates, consumer receivable pass-through certificates, or consumer receivable-backed bonds of a maximum of five years maturity.

Securities eligible for investment under this provision shall be issued by an issuer having an "A" or higher rating for the issuer's debt as provided by a nationally recognized rating service and rated in a rating category of "AA" or its equivalent or better by a nationally recognized rating service.

FINANCIAL FUTURES AND FINANCIAL OPTION CONTRACTS: As permitted in Government Code Section 53601.1, District may invest in financial futures or financial option contracts in any of the above investment categories, subject to the same overall portfolio limitations.

TIME CERTIFICATES OF DEPOSIT: As authorized in Government Code Sections 53601.8 and 53630 and following, up to 30% of the District's surplus funds may invested funds in non-negotiable, fixed-term Certificates of Deposit collateralized in accordance with the Government Code requirements. In order to secure such deposits, an institution shall maintain in the collateral pool securities having a market value of at least 10% in excess of the total amount deposited (50% in excess of the total amount of deposits secured by promissory notes secured by first mortgages and first trust deeds). District is permitted to waive the first \$100,000 of collateral security for such deposits if the institution is insured pursuant to federal law. There are no special portfolio limits on the amount or maturity for this investment vehicle. TCDs may be purchased from banks, associations, federally insured credit unions, and federally insured industrial loan companies which meet the requirements set forth in the Government Code.

LAIF: Deposits with the Local Agency Investment Fund, which is managed by the California State Treasurer's Office, are also permitted. This investing is authorized by Government Code Section 16429.1. The District is a current participant in this fund.

J. Prohibited Investments

The District shall not invest any funds, pursuant to Government Code 53601.6 or pursuant to Article 2 (commencing with Section 53630), in inverse floaters, range notes, mortgage-derived, or interest-only strips that are derived from a pool of mortgages. Nor shall the District invest in any security that could result in zero interest accrual if held to maturity.

K. Investment Pools

The Treasurer shall have a thorough understanding of the operational areas listed below for each pool and/or fund prior to investing, and on a continual basis.

- A description of eligible investment securities, and a written statement of investment policy and objectives.
- A description of interest calculations and how interest is distributed, and how gains and losses are treated.
- A description of how the securities are safeguarded (including the settlement processes), and how often the securities are priced and the program is audited.
- A description of who may invest in the program, how often, and the permissible size of deposit and withdrawal.
- A schedule for receiving statements and portfolio listings.
- Whether reserves, retained earnings, etc. are utilized by the pool/fund.
- A fee schedule, and when and how it is assessed.
- Whether the pool/fund is eligible for bond proceeds and/or whether it will accept such proceeds.

L. Safekeeping and Custody

To protect against fraud or embezzlement or losses caused by collapse of an individual securities dealer, all securities owned by the District shall be held in safekeeping by a third party custodian, acting as agent for the District under the terms of a custody agreement or TBMA agreement

executed by the Finance Manager/District Treasurer. All security transactions will settle delivery vs. payment (DVP) through the District's safekeeping agent. Securities purchased from brokers/dealers shall be held in third party safekeeping by the trust department of the District's main bank, or by another third party trustee designated by the Finance Manager/Treasurer..

M. Delivery

The purchase of an eligible security shall require delivery of the securities to the District, including those purchased for the District by financial advisors, consultants, or managers using the District's funds, by book entry, physical delivery, or by third party custodial agreement. The transfer of securities to the counter party bank's customer book entry account may be used for book entry delivery. A counter party bank's trust department or separate safekeeping department may be used for the physical delivery of the security if it is held in the District's name.

N. Maximum Maturity

Pursuant to Government Code Section 53601 where the Government Code does not specify a limitation on the maturity term of a security, the Treasurer is authorized, as part of the District's investment program set forth herein, to invest in individual instruments in the portfolio to a maximum maturity of ten (10) years. The maximum weighted average maturity of the portfolio shall not exceed five (5) years.

O. Internal Control

Separation of functions between the Finance Manager/District Treasurer and the Finance Supervisor is designed to provide an ongoing internal review to prevent the potential for converting assets or concealing transactions.

Existing procedures require all wire transfers to be approved by the Finance Manager/District Treasurer and Finance Supervisor. Proper documentation obtained from confirmation and cash disbursement wire transfers is required for each investment transaction. Timely bank reconciliation is conducted to ensure proper handling of all transactions.

The investment portfolio and all related transactions are reviewed and balanced to appropriate general ledger accounts by the Finance Manager/District Treasurer on a monthly basis.

All employees involved in the investment of District funds are properly bonded.

Confirmation letters are delivered to the financial institution with the details of the investment transaction. The letters are signed by the Finance Manager/District Treasurer with copies to the Finance Supervisor. In the absence of the Finance Manager/District Treasurer, the Finance Supervisor may sign the confirmation letter for investments previously authorized. The Finance Manager/District Treasurer will review the letter signed during his or her absence by the Finance Services Specialist.

District receives confirmations from the financial institutions. All investment confirmations received from financial institutions are reviewed for accuracy and filed with the District's letter of confirmation in the Finance Manager/District Treasurer's office .

The District investment accounting software package meets all legal reporting requirements. It has the capability of generating a variety of reports for monitoring and controlling investment activity. An independent confirmation by an external auditor is conducted annually to review internal control, account activity and compliance with policies and procedures.

P. Other Guidelines

1. **Liquidity:** Liquidity refers to the ability to convert investment holdings to cash immediately with minimal loss of principal or accrued interest. This quality is important when the need for unexpected funds suddenly occurs. The secondary duty of the Treasurer is to insure that the liquidity needs of the District are met.
2. **Competitive Bids:** Purchase and sale of securities are made on the basis of competitive offers and bids.
3. **Selling Securities Prior to Maturity:** Generally, losses are acceptable on a sale before maturity if the earnings from the reinvested proceeds will exceed the income that would have been generated by the old investment considering any capital loss or foregone interest on the original investment.
4. **Sale of Investments Before Maturity:** Investments may be sold prior to maturity for cash flow or appreciation purposes; however, no investment shall be made solely for the purpose of trading.
5. **NCD Evaluation:** Negotiable Certificates of Deposit (NCD) are evaluated in terms of the credit worthiness of the issuer, as these deposits are unsecured, and uncollateralized promissory notes. See Appendix F of Treasury Management Procedures for NCD criteria.
6. **Time Deposit Placement:** Time deposits (insured and collateralized certificates of deposit) are not placed with banks, credit unions and/or associations unless an office is maintained in the State of California.
7. **TCD Evaluation:** Time Certificates of Deposit (TCD) are evaluated in terms of FDIC coverage. For deposits in excess of the insured maximum of \$100,000 approved levels of collateral at full market value are required, as prescribed in the California Government Code. See Appendix G of Treasury Management Procedures for TCD criteria.
8. **Security Marketability:** The marketability (salability) of a security is considered at the time of purchase, as the security may have to be sold prior to maturity in order to meet unanticipated cash demands.
9. **Cash Flow Requirements Used to Establish Maturity:** Projected cash flow requirements and the overall weighted average maturity of the District's investment portfolio are the primary factors to be used in determining investment maturity terms.

Q. Reporting

1. **Monthly Report:** Government Code Section 53067 requires the Finance Manager/District Treasurer to make a monthly report to the Board of Directors of transactions made pursuant to the Investment Policy.
2. **Monthly Report:** Water Code Section 24273 requires the Finance Manager/District Treasurer to file a report with the Secretary showing: Amount of money in District's treasury, audit of receipts and audit of items of expenditure.
3. **Quarterly Report:** Government Code Section 53646 requires the Finance Manager/District Treasurer to issue a quarterly report within 30 days following the end of the quarter, to the General Manager, and the Board of Directors, showing

the type of investment, issuer and/or institution, date of maturity, amount of investment, current market value for all securities, rate of interest, and other relevant data that may be required. The quarterly report shall state compliance of the investment portfolio with the Investment Policy and shall include a statement denoting the ability of the District to meet its pool expenditure requirements for the next six months. The Finance Manager/District Treasurer shall also submit the investment policy annually to the Board, disclose the source of market value information, confirm compliance with the guidelines or explain the differences, and affirm the agency's ability to meet its obligations over the next six months.

R. Investment Policy Adoption

The District's investment policy guidelines shall be adopted by resolution annually. However, changing economic conditions may make it advisable to review the guidelines during the year. Legislative changes affecting public agency investment practices may also need to be incorporated into the policy statement prior to year-end. It is anticipated that most changes will be processed at the end of the calendar year.

Glossary

Accrued Interest	Interest that has accumulated between the most recent payment and the sale of a bond or other fixed income security. At the time of sale, the buyer pays the seller the bond's price plus accrued interest.
Agencies	Securities issued by government-sponsored corporations or agencies of the U.S. Government such as the Federal Home Loan Banks, the Federal Farm Credit Banks Small Business Administration, Department of Housing and Urban Development.
Amortize	Accounting method whereby the cost of acquisition of an asset gradually is reduced to reflect the theoretical resale value of the asset.
Asked Price	The price at which securities are offered for sale. Also called the Ask Price, Asking Price, or Ask.
Bankers' Acceptance	A draft or bill of exchange accepted by a bank or trust company. It is the customary means of effecting payment for merchandise sold in import-export transactions and a source of financing used extensively in international trade.
Basis Point	.01% of yield (1/100 of 1%) on a fixed-income security.
Bear Market	Prolonged period of falling prices. A bear market in stocks is usually brought on by the anticipation of declining economic activity, and a bear market in bonds is caused by rising interest rates.
Bearish	Having the opinion that securities will fall in market value.
Bid	The price offered by a buyer of securities. (When you are selling securities, you ask for a bid.) See Offer.
Bond	Any interest-bearing or discounted government or corporate security that obligates the issuer to pay the bondholder a specified sum of money, usually at specific intervals, and to repay the principal amount of the loan at maturity.
Book Entry	Holdings of the securities are recorded on the books of the Federal Reserve Bank of New York for the issuer. Interest and principal payments are sent to the investor when due. No physical certificates are issued or delivered to the investor. Bonds issued in book entry form are transferred via the Federal Reserve wire or book entry system to member financial institutions. Book entry securities are said to be wireable.
Book Value	Value at which an asset is carried on the balance sheet.
Broker	A person who acts as an intermediary between a buyer and seller.
Bull Market	Prolonged rise in the prices of stocks, bonds, or commodities. Bull markets usually last at least a few months and are characterized by high trading volume.
Bullish	The belief that prices will rise or will continue to rise.
Call	The action whereby a company elects to redeem a security prior to its maturity date.

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Callable Bond	Bond that may be called (redeemed) by the issuer on or after a specified date before maturity.
Certificate of Deposit (CD)	A time deposit with a specific maturity evidenced by a certificate.
Collateral	Securities, evidenced of deposit or other property which a borrower pledges to secure repayment of a loan. Also refers to securities pledged by a bank to secure deposits of public monies.
Commercial Paper	Short-term obligations with maturities ranging from 2 to 270 days issued by banks, corporations, and other borrowers to investors with temporarily idle cash. Such instruments are unsecured and usually discounted, although some are interest bearing.
Confirmation	Formal memorandum from a broker to a client giving details of a securities transaction.
Consumer Price Index (CPI)	Measure of change in consumer prices, as determined by a monthly survey of the U.S. Bureau of Labor Statistics.
Coupon	(a) The annual rate of interest that a bond's issuer promises to pay the bondholder on the bond's face value. (b) A certificate attached to a bond evidencing interest due on a payment date.
Current Yield	The annual interest received on a bond in relation to the amount paid for the bond expressed as a percentage.
Debenture	A bond secured only by the general credit of the issuer.
Delivery Versus Payment (DVP)	There are two methods of delivering securities: delivery versus payment (DVP) and delivery versus receipt. DVP is delivery of securities with an exchange of money for the securities. Delivery versus receipt is delivery of securities with an exchange of a signed receipt for the securities.
Depository Trust Company (DTC)	A central securities certificate depository, and member of the Federal Reserve System, through which members may arrange deliveries of securities between each other through computerized debit and credit entries without physical delivery of the certificates.
Derivatives	(1) Financial instruments whose return profile is linked to, or derived from, the movement of one or more underlying index or security, and may include a leveraging factor, or (2) financial contracts based upon notional amounts whose value is derived from an underlying index or security (interest rates, foreign exchange rates, equities or commodities).
Discount	The difference between the cost price of a security and its maturity amount when quoted at lower than face value. A security selling below original offering price shortly after sale also is considered to be at a discount.
Discount Rates	Interest rate that the Federal Reserve charges member banks for loans, using government securities or eligible paper as collateral.

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Discount Securities	Non-interest bearing money market instruments that are issued at a discount and redeemed at maturity for full face value, e.g., U.S. Treasury Bills.
Diversification	Dividing investment funds among a variety of securities offering independent returns.
Face Value	Value of a bond stated on the bond certificate.
Fed Wire	Computerized network linking the Fed with its district banks, member banks, and primary dealers in government securities.
Federal Deposit Insurance Corporation (FDIC)	A federal agency that insures bank deposits, currently up to \$100,000 per deposit.
Federal Funds Rate	Interest rate charged by banks with excess reserves at a Federal Reserve district bank to banks needing overnight loans to meet reserve requirements.
Federal Home Loan Banks (FHLB)	Government sponsored wholesale banks (currently 12 regional banks) which lend funds and provide correspondent banking services to member commercial banks, thrift institutions, credit unions and insurance companies. The mission of the FHLBs is to liquefy the housing related assets of its members who must purchase stock in their district Bank.
Federal National Mortgage Association (FNMA)	FNMA, like GNMA, was chartered under the Federal National Mortgage Association Act in 1938. FNMA is a federal corporation working under the auspices of the Department of Housing and Urban Development (HUD). It is the largest single provider of residential mortgage funds in the United States. Fannie Mae, as the corporation is called, is a private stockholder-owned corporation. The corporation's purchases include a variety of adjustable mortgages and second loans, in addition to fixed-rate mortgages. FNMA's securities are also highly liquid and are widely accepted. FNMA assumes and guarantees that all security holders will receive timely payment of principal and interest.
Federal Open Market Committee (FOMC)	Consists of seven members of the Federal Reserve Board and five of the twelve Federal Reserve Bank Presidents. The President of the New York Federal Reserve Bank is a permanent member, while the other Presidents serve on a rotating basis. The Committee periodically meets to set Federal Reserve guidelines regarding purchases and sales of Government Securities in the open market as a means of influencing the volume of bank credit and money.
Federal Reserve System	The central bank of the United States created by Congress to regulate the U.S. monetary and banking system.
Flat	A bond that is sold without accrued interest.
Government National Mortgage Association (GNMA or Ginnie Mae)	A government-owned corporation, nicknamed Ginnie Mae, which is an agency of the U.S. Department of Housing and Urban Development. GNMA guarantees, with the full faith and credit of the U.S. Government, full and timely payment of all monthly principal and interest payments on the mortgage-backed pass-through securities of registered holders.

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Illiquid	Used when a security that does not enjoy an active secondary market; thus, the holder may find it difficult to sell the security and thereby go back to cash.
Know Your Customer	Industry obligation that requires a brokerage firm and its registered representatives to know the important facts about the customer with whom they do business.
Liquidity	A liquid asset is one that can be converted easily and rapidly into cash without a substantial loss of value. In the money market, a security is said to be liquid if the spread between bid and asked prices is narrow and reasonable size can be done at those quotes.
Local Government Investment Pool (LGIP)	The aggregate of all funds from political subdivisions that are placed in the custody of the State Treasurer for investment and reinvestment. In California it is called the Local Agency Investment Fund (LAIF).
Market Value	The price at which a security is trading and could presumably be purchased or sold.
Master Repurchase Agreement	A written contract covering all future transactions between the parties to repurchase -- reverse repurchase agreements that establishes each party's rights in the transactions. A master agreement will often specify, among other things, the right of the buyer-lender to liquidate the underlying securities in the event of default by the seller-borrower.
Maturity Date	The specified day on which the issuer of a debt security is obligated to repay the principal amount, or face value, of a security.
Money Market	The market in which short-term debt instruments (bills, commercial paper, bankers' acceptances, etc.) are issued and traded.
New Issue	Popular term for any new security offered for sale by the issuer.
Odd Lot	Transactions that are for less than the typical unit of trading.
Offer	The price asked by a seller of securities. (When you are buying securities, you ask for an offer.) See Asked and Bid.
Open Market Operations	Purchases and sales of government and certain other securities in the open market by the New York Federal Reserve Bank as directed by the FOMC in order to influence the volume of money and credit in the economy. Purchases inject reserves into the bank system and stimulate growth of money and credit; sales have the opposite effect. Open market operations are the Federal Reserve's most important and most flexible monetary policy tool.
Paper Loss	An unrealized loss on a security position. Paper losses become realized losses only if the security is sold.
Par	Any security whose market or offering price is the same as its face value at the time of redemption.
Portfolio	Collection of securities held by an investor.
Premium	The dollar amount by which the market price of a bond exceeds its par value.

Primary Dealer	A group of government securities dealers who submit daily reports of market activity and positions and monthly financial statements to the Federal Reserve Bank of New York and are subject to its informal oversight. Primary dealers include Securities and Exchange Commission (SEC)-registered securities broker-dealers, banks, and a few unregulated firms.
Prime Rate	Interest rate banks charge to their most creditworthy customers.
Prudent Person Rule	An investment standard. In some states the law requires that a fiduciary, such as a trustee, may invest money only in a list of securities selected by the custody state -- the so-called legal list. In other states the trustee may invest in a security if it is one which would be bought by a prudent person of discretion and intelligence who is seeking a reasonable income and preservation of capital.
Quote	A statement of the highest bid and lowest offer for the security.
Rally	Industry term for a sharp rise in the price of the security.
Rate Of Return	The yield obtainable on a security based on its purchase price or its current market price.
Rating	Judgment of creditworthiness of an issuer made by an accepted rating service.
Registered Bond	A bond that is recorded in the name of the holder on the books of the issuer or the issuer's Registrar and can be transferred to another owner only when endorsed by the registered owner.
Repurchase Agreement (RP or Repo)	A holder of securities sells these securities to an investor with an agreement to repurchase them at a fixed price on a fixed date. The security "buyer" in effect lends the "seller" money for the period of the agreement, and the terms of the agreement are structured to compensate him for this.
Reverse Repurchase Agreements	Whereby dealers agree to buy the securities and the investor agrees to repurchase them at a later date.
Safekeeping	A service to customers rendered by banks for a fee whereby securities and valuables of all types and descriptions are held in the bank's vaults for protection.
Secondary Market	A market made for the purchase and sale of outstanding issues following the initial distribution.
Securities Lending Agreement	An agreement under which a local agency agrees to transfer securities to a borrower who, in turn, agrees to provide collateral to the local agency. During the term of the agreement, both the securities and the collateral are held by a third party. At the conclusion of the agreement, the securities are transferred back to the local agency in return for the collateral.
Settlement Date	The date on which a securities contract, by prearranged agreement, must be cleared or settled.

Spread	The difference between yields on various fixed-income securities.
Subject	Term used of a quote made by a dealer, whether a bid or an offer or both, that must be reviewed before a final decision to buy or sell is made.
Swap	Industry jargon for the sale of one security and the purchase of another.
The Bond Marketing Association (TBMA)	A trade association representing banks, dealers, and brokers who underwrite and trade municipals, governments, and federal agency securities.
Treasury Bills	A non-interest bearing discount security issued by the U.S. Treasury. Most bills are issued to mature in three months, six months, or one year, in minimum denominations of \$10,000.
Treasury Bonds	Long-term coupon-bearing U.S. Treasury securities issued as direct obligations of the U.S. Government and having initial maturities 10 years or longer issued in minimum denominations of \$1,000.
Treasury Notes	Intermediate securities with maturities of 1 to 10 years.
Yield	The rate of annual income return on an investment, expressed as a percentage. (a) INCOME YIELD is obtained by dividing the current dollar income by the current market price for the security. (b) NET YIELD or YIELD TO MATURITY is the current income yield minus any premium above par or plus any discount from par in purchase price, with the adjustment spread over the period from the date of purchase to the date of maturity of the bond.
Yield to Maturity	A measurement of the compound rate of return that an investor in a bond with a maturity of more than one year will receive if: (1) the investor holds the security to maturity and (2) reinvests all cash flows at the same market rate of interest.

Sources

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2. *Debt Securities, A Handbook for State and Local Government Portfolio Managers*, Keith Williams.
3. Municipal Treasurers' Association of the United States and Canada, Investment Policy Guidelines.