

RESOLUTION NO. 2017-18  
RESOLUTION NO. PFA-03  
ORDINANCE NO. 2017-01

## AGENDA

### MISSION STATEMENT

"Our team is dedicated to protecting, enhancing, and developing our rich water resources to the highest beneficial use for Calaveras County, while maintaining cost-conscious, reliable service, and our quality of life, through responsible management."

Regular Board Meeting  
Wednesday, April 12, 2017  
9:00 a.m.

Calaveras County Water District  
120 Toma Court, (PO Box 846)  
San Andreas, California 95249

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Administration Office at 209-754-3028. Notification in advance of the meeting will enable CCWD to make reasonable arrangements to ensure accessibility to this meeting. Any documents that are made available to the Board before or at the meeting, not privileged or otherwise protected from disclosure, and related to agenda items, will be made available at CCWD for review by the public.

### ORDER OF BUSINESS

#### CALL TO ORDER / PLEDGE OF ALLEGIANCE

1. ROLL CALL

2. PUBLIC COMMENT

At this time, members of the public may address the Board on any non-agendized item. The public is encouraged to work through staff to place items on the agenda for Board consideration. No action can be taken on matters not listed on the agenda. Comments are limited to five minutes per person.

3. CONSENT AGENDA

The following items are expected to be routine / non-controversial. Items will be acted upon by the Board at one time without discussion. Any Board member may request that any item be removed for later discussion.

3a Approval of Minutes for the Board Meeting of March 22, 2017

3b Review Board of Directors Monthly Time Sheets for March, 2017

3c Approve to Ratify Claim Summary #541 Secretarial Fund in the Amount of \$2,128,319.91 for March, 2017  
(Jeffrey Meyer, Director of Administrative Services)

RES 2017-\_\_\_\_\_

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#### BOARD OF DIRECTORS

Jeff Davidson, President                      Scott Ratterman, Vice President  
Terry Strange, Director                      Bertha Underhill, Director                      Russ Thomas, Director

4. **NEW BUSINESS**

- 4a Discussion / Action Regarding Awarding Engineering and Design Contract for the Ebbetts Pass Reach 1 Water Pipeline Replacement Project, CIP #11085  
(Charles Palmer, District Engineer) **RES 2017-\_\_\_\_\_**
- 4b Discussion / Action Regarding Partnering with Tuolumne County Resource Conservation District to Provide Toilet and Showerhead Rebates  
(Joel Metzger, PIO/Customer Relations Manager)
- 4c Discussion / Action Regarding Entering into a Joint Exercise of Powers Agreement Establishing the Eastern San Joaquin Groundwater Authority and Appointing a Board Member Representative to the Newly Formed JPA  
(Peter Martin, Water Resources Program Manager) **RES 2017-\_\_\_\_\_**
- 4d Discussion / Action Regarding Support for ACWA's Policy Statement on Bay-Delta Flow Requirements  
(Joel Metzger, PIO/Customer Relations Manager) **RES 2017-\_\_\_\_\_**
- 4e Discussion / Action Regarding State Legislation in the 2017-18 Session  
(Joel Metzger, PIO/Customer Relations Manager)

5. **OLD BUSINESS**

Nothing to report

6. **GENERAL MANAGER REPORT**

7.\* **BOARD REPORTS / INFORMATION / FUTURE AGENDA ITEMS**

8. **NEXT BOARD MEETINGS**

- Wednesday, April 26, 2017, 9:00 a.m., Regular Board Meeting
- Wednesday, May 24, 2017, 9:00 a.m., Regular Board Meeting

9. **ADJOURNMENT**



# CALAVERAS COUNTY WATER DISTRICT

## Board of Directors

District 1      Scott Ratterman  
District 2      Terry Strange  
District 3      Bertha Underhill  
District 4      Russ Thomas  
District 5      Jeff Davidson

## Legal Counsel

Matthew Weber, Esq.  
Downey Brand, LLP

## Financial Services

Umpqua Bank  
US Bank  
Wells Fargo Bank

## Auditor

Richardson & Company, LLP

## CCWD Committees

\*Engineering Committee  
\*Finance Committee  
\*Legal Affairs Committee  
Executive Committee (*ad hoc*)

## Membership\*\*

Strange / Davidson (alt. Underhill)  
Underhill / Thomas (alt. Ratterman)  
Davidson / Ratterman  
Davidson / Ratterman

## Joint Power Authorities

ACWA / JPIA  
CCWD Public Financing Authority  
Calaveras-Amador Mokelumne River Authority (CAMRA)  
Calaveras Public Power Agency (CPPA)  
Tuolumne-Stanislaus Integrated Regional Water  
Management Joint Powers Authority (T-Stan JPA)  
Upper Mokelumne River Watershed Authority (UMRWA)

Ratterman (alt. Dave Eggerton)  
All Board Members  
Strange / Ratterman (alt. Davidson)  
Peter Martin (alt. Dave Eggerton)  
Strange (alt. Thomas)  
Davidson (alt. Strange)

## Other Regional Organizations of Note

Calaveras LAFCO  
Calaveras County Parks and Recreation  
Committee  
Highway 4 Corridor Working Group  
Mountain Counties Water Resources  
Association (MCWRA)  
Mokelumne River Association (MRA)  
Tuolumne-Stanislaus Integrated Regional Water  
Mgt. JPA Watershed Advisory Committee (WAC)

All Board Members  
Ratterman (alt. Thomas)  
Underhill / Thomas  
All Board Members  
All Board Members  
Peter Martin (alt. Metzger)

\* Standing committees, meetings of which require agendas & public notice 72 hours in advance of meeting.

\*\* The 1<sup>st</sup> name listed is the committee chairperson.

RESOLUTION NO. 2017-12  
RESOLUTION NO. PFA-03  
ORDINANCE NO. 2017-01

**MINUTES**

**CALAVERAS COUNTY WATER DISTRICT  
REGULAR BOARD MEETING  
MARCH 22, 2017**

- Directors Present: Jeff Davidson, President  
Scott Ratterman, Vice President  
Bertha Underhill, Director  
Terry Strange, Director  
Russ Thomas, Director
- Staff Present: Dave Eggerton, General Manager  
David Cameron, Counsel  
Mona Walker, Clerk to the Board  
Jeff Meyer, Director of Administrative Services  
Charles Palmer, District Engineer  
Peter Martin, Water Resources Program Manager  
Robbie Creamer, Engineering Analyst  
Joel Metzger, PIO/Customer Relations Manager
- Others Present: Vickey Mills  
Dennis Mills  
Jayanna Cazares, high school student  
Brad Peterson, Condor Earth Technologies

**ORDER OF BUSINESS**

**CALL TO ORDER / PLEDGE OF ALLEGIANCE**

**1. ROLL CALL**

President Davidson called the Regular Board Meeting to order at 9:00 a.m. All Board Members were present.

**2. PUBLIC COMMENT**

There was no public comment.

**3. CONSENT AGENDA**

**MOTION:** Directors Ratterman / Thomas – Approved Consent Agenda Items:  
3a, Minutes for the Board Meeting of March 8, 2017; 3b, Adopt Resolution No. 2017-12 Ratifying Claim Summary #540 Secretarial Fund in the Amount of \$1,398,758.39 for February, 2017; and 3d, Adopting Resolution No. 2017-13 Approving Designation of Applicant’s Agent for Cal OES Disaster Eligibility

- 3a Approval of Minutes for the Board Meeting of March 8, 2017
- 3b Discussion / Action to Ratify Claim Summary #540 Secretarial Fund in the Amount of \$1,398,758.39 for February, 2017  
(Jeffrey Meyer, Director of Administrative Services) **RES 2017-12**
- Director Underhill pulled Item 3c from the Consent Agenda*
- 3c Quarterly Capital Projects Report  
(Charles Palmer, District Engineer)
- 3d Approving Designation of Applicant’s Agent for Cal OES Disaster Eligibility  
(Teresa Tanaka, Director of Operations) **RES 2017-13**

**AYES:** Directors Ratterman, Thomas, Underhill, Strange and Davidson  
**NOES:** None  
**ABSTAIN:** None  
**ABSENT:** None

**OFF CONSENT AGENDA**

*Director Underhill pulled Item 3c from the Consent Agenda*

- 3c Quarterly Capital Projects Report  
(Charles Palmer, District Engineer)

**DISCUSSION:** Director Underhill inquired if there are any delays anticipated in commencing with the proposed Capital Improvement Projects (CIP) listed in her District (District 3), and she asked about the Three Oaks Subdivision being proposed in the Ebbetts Pass area. Mr. Palmer and Mr. Creamer responded to Director Underhill’s questions.

Director Davidson expressed that he was pleased the CIP Report was included in the agenda package and suggested the report should be included in the agenda package for review on a quarterly basis.

**PUBLIC COMMENT:** There was no public comment.

This item was for information only; no action was taken.

4. **NEW BUSINESS**

- 4a Discussion / Action Regarding Amending CCWD Rules & Regulations Governing the Furnishing of Water and/or Wastewater Services, Article III, Sections 22A, B, C, D, and E  
(Joel Metzger, PIO/Customer Relations Manager) RES 2017-14

**MOTION:** Directors Ratterman / Underhill – Adopt Resolution No. 2017-14 Approving to Amend CCWD Rules & Regulations Governing the Furnishing of Water and/or Wastewater Services, Article III, Sections 22A, B, C, D, and E

**DISCUSSION:** Mr. Metzger indicated that District policy is in need of language updates and staff recommends that it be more in line with current procedures and practices. Included in the agenda package was the current policy and the policy with the proposed changes. Staff will bring back to the Board an analysis of the fees related to the late charges, service disconnect and reconnect charges etc., that are included in Sections 22A, B, C, D, and E and have not been updated for many years. The Finance Committee has reviewed the proposed policy changes and approve of staff's recommendation. Mr. Metzger reviewed some of the proposed changes in the policy; none of the recommended policy changes resulted in a change of current fees.

**PUBLIC COMMENT:** There was no public comment.

**AYES:** Directors Ratterman, Underhill, Strange, Thomas and Davidson  
**NOES:** None  
**ABSTAIN:** None  
**ABSENT:** None

- 4b **Information / Discussion Regarding Entering into a Joint Exercise Powers Agreement Establishing the Eastern San Joaquin Groundwater Authority and Designating Board Members to JPA**  
(Peter Martin, Water Resources Program Manager)

Mr. Martin provided a PowerPoint presentation on information related to entering into a Joint Exercise of Powers Agreement establishing the Eastern San Joaquin (ESJ) Groundwater Authority. In December, 2016 the Board approved the District move forward with a memorandum of understanding with joining the County of Stanislaus and Rock Creek Water District to file as a Groundwater Sustainability Agency (Eastside GSA).

Mr. Martin indicated there are 18 separate GSA's within the ESJ Subbasin who, through the formation of the ESJ Groundwater Authority, will develop a Groundwater Sustainability Plan for the Subbasin by 2020 as required by the Sustainable Groundwater Management Act of 2014 (SGMA).

Staff will bring forward to the Board on April 12th a resolution to approve joining the Authority through the Eastside GSA, and authorizing an initial contribution to the Authority of \$2,500 to launch the effort; and the Board will be asked to appoint one of its members to serve as the Eastside GSA's representative on the Authority's Board of Directors. Mr. Martin reviewed the tentative schedule for formation of the GSA and Groundwater Authority. Mr. Martin and Mr. Cameron responded to questions from the Board. The Board thanked Mr. Martin for his efforts in meeting the required deadlines for GSA formation under SGMA.

This item was for information only; no action was taken.

- 4c Discussion / Action Regarding Approving CCWD's 5-Year Capital Improvement Program (CIP) for July 1, 2017 to June 30, 2022  
(Charles Palmer, District Engineer) **RES 2017-15**

**MOTION:** **Directors Underhill / Ratterman – Adopt Resolution No. 2017-15 Approving CCWD's Five-Year Water and Wastewater Capital Improvement Program for July 1, 2017 to June 30, 2022**

**DISCUSSION:** Mr. Palmer described the proposed Five-Year Water and Wastewater Capital Improvement Program (CIP) including the program priorities that address operations and maintenance issues, protect employee safety, OSHA compliance, renovate piping, regulatory compliance, master planning for growth and future expansion, and reliability and redundancy. He reviewed the challenges associated with the Five-Year CIP program including costs, staff resources/consultants, environmental (CEQA, NEPA, permits), funding limitations, and implementation/execution. The Five-Year CIP is reviewed and updated by the Board on an annual basis but may be adjusted by the Board during the year as necessary to address emergency projects that arise such as occurred with the drought and Butte Fire.

Mr. Palmer went on to review the water and wastewater projects listed within the report including a series of lift stations scheduled for rehabilitation and/or replacement, and project schedules from design/engineering to project construction. He also discussed the Master Water and Wastewater Plans that are part of the program and the timeline for plan updates. Staff will continue to pursue grants and other cost-effective state and federal sources of funding to advance implementation of CIP projects.

Mr. Meyer discussed the Financial Analysis Plan under development by HDR that will provide more information on the District's current and future debt service obligations and how they may affect the District's ability to qualify for state and federal grants and loans. Mr. Palmer responded to various questions from Board Members.

**PUBLIC COMMENT:** There was no public comment.

**AYES:** Directors Underhill, Ratterman, Strange, Thomas and Davidson  
**NOES:** None  
**ABSTAIN:** None  
**ABSENT:** None

5. **OLD BUSINESS**

There was nothing to report.

6. **GENERAL MANAGER REPORT**

Mr. Eggerton reported on the following activities: 1) reviewed the agenda items to be discussed at the March 23<sup>rd</sup> Legal Affairs Committee meeting; 2) the District submitted a comment letter to the State Water Resources Control Board on its Supplemental Environmental Document (SED) for Phase 1 of the Bay-Delta Water Quality Control Plan Update; 3) CCWD has been asked to join in

support of a similar comment letter from ACWA on the SED, which will be brought to the Board for consideration at a future meeting; 4) noted that today is World Water Day; and 5) reported on results from staff's IT Steering Committee meeting to develop a paperless work order system and GIS mapping platform.

## 7. BOARD REPORTS / INFORMATION / FUTURE AGENDA ITEMS

Director Underhill expressed her interest in viewing the minutes of the March 22<sup>nd</sup> Legal Affairs Committee meeting.

Director Thomas reported that he had the opportunity to observe the CCWD field crew at work on March 19<sup>th</sup> repairing a waterline and expressed how pleased he was with the field staff and their work performance.

Director Strange reported that Stone Brewery in Escondido, CA has released a new beer called Full Circle Pale Ale that is made from recycled wastewater.

Director Ratterman reported that he will be attending a Legal Affairs Committee meeting on March 22<sup>nd</sup> and an Executive Committee meeting with the County Board of Supervisor's Chair and Vice Chair on March 27<sup>th</sup>.

Director Davidson expressed that he has received public comments on the increase of water releases from New Hogan Reservoir.

## 8. NEXT BOARD MEETINGS

- Wednesday, April 12, 2017, 9:00 a.m., Regular Board Meeting
- Wednesday, April 26, 2017, 9:00 a.m., Regular Board Meeting

The Board ended Open Session at approximately at 10:31 a.m.

## 9. CLOSED SESSION

The meeting adjourned into Closed Session at approximately 10:36 a.m. Those present were Board Members: Jeff Davidson, Scott Ratterman, Bertha Underhill, Russ Thomas, and Terry Strange; staff members Dave Eggerton and Robert Creamer; and Counsel David Cameron.

- 9a Conference with Real Property Negotiators  
Government Code §54956.8  
Property: APN 004-006-031, San Andreas  
District negotiators: Dave Eggerton and Robbie Creamer  
Under negotiation: price and other terms
- 9b Conference with Real Property Negotiators  
Government Code §54956.8  
Property: A Portion of APN 012-011-013, 20 Sandy Gulch Road, West Point  
District negotiators: Dave Eggerton and Robbie Creamer  
Under negotiation: price and other terms

**10. REPORTABLE ACTION FROM CLOSED SESSION**

The Board reconvened into Open Session at approximately 11:33 a.m.

- 10a Conference with Real Property Negotiators  
Government Code §54956.8  
Property: APN 004-006-031, San Andreas  
District negotiators: Dave Eggerton and Robbie Creamer  
Under negotiation: price and other terms

**MOTION:** Directors Ratterman / Thomas – Adopt Resolution No. 2017-16  
Approving the Sale of CCWD’s 15.8+- Acre Parcel, APN 004-006-031  
Located in San Andreas, CA for \$250,000 to Mirasol Development, LLC  
and Authorizing the General Manager to Execute all Documents related  
to the Sale of the Property

**DISCUSSION:** President Davidson asked the Board Members if there was any comment; there was no comment.

**PUBLIC COMMENT:** There was no public comment.

**AYES:** Directors Ratterman, Thomas, Underhill, Strange and Davidson  
**NOES:** None  
**ABSTAIN:** None  
**ABSENT:** None

- 10b Conference with Real Property Negotiators  
Government Code §54956.8  
Property: A Portion of APN 012-011-013, 20 Sandy Gulch Road, West Point  
District negotiators: Dave Eggerton and Robbie Creamer  
Under negotiation: price and other terms

**MOTION:** Directors Strange / Underhill – Adopt Resolution No. 2017-17  
Approving the Sale of CCWD’s 2.11 Acre Parcel, A Portion of  
APN 012-011-012, located at 20 Sandy Gulch Road in West Point, CA  
for \$9,000 to The Porteous Family Trust and authorizing the  
General Manager to Execute all Documents related to the Sale of  
the Property

**DISCUSSION:** President Davidson asked the Board Members if there was any comment; there was no comment.

**PUBLIC COMMENT:** There was no public comment.

**AYES:** Directors Strange, Underhill, Ratterman, Thomas and Davidson  
**NOES:** None  
**ABSTAIN:** None  
**ABSENT:** None

**11. ADJOURNMENT**

With no further business, the meeting adjourned at approximately 11:40 a.m.

By:

ATTEST:

\_\_\_\_\_  
Dave Eggerton  
General Manager

\_\_\_\_\_  
Mona Walker  
Clerk to the Board



# Agenda Item

DATE: April 12, 2017

TO: Dave Eggerton, General Manager 

FROM:  Mona Walker, Executive Assistant

SUBJECT: Review Board of Directors Time Sheets for March, 2017

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## **RECOMMENDED ACTION:**

For information only.

## **SUMMARY:**

Pursuant to direction from the Board of Directors, copies of the Board's monthly time sheets from which the Board is compensated from, are included in the monthly agenda package for information. Attached are copies of the Board's time sheets for the month of March, 2017.

Board Members can be reimbursed for mileage cost to travel to meetings/conferences and are paid at the current IRS rate.

## **FINANCIAL CONSIDERATIONS:**

Monthly compensation and mileage reimbursement costs are included in the FY 16-17 budget.

Attachments: Board of Directors Time Sheets for March, 2017











# CALAVERAS COUNTY WATER DISTRICT DIRECTOR REIMBURSEMENT FORM

For Admin Use	Payroll	<input checked="" type="checkbox"/>
	Expense	<input type="checkbox"/>

Month/Yr March, 2017

Name Jeff Davidson

Activity Date	Meeting or Other Expense Description	Designated Rep.		Association List		Prior Approval		Cost		Total Miles
		Yes	No	Yes	No	Yes	No	Meeting	Expense	
3/8/17	Regular Board Meeting							\$120		28
3/14/17	EBMUD Conference Call at CCWA							\$120		28
3/20/17	Legislative Committee							\$120		28
3/22/17	Regular Board Meeting							\$120		28
<b>COPY</b>										
For Totals line, multiply miles by the IRS rate:		11117	\$0.535							112 miles
				<b>Totals</b>				\$480. <sup>00</sup>	\$	\$59.92

Pursuant to Board Policy 4030, receipts required; report /materials required.

The undersigned, under penalty of perjury states: This claim and the items set forth herein are true and correct; that expenses incurred, meetings attended and business conducted are necessary to District affairs; that this claim is proper and within the scope of California Water Code Section 20200 et seq, and District Ordinance 2015-02; that the service was actually rendered; and that the amount(s) herein are justly true.

Administrative Review: [Signature] Date: 3/22/17 Signature of Claimant: [Signature] Orig to Finance Dept.

**RESOLUTION NO. 2017 –**

**A RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE CALAVERAS COUNTY WATER DISTRICT**

**RATIFYING CLAIM SUMMARY NO. 541**

**WHEREAS**, the Board of Directors of the CALAVERAS COUNTY WATER DISTRICT has reviewed and considered Claim Summary Number 541 at the Regular Meeting held on April 12, 2017; and

**WHEREAS**, Board Members have resolved questions, issues, or concerns by consultation with District staff during said meeting.

**NOW, THEREFORE, BE IT RESOLVED** that the CALAVERAS COUNTY WATER DISTRICT Board of Directors hereby ratifies Claim Summary Number 541 in the amount of \$2,128,319.91 for the month of March, 2017.

**PASSED AND ADOPTED** this 12<sup>th</sup> day of April, 2017 by the following vote:

**AYES:**

**NOES:**

**ABSTAIN:**

**ABSENT:**

CALAVERAS COUNTY WATER DISTRICT

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Jeff Davidson, President  
Board of Directors

**ATTEST:**

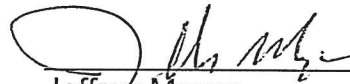
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Mona Walker  
Clerk to the Board

**Calaveras County Water District  
Claim Summary # 541**

Certificate of Administrative Officer

The services listed on the within schedules were actually rendered by the close of the current month. The articles listed on the schedules within and the supporting invoices were actually delivered, or payment therefore is properly due prior to delivery. To the best of my knowledge all claims made are in accordance with adopted Board policies and/or other Board actions and are in compliance with all applicable laws. The claimants named on the within schedules are each entitled to the amount set opposite their respective names.



\_\_\_\_\_  
Jeffrey Meyer  
Director of Administrative Services

1. March 2017 payroll checks issued on 03/15/2017	147,320.61
2. March 2017 payroll checks issued on 03/31/2017	147,863.83
3. March 2017 compensation to Directors	1,335.88
4. Vendor payments for March 1 through 31, 2017	1,515,893.47
5. Other payroll related costs	<u>315,906.12</u>

**Claim Summary Total            \$2,128,319.91**



Calaveras County Water District  
 AP Disbursement Summary  
 March 1-31, 2017

CCWD Operating Expenditures		\$ 1,209,000.44
Expenditures to be reimbursed from other agencies	(A)	-
Expenditures to be reimbursed from grant agreements	(B)	30,210.20
Fiduciary Payments (funds collected prior to expenditure)	(C)	7,803.61
Partial Reimbursement	(D)	122,585.60
Capital R&R Projects	(E)	146,293.62
Capital Outlay	(F)	-
Total Payments		\$ 1,515,893.47

CCVVLD  
 AP Disbursements  
 March 1-31, 2017

Check No.	Vendor/Employee	Transaction Description	Date	Amount
126144	A T & T CALNET2	District Radio Tower - Camp Connell	03/17/2017	384.58
126145	A T & T	Leased Lines 03/17	03/17/2017	65.90
126191	A T & T	Internet Service 02/17 - LC	03/17/2017	82.00
126249	A T & T	Internet Service 03/17	03/24/2017	54.00
126057	A T & T CALNET3	Phone 02/17 - Hunter's	03/09/2017	19.68
126058	A T & T CALNET3	Phone 02/17 - Azalea L/S	03/09/2017	17.76
126059	A T & T CALNET3	Phone 02/17 - CCWHSE	03/09/2017	6.85
126060	A T & T CALNET3	Phone 02/17	03/09/2017	2,103.86
126062	A T & T CALNET3	Phone/Fax 02/17 - JLTC	03/09/2017	124.26
126253	A T & T CALNET3	Phone 03/17 - Hunter's	03/09/2017	20.04
126254	A T & T CALNET3	Phone 03/17 - Azalea L/S	03/24/2017	17.76
126255	A T & T CALNET3	Phone 03/17 - CCWHSE	03/24/2017	7.23
126308	A T & T CALNET3	Phone 03/17	03/24/2017	2,111.77
126309	A T & T CALNET3	Phone/Fax 03/17 - JLTC	03/31/2017	121.79
126063	A T & T MOBILITY	Cell Phone 02/17 - Brown	03/09/2017	80.80
126065	ACWAJPIA	Dental Insurance, Employees 04/17	03/09/2017	6,409.40 (D)
126065	ACWAJPIA	Vision Insurance, Employees 04/17	03/09/2017	1,354.88
126065	ACWAJPIA	EAP, Employees 04/17	03/09/2017	159.80
126065	ACWAJPIA	Dental Insurance, Retirees 04/17	03/09/2017	2,496.48
126065	ACWAJPIA	Vision Insurance, Retirees 04/17	03/09/2017	705.28
126146	ACWAJPIA	Property/Fidelity Program Insurance 04/01/17-04/01/18	03/17/2017	61,199.00
126066	ADP INC	W-2's/Q4 Tax Reporting	03/09/2017	988.51
126310	ADP INC	Payroll Processing	03/31/2017	1,380.75
126147	ADVANCED AUTOMOTIVE & TIRE	Oil/Lube - Vehicle #533	03/17/2017	57.57
126044	AFLAC	Aflac 02/16	03/06/2017	2,235.34 (C)
126067	ALDERSON FENCING	Fence Installation - JL A Tank	03/09/2017	4,177.50
126311	ALHAMBRA DRINKING WATER	Water Cooler - LCWWTP	03/09/2017	39.23
126312	ALHAMBRA DRINKING WATER	Water Cooler - JLWTP	03/31/2017	137.57
126148	ALLIED ELECTRONICS, INC	Relays - JL D Tank/Stock	03/17/2017	169.90
126259	AL'S TIRE SERVICE	Tire (1) - Vehicle #142	03/24/2017	115.00
126069	AMERIPRIDE SERVICES, INC	Uniform Service 02/17	03/09/2017	3,731.06
126045	AMERITRADE TRUST COMPANY	FTJ Deferred Comp 02/17	03/06/2017	700.00 (D)
126313	AMERITRADE TRUST COMPANY	FTJ Deferred Comp 03/17	03/31/2017	1,400.00 (D)
126070	ANGELS HEATING AND AIR CONDITIONING	PC Board/Control Board - DFVCTO Collections Trailer Heating Unit	03/09/2017	669.33
EFT	ANTHEM-BLUE CROSS	Health Insurance, Employees 03/17	03/01/2017	112,482.81 (D)
EFT	ANTHEM-BLUE CROSS	Health Insurance, Retirees 03/17	03/01/2017	40,182.26
126071	APPLEGATE, JOHN	Safety Boot Reimbursement	03/09/2017	183.12
126150	AQUA TECH COMPANY	Inspect/Clean Water Storage Tanks - Sheep Ranch	03/17/2017	2,900.00
126260	ARNOLD AUTO SUPPLY	Alternator - Vehicle #128	03/24/2017	448.99
126260	ARNOLD AUTO SUPPLY	Rags/Toggle Switch - Vehicle #143	03/24/2017	27.85
126260	ARNOLD AUTO SUPPLY	Plow Whiskers/Wiper Motor & Blades/Silicone/Sealant - Vehicle #502	03/24/2017	173.92

AP Disbursements  
March 1-31, 2017

Check No.	Vendor/Employee	Transaction Description	Date	Amount
126260	ARNOLD AUTO SUPPLY	Alternator - Vehicle #530	03/24/2017	164.08
126260	ARNOLD AUTO SUPPLY	Oil/Filter - Vehicle #534	03/24/2017	34.60
126260	ARNOLD AUTO SUPPLY	Oil/Filter - Vehicle #554	03/24/2017	45.31
126260	ARNOLD AUTO SUPPLY	Fuel Cleaner - Vehicle #592	03/24/2017	12.85
126260	ARNOLD AUTO SUPPLY	Chains - Vehicle #716	03/24/2017	75.06
126260	ARNOLD AUTO SUPPLY	Ratchet/Hex Key Set/Hooks/Lube/Paint/Rope - White Pines Barn	03/24/2017	112.00
126260	ARNOLD AUTO SUPPLY	Clamps/Socket/Light/Tank - EP Lakemont Generator	03/24/2017	54.67
126260	ARNOLD AUTO SUPPLY	Batteries/Brake Cleaner/Clamps/Fittings/Hose - EP Snow Cat	03/24/2017	325.45
126260	ARNOLD AUTO SUPPLY	Battery - FM Lakeside Generator	03/24/2017	132.50
126260	ARNOLD AUTO SUPPLY	Tubing/Fittings/Air Filter/Coupler/Nut - FMWWTP	03/24/2017	150.98
126260	ARNOLD AUTO SUPPLY	Secondary Fuel Water/Oil Filter/Oil - EP Big Trees Generator	03/24/2017	145.75
126260	ARNOLD AUTO SUPPLY	Impact Wrench/Driver/Allen Wrench Set - EP Shop	03/24/2017	288.50
126260	ARNOLD AUTO SUPPLY	Silicone/Socket - Avery P/S	03/24/2017	31.08
126260	ARNOLD AUTO SUPPLY	Spark Plug - EP Wacker	03/24/2017	2.13
126260	ARNOLD AUTO SUPPLY	Power Service Diesel/Antifreeze - District Wide Generators	03/24/2017	658.43
126260	ARNOLD AUTO SUPPLY	Soap/Rags - Hunter's WTP	03/24/2017	23.56
126072	ARNOLD TIRE AND AUTO CARE	Fiat Repair - Vehicle #534	03/09/2017	15.00
126151	B & C UPHOLSTERY	Reupholster Bench Seat - Vehicle #612	03/17/2017	494.25
126152	BIG TREES MARKET	Bottled Water - EP Emergency Repair	03/17/2017	150.25
126261	BIG VALLEY FORD LINCOLN MERCURY	Injector Control Module - Vehicle #132	03/24/2017	777.56
126261	BIG VALLEY FORD LINCOLN MERCURY	U-Joints - Vehicle #612	03/24/2017	98.07
126077	BURKE, TIFFANY	Re-Key Doors/Ignition - Vehicle #614	03/24/2017	761.37
126263	BURKE, WILLIAMS, & SORENSON, LLP	Post Office Travel Reimbursement 02/17	03/09/2017	40.66
126263	BURKE, WILLIAMS, & SORENSON, LLP	AD604 Professional Services	03/24/2017	46.75 (C)
126078	BURKE, ZACHARY	RAD 2006-01 Professional Services 02/17	03/24/2017	465.00 (C)
126262	BURKE, ZACHARY	Winter Weather Gear Reimbursement	03/09/2017	200.00
126154	BURLINGAME ENGINEERS, INC	Water Review Class Travel Reimbursement	03/24/2017	357.26
126314	CABELA'S	Discs/Check Valves/Gaskets - AWWTP RAS Pumps	03/17/2017	4,568.79
126314	CABELA'S	Winter Weather Gear - Cuneo	03/31/2017	213.95 (D)
126079	CALAVERAS COUNTY ELECTIONS	Winter Weather Gear - Duburg	03/31/2017	213.96 (D)
126080	CALAVERAS CNTY ENVIRON HEALTH	November 2016 General Election Fee - Division 1	03/09/2017	35.00
126081	CALAVERAS FIRST COMPANY INC	CUPA Oversight State Surcharge Per Facility - WPWWTP	03/09/2017	365.65
126155	CALAVERAS FIRST COMPANY INC	Public Notice - RFP for EP/Reach 1 Water Transmission Pipeline D	03/09/2017	58.00
126156	CALAVERAS LUMBER CO INC	Subscription Renewal	03/17/2017	26.47
126156	CALAVERAS LUMBER CO INC	Bungee Cords - Backhoe	03/17/2017	124.99
126156	CALAVERAS LUMBER CO INC	Propane Torch/Hose/Wrench/Screwdriver Set/Bulbs - FMWWTP	03/17/2017	151.45
126156	CALAVERAS LUMBER CO INC	Staple Gun/Rope/Tie Downs/Supplies - Construction Crew	03/17/2017	178.40
126156	CALAVERAS LUMBER CO INC	Hammer Drive/Nuts/Screws/Lumber - Collections Trailer Work Bench	03/17/2017	220.08
126156	CALAVERAS LUMBER CO INC	Pipe/Fittings/Chlorine Tablets/Bulbs - DFNCTO WWTP	03/17/2017	64.33
126157	CALIFORNIA WASTE RECOVERY SYSTEMS	Propane Torch - Vehicle #535	03/17/2017	1,045.58
		Refuse Disposal - District Wide	03/17/2017	

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126082	CALTEL	Phone 02/17	03/09/2017	1,268.66
126158	CAMPORA	Propane - Wallace	03/17/2017	6.61
126315	CARBON COPY INC	Copies/Copier Maintenance	03/31/2017	250.99
EFT	CARDMEMBER SERVICES	ACWA Spring Conference Registration - Thomas	03/17/2017	655.00
EFT	CARDMEMBER SERVICES	Mountain Counties Meeting Registration - Underhill	03/17/2017	30.00
EFT	CARDMEMBER SERVICES	ACWA Fall Conference Refund - Ratterman	03/17/2017	(395.40)
EFT	CARDMEMBER SERVICES	ACWA Conference, Washington DC Registration - Eggerton	03/17/2017	645.00
EFT	CARDMEMBER SERVICES	ACWA Spring Conference Registration - Eggerton	03/17/2017	555.00
EFT	CARDMEMBER SERVICES	Mountain Counties Meeting Registration - Eggerton	03/17/2017	30.00
EFT	CARDMEMBER SERVICES	ACWA/Federal Affairs Committee Meeting Parking - Eggerton	03/17/2017	9.00
EFT	CARDMEMBER SERVICES	Little Hoover Commission Meeting Parking - Eggerton	03/17/2017	10.50
EFT	CARDMEMBER SERVICES	ACWA State Legislative Committee Meeting Parking - Eggerton	03/17/2017	9.00
EFT	CARDMEMBER SERVICES	Mountain Counties Meeting Registration - Meyer	03/17/2017	30.00
EFT	CARDMEMBER SERVICES	Notary Forms - Walker	03/17/2017	17.90
EFT	CARDMEMBER SERVICES	Microsoft Publisher Software - Metzger	03/17/2017	109.99
EFT	CARDMEMBER SERVICES	ACWA Fall Conference Speaker Refund - Metzger	03/17/2017	(267.50)
EFT	CARDMEMBER SERVICES	ACWA Legislative Symposium Registration - Metzger	03/17/2017	245.00
EFT	CARDMEMBER SERVICES	IPMA Conference Registration/Travel Expenses - Howarth	03/17/2017	730.65
EFT	CARDMEMBER SERVICES	CPSWQ Review Course/Travel Expenses - Gravette/Turner	03/17/2017	918.04
EFT	CARDMEMBER SERVICES	Front Desk Safety & Security Training - Customer Service	03/17/2017	149.00
EFT	CARDMEMBER SERVICES	CESSWI Application - Turner	03/17/2017	231.00
EFT	CARDMEMBER SERVICES	Internet Service - Hunter's	03/17/2017	91.51
EFT	CARDMEMBER SERVICES	Internet Back-Up - OP HQ	03/17/2017	29.90
EFT	CARDMEMBER SERVICES	Meeting Supplies	03/17/2017	52.07
EFT	CARDMEMBER SERVICES	District Wide E-mail Service	03/17/2017	451.40
EFT	CARDMEMBER SERVICES	Cell Booster - JLWTP	03/17/2017	170.81
EFT	CARDMEMBER SERVICES	Water Conservation Supplies	03/17/2017	243.63
EFT	CARDMEMBER SERVICES	Winter Weather Gear - Jarnagin	03/17/2017	279.98
EFT	CARDMEMBER SERVICES	Jackets - Cal-Fire	03/17/2017	2,656.50
126160	CARSON HILL ROCK PRODUCTS	Drain Rock - CCWWTP Pond 6 Spillway	03/17/2017	967.93
126160	CARSON HILL ROCK PRODUCTS	Drain Rock - CCWWTP Pond 6 Road Repair	03/17/2017	4,421.75
126160	CARSON HILL ROCK PRODUCTS	Asphalt Grindings - DFN/CTO WWTP Road Repair	03/17/2017	1,224.10
126160	CARSON HILL ROCK PRODUCTS	Road Base - CCWHSE	03/17/2017	777.78
126160	CARSON HILL ROCK PRODUCTS	3/4 Class II AB/Drain Rock - LCWHSE	03/17/2017	1,293.97
126264	CARSON HILL ROCK PRODUCTS	1 1/2 AB - CC Moccasin L/S	03/24/2017	180.41
126264	CARSON HILL ROCK PRODUCTS	Drain Rock/Rip Rap/Equip Rental/Hauling - Reach 3A Emergency Line	03/24/2017	5,869.58 (E)
126161	CDK SUPPLY	Conduit/Struts/Clamps/Nuts/Washers/Bolts - AWWTP	03/17/2017	285.53
126161	CDK SUPPLY	Splice Blocks/Anti-Oxidant - CC L/S #22	03/17/2017	61.95
126162	CED CREDIT	Cold Weather Ballasts/Lamps - White Pines Barn	03/17/2017	331.15
126162	CED CREDIT	Power Blocks - CC L/S #21	03/17/2017	101.03
126162	CED CREDIT	Lamps/Ballasts - AWWTP	03/17/2017	338.37

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126163	CENTRAL CALIFORNIA GENERATOR	Breaker/Terminal Strips - Saddle Creek Generator #2	03/17/2017	154.46
126163	CENTRAL CALIFORNIA GENERATOR	Diagnose/Labor/Governor/Mag Pick-Up - G04 Portable Generator	03/17/2017	2,199.99
126164	CHEMTRAC INC	Drive Motor/Yoke Pin - JLWTP	03/17/2017	815.00
126317	CHEVRON AND TEXACO	Fuel Feb/Mar 2017	03/31/2017	1,689.73
126165	CISCO FIRE SPRINKLER, INC.	Annual Fire Extinguisher Inspection/Testing	03/17/2017	1,680.00
126086	CITY OF ANGELS	Sewer Service 02/17 - Six Mile Village	03/09/2017	4,695.23
126166	CLARK PEST CONTROL	Pest Control Jan/Feb 2017 - JLWTP	03/17/2017	282.00
126166	CLARK PEST CONTROL	Pest Control Jan-Mar 2017 - LCWWTP	03/17/2017	441.00
126266	CLARK PEST CONTROL	Pest Control 01/17 - Southworth Spray Fields	03/24/2017	84.00
126266	CLARK PEST CONTROL	Pest Control Jan/Feb 2017 - Wallace WTP	03/24/2017	240.00
126266	CLARK PEST CONTROL	Pest Control 03/17 - AWWTP	03/24/2017	87.00
126318	CLARK PEST CONTROL	Pest Control 03/17 - FMWWTP	03/31/2017	87.00
126167	CLUTCH & BRAKE EXCHANGE, INC.	Impact Wrench - JL Shop	03/17/2017	272.08
126168	COLUMBIA COMMUNICATIONS	Programming Cables - Fleet Radios	03/17/2017	119.25
126088	COMCAST	Internet Service 03/17 - DF VCTO	03/09/2017	75.93
126091	COMCAST	Internet Service 03/17 - OP HQ	03/09/2017	85.93
126267	COMCAST	Internet Service Mar/Apr 2017 - JLTC	03/24/2017	181.36
126090	COMCAST	Internet Service Mar/Apr 2017 - LCWWTP	03/09/2017	171.86
126319	COMCAST	Internet Service Mar/Apr 2017 - JLWTP	03/31/2017	171.86
126092	CONDOR EARTH TECHNOLOGIES INC	Groundwater Monitoring Well Reports FY 2016-17	03/09/2017	9,963.00
126320	CONETH SOLUTIONS INC	IT Infrastructure Support Services - Routers	03/31/2017	521.81
126270	CONTRACTORS EQUIPMENT SERVICE	Repair/Service - LCWHSE Tamper	03/24/2017	439.48
126271	CPPA	Power 02/17	03/24/2017	99,095.60
126321	CPUD	Water Service - 423 E St Charles	03/31/2017	613.48 (D)
126094	CRANK, MICHAEL	SWRCB Water Treatment Plant Op, Grade T2 Exam Reimbursement	03/09/2017	65.00
126322	CRANK, MICHAEL	Winter Weather Gear Reimbursement	03/31/2017	200.00
126169	CUMMINS PACIFIC	Frequency Detection Module - EP Sawmill Generator	03/17/2017	143.26
126095	CWEA	Membership Renewal - Harris	03/09/2017	172.00
126095	CWEA	Membership Renewal - Knick	03/09/2017	172.00
126170	CWEA	Collection System Maintenance, Grade 1 Cert Renewal - Knick	03/17/2017	83.00
126274	CWEA	Membership Renewal - Crank	03/24/2017	172.00
126274	CWEA	Membership Renewal - Burkhardt	03/24/2017	172.00
126274	CWEA	Electrical/Instrumentation, Grade 4 Cert Renewal - Tarap	03/24/2017	98.00
126324	CWEA	Membership Renewal - Tarap	03/31/2017	172.00
126324	CWEA	Collection System Maintenance, Grade 3 Cert Renewal - Filippini	03/31/2017	93.00
126096	DATAPROSE	UB Statement Processing 02/17	03/09/2017	3,782.80
126097	DAVIDSON, JEFF	Travel 02/17	03/09/2017	23.54
126275	DAVIDSON, JEFF	Travel 03/17	03/24/2017	59.92
126098	DOWNEY BRAND ATTORNEYS LLP	Legal Services 01/17	03/09/2017	12,714.26
126326	DOWNEY BRAND ATTORNEYS LLP	Legal Services 02/17	03/31/2017	15,129.50
126171	DUDEK	Cultural/Biological Surveys - LCWW Master Plan	03/17/2017	1,405.04

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126099	EBBETTS PASS GAS SERVICE	Fuel 02/17	03/09/2017	3,535.71
126172	EBBETTS PASS LUMBER	Duct Tape/Supplies/Screwdriver - Hunter's WTP	03/17/2017	23.06
126172	EBBETTS PASS LUMBER	Gloves/Shovels - Electricians	03/17/2017	65.39
126172	EBBETTS PASS LUMBER	Screws - White Pines Barn	03/17/2017	11.79
126172	EBBETTS PASS LUMBER	Washers/Batteries/Bolts - AWWTP Weather Station	03/17/2017	46.35
126173	ECORP CONSULTING, INC	Water Rights Support 01/17	03/17/2017	2,530.00
126327	ECORP CONSULTING, INC	White Pines Gaging Project Task	03/31/2017	6,220.00
126100	EGGERTON, DAVE	ACWA Washington Travel Reimbursement	03/09/2017	2,078.84
126276	EGGERTON, DAVE	ACWA Spring Conference Lodging Reimbursement	03/24/2017	769.28
126174	ESRI	AcrGIS Annual Maintenance 08/01/16-07/31/17	03/17/2017	1,682.50
126101	EUROFINS EATON ANALYTICAL, INC	Waste Water Testing 02/17	03/09/2017	3,522.00
126101	EUROFINS EATON ANALYTICAL, INC	Water Testing 02/17	03/09/2017	136.00
126175	EUROFINS EATON ANALYTICAL, INC	Background Testing for Discharging - CC Little John Creek	03/17/2017	3,743.00
126277	EUROFINS EATON ANALYTICAL, INC	Spill Sampling - EP Mountain Retreat	03/24/2017	132.00
126277	EUROFINS EATON ANALYTICAL, INC	Tie-In Sampling - EP Reach 3A	03/24/2017	64.00 (E)
126277	EUROFINS EATON ANALYTICAL, INC	Boil Alert Sampling - EP Meadowmont	03/24/2017	120.00 (E)
126277	EUROFINS EATON ANALYTICAL, INC	Effluent Discharge Sampling - CCWWTP	03/24/2017	1,802.00
126277	EUROFINS EATON ANALYTICAL, INC	Waste Water Testing 03/17	03/24/2017	2,129.00
126277	EUROFINS EATON ANALYTICAL, INC	Water Testing 03/17	03/24/2017	3,151.00
126176	FERGUSON ENTERPRISES, INC	ClaVal Pump Control Valves (3) - EP Sawmill	03/17/2017	17,809.02
126176	FERGUSON ENTERPRISES, INC	Sawzall Blade/Pipe Wrench - WP	03/17/2017	51.94
126278	FERGUSON ENTERPRISES, INC	Pump/Motor Assembly - SRWTP	03/24/2017	3,288.86
126103	FOOTHILL PORTABLE TOILETS	Portable Toilet Rental 02/17 - Wallace	03/09/2017	82.00
126177	FOOTHILL SIERRA PEST CONTROL	Annual Winter Pest/Wweed Control - JLWTP	03/17/2017	400.00
126177	FOOTHILL SIERRA PEST CONTROL	Annual Winter Pest/Wweed Control - LCWWTP	03/17/2017	2,000.00
126178	GAMBI DISPOSAL INC.	Bio-Solids Removal - AWWTP	03/17/2017	665.00
126179	GARCIA AND ASSOCIATES	Preliminary Archaeological Investigation - JLWTP Pre-Treatment Facility	03/17/2017	220.50 (E)
126180	GCR TIRES & SERVICE	Tires (6) - Vehicle #611	03/17/2017	904.97
126279	GENERAL AIR COMPRESSORS	Drain Valves - FMWWTP	03/24/2017	231.94
126280	GEORGE REED INC	3/8 Cut Back - CCWHSE Stock	03/24/2017	882.45
126104	GERKENSMEYER, KELLY	Winter Weather Gear Reimbursement	03/09/2017	200.00
126181	GOVCONNECTION, INC	USB Speakers - SCADA Computers	03/17/2017	112.79
126328	GOVCONNECTION, INC	Laserjet Fuser/SD Card - OP HQ	03/31/2017	450.00
126328	GOVCONNECTION, INC	Document Scanner - Hunter's WTP	03/31/2017	306.33
126182	GRAINGER	Screwdriver Set/Fuse Kit - Vehicle #530	03/17/2017	952.75
126182	GRAINGER	Wire Strippers - Vehicle #551	03/17/2017	11.67
126182	GRAINGER	Flow Meter/Buckets - Wallace WTP	03/17/2017	260.65
126182	GRAINGER	Adapters/Couplers/Brushes/Hex Key Set/Ball Valves/Buckets - JLWTP	03/17/2017	783.02
126182	GRAINGER	Voltage Monitor/Socket Relay - CC L/S #18	03/17/2017	76.68
126182	GRAINGER	Power Blocks - CC L/S #22	03/17/2017	84.60
126182	GRAINGER	Weatherlink Software - AWWTP Weather Station	03/17/2017	411.68



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126183	HACH COMPANY	Ice Pic Annual Maint/Stabical/Reagent Sets/Brushes - CCWTP	03/17/2017	888.87
126183	HACH COMPANY	Sensor Cap - CCWWTP	03/17/2017	129.77
126281	HACH COMPANY	Ice Pic/Pan Solution/Turbidity Sensor Repair - JLWTP	03/24/2017	1,768.48
126281	HACH COMPANY	Reagent Set - Hunter's WTP	03/24/2017	414.90
126281	HACH COMPANY	Reagent Set/Probe - WPWTP	03/24/2017	471.33
126281	HACH COMPANY	Probe - WPWWTP	03/24/2017	288.96
126184	HD SUPPLY WATERWORKS LTD	Meters (50) - LCWHSE	03/17/2017	6,917.63
126185	HERD'S MACHINE & WELD SHOP	Fittings/Elbows/Pipe/Hot Roll Round/Labor - EP Shop	03/17/2017	1,393.20
EFT	HIGHMARK CAPITAL	Post Employment Health Benefits Funding	03/13/2017	612,008.00
126106	HOBGOODS CLEANING	Janitorial Services 02/17	03/09/2017	1,985.00
126282	HOBGOODS CLEANING	Janitorial Services 03/17	03/24/2017	1,985.00
126186	HOLT OF CALIFORNIA	Battery - CC Water Pump	03/17/2017	281.70
126186	HOLT OF CALIFORNIA	Hoses/Clamps/Pushrods - Vehicle #126	03/17/2017	149.99
126283	HOLT OF CALIFORNIA	Filter/Elements - Backhoe	03/24/2017	149.15
126187	HOPKINS TECH. PRODUCTS	Polymer Feed System - Hunter's WTP	03/17/2017	4,765.87
126284	HOPKINS TECH. PRODUCTS	Dosing Pump - CCWTP	03/24/2017	1,363.22
126107	HUGHESNET	Internet Service - FMWWTP	03/09/2017	82.23
126188	HUGHESNET	Internet Service - AWWTP	03/17/2017	80.94
126189	HUNT & SONS, INC	Fuel - W/P	03/17/2017	971.05
126285	HUNT & SONS, INC	Fuel - Copper	03/17/2017	3,028.85
126194	IAPMO	Membership Renewal - Tanaka	03/17/2017	200.00
126195	INDUSTRIAL ELECTRICAL CO	Pump - 6 Mile L/S	03/17/2017	5,356.28
126286	INDUSTRIAL ELECTRICAL CO	Pump - CC L/S #13	03/24/2017	4,643.18
126286	INDUSTRIAL ELECTRICAL CO	Pump Rebuild - FMWWTP DAF	03/24/2017	3,412.98
126109	IRON MOUNTAIN	Document Destruction 02/17	03/09/2017	70.92
126196	JAMESVILLE OFFICE FURNITURE	Chairs/Locking Cabinet - OP HQ	03/17/2017	2,081.65
126198	KIMBALL MIDWEST	Generator Hoses - EP	03/17/2017	168.65
126110	KW EMERSON, INC	Construction Agreement - Big Trees Tank Replacement Project	03/09/2017	30,210.20 (B)
126199	LAKE TULLOCH TRUE VALUE	Pipe/Supplies/Rope/Lumber/Rain Gear - CC	03/17/2017	439.19
126200	LIEBERT CASSIDY WHITMORE	Legal Services 01/17	03/17/2017	5,070.00
126330	LIEBERT CASSIDY WHITMORE	Legal Services 02/17	03/31/2017	6,168.25
126288	LOLLAR, STACEY	Meeting Supplies Reimbursement	03/24/2017	309.12
126288	LOLLAR, STACEY	LCW Conference Travel Reimbursement	03/24/2017	981.00
126201	LOWE'S	Drill Bits/Safety Glasses - Vehicle #134	03/17/2017	48.39
126201	LOWE'S	Tool Box/Totes/Buckets - Vehicle #713	03/17/2017	371.62
126201	LOWE'S	Fire Extinguishers (4) - Vehicle #531/612/Bobcat/Backhoe	03/17/2017	81.40
126201	LOWE'S	Lock Box - Collections Trailer	03/17/2017	20.82
126201	LOWE'S	Flashlight/Post Hole Digger/Water - WP	03/17/2017	90.27
126202	LUNSFORD, SCOTT	Safety Boot Reimbursement	03/17/2017	172.15
126111	MAIL FINANCE	Mail Maintenance Lease Agreement 12/16/16-03/15/17	03/09/2017	983.27
126289	MANTECA TRUCK ACCESSORIES	Bed Rack - Vehicle #614	03/24/2017	891.98

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126289	MANTECA TRUCK ACCESSORIES	Bed Rack - Vehicle #712	03/24/2017	891.98
126289	MANTECA TRUCK ACCESSORIES	Cab Rack - Vehicle #716	03/24/2017	541.25
126112	MARTIN, PETER	ACWA Sacramento Travel Reimbursement	03/09/2017	107.34
126290	MARTIN, PETER	Stanislaus Rights Meeting Travel Reimbursement	03/24/2017	61.86
126203	MATHESON TRI-GAS, INC	Liquid Oxygen - JLWTP	03/17/2017	3,583.54
126113	METZGER, JOEL	SWRCB Meeting, Sacramento Travel Reimbursement 02/17	03/09/2017	90.62
126204	METZGER, JOEL	SWRCB Meeting, Sacramento Travel Reimbursement 11/16	03/17/2017	72.24
126204	METZGER, JOEL	AWA/T-Stan Meetings 12/16	03/17/2017	56.18
126204	METZGER, JOEL	DAC Committee Meeting/Blagen Flood Meeting 01/17	03/17/2017	39.06
126204	METZGER, JOEL	EPPOC/Moose Lodge/T-Stan Meetings 02/17	03/17/2017	56.71
126291	METZGER, JOEL	Bigelow/Berryhill Meeting, Sacramento Travel Reimbursement 03/17	03/24/2017	42.56
126114	MEYER, JEFFREY	PARS Meeting Travel Reimbursement	03/09/2017	37.45
126114	MEYER, JEFFREY	Mountain Counties Meeting Travel Reimbursement	03/09/2017	46.01
126205	MODESTO WELDING PRODUCTS	Cylinder Rental 02/17	03/17/2017	99.00
126206	MOTHER LODGE ANSWERING SERVICE	Answering Service 02/17	03/17/2017	496.48
126115	MOUNTAIN OASIS WATER	Water/Supplies 02/17	03/09/2017	110.70
126292	MUNICIPAL MAINTENANCE EQUIP	Wireless Remote - Vehicle #135	03/24/2017	1,545.14
126048	MUTUAL OF OMAHA	Life/AD&D/LTD Insurance 03/17	03/06/2017	5,792.71
126332	MUTUAL OF OMAHA	Life/AD&D/LTD Insurance 04/17	03/31/2017	5,908.18
126116	NEOFUNDS BY NEOPOST	Postage 02/17	03/09/2017	1,000.00
126117	NEOPOST USA INC	Maintenance Agreement - Folder/Sorter 02/17	03/09/2017	260.88
126207	NEW YORK LIFE	Life Insurance 03/17	03/17/2017	1,290.16 (C)
126118	NORDAHL LAND SURVEYING	Topographic Location Survey - EP Reach 1 Project	03/09/2017	3,000.00 (E)
126333	NORDAHL LAND SURVEYING	Land Surveying Services - EP Reach 3A Pipe Replacement Project	03/31/2017	2,400.00 (E)
126208	NORTHSTAR CHEMICAL	Sodium Hydroxide - LCWWTP	03/17/2017	1,389.96
126208	NORTHSTAR CHEMICAL	Sodium Hypochlorite - WPWTP	03/17/2017	296.82
126208	NORTHSTAR CHEMICAL	Sodium Hypochlorite - JLWTP	03/17/2017	1,713.05
126209	NTU TECHNOLOGIES INC	Ferric Sulfate - CCRCP	03/17/2017	8,984.50
126210	O'CONNELL & DEMPSEY, LLC	Consulting Services Federal Legislation Advocacy 02/17	03/17/2017	4,000.00
126197	OFFICES OF JOHN S. MILLS	Consulting Services Strategic Water Resource Planning	03/17/2017	10,193.75
126211	O'REILLY AUTO PARTS	Wiper Blades - Vehicle #610	03/17/2017	38.65
126211	O'REILLY AUTO PARTS	Radio Toggle Switches - Vehicle #718/719	03/17/2017	21.41
126211	O'REILLY AUTO PARTS	Adapters/Plugs/Socket Sets - JL Shop	03/17/2017	45.58
126211	O'REILLY AUTO PARTS	Battery Charger/Jumper Cables - Construction Crew	03/17/2017	150.13
126213	P G & E	Power 02/17	03/17/2017	4,137.42
126335	P G & E	Power 03/17	03/31/2017	3,316.40
126214	PACE SUPPLY CORP	Seal Kit - JLWTP Effluent Pump	03/17/2017	463.33
126215	PACIFIC SOUTHWEST IRRIGATION	Couplers/Tees/Flanges/Adapters/Valves - CCWHSE	03/17/2017	2,764.35
126216	PAYMENTUS GROUP INC	Payment Processing 02/17	03/17/2017	4,371.00
126217	PETERSON BRUSTAD INC	Engineering Services - Jenny Lind Water Master Plan Update	03/17/2017	3,629.85
126336	PETERSON BRUSTAD INC	Engineering/Design Services - JLWTP Pre-Treatment Facility Project	03/31/2017	133,644.54 (E)



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126218	POLLARDWATER	Dechlorination Tablets/Pitot Gauges - LCWHSE	03/17/2017	1,022.81
126219	POTRERO HILLS LANDFILL	Bio-Solids Disposal - AWWTP	03/17/2017	763.56
126125	RATTERMAN, SCOTT	Travel 02/17	03/09/2017	37.49
126294	RATTERMAN, SCOTT	Travel 03/17	03/24/2017	94.16
126126	RELEVANT SOLUTIONS LLC	Advanced Support Contract - PLC Programming/Software	03/09/2017	6,150.00
126220	REXEL	Relays (8) - Electricians Stock	03/17/2017	2,798.59
126221	RON COOPER	Excavator Rental - EP Reach 3A Emergency Repair	03/17/2017	475.00 (E)
126295	ROWLEYS SNOW REMOVAL	Snow Removal 02/17 - Big Trees	03/24/2017	630.00
126222	SABRE BACKFLOW INC.	Backflow Test Kit/Accessories	03/17/2017	840.46
126223	SAFE T LITE	Vehicle ID Numbers	03/17/2017	51.48
126224	SAM BERRI TOWING	Lock Service - Vehicle #124	03/17/2017	150.00
126337	SAN ANDREAS SANITARY DIST	Sewer Service Feb/Mar 2017 - 423 E St Charles Street	03/31/2017	552.00 (D)
126128	SAN ANDREAS SANITARY DIST	Sewer Service Feb/Mar 2017 - Hwy 49 Property	03/09/2017	1,380.00
126129	SCHNEIDER ELECTRIC USA, INC.	PLC Repair - Lift Stations	03/09/2017	1,323.44
126049	SEIU LOCAL 1021	Union Dues 02/17	03/06/2017	2,746.36 (C)
126296	SEMS TECHNOLOGIES, LLC	Software/Webinar Renewal 2017	03/24/2017	3,995.00
126297	SENDERS MARKET INC	Utility Knife/Fasteners - Vehicle #126	03/24/2017	18.33
126297	SENDERS MARKET INC	Flashlight - Vehicle #606	03/24/2017	32.17
126297	SENDERS MARKET INC	Lumber/Pipe Fittings - JL Cleanwell	03/24/2017	40.82
126297	SENDERS MARKET INC	Grout/Tarps - Collections Crew	03/24/2017	73.31
126297	SENDERS MARKET INC	Halogen Bulbs - OP HQ	03/24/2017	25.72
126297	SENDERS MARKET INC	Gas Cans/Supplies/Fittings/Spray Paint - LCWHSE	03/24/2017	136.14
126297	SENDERS MARKET INC	Chain - LCWWTP	03/24/2017	4.98
126297	SENDERS MARKET INC	Pest Supplies/Cleaner/Steel Wool - Saddle Creek L/S #2	03/24/2017	15.71
126297	SENDERS MARKET INC	Pipe/Elbows/Adapters/Fittings/Cement/Flux - Wallace WTP	03/24/2017	87.20
126297	SENDERS MARKET INC	Lock/Key - JL Shop	03/24/2017	24.09
126225	SIERRA CHEMICAL CO	Sodium Hypochlorite - Wallace/Southworth WWTP	03/17/2017	860.28
126226	SIERRA JANITORIAL SUPPLY	Trash Can Liners/Paper Towels - OP HQ	03/17/2017	232.08
126227	SIGNAL SERVICE	Security Fobs (10) - OP HQ	03/17/2017	107.50
126338	SIGNAL SERVICE	Facilities Alarm Service - 02/17	03/31/2017	1,721.70
126229	SKRBINA, CORINNE	Safety Class Travel Reimbursement	03/17/2017	135.35
126230	SOCIETY FOR HUMAN RESOURCES MNGMT	Membership Renewal - Lollar	03/17/2017	199.00
126231	STAPLES CREDIT PLAN	Office Supplies	03/17/2017	3,515.45
126132	STRANGE, TERRY	Travel 02/17	03/09/2017	118.77
126298	STRANGE, TERRY	Travel 03/17	03/24/2017	118.77
126299	SWRCB	Water Distribution Operator, Grade D4 Exam Application - Burkhardt	03/24/2017	130.00
126339	SWRCB	Drinking Water Distribution Operator, Grade D3 Cert Renewal - Scheidt	03/31/2017	120.00
126232	TELENATIONAL COMMUNICATIONS	Internet Service 02/17 - Wallace	03/17/2017	41.94
126133	THOMAS, RUSS	Travel 02/17	03/09/2017	69.02
126300	THOMAS, RUSS	Travel 03/17	03/24/2017	22.47
126233	THUNDER MOUNTAIN ENTERPRISES	SWPPP Review - EP Reach 3A Pipeline Replacement Project	03/17/2017	500.00 (E)

AP Disbursements  
March 1-31, 2017

Check No.	Vendor/Employee	Transaction Description	Date	Amount
126234	TIFCO INDUSTRIES	Nuts/Bolts/Terminals/Clamps/Tubing Cutter/Tubing Bender - JL Shop	03/17/2017	210.13
126301	TIFCO INDUSTRIES	Screwdriver Set (2) - EP Shop	03/24/2017	150.04
126235	TRACTOR SUPPLY CO	Chain/Clevis - Vehicle #128A	03/17/2017	44.97
126236	TREATS GENERAL STORE INC	Meeting Supplies	03/17/2017	14.16
126236	TREATS GENERAL STORE INC	Pest Supplies - OP HQ	03/17/2017	16.92
126135	TURNER, DOUGLAS	Winter Weather Gear Reimbursement	03/09/2017	200.00
126136	UNDERHILL, BERTHA	Travel 02/17	03/09/2017	134.82
126302	UNDERHILL, BERTHA	Travel 03/17	03/24/2017	203.30
126237	UNION PUBLIC UTILITY DISTRICT	Water Service 02/17 - Vallecito	03/17/2017	171.00
126137	UNITED PARCEL SERVICE	Shipping 02/17	03/09/2017	136.79
126341	UNITED PARCEL SERVICE	Shipping 03/17	03/31/2017	59.89
126239	UNITED RENTALS NORTHWEST, INC	Lift Rental - WP Barn Lighting	03/17/2017	1,155.78
126240	UNIVAR USA INC	Chemicals	03/17/2017	7,946.00
126304	US BANK CORP TRUST SVCS	Fiscal Agent Fees - New Hogan/La Contenta AD604	03/24/2017	1,020.00 (C)
126241	USA BLUE BOOK	Pump/Hose/Adapter/Switch - JLVWTP	03/17/2017	1,091.25
126241	USA BLUE BOOK	Chart Paper - JL Huckleberry L/S	03/17/2017	190.66
126241	USA BLUE BOOK	Reagents/Chemical Feed Tubing/LMI Repair Kit - SRWTP	03/17/2017	593.51
126241	USA BLUE BOOK	Pump Repair Kit - AWWTP Beltpress	03/17/2017	180.13
126241	USA BLUE BOOK	Gloves/Sludge Judge/Timer/Dippers - AWWTP	03/17/2017	424.56
126241	USA BLUE BOOK	Sulfuric Acid/Probe Cap - CCWWWTP	03/17/2017	187.48
126241	USA BLUE BOOK	Drum Pump - Wallace WTP	03/17/2017	792.16
126241	USA BLUE BOOK	Pumps - CCWWWTP Pond #6	03/17/2017	415.44
126305	USA BLUE BOOK	Agitator/Injection Valves - CCWTP	03/24/2017	911.29
EFT	USDA-RURAL DEVELOPMENT	EP Reach 3A Pipeline Replacement Project Loan Payment	03/01/2017	15,896.17
126139	VERIZON WIRELESS	Cell Phones 02/17	03/09/2017	1,476.24
126242	VERIZON WIRELESS	Cell Phones 03/17	03/17/2017	1,372.38
126140	VOLCANO TELEPHONE COMPANY	Phone 02/17 - WPWWWTP	03/09/2017	401.00
126243	WAGEWORKS	FSA Admin 01/17	03/17/2017	195.00
126244	WECO INDUSTRIES	Screws - Vehicle #133	03/17/2017	37.70
126245	WELLS FARGO FINANCIAL LEASING	Copier Lease (2)	03/17/2017	589.87
126246	WEST POINT LUMBER INC	Oil/Distilled Water/Buckets/Bags - WP	03/17/2017	55.20
126246	WEST POINT LUMBER INC	Fittings - WP Septic Tank Repair	03/17/2017	23.09
EFT	WEX BANK	Fuel 02/17	03/17/2017	10,198.55
126247	WILLE ELECTRIC SUPPLY CO INC	Pressure Switches - JLVWTP	03/17/2017	295.22
126247	WILLE ELECTRIC SUPPLY CO INC	Batteries - JL A Tank	03/17/2017	39.98
126247	WILLE ELECTRIC SUPPLY CO INC	Disconnect Switches - WPWWWTP	03/17/2017	153.19
126342	WOMACK, LISA	Damage Claim Reimbursement	03/31/2017	1,460.31
126142	WQI	Waste Water Review Class, Grade 1 - Applegate	03/09/2017	700.00
126306	WQI	Water Treatment Review Class, Grade 3 - Burke	03/24/2017	700.00
126248	ZOOM SMOG & AUTOMOTIVE	Tires (4) - Vehicle #614	03/17/2017	1,019.48
126307	ZOOM SMOG & AUTOMOTIVE	Oil/Lube/Filter - Vehicle #131	03/24/2017	255.66

AP Disbursements  
March 1-31, 2017

Check No.	Vendor/Employee	Transaction Description	Date	Amount
126307	ZOOM SMOG & AUTOMOTIVE	Tires (4) - Vehicle #610	03/24/2017	531.57
126307	ZOOM SMOG & AUTOMOTIVE	Brakes/Rotors - Vehicle #614	03/24/2017	1,103.44
	Employee Medical Reimbursements (17)			5,650.90
	Retiree Health Reimbursements (3)			1,150.06
	Customer Refunds (9)			1,497.64
Total March 2017 AP Disbursements				<u>1,515,893.47</u>

# Agenda Item

DATE: April 12, 2017

TO: Dave Eggerton, General Manager 

FROM: Charles Palmer, District Engineer 

SUBJECT: Discussion / Action Regarding Award of Engineering and Design Contract for the Ebbetts Pass Reach 1 Water Pipeline Replacement Project, CIP#11085

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## RECOMMENDED ACTION:

Motion: \_\_\_\_\_ / \_\_\_\_\_ to adopt Resolution No. 2017-\_\_\_\_ authorizing the General Manager to enter into a Professional Services Agreement (PSA) with KASL Consulting Engineers of Citrus Heights, CA in a contract amount of \$451,659 for engineering, environmental, permitting and other design services for the Ebbetts Pass Reach 1 Water Pipeline Replacement Project, CIP #11085.

## SUMMARY:

The District issued a Request for Proposals (RFP) on January 24, 2017 and advertised in the Calaveras Enterprise on February 2, 9, and 16, 2017 for engineering and design services for the subject project. A copy of the RFP is attached which includes a project description and scope of work for design services, environmental review and permitting. The District would like to have the design completed by December 2017, the project publicly bid in January/February 2018, and a construction contract award and notice to proceed issued by March/April 2018.

On the proposal due of date March 10, 2017, the District received proposals from nine (9) different engineering firms as tabulated below. At least three staff members and the General Manager reviewed and evaluated the proposals considering various criteria such as qualifications and experience, content and presentation of the proposal and approach to work, completeness/variances in the proposed scope of work, allocation of staff hours to each task, general sense of cost effectiveness and value, subconsultant scope and fees, potential scheduling issues and ability to deliver work within allowed timeframe, team organization and focus on key project issues, local representation and proximity to the project and prior performance on other District projects.

FIRM	FEE
KASL Consulting Engineers	\$451,659
NV5	\$373,980
Domenichelli and Associates (D&A)	\$410,932
HDR	\$484,179
Kennedy/Jenks	\$532,845
Michael Baker International	\$399,500
Black Water Consulting Engineers	\$484,710
Kjeldsen, Sinnock, Neudeck, Inc.	\$480,277
Peterson / Brustad, Inc.	\$518,034
<Average Fee>	\$460,000

Upon thorough review of each proposal received by the District in this highly competitive process, staff recommends award of the design contract to the firm of KASL Consulting Engineers. KASL's proposal represents the best overall value to the District considering such factors as approach to the project, experience, qualifications, completeness of scope of work, approach and experience obtaining encroachment permits, environmental firm qualifications and experience, and price. Under District policy, price is an important but not determining factor in award of a professional services contract. The District must weigh a host of factors in determining which proposal offers the best overall value to the District in completing an important and complex project such as the design, environmental review, and permitting of the Reach 1 project.

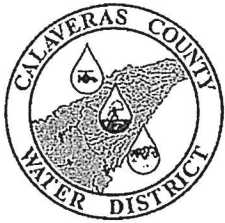
KASL's proposal offers a comprehensive scope of work including a significant and necessary utility locating/potholing effort, teamed with environmental professionals with significant experience in the foothills, and a successful track record working with Caltrans District 10. Therefore, staff's recommendation to the Board is to award the design contract to KASL Consulting Engineers, and authorize the General Manager to enter into an agreement with KASL in the amount of \$451,659 for engineering and design services for the Ebbetts Pass Reach 1 Pipeline Relocation Project.

## **FINANCIAL CONSIDERATIONS:**

None / no adjustments necessary at this time. Sufficient funds were allocated in the adopted FY 16/17 CIP budget for the design services contract, which will be carried into the FY17/18 CIP budget.

*Attachments:*

- 1) Request for Proposals*
- 2) Resolution Authorizing Engineering and Design Services*
- 3) KASL Proposal and Fee*



# CALAVERAS COUNTY WATER DISTRICT

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120 Toma Court • P O Box 846 • San Andreas, CA 95249 • (209) 754-3543

## **REQUEST FOR PROPOSAL**

DESIGN/ENGINEERING SERVICES FOR  
EBBETTS PASS REACH 1 WATER TRANSMISSION PIPELINE  
CAPITAL IMPROVEMENT PROJECT #11085

*Issued By: Charles Palmer, P.E. / January 24, 2017*

### **INTRODUCTION**

The Calaveras County Water District is requesting proposals for engineering/design and other consulting services for its Ebbetts Pass Reach 1 pipeline replacement project. The existing steel 8-inch diameter pipeline installed in 1965 is being replaced due to age, poor condition and series of recent failures and repairs. The project consists of 24,000 feet of new 10 or 12-inch diameter ductile iron pipeline and replacement/rehabilitation of twelve (12) pressure reducing stations. The alignment starts at the water plant at Hunter Dam Road, continues westerly along State Route 4 through Hathaway Pines, Red Apple Ranch and ends approximately 6,000 feet downhill from the entrance of Forest Meadows. The high pressure (250-psig) pipeline is proposed to be fully mechanically restrained with concrete thrust blocks at tie-in points to existing system. An important challenge of the project is determining how to sequence work to install the new pipeline while keeping the existing pipeline operational without causing a service interruption, continuing to maintaining adequate transmission flow, following disinfection and testing procedures to safeguard against bacteriological contamination.

### **SCOPE OF WORK**

The proposal shall include design/engineering services and other services as follows:

- 1) **Preliminary Design Report:** The consultant shall prepare a Preliminary Engineer's Report including cost estimate, design criteria and detailed mapping for alternate and preferred alignments. The District may decide/choose to submit an application for funding by USDA Rural Development; prior to starting work, the consultant shall verify the specific format and required contents for the Preliminary Engineer's Report anticipating a potential submittal to USDA.
  
- 2) **Drawings:** The consultant shall prepare drawings including plan and profile sheets, project details, tie-ins, demolition/abandonment, bore & jack, pressure regulating stations, air valves and other appurtenances. Also, the consultant shall provide standard drawings such as cover sheet, index, vicinity map, general notes, survey controls, property lines, etc. Deliverables shall include 50%, 90% and 100% drawings. All deliverables shall include a complete set of plan and profile drawings showing alignment, stations, topography, invert elevations; anticipate plan and profile scales are 1" = 20' horizontal and 1" = 10' vertical, respectively. The 90% and 100% deliverables are to identify all fittings and bends shown and annotated on the plan and profile sheets with corresponding survey control information. The 100% drawings may be subject to minor revision prior to reproduction of final bid set based on any review comments by USDA.



3) Project Manual: Jointly with development of drawings, the consultant shall prepare a project manual including front end documents, technical specifications, and appendices. The manual shall be based on the current edition of the USDA Rural Development "Construction Contract Guide" and corresponding, stipulated edition of the Engineers Joint Contract Documents Committee (EJCDC) Standards. The State Engineer for USDA shall be contacted to obtain the most current version of the "Construction Contract Guide". The consultant shall edit the EJCDC documents to add State of California requirements and either add/delete specific Federal requirements depending if the project is/is not going to be funded by USDA. The front end documents consist of items such as bid documents, bonds, contract documents, general conditions and supplementary conditions, etc. The consultant will need to provide a carefully developed bid schedule, detailed descriptions for each bid item, and a sequence of work. The technical specifications may be based upon either the consultant's versions or adapted from those previously used by the District on its Reach 3A project. Appendices are to include copies of encroachment permits, CDF&W streambed/Section 1600 permits, U.S. Army Corps of Engineers Section 401/404 permits, stream and wetland delineations, biological resources report, cultural/historical resources report, tree survey, CEQA documents, stormwater pollution prevention plan (SWPPP), geotechnical reports, and other such reports; very large appendices may be issued/distributed in an organized electronic format for the bid.

4) Encroachment Permits/Right-of-Way: The Consultant shall prepare and secure all encroachment permits (Caltrans and County) for the project. It is assumed that the consultants design will remain within the State Route 4 highway right-of-way, County roads and existing utility easements, and not require procurement of additional right-of-way, temporary or permanent easements. Also, the Consultant shall verify with Caltrans the specific requirements for conducting a tree survey/mapping in support of the encroachment permit and identifying potential impacts to trees within construction zone. It is anticipated that for all trees 4-inch and larger potentially impacted within the construction zone, it will be necessary to conduct a detailed tree survey and mapping of the location, quantity, size and species of these trees and determination if potentially impacted by construction including impacts to each trees root/drip zone. Tree survey and mapping shall be conducted by qualified arborists or professional foresters, and survey data captured using high precision sub-meter GPS units in NAD 83 California Coordinate System Zone 3 horizontal control.

5) Topographic Survey: An initial topographic survey has been completed, and the District already has the survey files available in AutoCAD format for Consultant's review/use. In the event that the Consultant requires additional survey points and features captured by the topographic survey, the District will pay cost for a professional land surveyor, Lee Nordahl, survey crew to return to the site to update the survey files accordingly. However, the Consultant will need to include a separate task and fee as needed to request, coordinate, schedule and provide direction for field survey activities including meeting the survey crew on site to review the general purpose, scope and any special requirements for the additional survey areas. Also, the tree survey is not intended to be part of the topographic survey, and these should be considered separate, mutually exclusive tasks.



6) Potholing/Locating: Prior to 50% design, the Consultant shall undertake, coordinate and schedule a potholing effort to locate and verify location and depth of the existing water main and potential utility conflicts. Before potholing, the Consultant via site visits, information requests and other available means shall attempt to locate AT&T, PG&E, Comcast, and other utilities crossing, adjacent to, or in conflict. The potholing, i.e. digging exploratory holes, shall be done by hydro-excavation by a qualified third party contractor. The Consultant shall submit a plan for between 50-75 potholes equally spaced along the alignment and strategic locations that warrant investigation to obtain better information for design. The Consultant shall develop a scope of work with maps of proposed pothole locations and solicit bids from two qualified contractors, such as Arrow Construction. The District may choose to reject bids and perform work using its own equipment and field crew. The Consultant with District staff shall walk alignment to mark locations with white paint for Contractor to notify USA North 811 before digging. The District's land surveyor can assist to survey coordinates and depth of each pothole assuming entire process is highly efficient optimizing surveyor's time; multiple potholes (20+) should be exposed, opened ahead of survey crew. The Consultant shall secure an encroachment permit from Caltrans; traffic controls are expected to be shoulder closures with signage, not lane closures with flaggers.

7) Stream and Wetland Crossings: The Consultant shall perform stream and wetland delineations; a preliminary reconnaissance visit may be helpful in determining if formal delineation mapping is appropriate/beneficial effort. For jurisdictional stream and/or wetland crossings, the Consultant shall prepare application, make all correspondence, provide construction details, and perform all tasks to secure and obtain the California Department of Fish and Wildlife Section 1600 permit and US Army Corps of Engineer Section 401/404 permits. Each permit can be listed as separate task and line item in the Consultant's fee proposal. The stream and wetland delineations shall be performed by a qualified wetland scientist certified through the Society of Wetland Scientist Professional Certification Program.

8) Environmental/CEQA: Consultant shall conduct environmental review including CEQA checklist, initial studies, field surveys (biological, bird, cultural and historical resources), prepare biological and cultural/historical resources reports, conduct records search and document tribal consultation records (phone call log, emails, letters, etc.), and prepare all submittals to the State Clearinghouse. This review shall be coordinated/combined with stream and wetland delineations, tree survey and permitting efforts described above and relevant information incorporated into the CEQA document. It is assumed the District will be Lead Agency, and project will be an Initial Study/Mitigated Negative Declaration (IS/MND) with Mitigation, Monitoring and Reporting Program (MMRP). The Consultant shall obtain District's approval for the organization, format and content of the IS/MND for submission to the State Clearinghouse. The IS/MND shall incorporate a detailed project description/narrative and maps, initial study checklist, biological/cultural/historical resources reports and associated field surveys, tribal consultation records, MMRP and other relevant information. The Consultant shall provide all printing/reprographics of IS/MND including fifteen (15) copies for submission to the State Clearinghouse and another twelve (12) copies for District's use; and copies of any CD-ROM accordingly. The Consultant shall prepare written responses replying to all public comments received by the State Clearinghouse.

9) Stormwater Pollution Prevention Plan: Upon completing drawings, Consultant shall retain Thunder Mountain Enterprises (TME) of Sacramento, CA Contact: Beth Smiley, Phone: (916) 381-3400 to develop a project specific Stormwater Pollution Prevention Plan (SWPPP) and Best Management Practices (BMP's) to comply with the Construction General Permit. The SWPPP shall be prepared by a Qualified SWPPP Developer (QSD) licensed by the California Stormwater Quality Association (CASQA). The SWPPP shall conform to the Caltrans Stormwater Quality Handbooks, Project Planning and Design Guide, Stormwater Pollution Preventions Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual, Construction Site Best Management Practices (BMPs) Reference Manual (CTSW-RT-11-255.08.01). A draft SWPPP plan shall be submitted to Caltrans for review and comment and any revisions/changes made accordingly. Before starting construction, the SWPPP shall be uploaded electronically by the Consultant via the State's Storm Water Monitoring and Report Tracking System (SMARTS), certified by the District, and assigned a valid WDID number by the State. The Consultant will ensure that no less than six (6) weeks before contractor's mobilization date for start of construction that final SWPPP incorporating Caltrans' comments has been uploaded to State's SMARTS database. Also, the Consultant shall prepare nine (9) printed, color copies of final SWPPP document in three ring binders and distribute to Caltrans, Contractor and District.

10) Meetings/Site Visits/Project Management: The Consultant shall prepare agenda, schedule and conduct periodic project meetings with District staff including meetings for kickoff, review of preliminary engineer's report, review of each of 50% and 90% deliverables, and one presentation to the Board of Directors or Engineering Committee. The Consultant shall otherwise plan for a reasonable number of office meetings, field meetings and site visits to carry out each task, assure coordination of work and communication with all the various subconsultants, professionals, utilities, government agencies, and other representatives associated with the project. Site visits may be needed for some tasks to facilitate coordination of work, communication, clarify objectives, better define scope, identify constraints, confirm assumptions, understand site conditions, agree on requirements, etc. for the project.

11) Bid Period Services/Addenda/Conformed Set: For bidding, the Consultant shall provide thirty five (35) printed copies of the project manual (bid documents, specifications and appendices) and full scale 22x34 drawings. The full scale drawing shall be printed true to scale without reduction. The Consultant shall provide a CD-ROM containing all files for public bidding in an electronic format including project manual, drawings and all appendices (e.g. CEQA document, biological/historical/cultural resources reports, tree survey, SWPPP, geotechnical report, all permits, etc.). Each bidder shall be provided a printed copy of the project manual, full scale drawings and CD-ROM. All printing/reprographics to be done by Consultant via ARC in Stockton, CA, Contact: Don Rader. The District shall conduct the public bid and advertisement, distribute project manual and drawings to bidders, maintain plan holders list, and issue addenda and RFI's during bid period; all correspondence with bidders shall be made by the District. The Consultant shall attend pre-bid job walk, prepare addenda, answer RFI's, etc. Addenda may be to correct errors in the bid set and drawings and/or result from bidders' questions and comments. The Consultant shall provide fifteen (15) printed copies of conformed set of the project manual, 22x34 and 11x17 drawings, and updated CD-ROM containing all files and appendices.

12) Engineering Services During Construction: The District has not yet determined the level of assistance required from the Consultant or scope of services for the construction phase, and it will depend largely upon the success and District's experience with the Consultant during the design effort. The District has staff capable of performing both construction management and field inspections and the Consultant's primary role would be to support these functions. Field work would depend on the relative proximity of the consultant's office or if staff is already located nearby in the area. A scope and fee for engineering services will be determined at a future date prior to the start of the Construction phase.

#### **SCHEDULE**

The District would like to have design and full scope of services described herein completed by Consultant before December 31, 2017, publicly bid in January/February 2018, and construction contract awarded and notice to proceed issued in March/April 2018, respectively.

#### **PROPOSALS/SELECTION CRITERIA**

The Consultant is free to submit proposal in format that best represents and demonstrates their experience, qualifications, organizational structure, team/staff members, etc. As a minimum the District expects a statement of qualifications, project references by year, detailed schedule with tasks and milestones, total fee estimate with each task details stating hours and rates, and costs/markup for subconsultants. The District may wish to see Environmental firm's qualifications, fees and schedule. The project shall be managed under direction and daily supervision of Professional Civil Engineers (P.E.'s) registered by the State of California. For any Engineer-in-Training (E.I.T.) staff, P.E. and E.I.T. hours shall be equally balanced. The District will be looking at various criteria in making its evaluation and selection. Criteria may include travel time, proximity to Calaveras County, sufficient amount and allocation of staff hours, range of billing rates, general sense of cost effectiveness and value, staff qualifications and experience, prior management/performance on other District projects, content and presentation of the proposal, fee estimate and project schedule, and ability to meet and deliver within timeframe. The District expects to see proposals in the range of \$350,000 to \$450,000, depending on proposed scope of work and consideration of optional tasks. The Consultant must accept/agree to terms of District's standard Professional Services Agreement (PSA).

Please contact Charles Palmer, District Engineer at (209) 754-3174 or [charlesp@ccwd.org](mailto:charlesp@ccwd.org), if you wish to meet with District staff to further discuss this project before submitting a proposal.

#### **RECEIPT OF PROPOSALS**

On or before 4:00 PM, Friday, March 10, 2017, please submit three (3) copies of proposals with separate fee estimate delivered to:

Calaveras County Water District  
120 Toma Court  
San Andreas, CA 95249  
Attn: Tami Bennett-Kirby  
Phone: (209) 754-3181  
Email: [TamiB@ccwd.org](mailto:TamiB@ccwd.org)

**RESOLUTION NO. 2017-**

**A RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE CALAVERAS COUNTY WATER DISTRICT**

**APPROVING / AUTHORIZING ENGINEERING AND DESIGN SERVICES  
CONTRACT FOR THE EBBETTS PASS REACH 1  
WATER PIPELINE REPLACEMENT PROJECT  
CAPITAL IMPROVEMENT PROJECT #11085**

**WHEREAS**, upon issuing a Request for Proposals (RFP) on January 24, 2017 and advertising in the Calaveras Enterprise for engineering and design services for the Ebbetts Pass Reach 1 Water Pipeline Replacement Project, District staff conducted job walks along the pipeline alignment with various consulting firms interested in submitting proposals and received nine (9) proposals as of the due date on March 10, 2017; and

**WHEREAS**, the General Manager, District Engineer and two other members of District staff reviewed and evaluated all proposals considering qualifications and experience, team organization, scope of work, cost effectiveness, value, schedule, and other criteria among the top ranking proposals and District staff recommends the award of a contract for engineering and design services to KASL Consulting Engineers as the most complete and competitive proposal and best value for the District.

**THEREFORE, BE IT RESOLVED** that the Calaveras County Water District Board of Directors hereby approves the proposal and fee submitted by KASL Consulting Engineers, attached hereto and made a part hereof, and authorizes the General Manager to enter into a Professional Services Agreement (PSA) with KASL Consulting Engineers in the amount of \$451,659 for said engineering and design services for the Ebbetts Pass Reach 1 Water Pipeline Replacement Project, CIP #11085, funds to come from the Renovation and Replacement fund 125 as authorized in the annual budget.

**PASSED AND ADOPTED** this 12<sup>th</sup> day of April, 2017 by the following vote:

**AYES:**

**NOES:**

**ABSTAIN:**

**ABSENT:**

CALAVERAS COUNTY WATER DISTRICT

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Jeff Davidson, President  
Board of Directors

**ATTEST:**

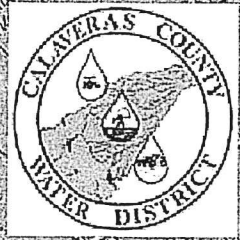
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Mona Walker, Clerk to the Board



# PROPOSAL FOR DESIGN ENGINEERING SERVICES, EBBETTS PASS REACH 1 WATER TRANSMISSION PIPELINE CAPITAL IMPROVEMENT PROJECT

By: KASL Consulting Engineers  
March 10, 2017



March 10, 2017

Mr. Charles Palmer  
District Engineer  
Calaveras County Water District  
120 Toma Court  
San Andreas, CA 95249

Subject: Proposal for Design / Engineering Services for Ebbetts Pass Reach 1 Water Transmission Pipeline Capital Improvement Project

Mr. Palmer and Members of the Consultant Selection Committee:

Calaveras County Water District has requested design / engineering services for a replacement water transmission main to parallel existing pipeline improvements in Ebbetts Pass Reach 1. The new water transmission main will be located, in general, within State Route 4 Right of Way and the existing pipeline must be kept operational until the new pipeline is constructed, tested and disinfected to CCWD and State Standards. KASL Consulting Engineers and the team of professional that we have assembled for this project are well qualified to provide the requisite design experience to meet the District's needs. The KASL Project Team:

- Previously designed and provided construction management services for similar, comparably sized, high pressure, water transmission improvements in other Sierra Foothills locations
- Previously designed and provided construction management services for similar, comparably sized water transmission projects which were USDA funded and located within State highways
- Includes environmental, geotechnical, arborist, pothole and SWPP professionals who have provided similar design and engineering services for CCWD and for other Motherlode agencies for similar pipeline projects.

**What You will Receive from the KASL Team**

In addition to the tasks requested in the Districts' RFP, we will provide CCWD with:

- **Collaboration and Interaction** – The District's needs will be addressed as we listen attentively and work with you.
- **Creativity** – We will respond with cost effective and creative solutions that conform to your standards and Project budget limitations
- **Reliability and Experience** – Our team brings to CCWD over 40 years of professional engineering and water transmission main experience

Your contact person throughout this project will be Jack Scroggs, a Principal of the firm, who will also serve as the Project Manager. We are pleased to report that Charlie Moore, a Senior Engineer with KASL and formerly the CCWD District Engineer is available to provide design oversight and QA / QC services.

The undersigned is a Principal of KASL Consulting Engineers and can contractually bind the team to provide the design / engineering services proposed herein. We have reviewed the District's Professional Services Agreement and take no exception to the conditions and terms enumerated therein.

Thank you for this opportunity to be of service. We look forward to your review of our proposal and to the Project Understanding, Approach, Background and Qualifications presented herein.

Very truly yours,

KASL Consulting Engineers

John C. (Jack) Scroggs  
[jscroggs@kasl.com](mailto:jscroggs@kasl.com)





## 8. FEE PROPOSAL

The fee proposal presented in Table 1 is based on Proposed Task Hours, Section 7 of our proposal, our current Standard Rate Schedule, Table 3, and the fee proposals submitted by our subconsultants. A brief explanation of proposed fees, by task, is as follows:

### Task 1 Kick-Off Meeting

Proposed fees include the in-house Kick-off meeting, site reconnaissance with the District's Project Manager after the Kick-off meeting and the preparation of Kick-off meeting agenda, notes, directives and site visit photos.

### Task 2 Data Collection

Proposed fees include coordination with subconsultants, submittal of utility mapping, potholing and tree survey results to CCWD and coordination, scheduling, review and site meeting with the District's surveyor, Lee Nordahl, to obtain supplemental survey data. The base fee proposal includes 50 potholes and tree survey of 2000 trees.

### Task 3 Caltrans Coordination

Proposed fees include the initial Caltrans coordination meeting and the preparation, submittal and processing of Caltrans encroachment permits for the tree survey, environmental studies, potholing and for the proposed transmission main improvements. Condor Technologies will submit a separate encroachment permit for the geotechnical investigations.

### Task 4 Hydraulic Analysis

Proposed fees include hydraulic network model development and model runs for existing and projected Maximum Day Demands plus Fire Flows and Peak Hour Demands.

### Task 5 Environmental (CEQA Documents)

As itemized in the following fee summary, ECORP accounts for nearly all of the proposed environmental task fees. Preparation of a CDFW 1602 Permit Application is an optional task. The KASL Project Manager will review the environmental findings and then incorporate recommended mitigation measures in the project design.

### Task 6 Geotechnical Investigations

Similar to Task 5, nearly all of these proposed fees proposed for this task is work to be conducted by Condor. KASL will review the geotechnical investigations and include findings and recommendations in the project planning and design documents.

### Task 7 Pressure Reducing Station Evaluation

This task will include field investigations of each Pressure Reducing Station (PRS) with a representative of the Cla-Val Company and the preparation of findings and recommendations regarding replacement or rehabilitation of each PRS.

### Task 8 Preliminary Design Report (PDR)

Both draft and final PDR's will be submitted to the District for review and comment. This task includes a presentation to the CCWD Board or Board Engineering Committee outlining the findings and recommendations of the Ebbetts Pass Reach 1 Water Transmission Pipeline Project.

### Task 9 Stormwater Pollution Prevention Plan (SWPPP)

Task 9 fees reflect the fee proposal provided by TME. Erosion and sediment control measures recommended in the SWPPP will be included in the Transmission Main Plans and Specifications.

### Task 10 Project Sequencing Plan

A Draft and Final Sequencing Plan will be prepared and will be subject to review by CCWD. The District approved Project sequencing will be included in the Project Plans and Specifications.

### Task 11 Design Drawings

The 50%, 90% and 100% submittals will be reviewed with the District Project Manager. District redlines and requested plan modifications will be addressed with each subsequent submittal

### Task 12 Project Manual

Similar to Task 11, the 50%, 90% and 100% Project Manual submittals will be reviewed with the District Project Manager. Each subsequent submittal will respond to the District's review comment, corrections and additions.

### Task 13

Fees for this task are included in the other tasks of this Project. No additional fees are proposed to complete this task.

### Task 14 Bidding Services

The scope of bid period services are as outlined in Section 3, Approach, of the Proposal and as detailed in the District's RFP. The proposed fees include copying and printing costs for Bid sets and Conform sets of Contract Documents.





**TABLE 1**  
**BASE FEE PROPOSAL - DESIGN ENGINEERING SERVICES**  
**FOR EBBETTS PASS REACH 1 TRANSMISSION MAIN IMPROVEMENTS**  
**CAPITAL IMPROVEMENT PROGRAM**

<b>TASK</b>	<b>PROPOSED KASL FEES</b>	<b>PROPOSED SUBCONSULTANT FEES</b>	<b>OTHER DIRECT COSTS</b>	<b>TASK TOTAL</b>
1	2372	-	-	2372
2	32,396	58,000 (1)	-	90,396
3	5736	-	-	5736
4	10,540	-	-	10,540
5	6204	115,379 (3)	-	121,583
6	2994	22,635 (4)	-	25,629
7	5818	-	-	5818
8	22,096	-	500 (6)	22,596
9	2978	8000 (5)	-	10,978
10	5084	-	-	5084
11	110,071	-	-	110,071
12	21,744	-	-	21,744
13	-	-	-	-
14	9112	-	10,000 (7)	19,112
<b>TOTALS</b>	<b>237,145</b>	<b>204,014</b>	<b>10,500</b>	<b>451,659</b>

- (1) Includes Subconsultant Fee of \$40,000 for Arrow Construction; 50 potholes @ \$800 / pothole.
- (2) Includes Subconsultant Fee of \$18,000 for Sierra Nevada Arborists based on a total of 2000 trees in tree survey.
- (3) Subconsultant Fee of \$115, 379 as itemized by ECORP Consultant, attached in Table 2. A detailed breakdown can be provided to District on request.
- (4) Condor Fee Proposal; does not include drilling.
- (5) Thunder Mountain Enterprise Fee Proposal.
- (6) Estimated PDR printing and binding costs; 15 copies of draft PDR, 35 copies of Final PDR.
- (7) Estimated printing and binding costs for Bid Sets and Conform Sets of Contract Documents.
- (8) Base Fee includes 50 potholes, 2000 trees in Tree Survey. Additional potholes estimated at \$800 each. Additional trees in tree survey estimated at \$600 / 100 trees . Base Fee does not include CDFW 1602 Permit. If 1602 Permit required, the estimated Fee is \$8555.



TABLE 2  
 ECORP CONSULTING  
 COST BREAKDOWN BY ENVIRONMENTAL SCOPE TASK

<b>Task/Activity</b>	<b>Cost (\$)</b>
Task 1: Project Initiation	3,819.92
Task 2: Develop Project Description	4,270.00
Task 3: Attend Public Meetings	2,400.00
Task 4: Technical Studies	
4.1 Biological Resources Assessment	7,636.50
4.2 Wetland Delineation	7,826.50
4.3 U.S. Army Corps of Engineers, Submittal/Field Verification	2,531.50
4.4 Section 404, Nationwide Permit	6,990.00
4.5 Regional Water Quality Control Board, 401 Certification	5,490.00
4.6 Special-Status Plant Survey	9,309.50
Task 5: Cultural Resources Technical Studies	9,860.40
Task 6: AB 52 Tribal Consultation Support	3,360.00
Task 7: Administrative Draft IS/MND	26,004.88
Task 8: Draft IS/MND	5,558.56
Task 9: Final IS/MND and Project Approval Documents	7,615.70
Task 10: Final IS/MND, NOD, CDFW Certification of Fee Exemption, and Project Approval Documents	3,083.58
Task 11: Project Management	9,622.36
<b>TOTAL COSTS</b>	<b>115,379.40</b>
OPTIONAL 1602 Notification	8555.00
<b>TOTAL COSTS WITH OPTIONAL TASK</b>	<b>123,934.40</b>

TABLE 3

2017 STANDARD RATE SCHEDULE

KASL CONSULTING ENGINEERS, providing superior service in civil engineering, water resources and surveying since 1982.

We define the art of engineering.



PROFESSIONAL RATES

Engineer, Surveyor 1	\$184.00 per hour
Engineer, Surveyor 2	\$157.00 per hour
Engineer, Surveyor 3	\$140.00 per hour
Engineer, Surveyor 4	\$124.00 per hour
Engineer, Surveyor 5	\$108.00 per hour
Engineer, Surveyor, Technician 6	\$ 96.00 per hour
Engineer, Surveyor, Technician 7	\$ 91.00 per hour
Engineer, Surveyor, Technician 8	\$ 81.00 per hour
Technician, Administration 9	\$ 64.00 per hour
Technician, Administration 10	\$ 60.00 per hour
Technician, Administration 11	\$ 39.00 per hour
2-Man Survey Crew	\$195.00 per hour
3-Man Survey Crew	\$235.00 per hour

BASIC CHARGES

TRAVEL OUTSIDE OF SACRAMENTO METROPOLITAN AREA -- \$0.54 per mile for truck or private vehicle, or direct cost of public transportation, plus direct cost of meals and lodging.

WHEN PERSONNEL are required to work during premium overtime pay hours, the above hourly rates will be multiplied by 1.50 for time-and-one-half hours and by 2.00 for double time hours.

OTHER DIRECT EXPENDITURES on behalf of the client will be billed at cost plus 15% percent for handling.

UNDER PROVISIONS OF THIS AGREEMENT, a late payment finance charge will be computed at the periodic rate of 1.5% percent per month, which is an annual percentage rate of 18% percent, and will be applied to an unpaid balance commencing 30 days after the date of the original invoice.



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## 1. INTRODUCTION

### EBBETTS PASS REACH 1 WATER TRANSMISSION PIPELINE PROJECT

The existing Ebbetts Pass Pipeline is an integral part of the Calaveras County Water District's (CCWD or District) domestic water supply and distribution system. The 8 inch diameter steel pipeline, installed in 1965, delivers water treated at the Hunter Dam Water Treatment Plant to District customers located along the State Route 4 (SR4) corridor from Avery to west of Forest Meadows. The existing pipeline requires replacement due to age, poor condition, recent failures and repairs. Approximately 24,000 lineal feet of new 10 inch or 12 inch diameter ductile iron pipe is required to replace the existing facility. As shown in the aerial plan and preliminary profile included in the Appendix, the Reach 1 pipeline drops through an elevation of nearly 400 feet. There are currently twelve (12) pressure reducing stations located within the existing Ebbetts Pass Reach 1 limits. These have been placed to maintain pipeline operating pressures at or below 250 psig and to reduce pressures to District customers served by this pipeline. The existing pressure reducing stations will be replaced or rehabilitated with the new replacement pipe project.

The existing Ebbetts Pass Reach 1 pipeline is located within the Caltrans State Route 4 (SR4) Right of Way. For constructability, to minimize environmental impacts and to provide ease of reconnection to the existing branch mains, the replacement pipeline will also be placed within the Caltrans SR4 Right of Way south of the existing SR4 shoulder.

Our design services will provide the District with a robust water delivery system that meets the immediate and long term service goals of CCWD with minimum environmental impact, at a reasonable cost and within an alignment acceptable to Caltrans District 10. Sequencing will be specified throughout the project construction stage to ensure that water service will be maintained to the existing Reach 1 Corridor customers.

#### KASL TEAM

Over its 35 year history, **KASL Consulting Engineers** has been privileged to provide CCWD with design services for a number of water and wastewater projects. This experience has included the design of miles of water transmission mains with pipeline diameters comparable to the Ebbetts Pass Reach 1 Water Transmission Pipeline. KASL has also designed the placement of CCWD transmission facilities within State Route 4 and within other State highways. The Vallecito / Douglas Flat Wastewater

Project includes over three thousand feet of sewer force main placed along the south side of SR4. Our pipeline design and construction management experience with other foothill water districts and agencies is also important to the Ebbetts Pass Reach 1 Pipeline Project. In 2009, KASL completed the design and construction management of the Plymouth Pipeline, a USDA grant funded project which included over 7 miles of 12 inch diameter high pressure water transmission main from Sutter Creek to Plymouth.

We are joined in this proposal by **ECORP Consulting**. ECORP Consulting Inc. (ECORP) has provided CEQA review and compliance services for over 20 years. They assist clients with a wide range of environmental services including environmental planning and review, technical expertise in biological, cultural and water resources and regulatory compliance with the California Environmental Quality Act (CEQA), National Environmental Policy Act (NEPA), Clean Water Act (CWA), Federal and State Endangered Species Acts, National Historic Preservation Act (NHPA), Porter-Cologne Act, and other laws and regulations. They have well established relationships with local, State and Federal regulatory agency staff. ECORP has a long history of supporting CCWD with water rights and water supply technical reports and strategy development

Tree Surveys required for this Project would be conducted by Edwin Stirtz. Ed Stirtz is principal / owner operator of **Sierra Nevada Arborists**. He has been an ISA Certified Arborist (#WE0510A) since 1989. Mr. Stirtz has effectively provided arborist and tree survey services for a number of KASL design projects completed in the Sierra Nevada Foothills area.

Unless otherwise determined by CCWD, pothole services would be provided by **Arrow Construction**. These services will include a minimum of 50 to 75 potholes spaced along the existing pipeline alignment and at strategic locations critical to the design of the new water transmission project.

KASL will retain **Thunder Mountain Enterprises** (TME) to prepare the Stormwater Pollution Prevention Plan (SWPPP). KASL has previously teamed with Beth Smiley of TME for the preparation of many SWPPP designs for similar public works projects.

**Condor Technologies** will provide geotechnical support services for pipeline planning and design phases. Condor has completed similar investigations for pipelines in the Motherlode including 100+ assignments for CCWD.





## 2. PROJECT UNDERSTANDING

### REPLACEMENT PIPE LOCATIONS

With the exception of the final  $\pm$  500 feet of the Project the existing Ebbetts Pass Reach 1 Water Transmission Pipe is located within the State Route 4 (SR4) Right of Way (R/W). As the pipeline approaches the Hunter Dam Water Treatment Plant (WTP) the existing pipeline leaves the SR4 R/W and parallels Hunter Dam Road. For the rest of the project, the existing pipeline is placed within the SR4 R/W and as far south as practical from the existing SR4 shoulder. In most locations this alignment results in the pipeline either constructed above the State Highway in road cut / embankment or below the State Highway behind the toe of fill. As shown in the accompanying photos, portions of the existing pipeline alignment have been cleared of significant vegetation.



Blue Stake shows existing pipeline alignment on embankment above State Highway 4



Blue Stake shows existing pipeline alignment at toe of slope

The replacement pipeline will be placed parallel to, and close as practical, to the existing pipeline. A minimum clearance of 3 feet is normally adequate when placing a new 10 inch to 12 inch diameter pipeline parallel to an existing 8 inch diameter water main, each, with 3 feet of minimum cover. Where constructability, permitting and environmental consideration permit the minimum pipeline clearance will be increased from 3 feet.

Where conditions dictate that the replacement pipeline be placed near the existing SR4 shoulder the minimum cover will be increased to avoid potential conflict with future SR4 pavement widening, shoulder or roadside ditch improvements. Typically in these cases, a minimum pipe cover of 48 inches will apply. Pipe cover and alignment criteria will be reviewed with Caltrans.





## 2. PROJECT UNDERSTANDING



Blue stake shows existing transmission main alignment on State Highway 4 shoulder

### CONFLICT WITH EXISTING UTILITIES

Based on field reconnaissance conducted to date, a significant portion of the existing Ebbetts Pass Reach 1 Pipeline is located adjacent to underground dry utility (PG&E, Telephone, Cable T.V.) conduits. These underground utilities are typically located within the SR4 R/W south of the existing water transmission main. The width of the existing dry utility easement and the width of the existing water transmission easement may determine if the replacement pipeline can be placed between the existing transmission main and dry utility conduit or placed north of the existing pipeline, closer to the SR4 shoulder.

There are existing joint utility poles placed in limited locations along the pipeline route. The location of these utility poles and required pole clearances may impact the alignment of the replacement pipeline.

### EXISTING R/W, EASEMENT LIMITS

Topographic surveys have been conducted for the Ebbetts Pass Reach 1 Project. We have verified that the topographic survey files include SR4 R/W limits. Existing SR4 R/W limits, existing CCWD easements and existing dry utility easement will be accurately plotted on the Pipeline Replacement Base Plans.

### REPLACEMENT PIPE SIZE AND PIPE PROTECTION

The existing 8" steel pipe will be replaced with new 10 inch or 12 inch ductile iron pipe. To avoid pipe deterioration due to soil corrosivity the District typically installs underground DIP with asphaltic coating and protective polyethylene wrap per AWWA C105.

As further discussed in the Project Approach section of this Proposal, network modeling will be completed to verify the appropriate diameter of replacement pipe. Consideration will be given to expected pipe life, future water system demands and the possibility that the Ebbetts Pass Reach 1 Pipeline could serve as a backup source of treated water to the community of Murphys. Murphys is now served by the Union Public Utility District.

### PRESSURE REDUCING STATIONS

There are a total of 12 Pressure Reducing Stations within the Ebbetts Pass Reach 1 Pipeline Project limits. The pipeline descends some 400 feet between the high point near the Hunter Dam WTP to the beginning of the Reach 1 Project, west of Forest Meadows. Without strategically placed pressure reducing facilities delivery pressures could increase 175 psi over this reach. With the replacement of the transmission main, the existing pressure reducing valves on the main pipeline will need to be replaced. Where pressure reducing stations are located on branch mains, the condition of the existing pressure reducing valves will be evaluated with the assistance of Cla-Val representatives. Since these valves are some 50 years + old, it is anticipated that most will need replacement rather than rehabilitation.





## 2. PROJECT UNDERSTANDING

All pressure reducing station and all pipe appurtenances will be designed in accordance with CCWD Improvement Standards.

### ENVIRONMENTAL

ECORP will complete Environmental Documentation under CEQA and the environmental permits required for the proposed Calaveras County Water District (District) Ebbetts Pass Reach 1 Water Transmission Pipeline Capital Improvements Project (Project).

It is our understanding that the District may be utilizing funding by USDA Rural Development and that NEPA documentation will be prepared internally by USDA and/or U.S. Army Corps of Engineers (USACE). Technical studies prepared by ECORP will be structured to be NEPA compliant and will support preparation of the NEPA documents by the Federal Lead Agencies. The CEQA documentation will focus on impacts associated with construction of the pipeline. The key project issues will revolve around near-term nuisance issues (i.e. noise, air quality, traffic delays) and resource issues (i.e. biological resources, cultural resources, waters of the U.S)



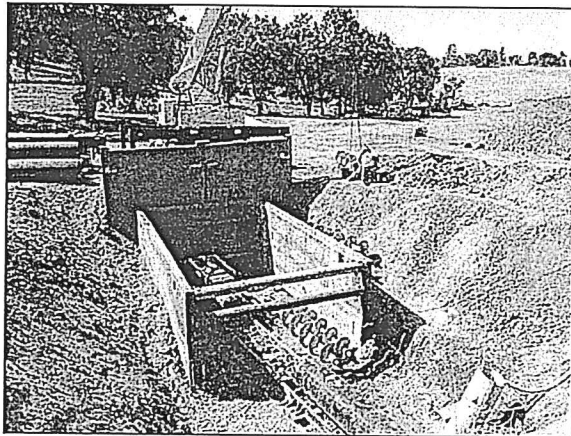
Survey Crews establishing points to delineate wetland area

### SR4 PIPELINE CROSSINGS

Where new pipe is placed across SR4 to serve Reach 1 customers, the new pipe crossings will be bored and cased. Bored and cased installation will conform to CCWD and Caltrans Standards. Bored and cased pipe installation may also be installed in wet, low lying, areas of the Project to mitigate impacts to delineated wetlands.

### IMPROVEMENT STANDARDS

All Reach 1 Water Transmission Main Preliminary Design Report and Pipeline Contract Documents Pipeline will conform to CCWD Standards.



Bore and Case installation of 10" Water Main below Little Indian Creek flow line and Old Sacramento Road, Plymouth, CA.



### 3. APPROACH

#### KICK-OFF MEETING

The Reach 1 Water Transmission Proposal will follow closely the Reach 3A Pipeline Replacement Project which is nearing completion. With the similarities of the two projects and “lessons learned” from Reach 3A design and construction, it will be critically important to review with CCWD Reach 1 project design and construction administration features that are similar to Reach 3A including project sequencing, traffic control, temporary interruption of service, coordination with Caltrans, SWPPP measures, environmental processing, project permitting and potholing.

The kick-off meeting will be held with the CCWD Project Manager and Engineering Staff as soon as practical after a Notice to Proceed is issued. The proposed scope of work, deliverables, schedules, coordination with CCWD, Caltrans and our subconsultants will be reviewed. Jack Scroggs will serve as the District’s point of contact throughout the project. KASL will prepare the kick-off meeting agenda. Prior to the kick-off meeting, we will request from CCWD, pertinent data and documents previously compiled or available for the Reach 1 Project. Following the kick-off meeting, notes and action items will be prepared and distributed to attendees. We will also request contact information for State, County, Agency and private stakeholders important to Project planning, design and permitting.

After the in-office meeting we request field reconnaissance with the District’s Project Manager to conduct a joint, ground level, view of specific features and areas that are particularly critical to the success of this Project and must be addressed in the pipeline planning and design tasks.

#### Deliverables

- Kick-off Meeting Agenda
- Meeting Notes and Directives
- Request for CCWD Documents and Stakeholder Contact Information

#### DATA COLLECTION

CCWD has previously provided the Reach 1 District Map and the recently completed

Topographic Survey files. We will request from the District:

- Recent Reach 1 pipeline repair history
- O & M Issues with existing Pressure Reducing Stations
- Reach 1 metered flows (Hunter Dam WTP)
- Estimated or known demands (or service connections) for Reach 1 service areas
- Updated topographic surveys

For the Reach 1 Project area topographic files should include survey control points, the location / elevation of State Route 4 edge of pavement and edge of shoulder, right of way (R/W) limits, existing easements, found monuments, alignment of existing Reach 1 pipeline, existing pressure reducing stations, valves, hydrants, existing PG&E vaults and joint poles, fences, roadways, buildings and other physical features located between the existing south edge of pavement and the southerly SR4 R/W. Where this information is not included in the topographic survey files, request(s) for additional survey information will be made.

We will request from PG&E, AT&T, Comcast and from other telephone and cable providers that serve the Project area horizontal and vertical mapping of existing facilities. Base mapping of the Project area will be provided to utility representative to identify the limits of Reach 1, to identify existing power, gas, telephone and cable T.V. facilities within these limits and to avoid utility conflicts. As part of the potholing task, existing underground improvements in the Project area will be USA’d to verify locations.

Record Maps will be compiled for the Project area and right of way limits shown on the topographic survey files will be verified against record information.

Potholing the existing horizontal and vertical locations of the Reach 1 pipeline and the Reach 1 service connections / crossing will be conducted. A plan shall be submitted for not less than 50 to 75 potholes spaced along the existing water transmission main alignment. This information will be used early in the Project design to avoid conflict with the existing transmission main and to better plan and design the replacement pipeline facilities. This information will also be used to develop project sequencing and to keep the





### 3. APPROACH

existing pipeline fully operational during construction of the replacement transmission facilities. Unless otherwise directed by CCWD, potholing will be conducted by **Arrow Construction** as a subconsultant to KASL. Potholing plans and scheduling will be submitted to CCWD prior to initiating this work. Pothole locations will be included on the Project base maps and survey files. Potholing within the SR4 R/W and within intersecting County roads will require encroachment permits from Caltrans and from the Calaveras County Public Works Department. Encroachment applications will be prepared, submitted and processed through completion by KASL.

Tree surveys will be conducted by **Sierra Nevada Arborists** as a subconsultant to KASL. Existing trees, 4 inch in diameter (dbh) and larger, located within the construction zone will be identified and accurately mapped. There are an estimated 2000 to 3000 existing trees to be surveyed. Tree survey results will be included on the Project base maps and topographic survey files. Similar to the potholing task, KASL Consulting Engineers will prepare, submit and process Caltrans and County encroachment permits prior to conducting the tree survey. The State Route 4 Corridor has been significantly impacted by Pine Bark Beetle infestation. Existing pine trees within the corridor scheduled to be removed (or likely to be removed based on Arborist surveys) because of Pine Bark Beetle damage, will be identified in the tree survey.

#### Deliverables

- Request for Additional Survey Data
- Utility Coordination Letters sent to PG&E, AT&T, Comcast and to other Telephone and Cable Providers in the Project Area
- Response from Utility Companies
- Pothole Plan
- Pothole Encroachment Permit Applications
- Pothole Results
- Tree Survey Encroachment Permit Applications
- Tree Survey Results

#### CALTRANS COORDINATION

The initial coordination meeting will be held with Caltrans after the kick-off meeting with CCWD. We will request that representatives from Caltrans District 10 Encroachment Permit Office (Nelson Magsayo) and Robert Hoffman, Caltrans District 10 Permit Engineer for Calaveras County, attend the coordination meeting together with the CCWD Project Manager. The purpose of this meeting will be to review the preliminary alignment of the new Reach 1 Water Transmission Pipeline, establish criteria for traffic control for work along the shoulder, verify pipeline alignment and cover requirements where construction is proposed near the shoulder, review details for the branch main crossings of SR4, discuss the encroachment permit processing and the anticipated schedule / timing for reviewing encroachment permit applications. Encroachment permit submittals will conform to Caltrans procedures, forms and conditions.

In addition to the encroachment permit submitted for the pipeline improvements, separate encroachment permits will be submitted to Caltrans for potholing, tree surveys and geotechnical investigations.

#### Deliverables

- Agenda for Caltrans Coordination Meeting
- Caltrans Meeting Notes and Directives
- Pipeline Encroachment Permit Application
- Copies of all Correspondence to and from Caltrans District 10 regarding the Reach 1 Pipeline Project

#### HYDRAULIC ANALYSIS

The District has determined that the existing 8 inch diameter Reach 1 pipeline will be replaced by either a 10 inch or 12 inch ductile iron pipeline. To determine the recommended size of the replacement pipeline, hydraulic analysis of existing and projected Project Reach 1 demands will be conducted. Projected service area demands will be based on updated General Plan land uses and information available from CCWD. Pipeline supply and demand node elevations, existing and projected maximum day plus fire flows, peak hour flows and pressure reducing station settings will be modeled to determine the optimum pipe size of the Reach 1 replacement transmission main. In conformance with CCWD Standards, the





### 3. APPROACH

replacement pipeline should deliver to CCWD customers peak hour demands at pressures not less than 40 psi and shall be capable of delivering maximum day demands plus fire flows with pressures not less than 20 psi maintained throughout the Ebbetts Pass Reach 1 service area.

Near the westerly limits of the Reach 1 Project is the community of Murphys. While Murphys is served by the Union Public Utility District, consideration will be given to providing Murphys with a backup water supply from the Reach 1 Transmission Pipeline should the Murphys supply be temporarily interrupted or curtailed.

A Technical Memorandum will be prepared and submitted to the District which includes the findings and recommendations of the Hydraulic Analysis.

#### Deliverables

- Reach 1 Hydraulic Network Model
- Hydraulic Network Model Results
- Technical Memorandum, Hydraulic Network Findings and Results

#### ENVIRONMENTAL / CEQA DOCUMENTS

At Project initiation, ECORP representatives will participate in the Project Kick-Off Meeting, site visit and Caltrans Coordination Meeting. Environmental document scheduling, information gathering and communication protocol will be reviewed with the CCWD Project Manager. The Project description, goals, objectives and scope included in the environmental documents will be coordinated with KASL.

The ECORP Project Manager will attend public meetings held by CCWD for environmental document review. These public meetings will typically be conducted to solicit public comment on the Draft Initial Study / Mitigated Negative Declaration (IS/MND) and when the District, acting as Lead Agency, considers adoption of the IS/MND.

Specific environmental tasks to be completed for the Ebbetts Pass Reach 1 Transmission Main Project will include:

#### Biological Studies

There are potential drainage ditch crossings and / or Waters of the United States within the Project limits. There is also the potential for special-status plants and wildlife to occur within the project area. Based on this review, ECORP has identified a need for the following tasks: Biological Resources Assessment; Wetland Delineation; Wetland Delineation Verification; Section 404 Nationwide Permit; Section 401 Water Quality Certification; and a Special-Status Plant Survey. A California Department of Fish and Wildlife (CDFW) Streambed Alteration Agreement may also be required if the project will impact lakes, streams, or adjacent riparian areas. The Streambed Alteration Agreement task is proposed as an optional task.

The **Biological Resources Assessment (BRA)** will include available information gathering including aerial photography and a query of the CDFW California Natural Diversity Database (CNDDDB), California Native Plant Society (CNPS), and U.S. Fish and Wildlife Service (USFWS) for potentially occurring special-status species in the vicinity of the Project. ECORP will conduct a pedestrian field reconnaissance to assess the onsite existing biological resources/constraints. A summary of findings will be included in the CEQA review document. These findings will also include likely required permits and approvals required to complete the Project design and construction.

A **wetland delineation** will be conducted in accordance with the Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987), Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region, Version 2.0 (U.S. Army Corps of Engineers 2010), U.S. Army Corps of Engineers (USACE) Sacramento District's Minimum Standards for Acceptance of Aquatic Resources Delineation Reports (U.S. Army Corps of Engineers 2016). Potential Waters of the U.S., including wetlands, will be mapped in the field using a global positioning system (GPS) unit capable of submeter accuracy.

The wetland delineation will be conducted under current field conditions. Upon District approval, a wetland delineation report will be submitted to







### 3. APPROACH

USACE for verification. It is anticipated that a site visit with USACE representatives will be required.

**A Pre-Construction Notification (PCN)** (i.e. application) will be prepared and a draft will be submitted to the District for review. After comments have been received and incorporated into the document, a submittal copy will be generated and, with District approval, submitted to the USACE.

**A Request for Water Quality Certification** (i.e., application) will be prepared. After District comments have been received and incorporated into the document, a submittal copy will be generated, and with District approval, submitted to the Regional Water Quality Control Board.

A floristic survey will be conducted to determine the presence/absence of **Special-Status Plant Species** in accordance with U.S. Fish and Wildlife Service's Guidelines for Conducting and Reporting Botanical Inventories for Federally Listed, Proposed, and Candidate Plants (USFWS 1996), California Department of Fish and Wildlife's Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (CDFG 2009), and California Native Plant Society's Botanical Survey Guidelines of the California Native Plant Society (CNPS 2001). The survey will include visits to local reference population(s) for each target species, if available, to confirm appropriate phenological conditions for identification, and/or examination of herbaria specimens. This survey will include two site visits (early and late season) to coincide with the appropriate flowering and identifiable period of target species.

At this writing, submittal of a **1602 California Department of Fish and Wildlife Permit** is an optional task. The California Department of Fish and Wildlife (CDFW) requires notification for any project or activity that will take place in, or in the vicinity of, a river, stream, lake, its tributaries, or adjacent riparian areas. Section 1600 of the Fish and Game Code requires that state or local governmental agencies notify CDFW before construction of a project that will 1) divert, obstruct, or change the natural flow or the bed, channel, or bank of any river, stream, or lake, 2) use materials from a streambed; or 3) result in the

disposal or disposition of debris, waste, or other material containing crumbled, flaked or ground pavement where it can pass into any river, stream or lake. Should the project result in impacts to CDFW jurisdictional features (e.g., riparian vegetation), a Streambed Alteration Agreement will be prepared on behalf of the District for all project impacts to CDFW-jurisdictional features.

#### **Cultural Studies**

In addition to Biological Studies, ECORP will complete Cultural Resource Technical Studies. A record research of the Project area utilizing the California Historical Resources Information System (CHRIS) will be completed. ECORP will also request a Sacred Lands File Search from the California Native American Heritage Commission. Field surveys will be conducted by, or under the direct supervision of, a Registered Professional Archaeologist who meets the Secretary of the Interior's Professional Qualifications Standards for prehistoric and historical archaeologist. This study will comply with the requirements of the California Environmental Quality Act (CEQA) for the identification of cultural resources and will also be conducted pursuant to the requirements of Section 106 of the National Historic Preservation Act (NHPA) to support the USACE 404 permit, to the greatest extent possible.

State Route 4 is an historic-age road and the segment within the Project Area will be recorded during the field survey on a DPR 523 record for this study. In order to comply with Section 106 of the NHPA and CEQA regulations, ECORP will evaluate the Project Area segment of State Route 4 using the National Register of Historic Places (NRHP) and California Register of Historical Resources (CRHR) eligibility criteria. ECORP will carry out archival research to assist in the evaluation of the segment of State Route 4. The results of the cultural inventory and field evaluation will be incorporated into a technical report.

ECORP will assist the District in consulting with California Native American tribes under Assembly Bill 52 (AB 52). ECORP will draft all required notification letters, coordinate tribal meetings, maintain the AB 52 administrative record, and provide technical support to the District in determining whether or not Tribal Cultural Resources will be significantly impacted by the project. ECORP will document the consultation





### 3. APPROACH

process and comments discussed, and advise the lead agency on how to come to a conclusion to the consultation, as specified by AB 52.

At the completion of the environmental studies and documents identified above, an **Administrative Draft IS/MND** will be prepared for the District's review and comment. In addition to biological and cultural findings, the Administrative Draft IS/MND will include construction related impacts such as Air Quality/Greenhouse Gases, Paleontological Resources, Geology and Soils, Hazards and Hazardous Materials, Hydrology and Water Quality, Noise and Transportation.

On receipt of District comments on the Administrative Draft IS/MND and notices, ECORP will make the appropriate revisions to the documents. A Revised Administrative Draft IS/MND and notices will be prepared. ECORP will coordinate with the District to resolve all issues between administrative and final versions of the documents. ECORP will mail the Notice of Intent (NOI) to environmental stakeholders, publish the in local newspapers, and place public notice advertisements to announce the Draft IS/MND public/agency workshop in local newspapers. ECORP will also deliver public review copies of the Draft IS/MND and NOI to local libraries, and file the NOI and Draft IS/MND at the Calaveras County Clerk's Office.

After the conclusion of the 30-day public and agency comment period, ECORP will prepare draft responses to comments and make the appropriate revisions to the IS/MND. On completion of the Administrative Final IS/MND, ECORP will provide copies to the District for review and comment. ECORP will also prepare the draft Notice of Determination (NOD), draft CDFW Certification of Fee Exemption document, and draft project approval document.

With receipt of comments on the Administrative Final IS/MND, ECORP will finalize the IS/MND. ECORP will prepare the final NOD, CDFW Certification of Fee Exemption (if applicable), and project approval document based on any comments received from the District on the draft documents. ECORP will file the notices at the Calaveras County Clerk.

#### Deliverables

- Biological Resources Assessment
- Wetlands Delineation Report
- Section 404 Pre-Construction Notification
- Request for Water Quality 401 Certification
- Special Status Plant Survey
- CDFW 1602 Permit Application (to be determined)
- Cultural Resource Study
- AB52 Tribal Consultation Support
- Administrative Draft Initial Study / Mitigated Negative Declaration (IS/MND) Draft IS/MND
- Notice of Determination
- CDFW Certification of Fee Exemption (if required)
- Final IS/MND

#### GEOTECHNICAL INVESTIGATIONS

**Condor Technologies**, under subcontract to KASL, will prepare the geotechnical investigations for the Ebbetts Pass Reach 1 Project. The purpose of these investigations will be to:

- Evaluate excavatability of a new pipeline trench and for entry and receiving pits at pipe bore and case locations
- Evaluate the suitability of excavated material for re-use as trench backfill
- Provide geotechnical engineering recommendation for trench backfill
- Provide geotechnical design parameters for the new pipeline thrust blocks and pressure reducing station vaults.

Condor's services will be provided in two phases. Initially, Condor will conduct geologic mapping and assess ground conditions along the suggested and alternative transmission pipe alignments. This mapping will help identify subsurface concerns regarding pipeline alignment including potentially unstable fills or difficult rock excavations. The geotechnical mapping findings will be included in the Preliminary Design Report

After completion of the Preliminary Design Report and acceptance by CCWD of the proposed replacement water main alignment, Condor will investigate ground conditions, collect surface and subsurface samples for laboratory testing and





### 3. APPROACH

prepare a design level geotechnical report. The geotechnical report will include a description of surface and subsurface conditions along the proposed pipeline route, recommendations for earthwork including processing of onsite material suitable for engineered fill and specifications for site and subgrade preparation, fill compaction and cut slope stability. Results of corrosivity tests will be included.

Condor will submit application for encroachment permits to both Caltrans and Calaveras County Public Works Department. Copies of the encroachment applications will be submitted to CCWD.

#### Deliverables

- Geotechnical Mapping
- Geotechnical Report
- Applications for Encroachment Permits

#### PRESSURE REDUCING STATION EVALUATION

There are 12 pressure reducing stations (PRS) within the Reach 1 Project limits. The scope of work includes replacement / rehabilitation of these existing PRS facilities. Primarily, existing PRS have been installed to reduce pressures from the Reach 1 Transmission Pipeline to the branch service connections. The Reach 1 Pipeline is designed to carry up to 250 psig and the replacement pipeline improvements will include fully mechanically restrained joints with concrete thrust blocks at branch connections. Per the CCWD Standards, static water pressures delivered to CCWD customers should not exceed 120 psi at the lowest meter served when storage reservoirs are full or pressure reducing valves (PRV) are at their maximum setting.

Main line pressure reducing stations will be replaced with the placement of increased transmission pipeline diameter. For branch connections, each pressure reducing station will be reviewed individually. We will review operating records for all Reach 1 Stations and replace those PRS that have a history of operating and maintenance issues or failures. Where these stations have been operating satisfactorily, Cla-Val Company representatives will review current valve

conditions and make recommendations whether these valves, some which are up to 50 years old, should be replaced or rehabilitated. KASL will review the existing and projected downstream meter locations at each branch PRS and confirm that PRV settings will not result in static pressures above 120 psi at the lowest meter. To provide fail safe operation, we will review with CCWD the installation of pressure relief valves downgradient of each pressure reducing station to provide backup safety features and prevent high pressures from damaging downgradient services.

Based on field review conducted to date, there are existing Reach 1 pressure reducing stations with valve vault elevations set too low. These stations are allowing drainage to enter or "pool" at the PRS vault. At a minimum, these existing stations will be raised to proper grade.

#### Deliverables

- Technical Memo Identifying the Condition, Settings and Grades at Each of the Existing Reach 1 Pressure Reducing Stations and Recommendations Regarding Pressure Reducing Station Replacement or Rehabilitation.

#### PRELIMINARY DESIGN REPORT

The Preliminary Design Report (PDR) will include the findings and recommendations developed by KASL from the hydraulic network analysis, findings and recommendations developed by ECORP from the CEQA initial studies, results of cultural, historical and biological studies prepared for the CEQA documents, identification and limits of wetlands reconnaissance, geotechnical mapping included in the Phase 1 of the Condor provided services, results of tree surveys prepared by Sierra Nevada Arborists, pothole results from Arrow Construction and the pressure reducing station replacement / rehabilitation Technical Memo developed in cooperation with Cla-Val Company. Alternative and recommended Reach 1 Transmission Pipeline Alignments will be shown on the base mapping developed from the District supplied topographic surveys supplemented by the results of utility location, tree survey and potholing tasks. Alternative and recommended pipeline alignments will reflect coordination







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meetings with Caltrans and will respond to utility mapping provided by PG&E, AT&T, Comcast and other utility service providers in the Project area. The Preliminary Design Report will include pipeline design criteria, the preliminary design of pressure reducing stations to be replaced and those to be rehabilitated. Typical trench sections and high pressure water main details conforming to CCWD Standards will be included. Caltrans Standards for bore and case crossings of SR4 will also be included in the PDR.

CCWD may apply for USDA funding for the Reach 1 Water Transmission Pipeline Capital Improvement Project. Accordingly, the PDR will be prepared in a format acceptable to USDA. The Preliminary Design Report will comply with USDA Bulletin 1780-02, "Preliminary Engineering Reports for Water and Waste Disposal Programs". The Preliminary Design Report (or "Preliminary Engineering Report") shall, therefore, include:

- Project Planning
- Existing Facilities
- Need for Project
- Alternatives Considered
- Selection of an Alternative
- Proposed Project (Recommended Alternative)
- Conclusions and Recommendations

Cost estimates shall include life cycle cost analysis with consideration for capital costs, operation and maintenance costs and debt repayment.

KASL Consulting Engineers has previously prepared Preliminary Design Reports and Preliminary Engineering Reports for USDA funded pipeline projects. This experience, includes the Preliminary Engineering Reports prepared for the Copper Cove Raw Water Pipeline, Pump Station and Water Treatment Plant and for the Plymouth Pipeline Project.

KASL will submit to CCWD a draft PDR for review. The final PDR will incorporate CCWD review comments, additions and corrections.

#### Deliverables

- Draft Preliminary Design Report
- Final Preliminary Design Report

#### STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

**Thunder Mountain Enterprises (TME)** will prepare the SWPPP. The SWPPP will be prepared in conformance with Caltrans format. The SWPPP shall conform to the Caltrans Stormwater Quality Handbooks, Project Planning and Design Guide, Stormwater Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual, Construction Site Best Management Practices (BMPs) Reference Manual (CTSW-RT-11-255.08.01). A draft SWPPP plan shall be submitted to Caltrans for review and comment and any revisions / changes made accordingly. The project's Storm Water Pollution Prevention Plan will conform to the requirements of the Construction General Permit Order No. 2012-0006-DWQ, NPDES No. CAS000002 and, with the authorization of the District, we will register the project, upload Permit Registration Documents (PRD's) with the State's Stormwater Monitoring and Report Tracking System (SMARTS) and prepare the Notice of Intent (NOI) with the State Water Resources Control Department for District certification. The Project's Waste discharge Identification (WDID) number will be shown on their Drawings.

Sedimentation and erosion control recommendations prepared as part of the SWPPP will be incorporated in the Project design documents. These will, typically, be shown beginning at the 50% or the 90 submittal level.

#### Deliverables

- Stormwater Pollution Prevention Plan
- Uploads to the Department of Water Resources SMART System
- Notice of Intent
- WDID Number

#### PROJECT SEQUENCING PLAN

A project sequencing plan will be prepared with the 50% design submittal and reviewed with the District. To avoid scheduling issues during construction, the sequencing plan will identify how construction is to proceed and what steps (testing, disinfection, District acceptance) need to be completed before any section of the existing transmission main can be replaced with the new





### 3. APPROACH

pipeline. It is suggested that project sequencing could begin with the completion of the most westerly pipeline replacement west of the Forest Meadows entrance and then proceed east towards Avery. Project sequencing will include provisions for reducing, to a minimum, the number of existing CCWD customers impacted by temporary service interruptions. Safeguards to prevent bacteriological contamination will be included in the Sequencing Plan. The Sequencing Plan will also include consideration for reducing, to a minimum, traffic control issues along SR4 and at intersecting Calaveras County streets. Final sequencing plans will incorporate CCWD review comments and will be included in the 90% and 100% design submittals.

#### Deliverables

- Draft Sequencing Plan
- Final Sequencing Plan

#### DESIGN DRAWINGS

In response to the District's RFP, KASL will submit to CCWD 50%, 90% and 100% Design Drawings. The pipeline improvement plans will be prepared on the topographic survey base sheets supplemented with tree survey, pothole, utility, structures, easement, right of way, property lines and intersection data, as appropriate. The plan and profile sheets will be prepared at 1" = 20', horizontal, and 1" = 10', vertical, scale. The drawings will include project details, tie-ins to service area branch pipelines, demolition / abandonment details, bore and case details, pressure regulating stations to be replaced, rehabilitated and raised to grade, air release / vacuum relief valves, blow off valves, hydrants and other CCWD approved appurtenances. All drawings will conform to CCWD and to Caltrans Standards, as appropriate.

The plan and profile sheets will include stations and invert elevations for fittings, angle points and will include pipeline slopes and survey / construction control points.

Submittals will include cover sheet, sheet index, vicinity maps, index map(s), general notes, construction notes all in accordance with CCWD Standards.

The 50% submittal will be based on the pipeline alignment and pipeline appurtenance recommendations included in the Preliminary Design Report. Following the 50% design drawing submittal, draft sequencing and traffic control plans will be prepared and included in the 90% submittal. The 90% submittal will reflect the review comments received from CCWD on the 50% design. Similarly, the 100% submittal will reflect the District's review comments on the 90% submittal.

#### Deliverables

- 50% Design Drawings
- 90% Design Drawings
- 100% Design Drawings

#### PROJECT MANUAL

Together with the 50%, 90% and 100% Design Drawing Submittals, KASL will prepare and submit to CCWD the Project Manual. The Project Manual will include Front End Documents; Advertisement for Bids, Instructions to Bidders, Bid Form, Bidders Bond, Notice of Award, Performance Bond, Payment Bond, Sample Agreement Form, State and Federal Wage Decisions and supplemental USDA documents should USDA funds be secured for this Project. These supplemental documents would include Standard General Conditions of the Construction Contract, Supplementary Conditions, Application for Payment Forms, Change Order Forms, Notice to Proceed, Certificate of Substantial Completion and Project Sign Details.

The Project Manual will include Technical Specifications prepared in conformance with CCWD Standards. These will be prepared in CSI or "Caltrans" type format as directed by CCWD.

Appended to the Project Manual will be County and Caltrans Encroachment Permit Documents, the Geotechnical Report, the Mitigation and Monitoring Reporting Program (MMRP), stream and wetland delineations and other pertinent CEQA documents. The SWPPP prepared for the Project will either be appended to the Project Manual or available as a separate document.





### 3. APPROACH

The 50% design submittal will include draft Technical Specifications. The 90% Project Manual will include the draft front end documents, technical specifications and appendices and will respond to review comments from the District. The 100% Project Manual submittal will respond to review comments from the District and will serve as a complete Project Manual ready for bidding.

#### Deliverables

- 50% Project Manual
- 90% Project Manual
- 100% Project Manual

#### MEETINGS / SITE VISITS / PROJECT MANAGEMENT

KASL will prepare agenda, meeting notes and meeting directives for project meetings at kick-off, at the Preliminary Design Report submittal and for review at the 50% and 90% Design Drawing and Project Manual deliverables. In addition, KASL will prepare agenda, meeting notes and directives for the Caltrans Coordination Meeting. KASL will review with the District Project Manager task submittals previously described herein, including utility response / mapping, pothole results, tree surveys, hydraulic network analyses, CEQA Initial Studies and follow up environmental documents, geotechnical investigations, pressure reducing stations, SWPPP and Project Sequencing Plan. These reviews will either be conducted at in-office meetings or by conference calls with the District Project Manager.

Upon completion of the draft Preliminary Design Report, KASL will present findings and recommendations to the CCWD Board of Directors or to the Board's Engineering Committee. This presentation will be followed by a similar presentation, typically at the 90% or 100% design stage, to review the Reach 1 Transmission Main Pipeline Design Improvements ready (or nearly ready) to advertise for bidding.

Throughout the design development tasks the KASL Project Manager and KASL Project Engineer will be conducting field visits to develop or to confirm design opportunities, constraints and decisions and to assure coordination with

subconsultants, utility representatives, Caltrans and County officials.

#### Deliverables

- Meeting Agendas, Notes, Directives
- Power Point Presentation at Preliminary Design Report Stage
- Power Point Presentation at 90% or 100% Contract Documents Stage

#### BID PERIOD SERVICES / ADDITIONAL CONFORMED SET

As directed by the District, bid period services shall include but may not be limited to:

- Thirty-five (35) printed copies of the Project Manual including Appendices
- Thirty-five (35) printed sets of full size drawings
- CD-ROM containing all Contract Documents

As stated in the RFP, CCWD will conduct the public bid and advertisement, distribute Contract Documents to prospective bidders, maintain the planholders list, issue addenda and issue RFI's during the bid period. As part of the Bid Period Services, KASL will attend the pre-bid job walk, prepare addenda and prepare written responses to RFI's for distribution by CCWD.

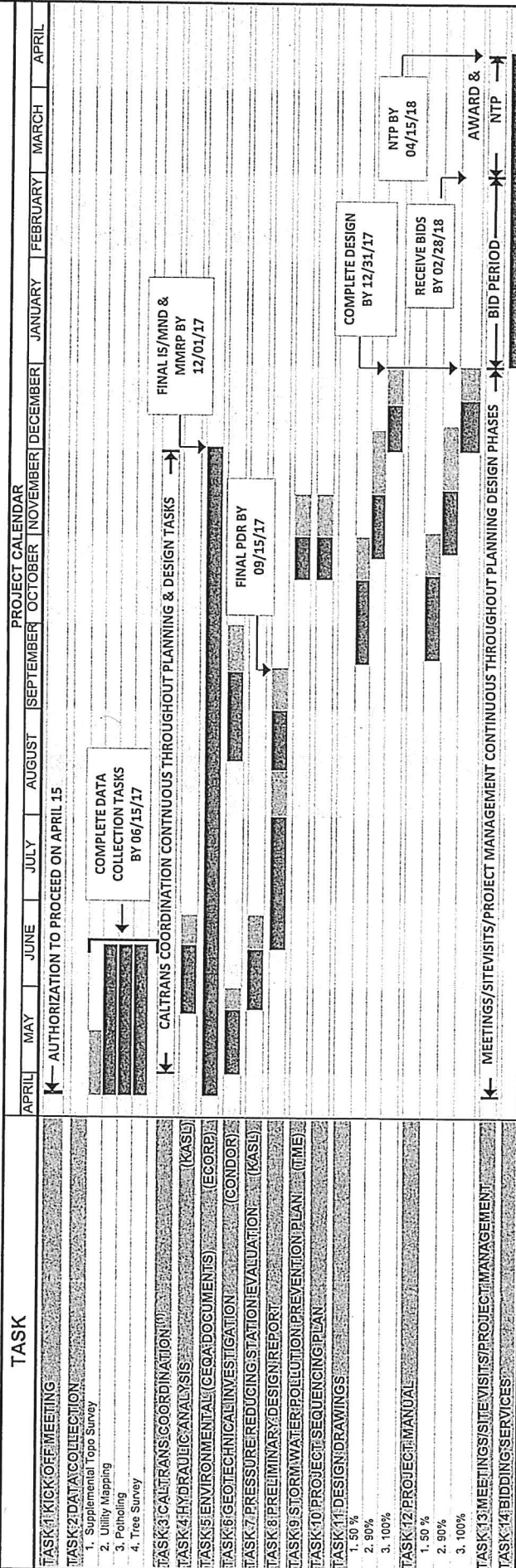
At the completion of the bid period. KASL will prepare fifteen (15) printed copies of conformed sets of the Project Manual and fifteen (15) full size and half size conformed plan sets and an updated CD-ROM of all Contract Documents.

#### Deliverables

- Printed and Electronic Copies of Bid Set, Contract Documents as Itemized Above
- Addenda and RFI During the Bid Period
- Printed and Electronic Copies of Conform Set, Contract Documents as Itemized above



PROPOSAL FOR DESIGN ENGINEERING SERVICES, EBBETTS PASS REACH 1  
 WATER TRANSMISSION PIPELINE CAPITAL IMPROVEMENT PROJECT  
 4. PROJECT SCHEDULE

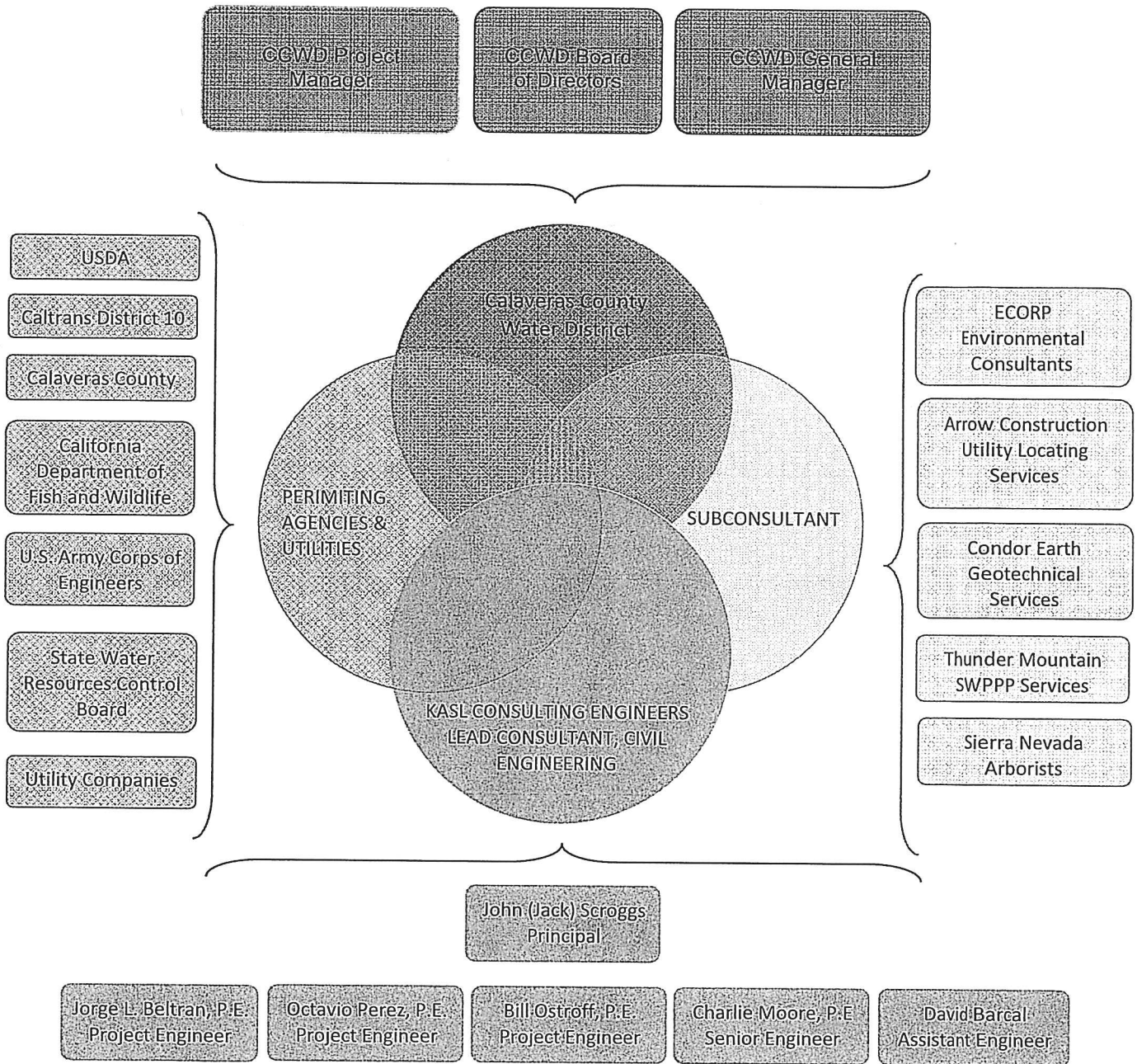


CCWD  
 KASL Project Team





5. PROJECT TEAM





**5. PROJECT TEAM**

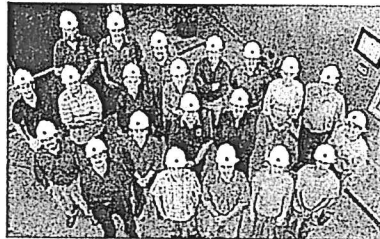
The Team assembled by KASL for the Ebbetts Pass Reach 1 Water Transmission Pipeline Project consists of highly qualified consultant firms and staff with the requisite experience to provide the Calaveras County Water District (CCWD) with the design services needed to successfully complete the assignment. Following is a succinct description of the Project Team and Key Staff assigned. Complete resumes are included in the Appendix of our proposal.

**CIVIL ENGINEERING/PROJECT MANAGEMENT**

**KASL Consulting Engineers, Inc.**, is a City of Citrus Heights-based, locally owned, professional civil engineering and land surveying firm. KASL provides civil engineering, water resources engineering and land surveying services to public agencies and to private development interests throughout Northern California, the Foothill Communities and the Western United States.

Founded in 1982, our firm offers expertise in water resources management, pipelines, treatment and supply, road improvement projects, bikeways, streetscape improvements, traffic signal design, traffic engineering, wastewater engineering, storm drainage improvements, utility plans, street lighting design, computer modeling, mapping and surveying.

With support from our subconsultants we also provide our clients with public outreach, structural engineering, geotechnical engineering, environmental assessments, pavement rehabilitation analysis and design, and other professional services, as required. Our current staff includes five Registered Civil Engineers and one Registered Traffic Engineer.



*The KASL Team*

The following Key Staff are immediately available to serve the CCWD to provide engineering design services for the Ebbetts Pass Reach 1 Water Transmission Pipeline Project.

**KASL KEY PERSONNEL**

**John (Jack) Scroggs, P.E.  
Principal-in-Charge and Project Manager**

The Project Manager for all public works projects and water systems design and construction projects conducted by our firm is **Jack Scroggs**. Mr. Scroggs is a California Registered Civil Engineer (C 26388) and California Registered Traffic Engineer (TR 1733). Jack is also Registered Civil Engineer in Nevada (015866).



**KEY TASKS FOR THIS PROJECT**

Mr. Scroggs will serve as the Principal-in-Charge and Project Manager for this project. Jack will be the primary point of contact with the District throughout the assignment. Mr. Scroggs will direct the project design and will coordinate the work of our sub-consultants. He will lead the QA/QC services, and will approve, sign and stamp all engineering documents prepared for the District. Mr. Scroggs will directly monitor the project budget and deliverable schedules. He will lead/participate and coordinate all project meetings.

**SUMMARY OF EXPERIENCE**

Mr. Scroggs has supervised and directly participated in the preparation of study reports, improvements plans, specifications and cost estimates for water system master plans, water system replacement and improvement plans, water booster pump stations, water storage tanks and water and wastewater treatment facilities. Mr. Scroggs has over 40 years of experience in civil engineering and water resources engineering.

His experience includes serving the lead Civil Engineer and Project Manager for numerous water pipeline, wastewater pipeline, water treatment, water storage, booster pumps, wastewater pretreatment, and wastewater reclamation projects completed for CCWD





## 5. PROJECT TEAM

### **William (Bill) Ostroff, P.E., Project Engineer**

Mr. Ostroff is a California Registered Civil Engineer (C 69221) with almost 16 years of experience with KASL preparing improvement plans for utility rehabilitation and improvement projects. He has conducted extensive network modeling of water and sewer systems, and he has completed numerous water studies and hydraulic modeling of water and sewer networks for both proposed and existing systems.



#### **KEY TASKS FOR THIS PROJECT**

Mr. Ostroff will serve as Project Civil Engineer for this assignment and will perform civil engineering planning and design services for the Transmission Pipeline design. Bill will also assist with permitting coordination.

#### **SUMMARY OF EXPERIENCE**

Bill's experience includes serving as the Project Engineer for the Plymouth Pipeline Project, the Greenwood Water Treatment Plant and Transmission Main and the River Pines Public Utility District Water Rehabilitation Study and Design Project Water Rehabilitation Study and Design Project. Mr. Ostroff actively manages the Orange Vale Water Company distribution system providing water system modeling, engineering design and developing plans for construction. ■

### **Octavio Perez, P.E., Project Engineer**

Mr. Perez is a California Registered Civil Engineer (C 69969) with over 13 years of civil engineering design experience. While at KASL, Octavio has conducted detailed design of sewer collection and storm drain conveyance, water distribution for public



works and residential land development projects in California, Nevada, New Mexico, Hawaii and Arizona.

#### **KEY TASKS FOR THIS PROJECT**

Mr. Perez will serve as a Project Civil Engineer for this assignment and will perform civil engineering design, development and plan preparation.

#### **SUMMARY OF EXPERIENCE**

Mr. Perez has served as Project Engineer and prepared utility design and plans for construction for multiple subdivisions and capital improvement projects in California, Hawaii, and Arizona. He was the Project Design Engineer in the Skycrest Well Project (Citrus Heights Water District). ■

### **Jorge L. Beltran, P.E., QD/P Project Engineer**

Mr. Beltran is a California Registered Civil Engineer (C 75576) with over 15 years of experience preparing drainage studies, designing storm drain systems and preparing plans for construction of roadways, utilities and public works improvements.



Mr. Beltran is also very knowledgeable of the Construction General Permit. He has prepared, revised and amended hundreds of Storm Water Pollution Prevention Plans and Storm Water Pollution Control Plans for Caltrans and Non-Caltrans Projects.

#### **KEY TASKS FOR THIS PROJECT**

Mr. Beltran will serve as a Project Civil Engineer for this assignment and will prepare plans for construction and review of the Storm Water Pollution Prevention Plan and will assist with utility coordination and permitting.

#### **SUMMARY OF EXPERIENCE**

Mr. Beltran has served as Project Engineer and prepared utility design and plans for construction for multiple single family subdivisions and capital improvement projects. In addition, Mr. Beltran is





## 5. PROJECT TEAM

very knowledgeable of the Construction General Permit and has prepared, revised and amended hundreds of Storm Water Pollution Prevention Plans and Storm Water Pollution Control Plans for Caltrans and Non-Caltrans Projects. ■

### **Charlie Moore, P.E. Senior Project Engineer**

Mr. Moore is a California Registered Civil Engineer with over 40 years of experience in public works and private consulting. Since 2000, Mr. Moore has served as a Senior Project Engineer with KASL. Between 1985 and 2000 he served as District Engineer for the Calaveras County Water District.



Mr. Moore has served as a Senior Project Engineer responsible for engineering design services and for Quality Assurance and Quality Control of water systems design rehabilitation and expansion projects, water pumping systems, booster pumps, lift stations, pipeline projects, storage tanks, and water treatment plants throughout northern California, New Mexico, Arizona and Hawaii.

### **KEY TASKS FOR THIS PROJECT**

Mr. Moore will serve as a Senior Project Engineer responsible for providing Quality Assurance and Quality Control technical assistance for the project. If requested, Charlie will also provide construction support for the project.

### **SUMMARY OF EXPERIENCE**

As a Senior Engineer of KASL, Mr. Moore has served as the Senior Project Engineer responsible for engineering design services for water treatment, waste water treatment, pump stations and pipeline projects. He has also provided QA/QC for numerous pipeline and booster pump projects

### **ENVIRONMENTAL STUDIES**

ECORP Consulting, Inc. (ECORP) will conduct the required environmental investigations, prepare the environmental studies and submittals to the State Clearinghouse for project approval.

ECORP will conduct environmental review including CEQA checklist, initial studies, field surveys (biological, bird, cultural and historical resources). ECORP will also prepare the biological and cultural/historical resources reports, conduct records search and document tribal consultation records (phone call log, emails, letters, etc.), and prepare all submittals to the State Clearinghouse.

ECORP's key staff will also conduct wetland delineations of stream and/or wetland crossings within the project limits and will prepare the application, make all correspondence, provide construction details, and perform all tasks to secure and obtain the California Department of Fish and Wildlife Section 1600 permit and US Army Corps of Engineer Section 401/404 permits.

### **ECORP KEY PERSONNEL**

### **Chris Stabenfeldt, AICP – Project Manager**

Mr. Stabenfeldt is a certified planner, team and project manager, and environmental analyst with more than 33 years of professional environmental and planning consulting experience. He has served in a broad range of roles including group manager, office manager, director of business development, and project manager. He has managed comprehensive and complex environmental documents and planning projects for public agencies and private sector clients including documentation and related compliance activities under NEPA and CEQA.

Mr. Stabenfeldt's experience on projects in California has ranged from General Plans and planning staff support to environmental documents addressing a broad spectrum of project types. He is extremely familiar with local government operations having worked on projects for over 100 jurisdictions throughout California, including multiple projects in the Mountain Counties region. He has managed numerous environmental documents for public projects,





## 5. PROJECT TEAM

including water and sewer infrastructure, streets, bridges, storm drainage, parks, and public facilities.

### KEY TASKS FOR THIS PROJECT

Mr. Stabenfeldt will manage all environmental tasks for this project including preparation and submittal of required permit documentation.

### SUMMARY OF EXPERIENCE

Mr. Stabenfeldt's recent NEPA and CEQA experience includes the ongoing project management of several water projects including the Environmental Initial Review and Environmental Initial Study (EIR/EIS) for the Forest Public Utility District, the NEPA/CEQA documentation for the Amador Water Agency Pioneer Water Rehabilitation Project and the Nevada Irrigation District Regional Water Supply Project EIR. ■

### Jeremy Adams – Cultural Resource Task Leader.

Mr. Adams is an Architectural Historian and Assistant Cultural Resources Manager with 7 years' experience in preparing many types of studies for cultural resources of the built environment. He meets the Secretary of the Interior's Professional Qualifications Standards for architectural history and history.

Jeremy is well versed in the laws and regulations of Section 106 of the National Historic Preservation Act (NHPA) and California Environmental Quality Act (CEQA). Mr. Adams has conducted evaluations of eligibility for numerous types of built-environment resources to the National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), and California Historical Landmarks list.

### KEY TASKS FOR THIS PROJECT

Mr. Adams will serve as Cultural Resources Task Leader for all architectural history components of this project.

### SUMMARY OF EXPERIENCE

Mr. Adams has acted as Architectural Historian and conducted impact assessments, including the preparation of historic contexts, property histories, and carried out architectural site documentation

for buildings, structures, and historical landscapes. He has also prepared built-environment impact assessments and has assisted with the development of mitigation measures for CEQA and Section 106 projects for numerous projects at sites throughout northern and central California. ■

### Dustin Brown – Biological Resource/Regulatory Task Leader.

Mr. Brown is a Senior Wildlife Biologist with more than 11 years of professional experience (over 8 years with ECORP). He has conducted numerous biological assessments and surveys, which have included special-status species surveys, herpetological, benthic micro invertebrate, fisheries studies, jurisdictional wetland delineations, nesting bird surveys, open space preserve monitoring, tree surveys and arborist reports, rare plant and floristic surveys, and Valley elderberry longhorn beetle surveys.

Mr. Brown has conducted studies and prepared permits documents to meet the regulatory requirements of the federal Clean Water Act (Sections 404 and 401), the federal Endangered Species Act (Section 7), the California State Endangered Species Act (2050-2068), and the California Fish and Game Code Section 1602 governing activities that may affect fish and wildlife habitats associated with streams and lakes. He has developed several Biological Assessments per the USFWS guidelines and has worked on a variety of CEQA and NEPA documents.

### KEY TASKS FOR THIS PROJECT

Mr. Brown will serve as principal investigator for all biological field surveys and assessments of this project.

### SUMMARY OF EXPERIENCE

Mr. Brown's representative Professional Experience as principal biological investigator and field surveyor in Calaveras County includes work over Youngs Creek, Indian Creek, Jackson Creek and the Mokelumne River. ■

### Dorienne Mendoza – CEQA Task Leader.

Ms. Mendoza is an associate environmental scientist with approximately 5 years of professional environmental and planning





## 5. PROJECT TEAM

consulting experience. She is experienced in CEQA/NEPA compliance and documentation, compliance with various environmental permitting processes, and biological resources monitoring and surveys. She has been responsible for research, preparation, and management of comprehensive CEQA/NEPA documents for public agencies and private sector clients and documentation for CEQA/NEPA-related compliance activities including ISs, NDs, MNDs, EIRs, EAs, and EISs.

Dorienne has also prepared biological resource assessments in support of CEQA documentation and preparation of Biological Assessments in support of compliance with Section 7 of the federal Endangered Species Act and NEPA documentation. Additionally, she assists with regulatory permitting, including the preparation of USACE Clean Water Act Section 404 permits, RWQCB Clean Water Act Section 401 Water Quality Certifications, and CDFW 1602 Streambed Alteration Agreements.

### **KEY TASKS FOR THIS PROJECT**

**Ms. Mendoza will assist in completing and preparing documents for regulatory permitting.**

### **SUMMARY OF EXPERIENCE**

Ms. Mendoza's relevant and recent experience includes project coordination, preparation, and distribution of documents, studies and reports in support of CEQA/NEPA compliance for utility projects located throughout northern California, including: Amador County, Placer County, Sonoma County and Sacramento County. ■

### **Ariel Miller – Lead Biologist.**

Ms. Miller has over 5 years of professional experience conducting wetland delineations and special-status species surveys as well as over two years of professional experience conducting floristic surveys. Ms. Miller is trained in performing California red-legged frog habitat assessments and is permitted to handle the species. Ms. Miller's expertise extends throughout northern and central California with emphasis on vernal pool, riverine, annual grassland, oak woodland, and coniferous forest communities within the Central Valley and foothills.

Ariel is a trained wetland delineator specializing in special-status species surveys, general floristic surveys, habitat assessments, biological monitoring, and wetland delineations.

### **KEY TASKS FOR THIS PROJECT**

**Mr. Miller will assist in the preparation of the Biological Resource Assessment and Rare Plant Survey Report and will assist in the wetland delineation for this project.**

### **SUMMARY OF EXPERIENCE**

Ms. Miller's representative Professional Experience that meets the requirements of this project Includes the delineation of wetlands for utility and roadway projects located in Amador County, Sacramento County, ■

### **Lisa Westwood, RPA – Cultural Resource Principal Investigator/Tribal Consultation.**

Ms. Westwood is a Registered Professional Archaeologist (RPA) with more than 23 years of cultural resource management experience. She exceeds the Secretary of the Interior's Professional Qualifications Standards for prehistoric and historical archaeologist.

Lisa serves as Director of Cultural Resources for ECORP, as principal investigator and task manager for cultural resources services required for compliance with Section 106 of the National Historic Preservation Act and CEQA. Her technical areas of expertise include advanced Section 106 compliance and consultation, preparation and negotiation of agency agreement documents (Programmatic Agreements and Memoranda of Agreement), tribal consultation, cultural resources law, human bone (osteological) identification and analysis, historical archaeology, and lithic debitage identification. She is well versed in impact assessment and development of mitigation measures for CEQA and Section 106 projects, including on-call and task-order based contracts.

### **KEY TASKS FOR THIS PROJECT**

**Ms. Westwood will serve as Director of Cultural Resources for this project and will oversee the preparation of the Cultural Resources Report**





## 5. PROJECT TEAM

### SUMMARY OF EXPERIENCE

Ms. Westwood's Cultural Resources Principal Investigator experience includes the preparation of Archeological Survey Reports and Extended Phase 1 Reports for projects throughout northern California including Calaveras County, Placer County, Del Norte County and Lassen County.

### GEOTECHNICAL INVESTIGATIONS

**Condor Earth Technologies, Inc. (Condor)** will conduct the required geotechnical investigations and prepare the Geotechnical Mapping recommendations and reports for the Preliminary Design Report and the Contract Document.

Condor has extensive CCWD and pipeline experience specific to the proposed Reach 1 project. Condor provided geotechnical investigations for replacement of the Ebbetts Pass Techite Pipeline and materials testing and special inspections for the Ebbetts Pass Reach 3A Pipeline. These relevant CCWD projects, along with other pipeline projects in the Motherlode region, demonstrate their qualifications on a wide range of geotechnical projects.

### KEY PERSONNEL

**Ron Skaggs, P.E., G.E. – Vice President of Engineering Services.**

Mr. Skaggs is a California Registered Professional Engineer (C 44588) and Geotechnical Engineer (GE 2295) with over 31 years of professional experience. Mr. Skaggs' experience includes a broad range of geotechnical design and construction projects, construction management, construction quality control, waste characterization and containment design, storm water (best management practice (BMP) systems, and design and construction of groundwater recovery systems. Mr. Skaggs also specializes in pavement rehabilitation using full depth reclamation (FDR) pavement recycling.

### KEY TASKS FOR THIS PROJECT

Mr. Skaggs will manage the geotechnical components of this project

### SUMMARY OF EXPERIENCE

Mr. Skaggs showcase project management experience includes over 600 Geotechnical engineering studies for institutional, commercial, and industrial projects throughout California. ■

**Andrew S. Kositsky, P.E., G.E. – Senior Civil/Geotechnical Engineer.**

Mr. Kositsky is a registered Professional Engineer (C 55758) and Geotechnical Engineer (GE 2532) with over 20 years of experience in geotechnical and design engineering and provides geotechnical services for design and construction.

Mr. Kositsky is Condor's Senior Civil/Geotechnical Engineer responsible of geotechnical investigations, geotechnical aspects of design, tunnel and shoring design and observation and testing performed during construction. Responsible engineer for materials testing laboratory

### KEY TASKS FOR THIS PROJECT

Mr. Kositsky will direct and review the geotechnical investigations of this project

### SUMMARY OF EXPERIENCE

Selected projects that illustrate Mr. Kositsky's project management experience includes geotechnical consultation, materials testing and structural analysis of pipe stability for the engineering department of Tuolumne Utilities District (TUD) ■

### STORMWATER POLLUTION PREVENTION

**Thunder Mountain Enterprises (TME)** will provide the Stormwater Pollution Prevention Plan development and implementation for the project. TME provides comprehensive Soil and Water Management Services, including Design, Construction and Consulting relating to Storm Water Quality Compliance, Erosion & Sediment Control, Ponds & Containment systems, Slope Stabilization & Slide Repair, Environmentally Progressive Driving Surfaces, Dust Control, Land Restoration, and Low Impact Development Solutions.





## 5. PROJECT TEAM

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Licenses and certifications of the TME team include:

- Class A - General Engineering
- CPESC - Certified Professional in Erosion & Sediment Control
- CPSWQ - Certified Professional in Storm Water Quality
- Qualified SWPPP Developer/ Practitioner
- CASQA Qualified Trainer of Record
- 24 hr Caltrans Certified SWPPP
- Trainer of Record for Construction General Permit

### **KEY TASKS FOR THIS PROJECT**

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TME will prepare and manage the Stormwater Pollution Prevention Plan (SWPPP) for the project.

### **SUMMARY OF EXPERIENCE**

Relevant Highlights of TME SWPPP preparation and expertise of the Construction General Permit and Caltrans Stormwater Permit include the preparation of over 1,000 Storm Water Pollution Prevention Plan Designs and the management and monitoring of Storm Water on over 4,500 acres of active construction sites.

### **TREE SURVEY**

Sierra Nevada Arborists is Operated and Managed by Edwin Stirtz Certified Arborist (WE0510A).

### **KEY TASKS FOR THIS PROJECT**

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Sierra Nevada Arborists will conduct the Tree Survey for the project and will prepare the Tree Survey Report.

### **SUMMARY OF EXPERIENCE**

Mr. Stirtz is a member of the American Society of Consulting Arborists. Mr. Stirtz has a diverse and varied background with a number of complimentary experiences, including 12 years Federal & Municipal Parks and Landscape Maintenance and Construction, and 22 years Commercial Arboriculture with resource management and forestry components, in which he has conducted tree inventories and surveys for projects in excess of 30,000 trees. ■







6. QUALIFYING EXPERIENCE

**KASL CONSULTING ENGINEERS**

**PLYMOUTH PIPELINE PROJECT**

**Location:** Plymouth, CA. Amador County  
**Reference:** Jeff Gardner, City Manager  
City of Plymouth  
9426 Main Street  
Plymouth, CA  
(209) 245-6941

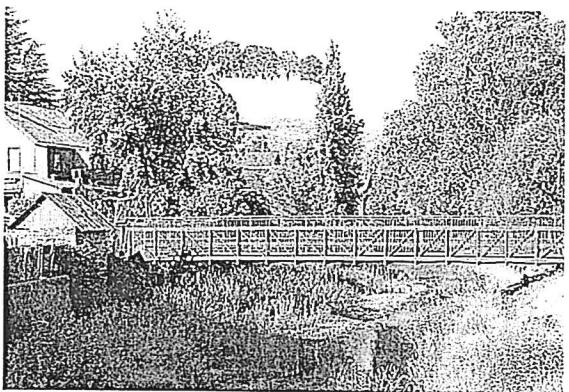
**Dates:** 2006-2009

RELEVANCE TO PROJECT	
CCWD PROJECT	<input type="checkbox"/>
USDA FUNDING	<input checked="" type="checkbox"/>
CALTRANS PERMITTING	<input checked="" type="checkbox"/>
ENVIRONMENTAL PERMITTING	<input checked="" type="checkbox"/>

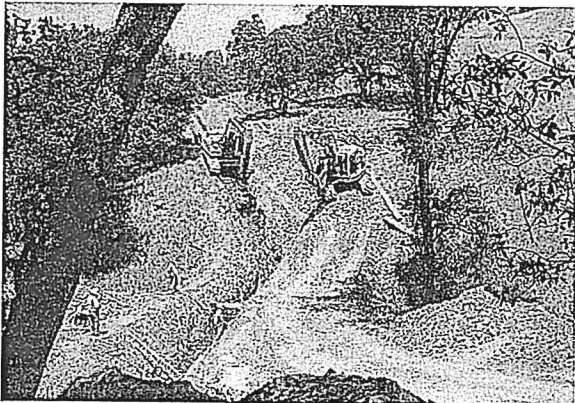
The Plymouth Pipeline Project includes approximately 7.3 miles (38,540-LF) of 12-inch diameter water transmission main. The project delivers treated water from the Amador Water Agency's Water Treatment Plant in Sutter Creek to the City of Plymouth's Water Storage Tank in Plymouth.

A new pedestrian bridge was designed to support the pipeline crossing of Sutter Creek.

The pipeline design included extensive network computer modeling, surge analysis and extended period simulations. After a calibrated network model was developed over 100 alternative storage and transmission main scenarios were developed and reviewed to optimize transmission main size and the location and capacity of future storage tanks. The system was designed for operating pressures of up to 300 psi with elevation changes along the pipeline in excess of 700 feet.



**Plymouth Pipeline Project Sutter Creek Crossing**



**Plymouth Pipeline Construction**

Final design and construction of the pipeline alignment traverses 20 privately owned parcels and various public right of ways within Amador County and the cities of Sutter Creek, Amador City and Plymouth. KASL developed legal plats and descriptions for easements on privately owned Parcels and identified the limits of existing easements and right of ways for the remaining pipeline alignment

The project also includes 5 live stream crossings necessitating permits from the U.S. Army Corps of Engineers, California Fish and Wildlife Service, California Department of Fish and Game and California Regional Water Quality Control Board.

KASL Consulting Engineers prepared the **Preliminary Design Report**, performed topographic surveys, designed the pipeline improvements, obtained the necessary California Fish and Wildlife and Amador County permits for project approval, adjusted the alignment to mitigate environmental and stakeholder concerns, prepared construction plans and technical specifications for bidding purposes and developed cost estimates for the project. Jack Scroggs served as the Project Manager, Bill Ostroff and Charlie Moore were the Project Engineers.







**6. QUALIFYING EXPERIENCE**

**Jenny Lind Water Treatment Plant and Jenny Lind Water Treatment Plant Expansion**

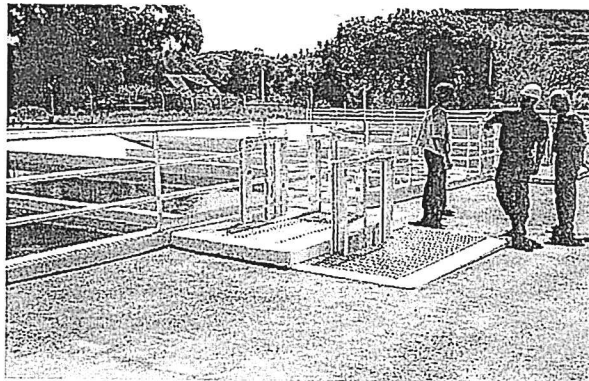
**Location:** Calaveras County  
**Reference:** Charles Palmer, District Engineer  
 Calaveras County Water District  
 120 Toma Ct.  
 San Andreas, CA 95249  
 (209) 754-3174

RELEVANCE TO PROJECT	
CCWD PROJECT	<input checked="" type="checkbox"/>
USDA FUNDING	<input type="checkbox"/>
CALTRANS PERMITTING	<input type="checkbox"/>
ENVIRONMENTAL PERMITTING	<input checked="" type="checkbox"/>

**Dates:** 1990-2000

KASL prepared the improvement plans for the Jenny Lind Water Treatment Plant on two occasions: from its initial expansion from 1 MGD to 2 MGD, and then again on its expansion from 2 MGD to 5 MGD Capacity.

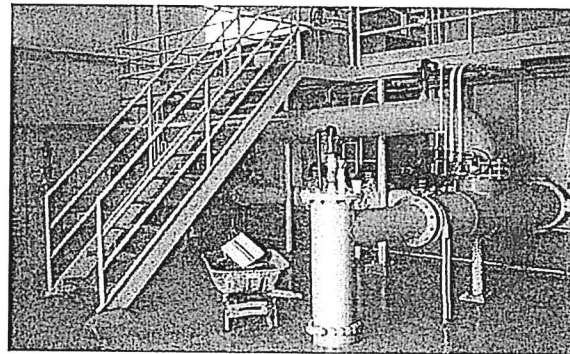
It is important to notice that the 2 MGD plant continued to operate and serve the Jenny Lind community during the plant expansion process.



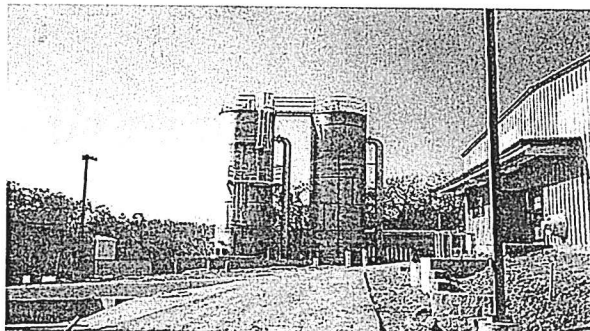
**Backwash Recovery Basins**

Expansion into the 5 MGD plant included two clearwells, backwash recovery basins, standby power and finished water pumping. The Jenny Lind WTP delivers treated water via a 16 inch diameter, 1 mile long transmission main to 2 MG (Tank "A") capacity storage tank, booster pumps and a 1 MG (Tank "B") capacity storage tank which serves higher elevation demands. Jenny Lind Transmission Main, Booster Pump and Storage Tank improvements were also designed by KASL Consulting Engineers.

The 2 MGD plant using two, 1 MGD Microfloc treatment units, was designed to provide the planned expansion. After operating for approximately 10 years as a 2 MGD plant the Jenny Lind plant was expanded to 5 MGD. Pre-ozonation was added with the plant expansion.



**1 MGD Microfloc WTP (Typical of 5)**



**Ozone Contact Towers**





6. QUALIFYING EXPERIENCE

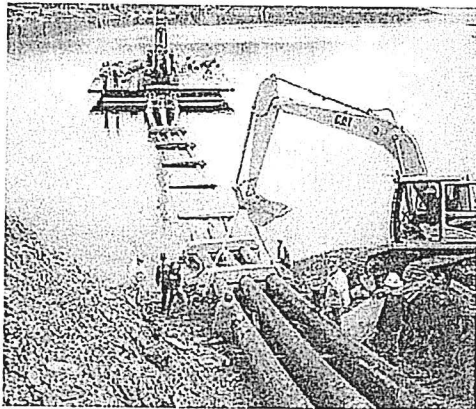
**COPPER COVE RAW WATER MAIN, PUMP STATION AND WATER TREATMENT PLANT**

**Location:** Calaveras County  
**Reference:** Charles Palmer, District Engineer  
 Calaveras County Water District  
 425 E St. Charles Street  
 120 Toma Ct. CA 95249  
 (209) 754-3174

**Dates:** 1990 - 2001

RELEVANCE TO PROJECT	
CCWD PROJECT	<input checked="" type="checkbox"/>
USDA FUNDING	<input checked="" type="checkbox"/>
CALTRANS PERMITTING	<input type="checkbox"/>
ENVIRONMENTAL PERMITTING	<input checked="" type="checkbox"/>

The Copper Cove Raw Water Main and Pump Station Project included engineering design and construction management services for two pump stations (Stage 1 and Stage 2) together with approximately 1000 feet of 16" diameter HDPE pipe and some 6,500 feet of 24 inch diameter Ductile Iron Pipe. The Stage 1 pump station included three 60 hp submersible pumps and motors for water intake from Tulloch Reservoir. The purpose of the project was to convey up to 4 MGD (2800 gpm) of raw water to the new Copper Cove Water Treatment Plant initially, with ultimate delivery of 8 MGD.



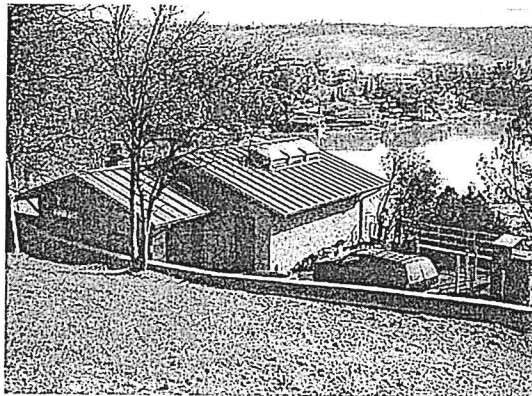
Lake Tulloch Intake Facilities

Prior to the preparation of improvement plans and specifications, evaluation of alternative pump station locations and pipeline alignments. Alternatives were performed for engineering feasibility, cost and environmental impact mitigation. A **Project Engineering Report** was prepared to secure USDA funding for the raw water facilities and for the Copper Cove Water Treatment Plant. A hydraulic network model of the Copper Cove supply, storage, booster pumping and piping system was prepared to help

design the raw water main, pump station and treatment plant improvements.

The Copper Cove WTP Project included the design of recovery system for backwash water, clearwell, finished water pump station and pump building, standby power and transmission improvements.

The water treatment plant project scope of work included the preparation of a Pre-Design Report which evaluated alternative water treatment plant processes and capacities to meet the needs of the Copper Cove Service Area. The new plant was designed by KASL to replace an existing 2 MGD, direct filtration facility. Alternative water treatment plant equipment was pilot tested.



Stage 1 Raw Water Pump

The Copper Cove Plant was designed and constructed as a 4 MGD plant with future expansion to an 8 MGD plant. KASL provided construction management services including pre-bid services, review of submittals, responses to RFIs and quality control services.





## 6. QUALIFYING EXPERIENCE

### ECORP CONSULTING, INC.

#### ENVIRONMENTAL SERVICES FOR CAWP PIONEER WATER REHABILITATION PROJECT

**Location:** Amador County  
**Reference:** Brandt Cooke  
Amador Water Agency,  
(209) 223-3018  
[bcook@amadorwater.org](mailto:bcook@amadorwater.org)  
**Dates:** (2016-Ongoing)

#### PROJECT HIGHLIGHTS

- CEQA/NEPA Documentation
- CDBG Funding
- Expedited schedule for grant fund utilization

Since 2016, ECORP has been assisting the **Amador Water Agency (AWA)** with environmental compliance for a proposed **new pipeline** that will increase fire flow and improve the distribution system quality in the Buckhorn Ridge and Carson Drive area of the Central Amador Water Project (CAWP) system.

The Amador Water Agency's CAWP distribution system is largely composed of undersized and aging piping and facilities. Limited areas within this distribution system, which extends from Ridgeway Pines to Pine Grove, are able to deliver current industry standard fire flows. To improve service to the project area, AWA proposes to implement the following key project elements: installation of approximately 9,250 feet of buried 12-inch raw water gravity-flow pipeline; connection to Tank C; replacement of pressure reducing valve (PRV) station; connection to existing distribution system piping in Carson Drive; and connections to existing distribution system piping in Buckhorn Ridge Road and Pioneer Creek Road.

The proposed project is being funded through a Community Development Block Grant (CDBG) administered by the U.S. Department of Housing and Urban Development (HUD).

ECORP prepared **CEQA and NEPA documentation** and associated technical studies, including air quality and greenhouse gases, biological resources, cultural resources, and a health risk assessment in support of the proposed project. In addition, ECORP worked closely with AWA to provide **AB 52 tribal coordination** support and assisted AWA staff with the CDBG Program documentation to ensure all the requirements were met. In order to qualify for

additional grant funding next year, AWA was required to spend at least 51 percent of its current grant funding (approximately \$750,000) in 2016. Therefore, **ECORP worked on an expedited schedule** to ensure that AWA met this requirement by completing all environmental services by October 2016. ECORP is now preparing to implement mitigation measures identified in the **Initial Study/Mitigated Negative Declaration** with construction slated to begin in April of 2017.



Amador County Project Site.



## 6. QUALIFYING EXPERIENCE

### FORESTHILL PUD - SUGAR PINE PROJECT WATER RIGHT PERMIT EXTENSION AND RADIAL GATES INSTALLATION EIR/EIS

**Location:** Foresthill, Placer County, CA.  
**Reference:** Hank White  
Foresthill PUD  
(530) 367-2511  
[gm@foresthillpud.com](mailto:gm@foresthillpud.com)  
**Dates:** (2016-Ongoing)

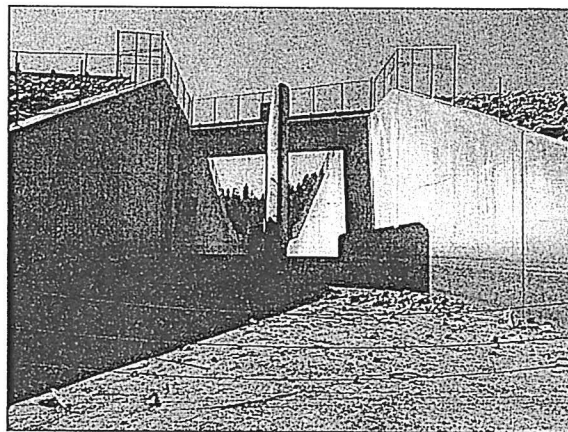
ECORP was retained by the **Foresthill Public Utility District's (FPUD)** to prepare a joint **EIR/EIS** for water right permit extension and radial gates installation at the Sugar Pine Dam and Reservoir located on North Shirttail Creek, tributary to the North Fork American River. The Sugar Pine Dam was built in 1982 to provide water supply to the Foresthill Divide area. FPUD holds a permitted water right and has filed a request for extension of time to put water to use. **ECORP is supporting FPUD in preparation of an EIR under CEQA to increase storage at Sugar Pine Reservoir by installing radial gates in the spillway and an Environmental Impact Statement (EIS) under NEPA for the U.S. Forest Service for the project's effects on federal lands. The increase in storage is approximately 3,000 acre-feet.**

The key to the evaluation for the EIR/EIS is a project simulation model, developed by ECORP and used to evaluate water supply benefits and downstream effects. The model uses physical characteristics of the system, water rights limitations and operates the project according to consumptive demands and downstream release requirements.

A key element of the project was utilization of an Initial Study to focus the content of the EIR/EIS. Using this CEQA strategy, ECORP was able to **focus the EIR/EIS on a limited number of key issues** to reduce the cost and timeline for preparation of the document. ECORP has also played a key role in the extensive public outreach effort. To date there have been three public forums intended to inform the public and agencies about the project and to solicit input for consideration in the EIR/EIS. ECORP played a key role in all of the meetings and there will be at least two more public meetings to provide additional opportunities for the community to

#### PROJECT HIGHLIGHTS

- **Lead Agency EIR/EIS Assistance**
- **Reduction of approval cost and timeline**
- **Cultural Resources Investigation**



Sugar Pine Dam and Spillway

provide input. ECORP prepared a Scoping Summary report that will be part of the EIR/EIS which will provide a summary of all comments received and identify where in the document the comment has been addressed. **ECORP also carried out a cultural resources investigation** and evaluations for the proposed project, and assisted the USFS with **Tribal consultation under Section 106 of the NHPA**. ECORP's cultural resources team evaluated historical road segments, mining related features, and prehistoric archaeological sites that were identified within the study area. Development of finding of effect and mitigation measures is ongoing for the project.





## 6. QUALIFYING EXPERIENCE

### SHADOWBROOK LIFT STATION AND FORCE MAIN PROJECT IS/MND,

**Location:** Placer County, CA.  
**Reference:** Mark Morse  
City of Roseville  
(916) 774-5334  
[mmorse@roseville.ca.us](mailto:mmorse@roseville.ca.us)  
**Dates:** (2015-Ongoing)

**PROJECT HIGHLIGHTS**

- IS/MND Preparation
- 404, 401 and 1602 Permitting Support
- Project phasing to expedite construction and avoid permitting holdups for entire project

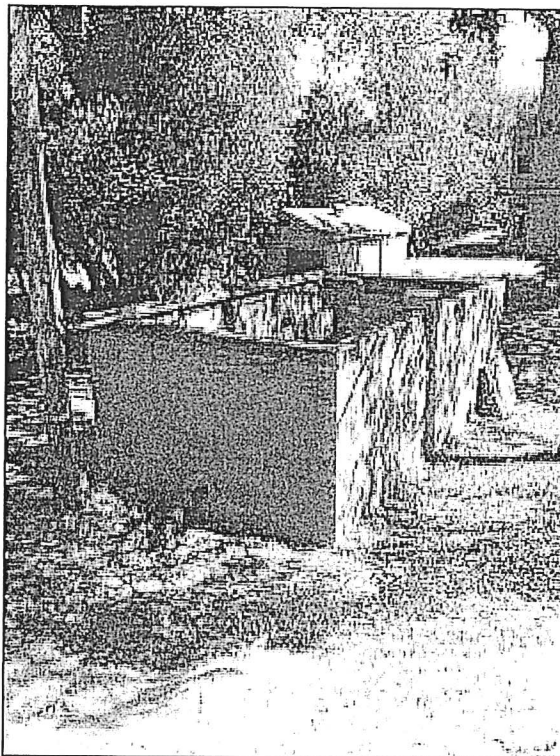
ECORP was retained in 2015 to provide environmental documentation services in **compliance with CEQA** for the Shadowbrook Lift Station and Force Main Project for the City of Roseville. ECORP prepared an IS/MND and technical studies for air quality, biological resources, cultural resources, and noise. ECORP is also providing **permitting support** for the project including **CWA sections 404 and 401; Fish and Game Code section 1602; and ESA Section 7 Consultation.**

The existing 30-year-old lift station is approximately two feet below the 100-year flood elevation, putting it at risk of inundation, which could result in power loss and a lack of accessibility during a severe rainfall event. The State Water Quality Control Board (SWQCB) has adopted a stringent policy regarding mitigation of sewer system overflows. Therefore, the City of Roseville proposed to upgrade the Shadowbrook Lift Station to improve reliability and maintainability of the facility and increase emergency storage capacity. The proposed project would increase the sewage pumping system resiliency against overflows, which would reduce the potential for malfunctions to cause overflows, and also provide adequate time for operations and maintenance staff to respond to occasional high water alarms.

The project also includes **replacement of the existing force main** connecting to an existing sewer interceptor on the opposite side of Dry Creek. The force main will be installed using trenching including crossing of the Creek which has triggered the need for preparation of a **Biological Assessment in support of Section 7 consultation with the USFWS.**

To allow construction of a portion of the project in 2016, ECORP recommended a regulatory strategy of completing the project in phases. The

first phase is located out of the stream corridor and does not trigger CWA section 404, Fish and Game Code Section 1602, or ESA Section 7 consultation. The Draft IS/MND was adopted in June 2016. Phase 1 construction was initiated in September of 2016 and ECORP staff conducted preconstruction surveys and worker awareness training. The permitting process for Phase 2, including instream work, is underway with construction slated for the summer of 2017. ECORP has also been retained to implement biological and cultural resource mitigation for the project including preconstruction surveys, in-stream monitoring, and development of restoration plans.



Current Shadowbrook Lift Station





PROPOSAL FOR DESIGN ENGINEERING SERVICES, EBBETTS PASS REACH 1  
 WATER TRANSMISSION PIPELINE CAPITAL IMPROVEMENT PROJECT  
 7. PROPOSED TASK HOURS

TASK	LABOR CLASSIFICATION									
	Principal Eng./ Project Mgr. (ES-3)	Senior Project Engineer (ES-4)	Project Engineer (ES-5)	Survey Mgr. (ES-5)	Survey Office Staff (ES-7)	Eng./ Survey Tech. (ES-7)	Admin. Assist. (AA-8)	2-person Survey Crew (2-CREW)	Hours per Task (1)	
<b>TASK 1 KICK OFF MEETING</b>	8	8	0	0	0	0	4	0	20	
<b>TASK 2 DATA COLLECTION</b> 1. Supplemental Topo Survey 2. Utility Mapping 3. Polishing 4. Tree Survey	2	2	8	4		8	2			
<b>TASK 3 CALTRANS COORDINATION</b>	8	8	16	28	24	48	4	96	232	
<b>TASK 4 HYDRAULIC ANALYSIS</b>	24	8	8	0	0	0	8	0	48	
<b>TASK 5 ENVIRONMENTAL (CEQA DOCUMENTS)</b>	12	60	4	0	0	8	4	0	88	
<b>TASK 6 GEOTECHNICAL INVESTIGATION</b>	24	8	8	0	0	8	4	0	52	
<b>TASK 7 PRESSURE REDUCING STATION EVALUATION</b>	2	8	8	0	0	8	2	0	28	
<b>TASK 8 PRELIMINARY DESIGN REPORT</b>	8	24	8	0	0	8	2	0	50	
<b>TASK 9 STORMWATER POLLUTION PREVENTION PLAN (SWPPP)</b>	12	24	24	0	0	48	32	0	140	
<b>TASK 10 PROJECT SEQUENCING PLAN</b>	4	8	2	0	0	0	0	0	14	
<b>TASK 11 DESIGN DRAWINGS</b> 1. 50% 2. 90% 3. 100%	16	8	8	0	0	8	4	0	44	
<b>TASK 12 PROJECT MANUAL</b>	40	50	120	20	20	100	10			
<b>TASK 13 MEETINGS/SITE VISITS/PROJECT MANAGEMENT</b>	100	150	125			125	10			
<b>TASK 14 BIDDING SERVICES</b>	40	30	20			16	8			
<b>TOTAL ALL TASKS</b>	394	450	395	48	44	397	152	96	1976	

(1) Hours per Task do not include subconsultant hours  
 \* Task 13 hours included in the other tasks of the proposal





9. APPENDIX

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- **EBBETTS PASS REACH 1 PRELIMINARY TRANSMISSION MAIN PROFILE**
  
- **KEY STAFF RESUMES**
  
- **SAMPLE IMPROVEMENT PLANS; PLYMOUTH PIPELINE PROJECT**





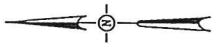
9. APPENDIX

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**EBBETTS PASS REACH 1 PRELIMINARY  
TRANSMISSION MAIN PROFILE**



CALAVERAS COUNTY WATER DISTRICT  
EBBETTS PASS REACH 1  
WATER TRANSMISSION PIPELINE  
CAPITAL IMPROVEMENT PROJECT #11005



0' 300' 600'  
SCALE 1"=600' (11"X17")

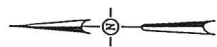


KASL  
KALAMAZOO AREA SURVEYING & LANDSCAPE ARCHITECTURE  
11005 EBBETTS PASS REACH 1 WATER TRANSMISSION PIPELINE  
CAPITAL IMPROVEMENT PROJECT #11005

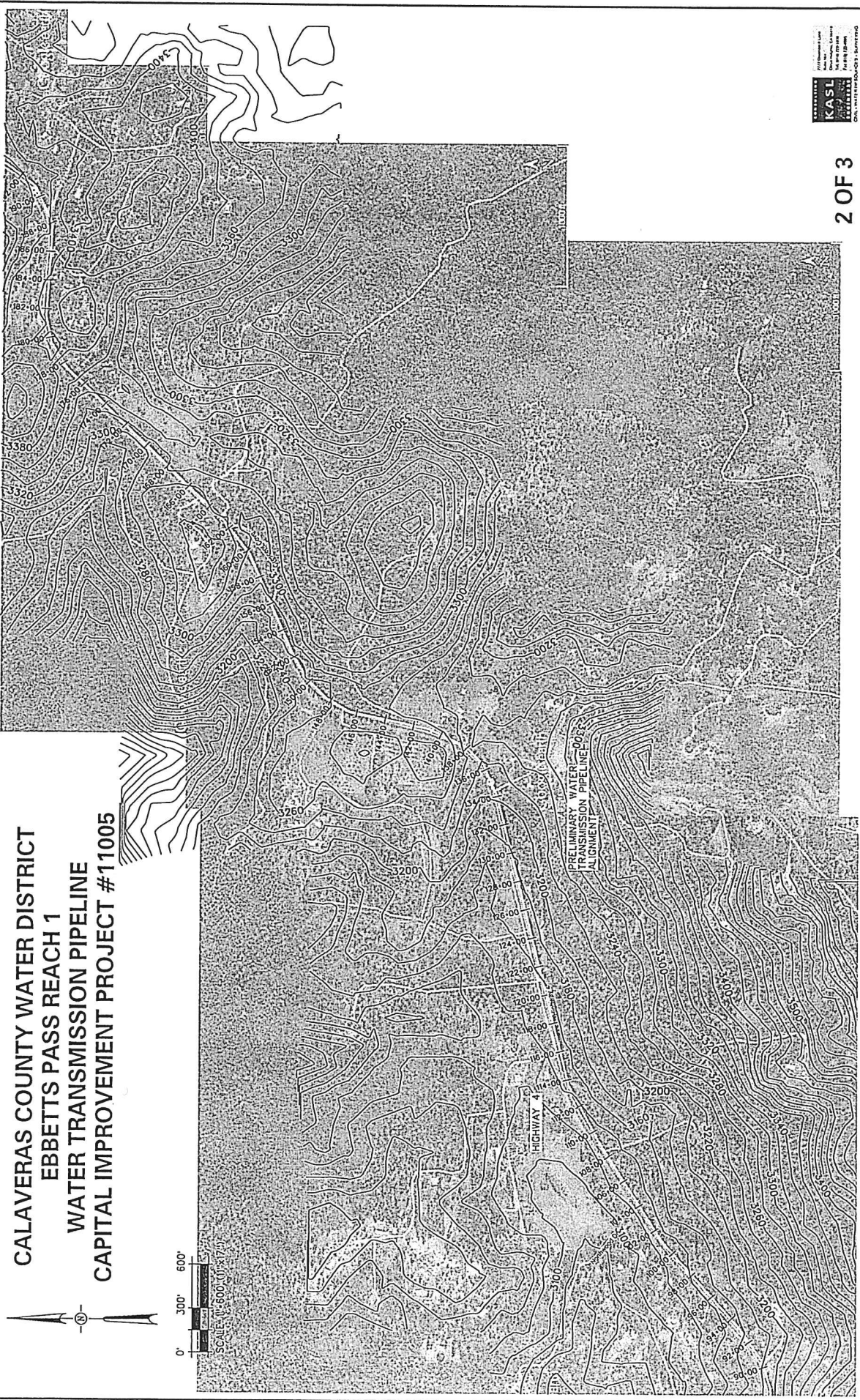
1 OF 3

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CALAVERAS COUNTY WATER DISTRICT  
EBBETTS PASS REACH 1  
WATER TRANSMISSION PIPELINE  
CAPITAL IMPROVEMENT PROJECT #11005

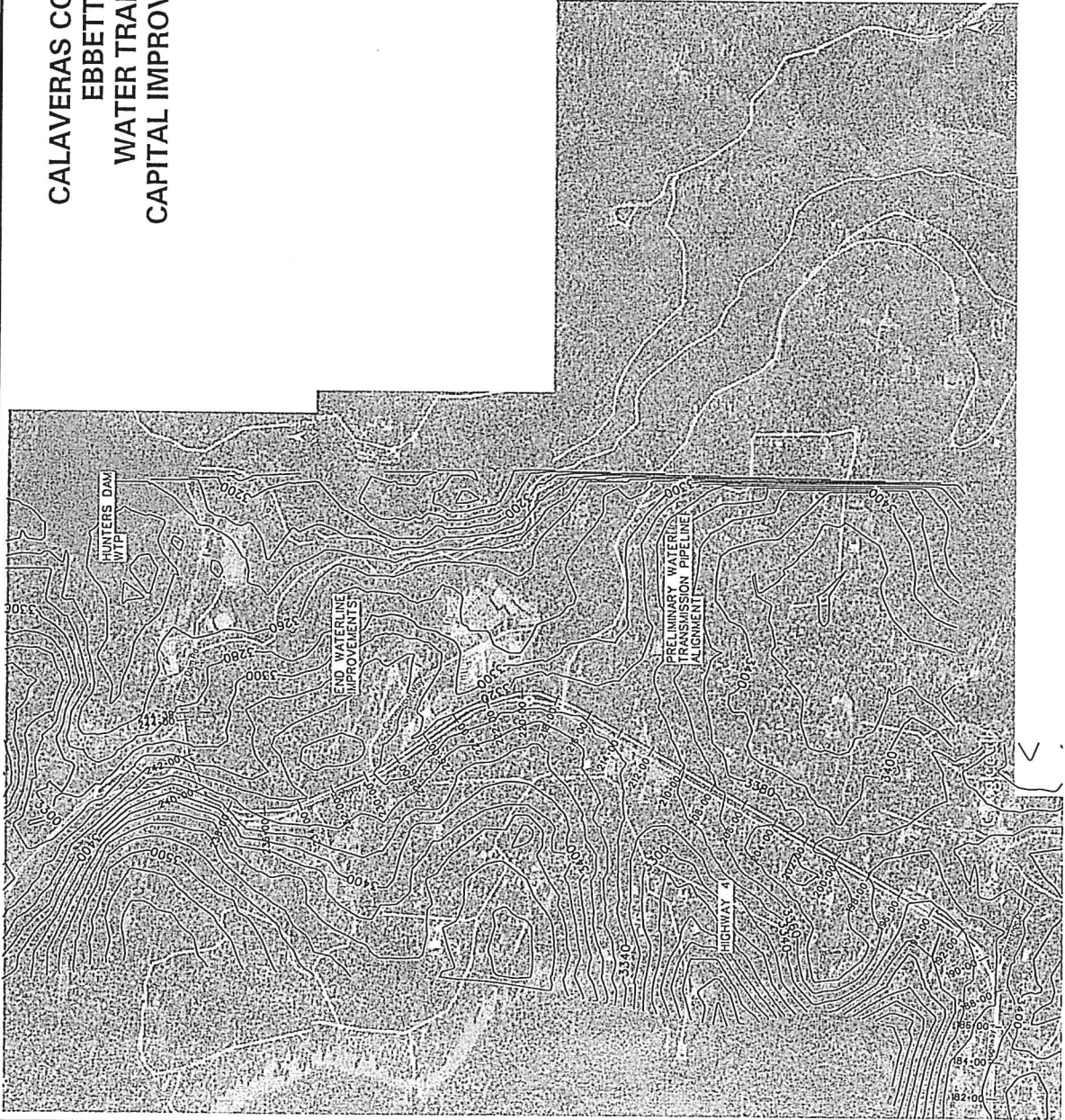
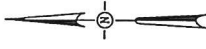


SCALE: 1" = 600' (1" = 17.5')





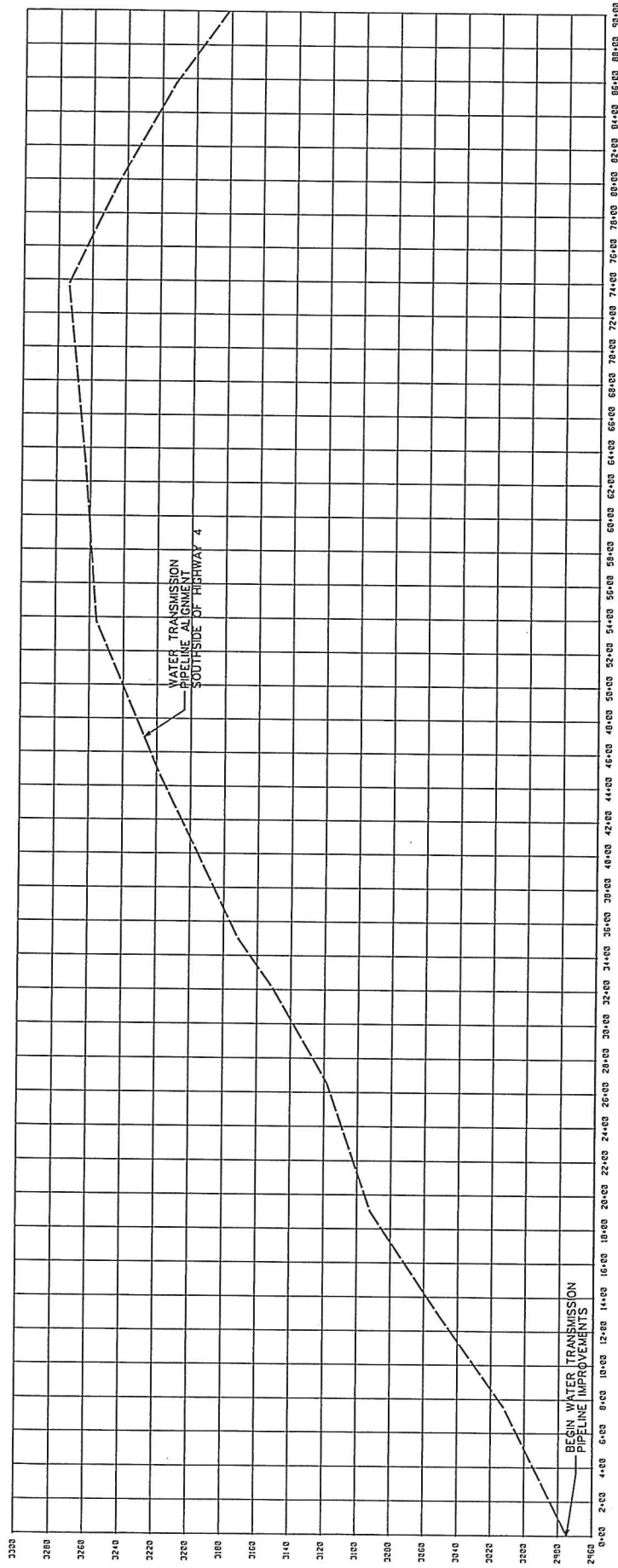
CALAVERAS COUNTY WATER DISTRICT  
 EBBETTS PASS REACH 1  
 WATER TRANSMISSION PIPELINE  
 CAPITAL IMPROVEMENT PROJECT #11005



**KASL**  
 KALAMAZOO AREA SURVEYING & LANDSCAPE ARCHITECTURE  
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PRELIMINARY WATER TRANSMISSION PIPELINE ALIGNMENT

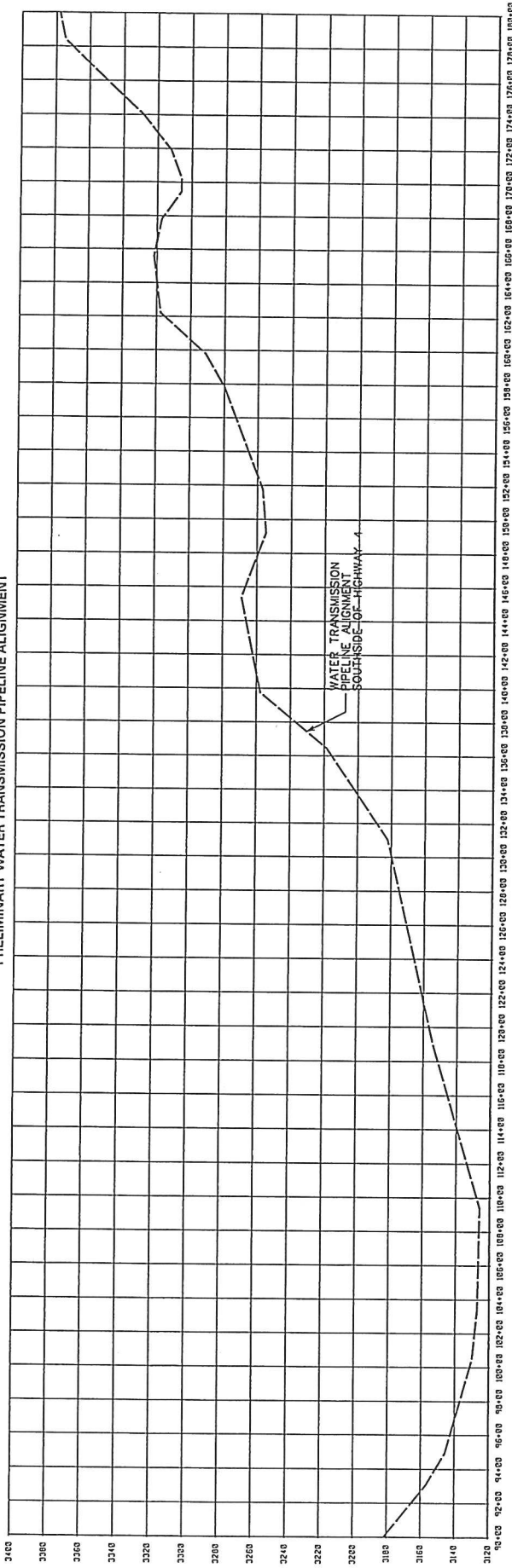


STATION 0+00 TO 90+00

CALAVERAS COUNTY WATER DISTRICT  
 EBBETTS PASS REACH 1  
 WATER TRANSMISSION PIPELINE  
 CAPITAL IMPROVEMENT PROJECT #11005

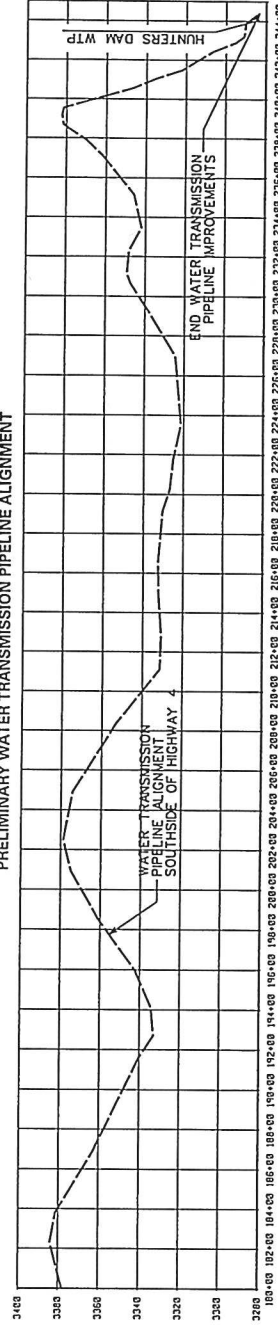


PRELIMINARY WATER TRANSMISSION PIPELINE ALIGNMENT



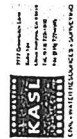
STATION 90+00 TO 180+00

PRELIMINARY WATER TRANSMISSION PIPELINE ALIGNMENT



STATION 180+00 TO 244+00

CALAVERAS COUNTY WATER DISTRICT  
 EBBETTS PASS REACH 1  
 WATER TRANSMISSION PIPELINE  
 CAPITAL IMPROVEMENT PROJECT #11005





9. APPENDIX

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## KEY STAFF RESUMES





## 9. APPENDIX

### KEY STAFF RESUMES

#### **John C. (Jack) Scroggs, P.E., Principal Engineer, Project Manager**

Mr. Scroggs has over 40 years of civil engineering, water resource and public works engineering experience. He has served as Principal-in-Charge, Project Manager and Lead Design Consultant for numerous water treatment plant wastewater treatment, reclamation, pipeline and booster station



projects completed by KASL. His experience includes the design of surface water filtration and ground water filtration improvements.

Mr. Scroggs is a Registered Civil Engineer in California and Nevada and a Registered Traffic Engineer in California. He graduated from UC Davis with a B.S. Degree in Civil Engineering in 1973 and was advanced to his Master's Degree in Civil Engineering in 1981.

#### **Relevant Project Experience**

Mr. Scroggs served as the Principal-in Charge, Project Manager and Lead Design Consultant for each of the following projects:

- Jenny Lind Water Treatment Plant 1 to 2 MGD Expansion Project CCWD, Calaveras County
- Jenny Lind Water Treatment Plant 2 to 5 MGD Expansion Project, CCWD, Calaveras County
- Jenny Lind Water Storage Tank (Tank "A" and Tank "B") and Booster Pump Facilities, CCWD, Calaveras County
- North Plumas Water Treatment Plant, Storage Tank and Booster Pump Project, Olivehurst Public Utility District, Yuba County
- Greenwood Water Treatment Plant, Storage Tank and Transmission Main, Georgetown Divide PUD, El Dorado County

- Copper Cove Raw Water Pump Station, Transmission Main and Water Treatment Plant and Booster Pump Station, CCWD, Calaveras County.
- New Hogan / La Contenta Wastewater Treatment Plant, Calaveras County
- Wildflower Water Storage Tank and Booster Pump, Lone, Amador County
- City of Fort Bragg Willow Street Pump Station and City of Fort Bragg Phase 1 Water Distribution Study
- Uppaway Water Supply and Water Treatment Improvement, Douglas County, Nevada
- Camp FarWest Water Supply, Treatment and Distribution Improvements, Sutter County Water District
- Polo Grounds Water Supply and Water Treatment Plant, Soquel Creek Water District, Santa Cruz County
- Plymouth Water Pipeline, Amador County



## 9. APPENDIX

### William (Bill) Ostroff, P.E., Project Engineer

Mr. Ostroff is a California Registered Civil Engineer (C 69221) with over 14 years of experience with KASL working on water and wastewater systems, hydraulics, treatment, pump station and piping improvements design. He has conducted extensive WaterCAD and SewerCAD network modeling, extended period simulation and surge analysis of water systems and sewer systems and completed hydraulic modeling and tank basin designs for water and wastewater projects.



He is well versed with computer modeling and design tools such as MicroStation, Bentley InRoads Suite, CivilStorm, SewerCAD, CulvertMaster, FlowMaster, Hammer, StormCAD and WaterCAD.

Bill Ostroff obtained his B.S. Degree in Civil Engineering from Cal Poly, San Luis Obispo.

#### Relevant Project Experience

Mr. Ostroff served as a Project Engineer responsible for engineering design and network modeling services for each of the following projects:

- Polo Ground Water Supply and Treatment Plant, Santa Cruz County
- Plymouth Pipeline Project, Amador County
- North Plumas Water Treatment Plant and Booster Pumps, Yuba County
- Lindhurst Storage Tank and Booster Pump System, Yuba County
- Greenwood Water Treatment Plant and Transmission Main, El Dorado County
- City of Fort Bragg Willow Street Pump Station Project and City of Fort Bragg Phase 1 Water Distribution Master Plan
- Plymouth Water Master Plan
- Lakeview Hills HOA Water Master Plan (in progress)
- River Pines Public Utility District Water Rehabilitation Study (in progress).

### Octavio Perez, P.E. Project Engineer

Mr. Perez is a California Registered Civil Engineer (C 69969) with over 12 years of civil engineering design experience. Mr. Perez has conducted detailed design of potable water systems, pump stations, sewage collection, storm drain conveyance, retaining walls, roadway, ADA compliant paths of travel and grading improvements for public works and residential land development projects in California, Nevada, New Mexico, Arizona and Hawaii.



He has extensive background and design experience with grading, earthwork and Digital Terrain Modeling. His experience also includes serving as resident engineer on military housing projects in California and Hawaii. Mr. Perez is a graduate from California State University, Sacramento with a B.S. Degree in Civil Engineering.

#### Relevant Project Experience

Mr. Perez completed computer modeling and engineering design for water, sewer and storm drain utilities, roadways, walkways, retaining walls and other site amenities for:

- 570 units at Davis-Monthan AFB, Tucson, AZ
- 540 units at Holloman AFB, Alamogordo, NM
- 950 units at Aliamanu Military Reservation, Honolulu, HI
- Citrus Heights Water District, Skyview Well Project
- Lake Isabella DSMP Improvements, Kern County
- Tuolumne City Sanitary District Sewer Rehabilitation Project (in progress), Tuolumne County
- River Pines Public Utility District Water Rehabilitation Study, Amador County







## 9. APPENDIX

### Jorge L. Beltran, P.E, QSD/QSP Project Engineer

Mr. Beltran is a California Registered Civil Engineer (C 75576) with over 12 years of experience preparing drainage studies, designing storm drain systems and preparing plans for construction of roadways and public works improvements.



Jorge has extensive hydrological and hydraulic modeling experience of compliance storms, open channels, floodway encroachment analysis, closed conduit drainage systems, culverts and bridges for public works and residential land development projects in California, Nevada, New Mexico, Hawaii and Arizona.

#### Relevant Project Experience

Jorge served as a Project Engineer for the engineering design of the following Land Development and Utility Rehabilitation Projects:

- Davis-Monthan AFB. 900 Family Unit Military Housing Project Utility Design. Tucson, Arizona
- Holloman AFB 900 Family Unit Military Housing Project Utility Design. Alamo Gordo, New Mexico
- Auburn Blvd. Infill sidewalk, curb and gutter, and Drainage Improvement Project, City of Citrus Heights
- Hickam AFB 172 Family Unit Military Housing Project Utility Design. Honolulu, Hawaii
- Fort Shafter, Simpson-Wisser New Family Housing Utility Design. Honolulu, Hawaii.

### Charlie Moore, P.E. Senior Project Engineer

Mr. Moore is a California Registered Civil Engineer with over 40 years of experience in public works and private consulting. Since 2000, Mr. Moore has served as a Senior Project Engineer with KASL. Between 1985 and 2000 he served as an Associate Engineer and District Engineer for the Calaveras County Water District.



Charlie Moore served as the District's Project Manager for the Jenny Lind Water Treatment Plant and Copper Cove Water Treatment Plant Projects designed by KASL.

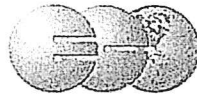
Mr. Moore has extensive experience in the design and analysis of water and wastewater pumping systems, treatment and storage equipment.

#### Relevant Project Experience

While with KASL, Mr. Moore has served as the Senior Project Engineer responsible for engineering design services for each of the following projects:

- North Plumas Water Treatment, Storage and Booster Pumping, Yuba County
- Walton Lake WTP Expansion, El Dorado County
- Polo Grounds Supply and Water Treatment Plant Project, Santa Cruz County
- Wildflower Booster Pump and Water Storage Tank, Ione, Amador County
- Plymouth Pipeline Project, Amador County
- Pardee Recreation Area Wastewater Reclamation Project
- Wheeler Ranch Sewage Lift Station, Force Main and Outfall Sewer, Yuba County
- Sewer Lift Station, Hickam AFB, Honolulu, HI
- Greenwood Water Treatment Plant and Transmission Main, El Dorado County





## Lisa Westwood, RPA

### Cultural Resources Principal Investigator/Tribal Consultation

Lisa Westwood is a Registered Professional Archaeologist with more than 23 years of cultural resource management experience. She exceeds the Secretary of the Interior's Professional Qualifications Standards for prehistoric and historical archaeologist, holding a B.A. degree in Anthropology and an M.A. degree in Anthropology (Archaeology). Currently, she serves as Director of Cultural Resources for ECORP, as principal investigator and task manager for cultural resources services required for compliance with Section 106 of the National Historic Preservation Act and CEQA. Her technical areas of expertise include advanced Section 106 compliance and consultation, preparation and negotiation of agency agreement documents (Programmatic Agreements and Memoranda of Agreement), tribal consultation, cultural resources law, human bone (osteological) identification and analysis, historical archaeology, and lithic debitage identification. She is well versed in impact assessment and development of mitigation measures for CEQA and Section 106 projects, including on-call and task-order based contracts. Her previous experience as a CEQA/NEPA project manager gives her a broader perspective of regulatory compliance issues, and she is recognized by the private and public sector for her ability to build consensus among stakeholders and solve complex problems quickly and effectively. She is an active member of the Department of Anthropology faculty at California State University-Chico and Butte College.

### Education

M.A., Anthropology, Eastern New Mexico University

B.A., Anthropology, University of Iowa

### Registrations, Certifications, Permits and Affiliations

- ☐ Registered Professional Archaeologist, No. 11692
- ☐ State of Nevada Antiquities Permit - Principal Investigator (Statewide, non-federal lands)
- ☐ Bureau of Land Management, California Archaeological Investigations Permit - Principal Investigator
- ☐ Bureau of Land Management, Nevada Cultural Resource Use Permit - Principal Investigator

### Representative Professional Experience

**Assembly Bill 52 Compliance.** Contributed to the negotiation of the bill language by providing technical input to the attorneys representing the California Building Industry Association and California Chamber of Commerce in their negotiation with the governor's office and Assemblyman Gatto's office regarding the amendment to CEQA for tribal cultural resources. Subsequently, developed an agency and planner training workshop that has been delivered and presented over two dozen times. The purpose of the training workshop is to provide an overview of the requirements, timelines, decision points, and potential liabilities to agencies and applicants. Developed SOPs for the County of San Bernardino, County of Contra Costa, City of Folsom, City of Belvedere, County of Placer, and City of Carlsbad to assist them in

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developing a standardized and more legally defensible program of compliance with the new tribal consultation requirement under CEQA.

**Cultural Resources Inventory for the Frogtown 1702 Blitz Pole Replacement Project, Calaveras County – PG&E.** Principal Investigator for the negative inventory of three pole replacement locations along State Route 4.

**300 Persifer Street, City of Folsom.** Served as tribal liaison between the City of Folsom, United Auburn Indian Community, and the CEQA document consultant to resolve concerns over tribal cultural resources that may be affected by the redevelopment project. Designed and implemented a test excavation program in coordination with the tribe and consultant, and advised the City on a compliance strategy.

**Dry Creek Greenway Trail, City of Roseville.** Principal Investigator for the preparation of an HPSR and ASR, and a pending Extended Phase 1 project for this Caltrans Local Assistance Project.

**Hobbs Wall Trail Project, City of Crescent City, Del Norte County.** Principal Investigator, 2006. Conducted cultural resources investigation, survey, consultation, and authored Archaeological Survey Report and Historic Property Survey Report.

**Hackstaff Road Bridge Replacement Project, Lassen County.** Principal Investigator and Project Manager, continuing the role from a prior employment elsewhere, retained to prepare a geoarchaeological / extended phase 1 work plan for a bridge replacement project in Lassen County, under the Caltrans First Amended Programmatic Agreement.

**Rocklin Road/I-80 Interchange Project, City of Rocklin, Placer County.** Principal Investigator and cultural resources task manager for the preparation of an Historic Property Survey Report and Archaeological Survey Report for a Caltrans local assistance project involving the reconstruction of the freeway interchange.

**Nelson Lane Bridge Replacement Project, Placer County, City of Lincoln.** Cultural resources task manager and Principal Investigator for a cultural resources inventory and Extended Phase 1 investigation for a Caltrans District 3 Local Assistance Project near Lincoln. Senior author of the Historic Property Survey Report (HPSR), Archaeological Survey Report (ASR), Extended Phase 1 (XPI) work plan and report.

**State Route 4 Wagon Trail, Calaveras County.** Principal investigator and task manager for a constraints analysis and future archaeological survey and evaluations for the realignment of State Route 4 between Angel's Camp and Copperopolis. Caltrans Local Assistance project with Calaveras County Council of Governments. Co-author of technical report.

**Alhambra Valley Road Improvements Project, Contra Costa County.** Project Manager for a multidisciplinary project including biological resources (NES, BA, rare plant study, and wetland delineation), cultural resources, noise assessment, and Phase 1 ISA studies for a Caltrans local assistance project (2010-present).

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## Chris Stabenfeldt, AICP

### Project Manager for Environmental Services

Mr. Stabenfeldt is a certified planner, team and project manager, and environmental analyst with more than 33 years of professional environmental and planning consulting experience. He has served in a broad range of roles including group manager, office manager, director of business development, and project manager. He has managed comprehensive and complex environmental documents and planning projects for public agencies and private sector clients including documentation and related compliance activities under NEPA and CEQA. Mr. Stabenfeldt's experience on projects in California has ranged from General Plans and planning staff support to environmental documents addressing a broad spectrum of project types. He is extremely familiar with local government operations having worked on projects for over 100 jurisdictions throughout California, including multiple projects in in the Mountain Counties region. He has managed numerous environmental documents for public projects, including water and sewer infrastructure, streets, bridges, storm drainage, parks, and public facilities. Relevant recent projects have included installation of a sewer force main in Roseville and a new water pipeline in Amador County. He has a strong multidisciplinary background and has conducted technical studies in noise, air quality, geology, hydrology/water supply, infrastructure analysis, and land use policy assessment. Mr. Stabenfeldt is currently serving as project manager for the Sugar Pine Dam Radial Gates Installation and Water Rights Extension Project for the Foresthill Public Utilities District. The project includes preparation of a joint CEQA/NEPA document and includes a broad range of technical studies and permitting/regulatory issues.

### Education

B.A. Environmental Studies, University of California Santa Barbara

MCRP Coursework, City and Regional Planning, California Polytechnic University, San Luis Obispo

### Registrations, Certifications, and Affiliations

- ▣ American Institute of Certified Planners; American Planning Association; Association of Environmental Planners

### Representative Professional Experience

**Water Rights Extension Project EIR/EIS, Placer County – Foresthill Public Utilities District (FPUD) (2014-ongoing).** Project Manager for this project. Project considerations include shoreline modifications needed to accommodate the expanded inundation pool, including development and implementation of a Timber Harvest Plan and potential modifications to existing recreational infrastructure owned and operated by the U.S. Forest Service that would be affected by the 20-foot increase in the reservoir's depth. ECORP was retained for the preparation of a project-level joint EIR/EIS for extension of FPUD's existing water rights. FPUD is requesting a 49-year extension to its current water right to divert from Sugar Pine Reservoir for M&I and other consumptive uses within the District's service area, to meet current and projected future water demand. Specifically, the document will

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address the 49-year extension of the FPUD's Sugar Pine Project Water Right Permit, completion of unconstructed Sugar Pine Dam Facilities (installation of radial gates) and the expansion of Sugar Pine Reservoir storage capacity from 7,000 AF to 10,658 AF to ensure sufficient yield to meet existing and future M&I and consumptive uses within the District's service area and potential future service area.

**Central Amador Water Project Pioneer Water Rehabilitation Project, Amador County-Amador Water Agency (2015-2017).** The Amador Water Agency (AWA) is proposing a new pipeline in order to increase fire flow and improve the distribution system quality in the Buckhorn Ridge and Carson Drive area of the Central Amador Water Project (CAWP) system. The Proposed Project is being funded through Community Development Block Grant (CDBG) administered by the U.S. Department of Housing and Urban Development (HUD). ECORP was retained by AWA to prepare CEQA and NEPA documentation and associated technical studies including air quality and greenhouse gases, biological resources, cultural resources, and a health risk assessment in support of the Proposed Project. In addition, ECORP worked closely with AWA to provide AB 52 tribal coordination support and assisted AWA staff with CDBG Program documentation to ensure all requirements were met. ECORP is currently assisting with mitigation implementation. Mr. Stabenfeldt is serving as project manager responsible for overall project coordination and review of all documents created for the project.

**Regional Water Supply Project EIR, Nevada and Placer Counties – as a Sub to Stantec for the Nevada Irrigation District (2014-ongoing).** Serving as the Project Manager for coordination of ECORP's activities and is also serving as a key member of the project management team regarding CEQA strategy and approach. The proposed project includes pipelines, a raw water storage reservoir with earthen dam, a proposed regional water treatment plant including potable water reservoirs, a metering facility and hydroelectric facilities. ECORP, as a partner with Stantec, is addressing fisheries and aquatic resources, terrestrial biology, hydropower water supply and hydrology, cultural resources and paleontological resources.

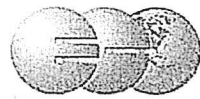
**Sonoma Development Center Water Treatment Plant Sediment Pond, Eldridge, Sonoma County – California Department of General Services, Real Estate Division.** Served as Project Manager responsible for preparation of IS/MND in support of the closure of existing sediment ponds and the construction of replacement ponds at the Sonoma Development Center Water Treatment Plant. The Final IS/MND was completed in October 2013.

**Shadowbrook Lift Station and Force Main Project, Roseville, Placer County – Hatch Mott MacDonald.** Serving as Project Manager responsible for preparation of an IS/MND in support of the City of Roseville upgrading their existing lift station, which is currently at risk of inundation during a severe storm event. The scope includes acquiring permits for instream work.

**West Antioch Creek Channel Improvement Project, Antioch, Contra Costa County – City of Antioch.** Served as Project Manager responsible for preparation of the IS/MND in support of the channel improvement for the City of Antioch. The City of Antioch proposed to replace and upgrade a section of undersized concrete-lined and culvert channel that conveys West Antioch Creek past the frequently flooded intersection of 10<sup>th</sup> Street and O Street in the City of Antioch. The Final IS/MND was completed in September 2014.

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## Ariel Miller

### Lead Biologist

Ms. Miller works as an associate biologist and associate project manager for ECORP. Ms. Miller has more than 5 years of professional experience conducting species surveys, habitat assessments, wetland delineations, construction monitoring, and managing both small and large projects. Throughout her career, Ms. Miller has been in charge of managing small and large environmental permitting projects. Ms. Miller's experience allows her to conduct required project fieldwork and also complete the necessary reports and permitting. She has written several wetland delineations and has prepared more comprehensive documents such as biological assessments, incidental take permits, and mitigation banking documents. Ms. Miller understands the protocols/guidelines and works regularly with U.S. Army Corps of Engineers (USACE), U.S. Fish and Wildlife Service (USFWS), Regional Water Quality Control Board (RWQCB), and the California Department of Fish and Wildlife (CDFW).

### Education

B.A., Environmental Studies, University of California, Santa Barbara

### Registrations, Certifications, and Affiliations

- ▣ USFWS 10(a)(1)(A) permit TE-012973: California red-legged frog, California tiger salamander, giant garter snake, federally listed large branchiopods
- ▣ California/Nevada Amphibian Population Task Force
- ▣ The Wildlife Society – Sacramento/Shasta Chapter

### Representative Professional Experience

**Central Amador Water Project Pioneer Water Rehabilitation Project, Amador County – Amador Water Agency.** Prepared a Biological Resources Assessment and rare plant survey report for the approximately 30-acre project in Amador County.

**South Avenue at South Fork Jackson Creek Bridge Replacement Project, Amador County – California Department of Transportation (Caltrans) District 10.** Prepared a wetland delineation report for submittal to the USACE. Prepared a California red-legged frog habitat assessment report and assisted in writing the Natural Environment Study for Caltrans.

**The Rivers Phase 2, Yolo County – Oakstone Investments.** Assisted with consultation with the USACE, USFWS, RWQCB, and the CDFW, as well as preparing the necessary permit packages for these agencies.

**ABC Ready Mix Property, Sacramento County – ABC Ready Mix (2013-2014).** Conducted a wetland delineation and habitat assessment for the approximately 35-acre site.

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**Cosumnes Power Plant Water Supply Pipeline Maintenance and Repair Project, Sacramento County – Sacramento Municipal Utility District (SMUD).** Drafted the notification of lake or streambed alteration application for the project.

**Capital SouthEast Connector: D2 Expressway, Sacramento County – Caltrans District 3.** Conducted wetland delineation field surveys and habitat assessment field surveys for the approximately 400-acre project. Also drafted a wetland delineation report, a Natural Environment Study, an Environmental Assessment, and an Initial Study/Mitigated Negative Declaration suitable for submission to Caltrans District 3. The project description and project boundary went through several revisions which was incorporated into the planning and reports for the project.

**Blackstone Bike Trail Bridges Project, El Dorado County – Lennar Homes, Inc.** Drafted a Streambed Alteration Agreement (SAA) application for the Blackstone Bike Trail Bridges Project. The SAA addressed impacts associated with construction of three pedestrian/bike bridges over creek crossings.

**Fujiwara Property, Placer County – J. Fujiwara.** Conducted habitat assessment field surveys and wetland delineation for the property. Following field surveys, wrote biological resources assessment and wetland delineation to support field surveys and habitat mapping.

**Karuk Tribe Fee-to-Trust Properties Humboldt and Siskiyou Counties – Karuk Tribal Housing Authority.** Acted as project manager for this project. Conducted habitat assessment field surveys and habitat mapping for the properties. Following field surveys, wrote preliminary waters and special-status species assessment to support field surveys and habitat mapping.

**Birkmont Business Park, Sacramento County – Easton Development Company, LLC.** Conducted various biological surveys on site including: wet season surveys for vernal pool large branchiopods; early and late season rare plant surveys; updated wetland delineation survey; tree surveys; elderberry shrub surveys; and habitat mapping. In addition, prepared several reports including: 90 day report with wet-season branchiopod survey results for submittal to the USFWS; request for wetland verification from USACE; elderberry shrub survey results report; and a biological resources report.

**Initial Operating Segment 1 South (IOS-1 South), Santa Rosa to Petaluma Project Habitat Assessment, Sonoma and Marin Counties – Sonoma-Marin Area Rail Transit (SMART).** Participated in conducting an initial habitat assessment for the SMART IOS1 South Project. The habitat assessment consisted of three main components: a California clapper rail and California black rail habitat assessment, a listed fish species habitat assessment, and a general habitat assessment.

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# Dorienne Mendoza

## CEQA Task Leader

Ms. Mendoza is an environmental professional with experience in with experience in CEQA and NEPA compliance and documentation; biological resources assessments, monitoring, and surveys; and regulatory permitting. She has been responsible for research, preparation, and management of comprehensive CEQA/NEPA documents for public agencies and private sector clients and documentation for CEQA/NEPA-related compliance activities. In addition, she has experience with the preparation and research biological resources assessment including assistance with biological reconnaissance surveys in support of CEQA and U.S. Fish and Wildlife Service (USFWS) Biological Assessment, including Section 7 consultation, in support of compliance with the federal Endangered Species Act (ESA). Furthermore, she assists with regulatory permitting, including the preparation of U.S. Army Corps of Engineers (USACE) Clean Water Act (CWA) Section 404 permits, Regional Water Quality Control Board (RWQCB) CWA Section 401 Water Quality Certifications, and California Department of Fish and Wildlife (CDFW) 1602 Streambed Alteration Agreements.

## Education

B.S., Conservation & Resource Studies, Area of Interest: Global Conservation and Sustainable Land Development; University of California Berkeley

## Registrations, Certifications, and Affiliations

- Association of Environmental Professionals (AEP), Superior California Chapter Secretary
- California Native Grasslands Association
- California Native Plants Society

## Professional Experience

**Central Amador Water Project Pioneer Water Rehabilitation Project, Amador County– Amador Water Agency (2015-2017).** The Amador Water Agency (AWA) is proposing a new pipeline in order to increase fire flow and improve the distribution system quality in the Buckhorn Ridge and Carson Drive area of the Central Amador Water Project (CAWP) system. The Proposed Project is being funded through Community Development Block Grant (CDBG) administered by the U.S. Department of Housing and Urban Development (HUD). ECORP was retained by AWA to prepare California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) documentation and associated technical studies including air quality and greenhouse gases, biological resources, cultural resources, and a health risk assessment in support of the Proposed Project. In addition, ECORP is working closely with AWA to provide AB 52 tribal coordination support and assisting AWA staff with the CDBG Program documentation to ensure all the requirements are met. Ms. Mendoza is serving as associate environmental scientist and assistant project manager responsible for project coordination, preparation, and distribution of the IS/MND and EA in support of CEQA/NEPA compliance.

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**Sugar Pine Project Water Right Permit 15375 Extension and Radial Gates**

**Installation, Placer County – Foresthill PUD (2015-2017).** Ms. Mendoza is serving as associate environmental scientist and assistant project manager responsible for project coordination, preparation, and distribution of the joint EIR/EIS. ECORP was retained for the preparation of a project-level joint EIR/EIS for extension of FPUD's existing water rights. FPUD is requesting a 49-year extension to its current water right to divert from Sugar Pine Reservoir for M&I and other consumptive uses within the District's service area, necessary to meet current and projected future water demand. Specifically, the document will address the 49-year extension of the FPUD's Sugar Pine Project Water Right Permit, completion of unconstructed Sugar Pine Dam Facilities (installation of radial gates) and the expansion of Sugar Pine Reservoir storage capacity from 7,000 AF to 10,658 AF to ensure sufficient safe yield to meet existing and future M&I and consumptive uses within the District's service area and potential future service area. She is serving as associate environmental scientist and assistant project manager responsible for project coordination, preparation, and distribution of the joint EIR/EIS.

**Shadowbrook Lift Station and Force Main Project, Foresthill, Placer County - Hatch Mott MacDonald (2015-2017).** Ms. Mendoza is the associate environmental scientist and assistant project manager responsible for project coordination, preparation, and distribution of an IS/MND in support of the City of Roseville upgrading their existing lift station and force main, which is currently at risk of inundation during a severe storm event.

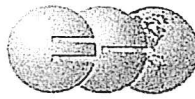
**Raley's Dock Replacement and Rice Mill Pier Rehabilitation, West Sacramento, Yolo County – GHD Inc. (2013-2017).** Ms. Mendoza served assistant environmental scientist responsible for preparation of the IS/MND in support of constructing a replacement dock and rehabilitating a pier on the Sacramento River for the City of West Sacramento. Ongoing regulatory permitting tasks are still in progress.

**West Antioch Creek Channel Improvement Project, Contra Costa County – City of Antioch (2012-2014).** Ms. Mendoza served as assistant environmental scientist for the preparation of an IS/MND for improvements to the West Antioch Creek Channel. The project would improve the flood capacity of the West Antioch Creek Channel to a 25-year level of protection and reduce flooding in the project area within the City of Antioch. Flooding in this area is a public safety concern and results in property and economic damages. Frequent flooding results in numerous road closures several times a year along the creek. Road closures and flood damage result in the loss of commercial business. The flooding also impacts the City of Antioch's Public Works maintenance yard. Furthermore, the effort by the City to enforce road closures, fight floodwaters, and to clean up debris after flooding recedes is a drain on the City's resources and budget. This project was developed to increase the capacity of the West Antioch Creek channel to reduce flooding in the area and the impacts that result from it.

**Eldridge at Sonoma Project CEQA Documentation and Supporting Technical Studies, California Department of General Services, Real Estate Division, California (2013).** Ms. Mendoza served as assistant environmental scientist responsible for preparation of IS/MND in support of the closure of existing sediment ponds and the construction of replacement ponds at the Sonoma Development Center, a State-run facility located in Eldridge, Sonoma County, California.

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# Dustin Brown



**ECORP Consulting, Inc.**  
ENVIRONMENTAL CONSULTANTS

## Biological Resource/Regulatory Task Leader

Dustin Brown is a senior wildlife biologist with particular experience in herpetology, vernal pool ecosystems, and aquatic fisheries surveys, and a variety of special-status species. He has more than 11 years of professional experience working with a variety of flora and fauna species throughout California. He has conducted numerous biological surveys, which have included special-status species surveys, herpetological, benthic micro invertebrate, fisheries studies, jurisdictional wetland delineations, nesting bird surveys, open space preserve monitoring, tree surveys and arborist reports, rare plant and floristic surveys, and Valley elderberry longhorn beetle surveys. Mr. Brown majored in biology with an emphasis in wildlife studies at The Master's College. Mr. Brown has also attended several post-graduate workshops and classes. Mr. Brown understands the protocols/guidelines and works regularly with U.S. Army Corps of Engineers (USACE), U.S. Fish and Wildlife Service (USFWS), Regional Water Quality Control Board (RWQCB), and the California Department of Fish and Wildlife (CDFW)

## Education

B.S., Biological Sciences, The Master's College, California

## Registrations, Certifications, and Affiliations

- ☐ CDFW Scientific Collecting Permit SC-6845 with MOUs for handling California tiger salamander, western spadefoot, western pond turtle, Coast horned lizard, foothill yellow-legged frog, and California giant salamander
- ☐ USFWS 10(a)(1)(A) permit TE-012973: federally listed vernal pool branchiopods, California tiger salamander (including upland drift fence design and implementation within all Distinct Population Segments), and California red-legged frog
- ☐ The Wildlife Society, California/Nevada Amphibian Population Task Force, California Aquatic Bioassessment Workgroup, California Nerodia Watersnake Working Group

## Representative Professional Experience

**Lime Creek Road and Dog Town Road Bridge Replacement Projects, Calaveras County – Caltrans District 10 (2014-2015).** conducted wetland delineation, California tiger salamander and California red-legged frog habitat assessments, vegetation community mapping field surveys for these two bridge replacement projects. In addition, prepared the Natural Environment Study (NES), wetland delineation, and USFWS biological assessment reports for both bridges.

**Capital SouthEast Connector: D2 Expressway, Sacramento County – Caltrans District 3 (2016-ongoing).** Serves as biological resource lead for this approximately 8-mile expressway project in southeast Sacramento County. The project passes through high quality vernal pool habitat within the Mather Core Area. Planned and coordinated field surveys and reporting for a wetland delineation and species habitat assessment field surveys for the approximately 400-acre project. The lead author on the Natural Environment Study and was senior reviewer for the Environmental Assessment and an Initial Study/Mitigated Negative Declaration suitable for submission to Caltrans District 3. The project description and project boundary went through several revisions which Mr. Brown incorporated into the planning and reports for the project.

**Central Amador Water Project Pioneer Water Rehabilitation Project, Amador County – Amador Water Agency (2016).** Served as biological resources lead for this water pipeline project in the community of Pioneer California. Conducted a site visit to analyze potential alternative pipeline alignments to see which alignment would have the least biological impact. Oversaw the preparation of a Biological Resources Assessment and rare plant survey report for the approximately 30-acre project in Amador County.

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**South Avenue Bridge over South Fork Jackson Creek Bridge Replacement and Channel Realignment Project, Amador County – City of Jackson (2015-ongoing).** Served as lead project biologist on this bridge removal and replacement project. This project involved the removal of an old bridge, construction of a new bridge adjacent to the old bridge. The project also included realignment of the existing creek channel to reduce flood potential. Conducted a wetland delineation, vegetation mapping and species inventory, and California red-legged frog field surveys. Also was the lead biologist and worked with other ECORP technical staff to draft the Natural Environment Study (NES) and regulatory documents including the Corps 404, RWQCB 401 water quality certificate, and the CDFW 1602 Streambed Alteration Agreement.

**North Fork Mokelumne River FERC 137 Relicensing and Monitoring, Calaveras, Alpine and Amador Counties – Pacific Gas and Electric (2009-2011).** Served as biologist for 3 years on the North Fork Mokelumne River FERC #137 Project. He performed habitat assessments and visual encounter surveys for foothill yellow-legged frog, mountain yellow-legged frog, Yosemite toad, and western pond turtle. Conducted required BMI compliance monitoring sampling using SWAMP procedures to determine habitat types, substrate composition, and SRA habitat at 18 sites within the North Fork Mokelumne River Watershed. Assisted in sorting BMI samples in the lab.

**Spring Gap-Stanislaus Project, Calaveras and Tuolumne Counties – Pacific Gas and Electric (PG&E) (2010-2011).** Served as biologist in conducting visual encounter surveys and habitat assessments for foothill yellow-legged frog and mountain yellow-legged frog in support of the FERC monitoring process in 2010 and 2011. Conducted western pond turtle surveys at the Stanislaus Forebay and Sandbar Diversion Dam (Per Holland 1994). Visual encounter surveys and habitat assessments for foothill yellow-legged frogs were conducted in accordance with A Standardized Approach for Habitat Assessments and Visual Encounter Surveys for the Foothill Yellow-legged Frog (*Rana boylei*) (PG&E 2002). Visual encounter surveys and habitat assessments for mountain yellow-legged frogs were conducted in accordance with Survey Protocols, Standard Operating Procedures, and Data Sheets for Amphibian Surveys and Habitat Assessments (PG&E 2001). Conducted field surveys deploying and monitoring temperature data loggers within the Stanislaus River. This data was utilized to determine the breeding temperature trigger for *Rana boylei* within the Stanislaus River.

**Franklin Bulk Substation, Sacramento County – Sacramento Municipal Utility District (SMUD) (2014-2015).** Served as lead project biologist for the SMUD Franklin bulk substation. Duties included conducting wetland delineations for the substation site and approximately 8 miles of associated transmission line along Franklin Boulevard in southern Sacramento County. Also conducted a special status species habitat assessment in support of CEQA and Corps permitting for the project. Species considered in the habitat assessment included giant garter snake, vernal pool large branchiopods, burrowing owl, Swainson's hawk, and rare plants.

**Sonoma-Marin Area Rail Transit (SMART), Initial Operating Segments 1 North, 1 South, and 2: Santa Rosa to San Rafael Project, Sonoma and Marin Counties (2012-2015).** Served as lead project biologist and lead biological monitor. Duties included conducting and coordinating species specific habitat assessments and surveys for burrowing owl, California clapper rail, California black rail, rare plants, California red-legged frog, California tiger salamander, salt marsh harvest mouse, nesting birds, roosting bats, and fish, and attending project meetings. Also drafted biological assessments for approximately 25-miles of the project. As lead biological monitor oversaw approximately 15 biological monitors throughout the construction. Duties included scheduling monitors, coordination and communication with the contractor, agencies, and SMART, and conducting preconstruction species surveys and demarcating wetlands and fencing locations. Also conducted weekly worker environmental awareness training including biological and cultural resource training.

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# Jeremy Adams

## Cultural Resources Task Leader

Jeremy Adams is an Architectural Historian and Assistant Cultural Resources Manager with seven years' experience in preparing inventories, evaluations, and management strategies for cultural resources of the built environment. He holds a Master of Arts degree in History (Public History), a Bachelor of Arts degree in History, and he meets the Secretary of the Interior's Professional Qualification Standards for Architectural History and History. Mr. Adams serves as principal investigator for all architectural history components of projects and is well versed in the laws and regulations of Section 106 of the NHPA and CEQA. He is highly skilled at historical research and analysis and is familiar with numerous archives, libraries, museums, and other historical repositories throughout California. He has prepared historic contexts, property histories, and carried out architectural site documentation for buildings, structures, and historical landscapes. He has also prepared built-environment impact assessments and has assisted with the development of mitigation measures for CEQA and Section 106 projects. In addition, he has carried out all three versions of Historic American Buildings Survey (HABS)/Historic American Engineering Record (HAER)/Historic American Landscapes Survey (HALS) documentation, developed educational interpretive panels, has completed Caltrans HPSRs and HRERS, and has evaluated numerous historic-age buildings and properties, as well as assisted lead agencies with State Historic Preservation Officer (SHPO) consultation and is a contributing author to several cultural resources technical reports.

## Education

M.A., History (Public History), California State University, Sacramento  
B.A., History, California State University, Chico

## Representative Professional Experience

**Mercury Cleaners Inventory, Evaluation, Mitigation, Finding of Effect, HABS-like documentation, and Monitoring Project, 1419 16th Street, Sacramento County – California Department of General Services (DGS), Real Estate Services Division (RESA) (2015).** Architectural Historian responsible for the evaluation of the Mercury Cleaners property prior to initiation of a hazardous waste remediation project. Initial project activities included a site visit, archival research, records search, and evaluation of the building. The Mercury Cleaners was found eligible for the NRHP and CRHR. Assisted DGS with SHPO consultation that concluded in implementation of creative mitigation measures for the impact to the historic property. Completed HABS-like documentation of the building and neon sign as well as provided monitoring during removal and rehabilitation of the neon sign to ensure that the Secretary of the Interior's Standards for Rehabilitation were followed for the project. This project also required management of a photographer subconsultant.

**Keller House Outbuildings Project, Contra Costa County – City of Clayton (2016).** Architectural Historian responsible for completing an historical resource integrity and project impact assessment for the demolition of three historical resources. Three outbuildings that were listed on the California Register of Historical Resources as contributing elements to an historic district were proposed

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for demolition due to dilapidation. The integrity assessment required a site visit, architectural documentation, and letter report. Also provided assistance to the City with consultation with the Local Government unit of the Office of Historic Preservation.

**Historic Property Impact Assessment of the Access Barrier Removal Project for the Civic Center/Johnson and Warren Building, San Francisco County – California DGS, Real Estate Services Division (2014).** Architectural Historian responsible for completing an historic property impact assessment for the ADA compliance modifications proposed for the listed National Register historic building. The impact assessment required an intensive site visit including architectural documentation of exterior and major interior spaces of the building, archival research, and a compliance impact assessment to determine if proposed project activities would adversely affect the significantly historic building.

**Cultural Resources Inventory and Evaluation Report, Forest Fire Station Ranger Unit Headquarters Project, Butte County – California Department of General Services, Real Estate Services Division (2015).** Architectural Historian responsible for the evaluation of the Butte Forest Fire Station Ranger Unit Headquarters. The evaluation included an intensive site visit including architectural assessment and analysis, archival research, historic property site documentation utilizing DPR 523 forms, and an eligibility evaluation for the NRHP and CRHR. In addition to the architectural inventory and evaluation, conducted an archaeological pedestrian survey, prehistoric research and analysis, and made recommendations for continued environmental compliance for the project.

**Architectural History Evaluation Report, Hugh Burns State Building, 2550 Mariposa Mall, Fresno County – California DGS, Real Estate Services Division (2014).**

Architectural Historian responsible for the evaluation of the five-story State-owned Hugh Burns State Building in downtown Fresno. The evaluation included an intensive site visit including architectural assessment of both the exterior and major interior spaces of the building, archival research at the California State Archives, California State Library; historic property site documentation utilizing DPR 523 forms, and an eligibility evaluation for the NRHP and CRHR.

**Architectural History Evaluation Report, Resources Building, 1416 9th Street, Sacramento County – California DGS, Real Estate Services Division (2014).**

Architectural Historian responsible for the evaluation of the 16-story State-owned Resources Building in downtown Sacramento. The evaluation included an intensive site visit including architectural assessment of both the exterior and major interior spaces of the building, archival research at the Center for Sacramento History, California State Archives, California State Library; historic property site documentation utilizing DPR 523 forms, and an eligibility evaluation for the NRHP and CRHR.

**Architectural History Evaluation Report, Employment Development Department Building, 135 West Fremont Street, San Joaquin County – California DGS, Real Estate Services Division (2013).**

Architectural Historian responsible for the evaluation of the State owned Employment Development Department building in downtown Stockton. The evaluation included an intensive site visit including architectural assessment and analysis, archival research at the California State Archives, California State Library; historic property site documentation utilizing DPR 523 forms, and an eligibility evaluation for the NRHP and CRHR.

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*Ron Skaggs, P.E., G.E., Vice President of Engineering Services*

**Education**

Master of Engineering  
in Geotechnical  
Engineering –  
University of CA  
Davis

Bachelor of Science –  
Civil Engineering,  
California State  
University Fresno

**Years of  
Experience**  
31

**Certifications**

Civil Engineer  
CA No. 44588  
NV No. 009854

Geotechnical  
Engineer CA No.  
2295

General Engineering  
Class A Contractor  
CA No. 732026

Hazardous Waste  
Contractor CA No.  
732026 HAZ

CA Construction  
General Permit  
QSD/QSP Certificate  
No. 824

**Professional  
Affiliations**

American Society of  
Civil Engineers  
(ASCE) Central  
Valley Branch, Past

San Joaquin  
Engineers Council,  
Scholarship  
Committee Chairman

As a Civil and Geotechnical Engineer, Mr. Skaggs' experience includes a broad range of geotechnical design and construction projects, construction management, construction quality control, waste characterization and containment design, storm water (best management practice (BMP) systems, and design and construction of groundwater recovery systems. Mr. Skaggs also specializes in pavement rehabilitation using full depth reclamation (FDR) pavement recycling.

**Representative Experience**

Oakdale Irrigation District: Client Manager for numerous canal and tunnel assessment and rehabilitation projects, and new tunnel design and construction. Services included risk assessment, field investigations, plans and contract document preparation, construction management, and construction quality assurance.

Mountain House New Town: Client Manager for Condor Services, including geotechnical engineering, storm water master planning, environmental services, geohydrology, construction storm water permitting, and construction dewatering.

School Districts: Geotechnical engineering studies for new school sites and rehabilitation projects at over 100 sites.

Burlington Northern Santa Fe Intermodal Facility: Project Manager, Storm water permitting services, local California Environmental Quality Act (CEQA) permitting assistance.

Ronald Reagan Presidential Library: Geotechnical designer and geotechnical construction quality control engineer.

Port of Los Angeles, Pier 300: Geotechnical investigation and ground improvement program for 122-acre hydraulic landfill.

Offshore Geotechnical Projects: Geotechnical engineering for offshore California drilling platforms and jack-up rigs for petroleum exploration and production.

Mine Facilities: Geotechnical engineering for tailings ponds, heap leach pads, and production facilities.

Geotechnical Engineering Studies: Completion of over 500 geotechnical studies for institutional, commercial, and industrial projects throughout California.

Construction Materials Testing: Completion of construction material quality control (QC) testing programs on over 1,000 projects throughout California.



*Marc R. Crum, P.G., C.E.G., Senior Engineering Geologist*

**Education**

BA Geology -  
University of  
California at Santa  
Cruz

**Years of  
Experience**  
24

**Certifications**

Certified Engineering  
Geologist  
No. 2254 - CA

Registered Geologist  
No. 6848 - CA

OSHA Certified

Mr. Crum began with Condor in 1991 involved in all phases of soil and groundwater investigation and characterization work related to the remediation and monitoring of petroleum hydrocarbons and heavy metals. His focus on environmental projects has included field exploration, site characterization, remediation design, and reporting. Mr. Crum currently manages projects involving petroleum hydrocarbon impacted subsurface soil and groundwater, wastewater treatment and disposal, and permitting and exploration of small-scale mineral development. These projects require the projection of project goals, interfacing with various regulatory agencies, clients, client representatives and meeting deadlines. His field experiences include all aspects of drilling, geologic logging, well installation, well development, sampling, monitoring, and excavating. Mr. Crum earned his California geology registration in 1998 and engineering geology registration in 2002. The focus on engineering projects has included field exploration and evaluation for foundation and grading design, earthquake hazard assessment, slope stability evaluation and reporting. His field experiences include mapping, trenching, and various drilling methods pertaining to geotechnical engineering.

**Representative Experience**

Eagle Bird Mine: Waste characterization, mineral exploration, permitting, and reporting.

Red Hill Mine: Performance monitoring, water chemistry evaluation, reporting.

Oakdale Irrigation District: Performance evaluation, investigation, design, remediation, construction monitoring, and testing.

Tuolumne Economic Development Authority: Exploration, design, construction monitoring, and testing for Black Oak Casino, Westside-Cherry Valley development.

UNAVCO: Plate Boundary Observatory (PBO) study, site characterization, and stability study for observation points.

Northern California Power Agency: Landslide investigation, monitoring, and dam foundation evaluation.

Utica Power Authority: Slope Stability and geologic hazards characterization.

U.S. Borax Boric Acid Ponds: Geotechnical investigation, design, and construction monitoring for the construction of 120-acre plant ponds.

U.S. Borax: Vadose Zone Investigation





CONDOR

Emily Kentta, Staff Geologist

**Education**

Bachelor of Science –  
Geology, Summa  
Cum Laude, CSU  
Sacramento

**Years of  
Experience**

2

**Certifications**

ACI Grade I Field  
Testing Technician;  
Cert. No. 01333044

**Professional  
Affiliations**

Association of  
Engineering  
Geologists

Ms. Kentta is a Staff Geologist and is responsible for subsurface investigation programs, logging and mapping, and construction inspection for general conformance with project specifications. Prior to joining Condor, Ms. Kentta worked for the California Geological Survey cataloging, annotating and archiving over 4,000 historical mining, engineering and geological maps from 1850 to 1930. While at CSU Sacramento Ms. Kentta was a teaching assistant for oceanography, paleontology, geological field mapping techniques and structural geology field mapping courses.

**Representative Experience**

Oakdale Irrigation District – Interim Stabilization: Construction monitoring and logging during drilling, installation and grouting of 20 tensioned rock bolts for interim stabilization of irrigation canal side wall.

Curtis Creek Elementary School – Emergency Landslide Repair: Initial site investigation and slide mapping for development of permanent repair.

Twain Harte Dam: Construction monitoring during installation and grouting of 59 tensioned rock bolts.

Sierra Conservation Center – Gardella Dam: Assist with annual monitoring reporting to the Division of Safety of Dams.

Hetch Hetchy – Don Pedro Reservoir Crossing: Geologic logging of 30-foot deep, 12-foot interior diameter shaft; concrete inspection and testing.

Calaveras County: Perform LiDAR and GIS analysis in support of Condor’s Debris Flow Hazard Analysis team and prepare final reports for 13 parcels affected by the Butte Fire for FEMA Modular Housing Unit placement.

15 Chateau Lane, LLC: Construction monitoring of wine cave tunnels including excavation, shotcrete walls, sub-inverts, extensometer readings and abandonment of monitoring well; concrete inspection and testing.

Aloft Winery: Perform landslide hazard evaluation, coordinate and execute subsurface investigation program for wine cave design, including 230 linear feet of core logging.

The Hilt Winery: Coordinate and execute subsurface investigation program for winery building design, including 285 linear feet of core logging.

Culinary Institute of America at Greystone: Coordinate and execute subsurface investigation program for storage tunnel design, including 80 linear feet of core logging.



**STATEMENT OF POSITION**

Mr. Kositsky is Condor's Senior Civil/Geotechnical Engineer responsible of geotechnical investigations, geotechnical aspects of design, tunnel and shoring design and observation and testing performed during construction. Responsible engineer for materials testing laboratory.

**AREAS OF EXPERTISE**

- Geologic Hazard Studies and Repair Alternative Analysis
- Foundation design - including driven, drilled, and specialty piles and temporary shoring
- Tunnel design and rehabilitation
- Geotechnical subsurface investigations
- Landslide repair and hillside grading
- Geotechnical design and construction quality assurance/quality control for solid waste landfill covers and liners
- Geotechnical investigations and geologic, seismic, and liquefaction hazard assessments California public schools.

**INDUSTRIES SERVED**

- Private Commercial and Residential Developments
- Wineries
- Public Schools and Hospitals
- Cities and Counties
- Solid Waste Landfills
- Water, Wastewater, and Irrigation Districts
- Airports

**REGISTRATIONS & CERTIFICATIONS**

- Licensed Civil Engineer - State of California
- Geotechnical Engineer Title - State of California

**REPRESENTATIVE EXPERIENCE**

Mr. Kositsky has over 20 years of experience in geotechnical and design engineering and provides geotechnical services for design and construction. His typical assignments include directing explorations of soil, bedrock, and groundwater conditions beneath sites, evaluation and design of foundation systems, and directing construction monitoring. He provides the geotechnical engineering for a wide variety of projects, including tunnels, portals, office buildings, public schools, residential developments, landslide repairs, shoring and solid waste landfills.

**EDUCATION**

- MS Geotechnical Engineering, University of California at Berkeley
- BS Civil Engineering, Drexel University

**SELECTED PROJECTS**

- **Calaveras County Water District – New Operations Headquarters:** Performed a geotechnical investigation expeditiously for this fast-track project. Developed a subsurface investigation program and implemented that program during my initial site visit. Provided recommendations for earthwork, foundations, and pavements. Evaluated excavatability of hard and shallow bedrock as well as geologic hazards associated with fault that traverses the site and the possible presence of underground gold mines. Provided oversight for materials testing and special inspections during construction.
- **Tuolumne Utilities District – Landslide Repairs along Eureka Ditch:** Performed geotechnical consultation for the engineering department of TUD that damaged water-supply conveyance improvements and a road adjacent to a water-supply canal.
- **South San Joaquin Irrigation District – Joint Main Canal:** Conducted a geologic hazards study and alternatives repair analysis for this 3½ mile long irrigation canal. The result of the study is a decision-making tool for the District's capital improvement planning.
- **Calaveras County Water District – La Contenta Treatment Plant Expansion and Earth Embankment:** Performed geotechnical engineering design services for expansions to this satellite sewage treatment plant, including structural improvements and an earth embankment for an effluent reservoir. The work including developing a subsurface investigation program, working with design engineers and the District, performing geotechnical evaluations including finite-element seepage analysis using SEEP/W computer software, and providing a detailed geotechnical report. Condor followed through with materials testing and inspection services during construction of new structures at the plant.
- **Tuolumne Utilities District – Sewer Evaluation:** Evaluated the ability of an asbestos-concrete sewer main pipe to carry loads from a proposed railroad spur above it. The evaluation included performing a site investigation, calculating surcharge loads, and geotechnical and structural analysis of the pipe stability.



**TME** is California's foremost expert in

**Erosion & Sediment Control, offering:**

Storm Water Pollution Prevention Plan (SWPPP) Design

Storm Water Consulting • QSP/QSD – Inspections & Monitoring

Annual Reports • BMP Installation & Maintenance • Hydroseeding

Industrial Containment Ponds • Dewatering • Active Treatment Systems

Land Restoration • Landslide Repair • Slope Stabilization • Dust Control • Vegetation Management

**TME** has...

- Prepared over 1,000 Storm Water Pollution Prevention Plan Designs;
- Managed & monitored Storm Water on over 4,500 acres of active construction sites;
- Managed Advanced Chemical Treatment of 50,000,000+ gallons of storm water;
- Presented SWPPP Training classes with RWQCB for certified NPDES training to over 1,000 developers, consultants, municipal inspectors and construction firms such as Caltrans, Teichert, HMM, CMAC;
- Installed more than 2 million sq. ft. of liner for water retention/detention.

**Licenses & Certifications**

- Class A - General Engineering • C - 27 Landscape Construction
- C - 32 Highway & Parking Improvement • QAL - Qualified Applicator's License
- Small Business Certified #30493 • HAZ - Hazardous Substances Removal
- CPESC - Certified Professional in Erosion & Sediment Control
- CPSWQ - Certified Professional in Storm Water Quality
- QSD - Qualified SWPPP Developer • QSP - Qualified SWPPP Practitioner
- CASQA Qualified Trainer of Record • 24 hr Caltrans Certified SWPPP
- Trainer of Record for Construction General Permit

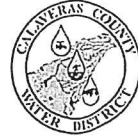
*Dave & Beth Smiley*

**916-381-3400**

**www.tme1.com**



LIC # 778131



9. APPENDIX

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**SAMPLE IMPROVEMENT PLANS;  
PLYMOUTH PIPELINE PROJECT**

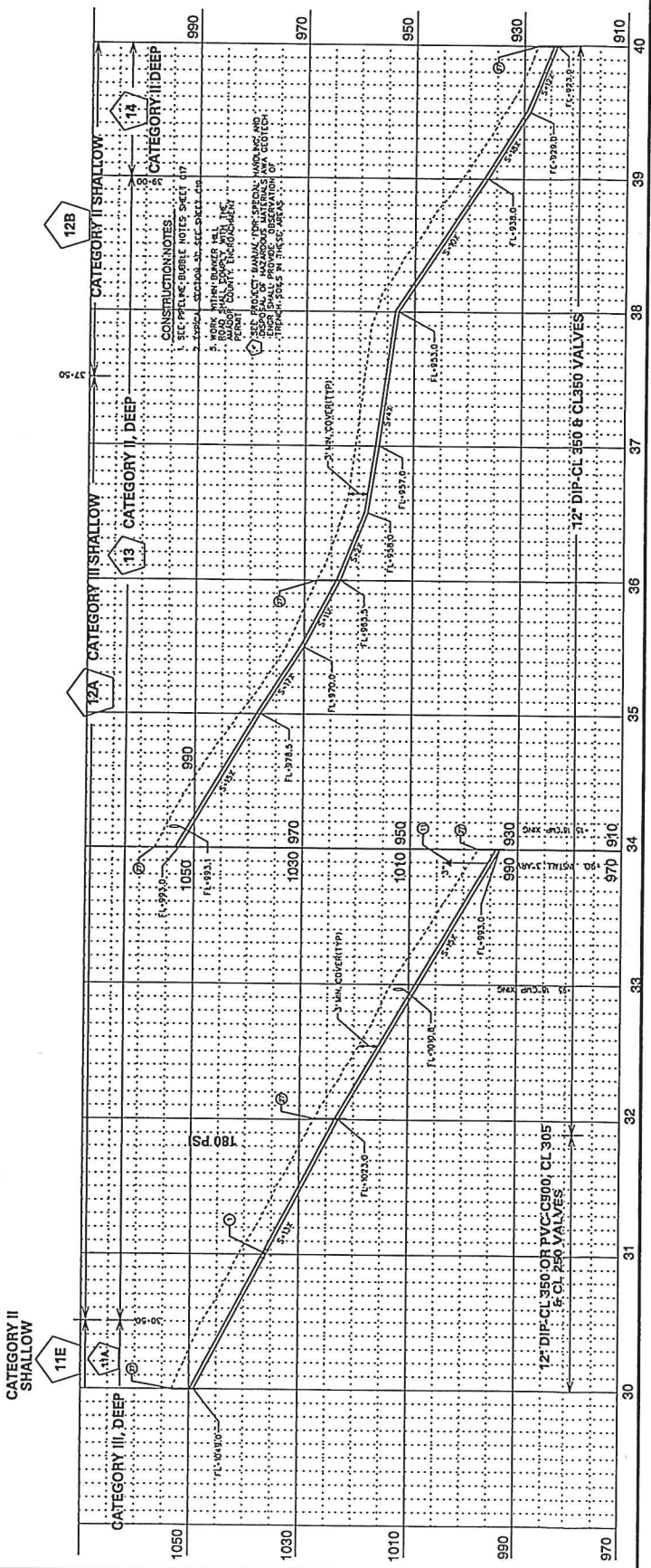
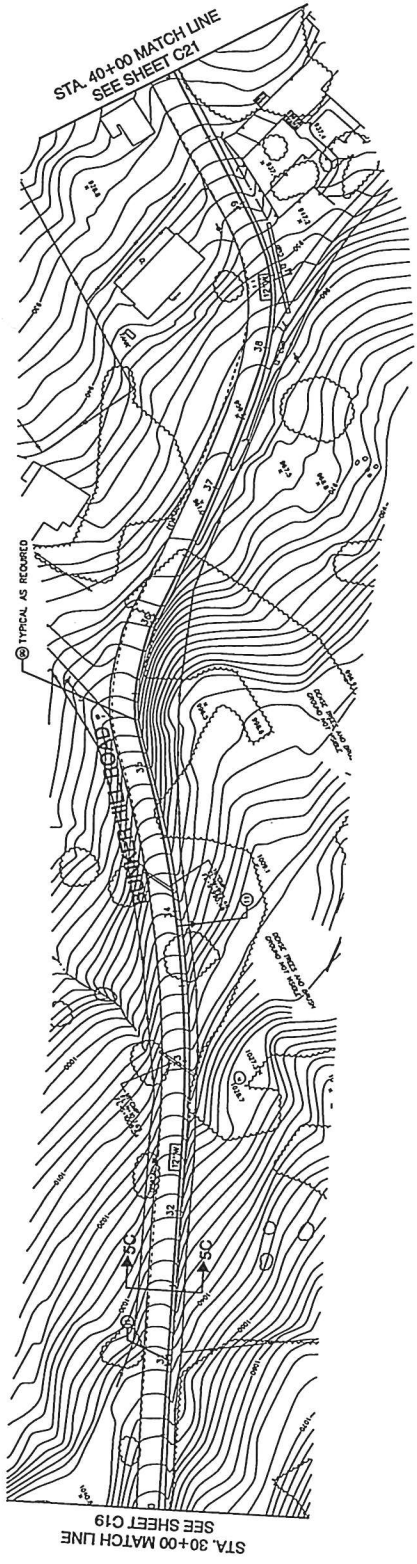
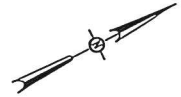












NO.	REVISIONS	DATE	BY



IMPROVEMENT PLANS FOR CONSTRUCTION OF  
**PLYMOUTH PIPELINE**  
 AMADOR COUNTY, CALIFORNIA  
 STA. 30+00 TO 40+00

**KASL**  
 KASL ENGINEERING & ARCHITECTURE  
 1000 S. GATEWAY AVENUE  
 SUITE 200  
 SAN JOSE, CA 95128  
 TEL: 408.298.1100  
 FAX: 408.298.1101  
 WWW.KASL.COM





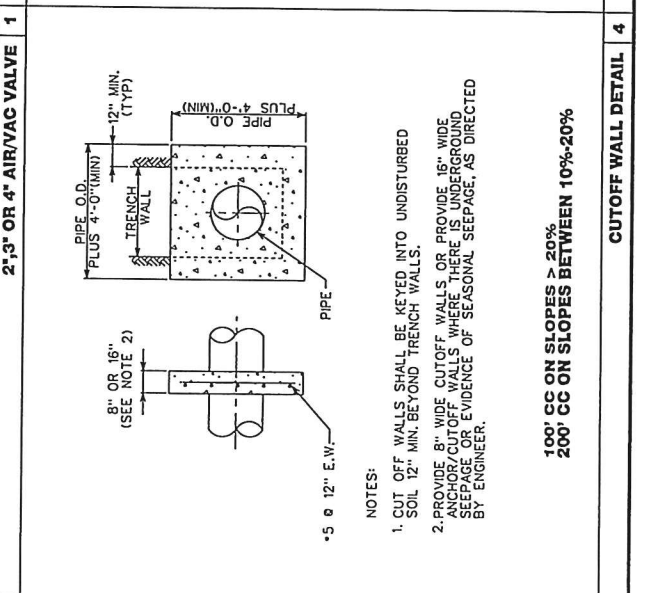
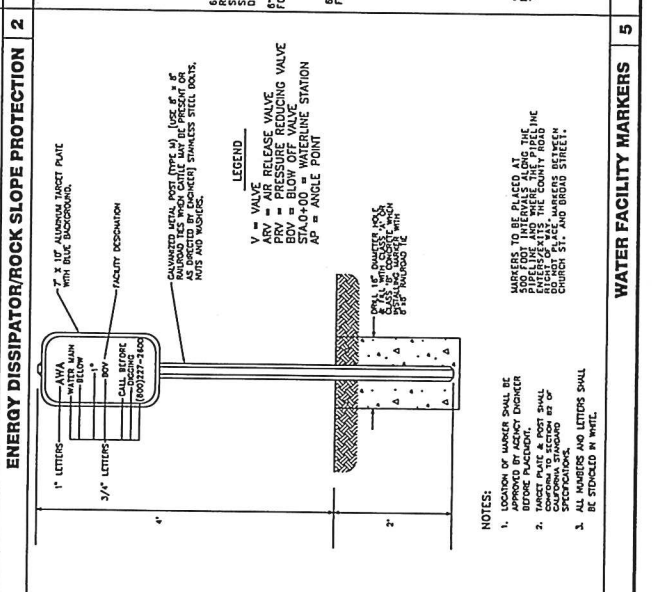
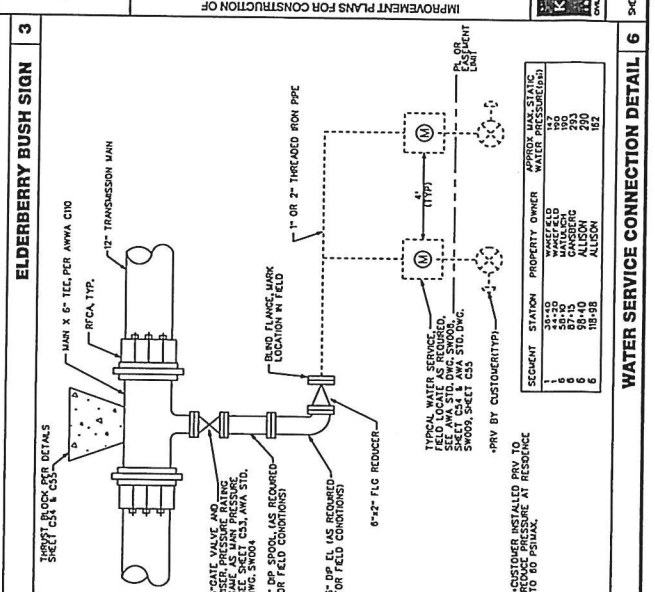
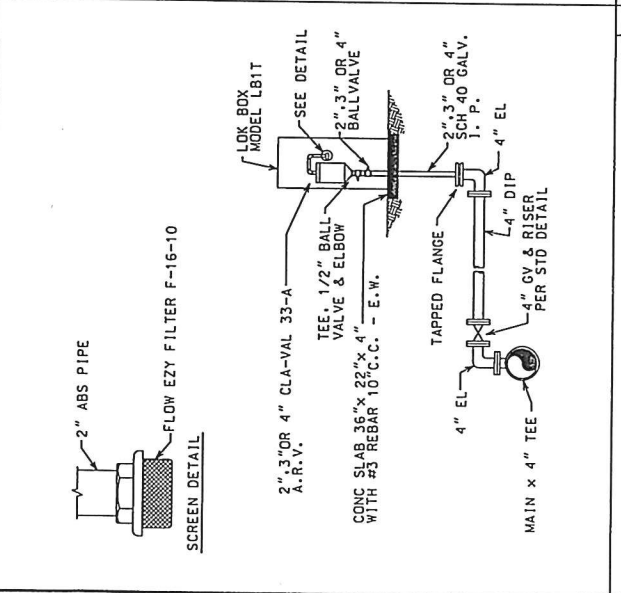
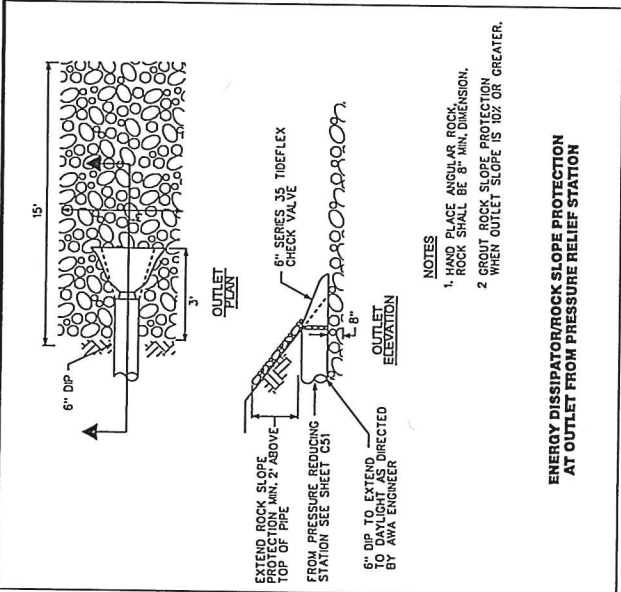




**THIS AREA IS HABITAT OF THE VALLEY ELDERBERRY LONGHORN BEETLE, A THREATENED SPECIES, AND MUST NOT BE DISTURBED. THE ENDANGERED SPECIES ACT OF 1973, AS AMENDED, VIOLATORS ARE SUBJECT TO PROSECUTION, FINES, AND IMPRISONMENT.**

**SIGN NOTES**  
 1. SIGNS SHALL BE BLACK LETTERING ON WHITE 1/8" INCH FOAM BOARD.  
 2. SIGNPOSTS SHALL BE INSTALLED EVERY 50 FEET ALONG THE EDGE OF THE AVOIDANCE AREAS AS SHOWN ON THE PLANS.  
 3. SIGNS SHALL BE MOUNTED ON 6 FEET "T" POSTS WITH 3 PLASTIC WIRE TIES.

**BEETLE NOTES**  
 1. FENCE AND FLAG AREAS TO BE AVOIDED. MIN. 20 FEET FROM THE DRILLLINE OF EACH WELL. SHOWS ELDERBERRY PLANTS.  
 2. CONTRACTOR TO AVOID DAMAGING THE ELDERBERRY PLANTS.  
 3. INSTRUCT WORKERS ABOUT THE STATUS OF THE WELLS AND HOST PLANT.  
 4. DAMAGE DONE TO THE BUFFER AREA DURING CONSTRUCTION SHALL BE REPAIRED AND REVEGETATED.  
 5. NO SPRAYING EXCEPT WATER WITHIN 100 FEET OF THE PLANT.



**WATER SERVICE CONNECTION DETAIL**

SEGMENT	STATION	PROPERTY OWNER	APPROX. MAX. STATION WATER PRESSURE (PSI)
1	34300	WATERFIELD	150
2	34300	WATERFIELD	200
3	34300	WATERFIELD	200
4	34300	WATERFIELD	200
5	34300	WATERFIELD	200
6	34300	WATERFIELD	200

-PRV BY CUSTOMER(TYP)  
 -CUTOFF WALLS SHALL BE KEYPED INTO UNDISTURBED SOIL 12" MIN. BEYOND TRENCH WALLS.

**WATER FACILITY MARKERS**

MARKER NO.	STATION	MARKER TYPE
1	34300	MARKER
2	34300	MARKER
3	34300	MARKER
4	34300	MARKER
5	34300	MARKER
6	34300	MARKER

-PRV BY CUSTOMER(TYP)  
 -CUTOFF WALLS SHALL BE KEYPED INTO UNDISTURBED SOIL 12" MIN. BEYOND TRENCH WALLS.

**WATER SERVICE CONNECTION DETAIL**

SEGMENT	STATION	PROPERTY OWNER	APPROX. MAX. STATION WATER PRESSURE (PSI)
1	34300	WATERFIELD	150
2	34300	WATERFIELD	200
3	34300	WATERFIELD	200
4	34300	WATERFIELD	200
5	34300	WATERFIELD	200
6	34300	WATERFIELD	200

-PRV BY CUSTOMER(TYP)  
 -CUTOFF WALLS SHALL BE KEYPED INTO UNDISTURBED SOIL 12" MIN. BEYOND TRENCH WALLS.

# Agenda Item

DATE: April 12, 2017

TO: Dave Eggerton, General Manager 

FROM: Joel Metzger, PIO/Customer Relations Manager

SUBJECT: Discussion/Action Regarding Partnering with Tuolumne County Resource Conservation District to Provide Toilet and Showerhead Rebates

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## **RECOMMENDED ACTION:**

Motion: \_\_\_\_\_ / \_\_\_\_\_ by Minute Entry authorizing the General Manager to execute an Agreement with the Tuolumne County Resource Conservation District (TCRCD) that allows CCWD to access state funding to implement a low-flow toilet and showerhead rebate program.

## **SUMMARY:**

In June 2015, TCRCD was awarded \$3.5 million from the California Department of Water Resources' Proposition 84 funding. These funds were awarded to help advance water conservation activities throughout the Tuolumne-Stanislaus Integrated Regional Water Management (T-Stan IRWM) planning area, which includes the southern portion of Calaveras County within the Stanislaus River watershed. A portion of these funds have been dedicated to provide \$100 rebates for low-flow toilets and \$25 rebates for low-flow showerheads. TCRCD staff requested that CCWD manage this rebate program for customers within its service area, and offered to reimburse the District for the cost of the rebates and administration of the program. The rebate program is expected to begin in April, 2017 and run through November, 2018. It is anticipated to produce annual water savings of 2,900 gallons per showerhead and 13,000 gallons per toilet installed.

## **FINANCIAL CONSIDERATIONS:**

Funding for shower head and toilet rebates for District customers (\$100 and \$25, respectively) would be provided by the State from Proposition 84 funds as well as an additional \$40 per rebate application to cover the District's costs to administer the program.

Attachments: TCRCD Rebate Program Overview  
TCRCD & CCWD Partnership Rebate Application Form  
WaterSense Toilet Fact Sheet and WaterSense Showerhead Fact Sheet



TUOLUMNE COUNTY  
RESOURCE CONSERVATION DISTRICT

**Toilet and Shower Head Rebate**

- Up to \$100.00 for 1 toilet
- Up to \$25.00 for 1 shower head
- Goal of at least 500 toilets and 200 shower heads total
- TCRCD provides \$40.00 per application to partners for staff processing time.
- No more than 1 application per household
- Copies of receipts used to calculate rebate to be kept on file until program end.
- Savings calculated as 2900 gallons per shower head and 13000 gallons per year for two years
- All partners to be acknowledged in an article promoting watershed health.
- Program to end 30 November 2018



## Regional Water Conservation Program Application: Toilet and Showerhead Rebates

Calaveras County Water District (CCWD) is partnering with the Tuolumne County Resource Conservation District (TCRCD) to offer a Regional Water Conservation Program to customers who live on, or south of, the Highway 4 Corridor (see map on back page).

- Each CCWD customer (must be the legal-deeded owner of the property, tenants must have written authorization from owner) may apply for up to \$100.00 for 1 toilet and up to \$25.00 for 1 showerhead. No more than one application per service address is allowed.
- The toilet or showerhead must have a WaterSense label. Go to [www.epa.gov/watersense](http://www.epa.gov/watersense) for a list of products.
- The program offers rebates to customers with receipts for qualifying toilets and showerheads dated after January 1, 2017, if they have not already participated in a CCWD rebate program for the same items.
- All applicants must fill-out the information below and attach all receipts and proof of WaterSense labeling to the application in order to receive a rebate.
- CCWD is only offering this program to its customers. Calaveras County residents who live on, or south of, the Highway 4 Corridor and are not CCWD customers, may call the TCRCD at (209) 984-0500 to see if they qualify for rebates.
- This program has been made available through grant funding from the Department of Water Resources and these rebates are expected to be available through November 2018.

### Rebate Application

Legal-deeded owner name:	Date completed:
CCWD account number:	Assessor's parcel number:
Service address:	Mailing address:
Phone number:	City, zip code:

Fixture	Reimbursement	Model number	WaterSense label: Y/N	Date on receipt
Toilet	\$100.00			
Showerhead	\$25.00			
<b>Total reimbursement:</b>				

**Terms and conditions:** CCWD reserves the right to deny any application that does not meet the requirements. All rebates will be posted as a credit adjustment on the service account number entered above. The credit reflected on billing statements will serve as confirmation that the rebate has been approved. Please allow 4-to-6 weeks for rebates to be processed.

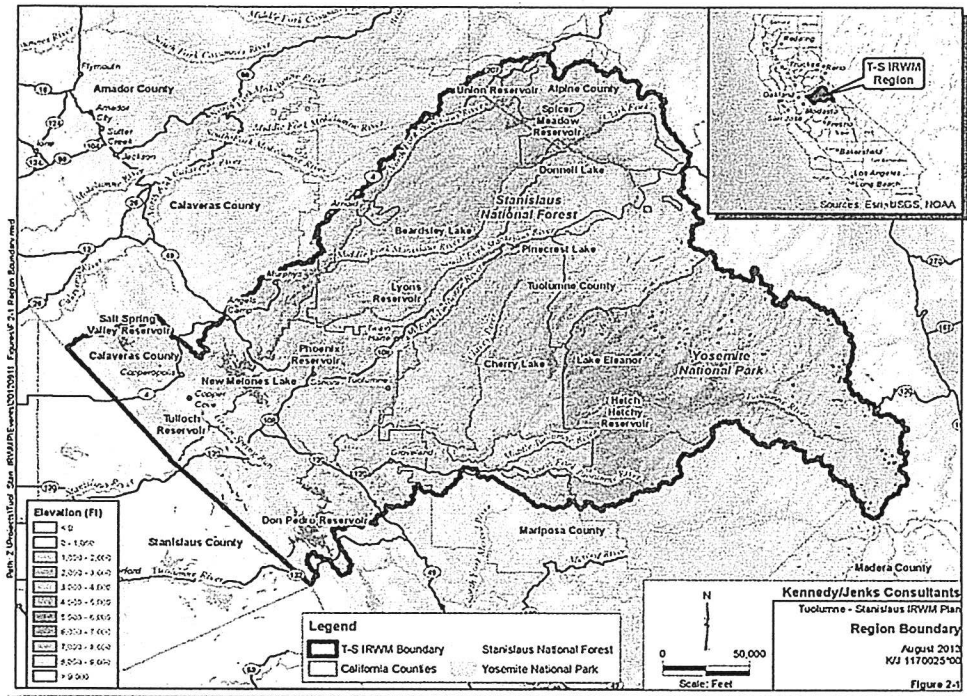
**Agreement:** I have read and understand the instructions and agree to the terms and conditions described herein. An electronic signature will be considered an original signature.

Legal-deeded owner signature: \_\_\_\_\_ Date: \_\_\_\_\_

CCWD staff approval: \_\_\_\_\_ Date: \_\_\_\_\_

Application submission options: Email: [customerservice@ccwd.org](mailto:customerservice@ccwd.org) Mail: Calaveras County Water District, P.O. Box 608, San Andreas, CA 95249  
 Questions: Call the CCWD Customer Service Department at 209-754-3543, or email [customerservice@ccwd.org](mailto:customerservice@ccwd.org).

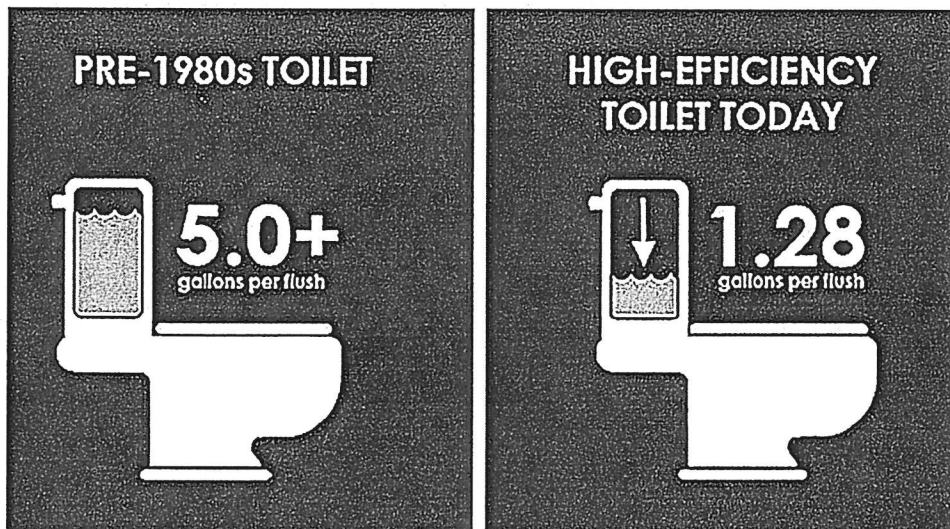
# Map of Region Covered by TCRCD Showerhead and Toilet Rebate Program



## How Much

### Water Does a Low-Flow Toilet Save?

Toilets are the single biggest water users in homes. Flushing accounts for about 1/3 of the water used within homes each day. Replacing an old toilet with a new low-consumption toilet could permanently cut home water consumption by between 25 and 75%. Saving water will help save money!







WaterSense® Labeled

# Toilets



Toilets are by far the main source of water use in the home, accounting for nearly 30 percent of an average home's indoor water consumption. Older, inefficient toilets that use as much as 6 gallons per flush also happen to be a major source of wasted water in many homes.

### FLUSH FACTS

Recent advancements have allowed toilets to use 1.28 gallons per flush or less while still providing equal or superior performance. This is 20 percent less water than the current federal standard of 1.6 gallons per flush. WaterSense labeled toilets are independently certified to meet rigorous criteria for both performance and efficiency. Only toilets that complete the third-party certification process can earn the WaterSense label.

### WATERSENSE SAVINGS

By replacing old, inefficient toilets with WaterSense labeled models, the average family can reduce water used for toilets by 20 to 60 percent—that's nearly 13,000 gallons of water savings for your home every year! They could also save more than \$110 per year in water costs, and \$2,200 over the lifetime of the toilets.

Nationally, if all old, inefficient toilets in the United States were replaced with WaterSense labeled models, we could save 520 billion gallons of water per year, or the amount of water that flows over Niagara Falls in about 12 days.

### LOOK FOR THE WATERSENSE LABEL!

Whether remodeling a bathroom, starting construction of a new home, or simply replacing an old, leaky toilet



WaterSense labeled toilets could save the average family 13,000 gallons of water per year.

that is wasting money and water, installing a WaterSense labeled toilet is a high-performance, water-efficient option worth considering.

WaterSense labeled toilets are available at a wide variety of price points and a broad range of styles. In many areas, utilities offer rebates and vouchers that can lower the price of a WaterSense labeled toilet. For more information or a list of WaterSense labeled products, visit [www.epa.gov/watersense](http://www.epa.gov/watersense).



### GET A HANDLE ON LEAKS

Does your toilet have a silent leak? Place a drop of food coloring in your toilet's tank and wait 10 minutes. If the dye shows up in the bowl, you have a leak that can probably be fixed by replacing a worn toilet flapper. For more information about fixing leaks, please visit [www.epa.gov/watersense/our\\_water/howto.html](http://www.epa.gov/watersense/our_water/howto.html)



WaterSense® Labeled

# Showerheads



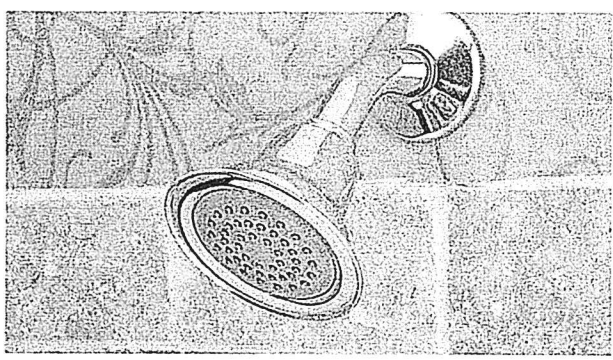
Showering is one of the leading ways we use water in the home, accounting for nearly 17 percent of residential indoor water use. For the average family, that adds up to nearly 40 gallons per day. That's nearly 1.2 trillion gallons of water used in the United States annually just for showering, or enough to supply the water needs of New York and New Jersey for a year! By retrofitting your showerheads with WaterSense labeled models, you can save a considerable amount of this water.

### SHOWER WITH POWER

Did you know that standard showerheads use 2.5 gallons of water per minute (gpm)? Showerheads that earn the WaterSense label must demonstrate that they use no more than 2.0 gpm. The WaterSense label also ensures that these products provide a satisfactory shower that is equal to or better than conventional showerheads on the market. The U.S. Environmental Protection Agency (EPA) worked with a variety of stakeholders—including consumers who tested various showerheads—to develop criteria for water coverage and spray intensity. All products bearing the WaterSense label must be third-party certified to ensure they meet EPA water efficiency and performance criteria.

### WATERSENSE SAVINGS

The average family could save 2,900 gallons of water per year by installing WaterSense labeled showerheads. Since these water savings will reduce demands on water heaters, they will also save energy. The average family could save more than 370 kilowatt hours of electricity annually, or the amount it takes to power a house for 13 days. On a national scale, if every home in the United States installed WaterSense labeled showerheads, we could save more than \$2.2 billion in water utility bills and more than 260 billion gallons of water annually. In addition, we could avoid about \$2.6 billion in energy costs for heating water.



WaterSense labeled showerheads could save the average family 2,900 gallons of water per year.

### LOOK FOR THE WATERSENSE LABEL!

Whether you are replacing a showerhead or simply looking for ways to reduce water use and utility bills in your home, look for the WaterSense label when purchasing showerheads to help you identify models that save water and perform well.




In many areas, utilities offer rebates and vouchers that can lower the price of a WaterSense labeled showerhead. For more information or a list of WaterSense labeled products, visit [www.epa.gov/watersense](http://www.epa.gov/watersense).

# Agenda Item

DATE: April 12, 2017

TO: Dave Eggerton, General Manager 

FROM: Peter Martin, Water Resources Program Manager 

SUBJECT: Discussion/Action Regarding Entering into a Joint Exercise of Powers Agreement establishing the Eastern San Joaquin Groundwater Authority and Appointing a Board Member Representative to the newly formed JPA

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## RECOMMENDED ACTION:

Motion: \_\_\_\_\_ / \_\_\_\_\_ adopt Resolution No. 2017-\_\_\_\_\_ Approving the Joint Exercise of Powers Agreement establishing the Eastern San Joaquin Groundwater Authority, and authorizing the Board President to enter into the JPA Agreement on behalf of the Eastside GSA.

Motion: \_\_\_\_\_ / \_\_\_\_\_ by Minute Entry establishing the designation of a primary representative to the Eastern San Joaquin Groundwater Authority on behalf of the Eastside GSA, and authorizing the District's initial contribution of \$2,500 to launch the JPA.

## SUMMARY:

At the March 22, 2017 Board meeting staff presented an informational item regarding the Joint Exercise of Powers Agreement to establish the Eastern San Joaquin Groundwater Authority (JPA or Authority) for the purposes of developing a Groundwater Sustainability Plan (GSP) as required by the 2014 Sustainable Groundwater Management Act (SGMA). Staff also covered considerations for how CCWD could enter into the JPA on behalf of the Eastside San Joaquin Groundwater Sustainability Agency (Eastside GSA), which includes CCWD, Stanislaus County, and Rock Creek Water District.

District staff has been engaged in a monthly SGMA workgroup coordinated by the Eastern San Joaquin Groundwater Banking Authority. The group is comprised of potential Groundwater Sustainability Agency (GSA) entities within San Joaquin County and other areas that are within or adjacent to the boundaries of the Eastern San Joaquin (ESJ) Subbasin. The group's work has been focused on GSA formation, providing a forum for establishing coordination agreements between GSAs, information sharing, and developing joint technical resources that will be instrumental in the ultimate development of a GSP for the entire basin by 2020.

SGMA workgroup members identified early in the process that developing and adopting a single GSP for the ESJ Subbasin would be the most efficient and cost-effective way of achieving sustainability and preventing state intervention into local groundwater management. The SGMA workgroup has collectively developed the proposed JPA as the means by which SGMA compliance efforts throughout the ESJ Subbasin will be coordinated. This new JPA would be a separate local agency recognized by the State of California with the power to develop and adopt a GSP for the ESJ Subbasin and in the future, if mutually agreed by the signatories to the JPA, exercise additional shared powers emanating from SGMA and/or other means to implement the GSP. The SGMA workgroup has now requested that its members bring the JPA Agreement forward for consideration by their respective boards and councils. The attached final form of the JPA Agreement provided for Board approval has been reviewed and edited throughout its development by CCWD counsel and staff.

Additionally, members were asked to appoint a primary representative and an alternate to represent their respective GSAs on the JPA Board of Directors. The JPA agreement has a "one GSA - one vote" clause. Therefore, the Eastside GSA will have one representative and one alternate appointed to the JPA. It has been requested that elected officials serve as the representatives to the JPA. In discussion with the Stanislaus entities it was recommended that CCWD designate a representative to the JPA Board and Stanislaus County designate the alternate. Staff recommends that the District's Board of Directors move forward in appointing one of its members to serve as the primary representative to the JPA. The Stanislaus County Board of Supervisors will likewise appoint one of its members to serve as the alternate to the JPA Board.

Finally, the JPA agreement provides that each of its members contribute \$5,000 to the Authority for initial administrative costs to be incurred as determined by the JPA's Board of Directors. Since the Calaveras (CCWD) and Stanislaus (County and Rock Creek Water District) jurisdictions of the GSA have near identical surface areas within their boundaries (approximately 80,000 acres each) it makes good sense to split the costs evenly. Thus with this agenda item, the District's Board of Directors is also asked to authorize the contribution of \$2,500 to the launch the JPA and its work. As the Eastside GSA's designated contracting entity with the JPA, CCWD would advance the total amount of \$5,000 to the JPA on behalf of the GSA, 50% of which would be reimbursed by the Stanislaus agencies.

## **FINANCIAL CONSIDERATIONS:**

CCWD's initial contribution to the JPA totals \$2,500, which would be included in the District's FY 2016/17 operating budget under the Water Resources Program.

### **Attachments:**

- Resolution Approving JPA
- Final JPA Agreement establishing the Eastern San Joaquin Groundwater Authority
- Map – " Exhibit A" to Recital Part D of JPA Agreement
- JPA Board Member Designation Form



RESOLUTION NO. 2017 -

A RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE CALAVERAS COUNTY WATER DISTRICT

APPROVING JOINT EXERCISE OF POWERS AGREEMENT ESTABLISHING THE  
EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY, AND AUTHORIZING  
THE BOARD PRESIDENT TO ENTER INTO THE JPA AGREEMENT ON BEHALF  
OF THE EASTSIDE SAN JOAQUIN GROUNDWATER SUSTAINABILITY AGENCY

**WHEREAS**, on August 29, 2014, the California Legislature passed comprehensive groundwater legislation contained in SB 1168, SB 1319 and AB 1739. Collectively, those bills, as subsequently amended, enacted the Sustainable Groundwater Management Act ("SGMA"), Governor Brown signed the legislation on September 16, 2014 and it became effective on January 1, 2015; and

**WHEREAS**, Calaveras County Water District's service area overlies a portion of the San Joaquin Valley Groundwater Basin, Eastern San Joaquin Subbasin, California Department of Water Resources Basin No. 5-22.01 as its boundaries may be modified from time to time in accordance with Cal. Water Code Section 10722.2; and

**WHEREAS**, the Act authorizes a "local agency," as defined in Water Code section 10721(n), to become a Groundwater Sustainability Agency ("GSA") and to develop and implement a Groundwater Sustainability Plan ("GSP"); and

**WHEREAS**, Calaveras County Water District, Stanislaus County, and Rock Creek Water District have held publicly noticed hearings within their jurisdictions and entered into a Memorandum of Understanding collectively establishing the Eastside San Joaquin Groundwater Sustainability Agency ("Eastside GSA"); and

**WHEREAS**, Calaveras County Water District has participated in the development of a Joint Exercise of Powers Agreement Establishing the Eastern San Joaquin Groundwater Authority ("JPA Agreement") which establishes a new public entity to be known as the Eastern San Joaquin Groundwater Authority ("Authority") for the purpose of coordinating groundwater management of the Basin, in accordance with the Act; and

**WHEREAS**, Calaveras County Water District has agreed to be the "contracting entity" for the purpose of entering into the JPA Agreement on behalf of the Eastside GSA; and

**WHEREAS**, the mission of the Authority is to provide a dynamic, cost-effective, flexible and collegial organization to insure initial and ongoing compliance with SGMA within the Basin; and

**WHEREAS**, Calaveras County Water District has carefully considered the terms and conditions of the JPA Agreement and has determined that participation in the JPA Agreement is appropriate and in the best interest of the Eastside GSA.



**THEREFORE, BE IT RESOLVED** that the Board of Directors of the Calaveras County Water District hereby approves the JPA Agreement and authorizes the Eastside GSA to participate in the JPA Agreement as a member of the Eastern San Joaquin Groundwater Authority.

**BE IT FURTHER RESOLVED** that the Board President of Calaveras County Water District is hereby authorized to execute the Joint Exercise of Powers Agreement on behalf of the Eastside GSA, per the terms of the Memorandum of Understanding for the formation of the Eastside GSA.

**BE IT FURTHER RESOLVED** that the Calaveras County Water District is authorized as the “contracting entity” for the Eastside GSA and directed to take all action necessary to carry out and fulfill the requirements and purposes of the Joint Exercise of Powers Agreement.

**PASSED AND ADOPTED** this 12th day of April, 2017 by the following vote:

**AYES:**  
**NOES:**  
**ABSTAIN:**  
**ABSENT:**

CALAVERAS COUNTY WATER DISTRICT

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Jeff Davidson, President  
Board of Directors

**ATTEST:**

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Mona Walker  
Clerk to the Board

## JOINT EXERCISE OF POWERS AGREEMENT

### ESTABLISHING THE EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY

THIS AGREEMENT is entered into and effective this 8th day of February, 2017 (“**Effective Date**”), pursuant to the Joint Exercise of Powers Act, Cal. Government Code §§ 6500 *et seq.* (“**JPA Act**”) by and among the entities that are signatories to this Agreement.

#### RECITALS

A. On August 29, 2014, the California Legislature passed comprehensive groundwater legislation contained in SB 1168, SB 1319 and AB 1739. Collectively, those bills, as subsequently amended, enacted the “Sustainable Groundwater Management Act”. Governor Brown signed the legislation on September 16, 2014 and it became effective on January 1, 2015.

B. Each of the Members overlies the San Joaquin Valley Groundwater Basin, Eastern San Joaquin Subbasin, California Department of Water Resources Basin No. 5-22.01 as its boundaries may be modified from time to time in accordance with Cal. Water Code Section 10722.2.

C. Each of the Members is either (i) a Groundwater Sustainability Agency (“**GSA**”) duly established in accordance with SGMA, or (ii) a “local agency” as defined in Water Code Section 10721(n) that intends to become a GSA established on or before June 30, 2017.

D. The Members desire, through this Agreement, to form a public entity to be known as the Eastern San Joaquin Groundwater Authority (“**Authority**”) for the purpose of coordinating the various GSAs’ management of the Basin, in accordance with SGMA. The boundaries of the Authority are depicted on the map attached hereto as **Exhibit A**.

E. The mission of the Authority is to provide a dynamic, cost-effective, flexible and collegial organization to insure initial and ongoing SGMA compliance within the Basin.

F. The Members agree that the Authority itself is not initially intended to be a GSA but the Members may elect GSA status for the Authority in their discretion at a future time as further provided herein.

**THEREFORE, in consideration of the mutual promises, covenants and conditions herein set forth, the Members agree as follows:**

#### ARTICLE 1: DEFINITIONS

1.1 **Definitions.** As used in this Agreement, unless the context requires otherwise, the meaning of the terms hereinafter set forth shall be as follows:

a. “**Agreement**” shall mean this Joint Exercise of Powers Agreement Establishing the Eastern San Joaquin Groundwater Authority.

- b. **“Authority”** shall mean the Eastern San Joaquin Groundwater Authority formed by this Agreement.
- c. **“Basin”** shall mean the San Joaquin Valley Groundwater Basin, Eastern San Joaquin Subbasin, California Department of Water Resources Basin No. 5-22.01 as its boundaries may be modified from time to time in accordance with Cal. Water Code Section 10722.2.
- d. **“Board of Directors”** or **“Board”** shall mean the governing body formed to implement this Agreement as established herein.
- e. **“Coordination Agreement”** shall mean a legal agreement adopted between two or more GSAs that provides the basis for intra-basin coordination of the GSPs of multiple GSAs within a basin pursuant to SGMA.
- f. **“Dedicated Revenue Stream”** shall mean a revenue stream dedicated to Authority activities that has been adopted by a Member or Members in the form of an assessment or charge in accordance with applicable law.
- g. **“DWR”** shall mean the California Department of Water Resources.
- h. **“Effective Date”** shall be as set forth in the Preamble.
- i. **“Groundwater Sustainability Agency”** or **“GSA”** shall mean an agency enabled by SGMA to regulate a portion of the Subbasin cooperatively with all other Groundwater Sustainability Agencies in the Basin, in compliance with the terms and provisions of SGMA.
- j. **“Groundwater Sustainability Plan”** or **“GSP”** shall have the definition set forth in SGMA.
- k. **“GSA Boundary”** shall mean those lands located within the Members’ boundaries.
- l. **“JPA Act”** shall mean the Joint Exercise of Powers Act, Cal. Government Code §§ 6500 *et seq.*
- m. **“Management Area”** shall mean the area within the boundaries of a Member or group of Members to be managed by that Member or group of Members under any GSP adopted by the Authority.
- n. **“Member”** shall mean any of the signatories to this Agreement and **“Members”** shall mean all of the signatories to this Agreement. Each of the Members shall be either (i) a GSA established on or before the Effective Date in accordance with SGMA, or (ii) a **“local agency”** as defined in Water Code Section 10721(n) that intends to become a GSA established on or before June 30, 2017.

o. **“Other Basin Agencies”** shall mean all other governmental agencies whose jurisdictions include the land overlying the Basin or whose jurisdictions include some governmental authority over the Basin who are not Members.

p. **“SGMA”** shall mean the Sustainable Groundwater Management Act of 2014 and all regulations adopted under the legislation (SB 1168, SB 1319 and AB 1739) that collectively comprise the Act, as that legislation and those regulations may be amended from time to time.

## ARTICLE 2: KEY PRINCIPLES

2.1 The Members intend to work together in mutual cooperation to develop a GSP in compliance with SGMA, for the sustainable management of groundwater for that portion of the Basin underlying the Members of the Authority.

2.2 The Members intend to mutually cooperate to the extent possible to jointly implement the GSP within the Basin.

2.3 To the extent the Members are not successful at jointly implementing the GSP within the Basin, or to the extent that any Member wishes to implement the GSP within its boundaries, the Authority intends to allow any individual Member to implement the GSP within its boundaries, and to work together with all Members to coordinate such implementation in accordance with the requirements of SGMA.

2.4 The Members intend that the Authority will represent the Members in discussions with Other Basin Agencies, and shall enter into Coordination Agreements with those that form GSAs as required by SGMA to achieve an integrated, comprehensive Basin-wide GSP that satisfies SGMA as to sustainable groundwater management for the entire Basin.

2.5 Each Member will retain the right to determine, in its sole discretion, whether to (i) become a GSA, or (ii) join in a GSA that is a Member of the Authority. However, if a Member fails to take action, on or before June 30, 2017, to (i) become a GSA, or (ii) join in a GSA that is a Member of the Authority, that Member shall be terminated from participation in the Authority and this Agreement in accordance with Article 6.3.

2.6 The Members expressly intend that the Authority will not have the authority to limit or interfere with the respective Member’s rights and authorities over their own internal matters, including, but not limited to, a Member’s legal rights to surface water supplies and assets, groundwater supplies and assets, facilities, operations, water management and water supply matters. The Members make no commitments by entering into this Agreement to share or otherwise contribute their water supply assets as part of the development or implementation of a GSP.

2.7 Nothing in this Agreement is intended to modify or limit Members’ police powers, land use authorities, or any other authority.

2.8 The Members further intend through this Agreement to cooperate to obtain consulting, administrative and management services needed to efficiently develop a GSP, to

conduct outreach to Other Basin Agencies and private parties, and to identify mechanisms for the management and funding commitments reasonably anticipated to be necessary for the purposes of this Agreement.

2.9 The Members acknowledge and agree that SGMA is new and complex legislation, with implementing regulations continuing to be developed by DWR. While this Agreement reflects the Members' initial approach to SGMA compliance, a great deal of data needed for implementation is unknown, necessary models are still in development, the Members may have changes in political boundaries or gain experience in the application of SGMA or discover other considerations that may affect the decision of a Member on how to best comply with SGMA within its own and its Management Area boundaries. DWR has acknowledged the need for entities to change their decisions about participating in or becoming a GSA, and it is the intent of the Members to support flexibility in admitting additional Members, accommodating voluntary withdrawals, coordinating with other multi-agency or individual GSAs, changing the form of their organizational documents, for example, or creating an independent agency through a Joint Powers Agreement, and making other types of adjustments required by the Members to achieve efficient compliance with SGMA, consistent with the schedule and requirements of SGMA for coordination throughout the Basin and the provisions of this Agreement.

2.10 Each Member acknowledges that SGMA requires that multiple GSAs within a Bulletin 118 groundwater basin designated as high- or medium-priority must coordinate, and are required to use the same data and consistent methodologies for certain required technical assumptions when developing a GSP, and that the entire subbasin must be managed under one or more GSPs or an alternative in lieu of a GSP for the basin to be deemed in compliance with SGMA.

### ARTICLE 3: FORMATION, PURPOSE AND POWERS

3.1 **Recitals:** The foregoing recitals are incorporated by reference.

3.2 **Certification.** Each Member certifies and declares that it is a public agency (as defined in Government Code Section 6500 *et seq.*) that is authorized to be a party to a joint exercise of powers agreement and to contract with each other for the joint exercise of any common power under Article I, Chapter 5, Division 7, Title I of the Government Code, commencing with Section 6500.

3.3 **Formation of Authority.** Pursuant to the JPA Act, the Members hereby form and establish a public entity to be known as the Eastern San Joaquin Groundwater Authority which will function in accordance with this Agreement. The Authority will be a public entity separate from the Members to this Agreement. The Authority shall comply with all provisions of the JPA Act and shall be responsible for administration of this Agreement.

3.4 **Purpose of the Authority.** The purposes of this Authority are to:

- a. provide for coordination among the Members to develop and implement a GSP and/or facilitate a coordination agreement, to the extent necessary;
- b. provide for the joint exercise of powers common to each of the Members and powers granted pursuant to SGMA (subject to the restrictions contained in this Agreement);



- c. cooperatively carry out the purposes of SGMA;
- d. develop, adopt and implement a legally sufficient GSP covering those portions of the Basin that are within the jurisdictional boundaries of the Members, subject to the limitations set forth in this Agreement; and
- e. satisfy the requirements of SGMA for coordination among GSAs.

**3.5 Powers of the Authority.** To the extent authorized by the Members through the Board of Directors, and subject to the limitations set forth in this Agreement and the limitations of all applicable laws, the Authority shall have and may exercise any and all powers commonly held by the Members in pursuit of the Authority's purpose, as described in Article 3.4 of this Agreement, including but not limited to the power:

- a. To coordinate the implementation of SGMA among the Members in accordance with this Agreement;
- b. To coordinate the exercise of common powers of its Members including, without limitation, powers conferred to the Members by SGMA;
- c. To adopt rules, regulations, policies, bylaws and procedures related to the coordination of the Members for purposes of implementation of SGMA;
- d. To perform all acts necessary or proper to carry out fully the purposes of this Agreement; and to exercise all other powers necessary and incidental to the implementation of the powers set forth herein; and
- e. To borrow funds so long as a Dedicated Revenue Stream is committed by one or more Members for repayment.

**3.6 Powers Reserved to Members.** Notwithstanding anything to the contrary in this Agreement, the Authority shall not undertake any activities within the geographic or service area boundaries of any of its Members pursuant to the GSP developed or adopted hereunder (including, without limitation, the restriction or regulation of groundwater extractions), unless the Member has formally and expressly consented and agreed in writing to the activity proposed pursuant to a special project agreement between the Member and the Authority in accordance with Article 7 of this Agreement. Without limiting the generality of the previous sentence, each of the Members (or groups of Members) will have the sole and absolute right, in its or their sole discretion, to:

- a. Become a GSA individually or collectively within the Member's boundaries or the Management Area managed in whole or in part by such Member;
- b. Approve any portion, section or chapter of the GSP adopted by the Authority as applicable within the Member's boundaries or the Management Area managed in whole or in part by such Member or GSA of which it is a part;
- c. At each individual Member's election, acting through GSAs established by Members, implement SGMA and the GSP adopted by the Authority within the Member's

boundaries or the Management Area managed in whole or in part by such Member; provided that any Member may elect, in its sole discretion, to authorize the Authority to implement SGMA and the GSP or to implement any discrete element or elements of SGMA or the GSP within the Member's boundaries. In the event that a Member elects to authorize the Authority to implement SGMA and the GSP or to implement any discrete element or elements of SGMA or the GSP within the Member's boundaries, such Member and the Authority shall enter into a special project agreement in accordance with Article 7 of this Agreement; and

d. Exercise the powers, without limitation, conferred to a GSA by SGMA.

3.7 **Term.** This Agreement shall be effective as of the Effective Date and shall remain in effect until terminated in accordance with Article 6.5 of this Agreement.

3.8 **Boundaries of the Authority.** The geographic boundaries of the Authority and that portion of the Basin that will be managed by the Authority pursuant to SGMA are depicted in **EXHIBIT A**.

3.9 **Role of Member Agencies.** Each Member agrees to undertake such additional proceedings or actions as may be necessary in order to carry out the terms and intent of this Agreement. The support of each Member is required for the success of the Authority. This support will involve the following types of actions:

a. The Members will provide support to the Board of Directors and any third party facilitating the development of the GSP by making available staff time, information and facilities within available resources.

b. Policy support shall be provided by the Members to either approve, or respond quickly to, any recommendations made as to funding shares, operational decisions, fare structures, and other policy areas.

c. Each Member shall contribute its share of capital and operational fund allocations, as established by the Board of Directors in the annual budget, as approved by the Board of Directors.

d. Contributions of public funds and of personnel, services, equipment or property may be made to the Authority by any Member for any of the purposes of this Agreement provided that no repayment will be made for such contributions.

3.10 **Other Officers and Employees.** The Members do not anticipate that the Authority will have any employees. However, the Authority may do the following:

a. Provide that any employee of a Member, with the express approval of that Member, may be an *ex officio* employee of the Authority, and shall perform, unless otherwise provided by the Board, the same various duties for the Authority as for his or her other employer in order to carry out this Agreement.

b. The Board shall have the power to employ competent registered civil engineers and other consultants to investigate and to carefully devise a plan or plans to carry out and fulfill the objects and purposes of SGMA, and complete a GSP.

#### ARTICLE 4: GOVERNANCE

4.1 **Board of Directors.** The business of the Authority will be conducted by a Board of Directors that is hereby established and that shall be initially composed of one primary representative appointed by each Member; provided, however, that in the event multiple entities establish a single GSA pursuant to a separate agreement, the GSA so established will thereafter have one representative on the Board of Directors and the vote of the GSA will be exercised in accordance with the separate agreement. Without amending this Agreement, the composition of the Board of Directors shall be altered from time to time to reflect the withdrawal of any Member, the admission of a Member or the establishment of a GSA comprised of multiple Members. Members of the Board of Directors are not required to be members of the governing board of the appointing Member; however, it is the strong preference of the Members that members of the Board of Directors be members of the governing board of the appointing Member. Each Member may designate one alternate to serve in the absence of that Member's primary representative on the Board of Directors. Such alternate need not be a member of the governing board of the Member. All primary members of the Board of Directors and all alternates shall file a Statement of Economic Interests (FPPC Form 700). Each Member shall notify the Authority in writing of its designated primary and alternate representatives on the Board of Directors.

4.2 **Term of Directors.** Each member of the Authority Board of Directors will serve until replaced by the appointing Member.

4.3 **Officers.** The Board of Directors shall elect a chairperson and a vice chairperson. The chairperson and vice-chairperson shall be directors of the Board. The chairperson shall preside at all meetings of the Board and the vice-chairperson shall act as the chairperson in the absence of the chairperson elected by the Board. The San Joaquin County Public Works Director or designee shall be the secretary and shall prepare and maintain minutes of all meetings of the Board of Directors. The Treasurer of the County of San Joaquin shall have the duties and obligations of Treasurer of the Authority as set forth in Government Code Sections 6505, 6505.1 and 6505.5.

4.4 **Powers and Limitations.** All the powers and authority of the Authority shall be exercised by the Board, subject, however, to the rights reserved by the Members as set forth in this Agreement.

4.5 **Quorum.** A majority of the members of the Board of Directors will constitute a quorum.

4.6 **Voting.** Except as to actions identified in Article 4.7, the Board of Directors will conduct all business by majority vote. Each member of the Board of Directors will have one (1) vote. Prior to voting, the Members shall endeavor in good faith to reach consensus on the matters to be determined such that any subsequent vote shall be to confirm the consensus of the Members. If any Member strongly objects to a consensus-based decision prior to a vote being cast, the Members shall work in good faith to reasonably resolve such strong objection, and, if the same is

not resolved collaboratively, then the matter will proceed to a vote for final resolution under this Section 4.6 or Section 4.7, below, as applicable.

**4.7 Supermajority Vote Requirement for Certain Actions.** The following actions will require a two-thirds (2/3) vote by the directors present:

- a. Approval or modification or amendment of the Authority's annual budget;
- b. Decisions related to the levying of taxes, assessments or property-related fees and charges;
- c. Decisions related to the expenditure of funds by the Authority beyond expenditures approved in the Authority's annual budget;
- d. Adoption of rules, regulations, policies, bylaws and procedures related to the function of the Authority;
- e. Decisions related to the establishment of the Members' percentage obligations for payment of the Authority's operating and administrative costs as provided in Article 5.1;
- f. Approval of any contracts over \$250,000 or contracts for terms that exceed two (2) years;
- g. Setting the amounts of any contributions or fees to be paid to the Authority by any Member;
- h. Decisions regarding the acquisition by any means and the holding, use, sale, letting and disposal of real and personal property of every kind, including lands, water rights, structures, buildings, rights-of-way, easements, and privileges, and the construction, maintenance, alteration and operation of any and all works or improvements, within or outside the Authority, necessary or proper to carry out any of the purposes of the Authority;
- i. Decisions related to the limitation or curtailment of groundwater pumping; and
- j. Approval of a GSP.

**4.8 Meetings.** The Board shall provide for regular and special meetings in accordance with Chapter 9, Division 2, Title 5 of Government Code of the State of California (the "Ralph M. Brown Act" commencing at Section 54950), and any subsequent amendments of those provisions.

**4.9 By-Laws.** The Board may adopt by-laws to supplement this Agreement. In the event of conflict between this Agreement and the by-laws, the provisions of this Agreement shall govern.

**4.10 Administrator.** The Members hereby designate the County of San Joaquin to serve as administrator and secretary of, and keeper of records for, the Authority.

4.11 **Advisory Committees.** The Board of Directors may establish one or more advisory committees, technical committees or other committees for any purpose, including but not limited to the GSP purposes in Water Code Section 10727.8.

## ARTICLE 5: FINANCIAL PROVISIONS

5.1 **Contributions and Expenses:** Members shall share in the general operating and administrative costs of operating the Authority in accordance with percentages determined by the Authority Board of Directors. Each Member will be assessed no more frequently than quarterly, beginning on July 1 of each year. Members shall pay assessments within ninety (90) days of receiving assessment notice from the secretary of the Authority. Each Member will be solely responsible for raising funds for payment of the Member's share of operating and administrative costs. The obligation of each Member to make payments under the terms and provision of this Agreement is an individual and several obligation and not a joint obligation with those of the other Members. Each Member shall be individually responsible for its own covenants, obligations, and liabilities under this Agreement. No Member shall be under the control of or shall be deemed to control any other Member. No Member shall be precluded from independently pursuing any of the activities contemplated in this Agreement. No Member shall be the agent or have the right or power to bind any other Member without such Member's express written consent, except as expressly provided in this Agreement. Contributions of grant funding, state, federal, or county funding may be provided as funding or a portion of funding on behalf of Members.

5.2 **Initial Contributions.** Upon execution of this Agreement, each of the Members shall contribute Five Thousand Dollars (\$5,000.00) to the Authority for initial administrative costs. Such funds may be used in the discretion of the Authority Board of Directors to fund the activities of the Authority including, without limitation, engineering services. The Authority shall provide to the Members quarterly reports detailing how the Initial Contributions are spent.

5.3 **Liability of Board and Officers.** The funds of the Authority may be used to defend, indemnify and hold harmless the Authority, any Director, officer, employee, or agent for actions taken within the scope of the authority of the Authority. Nothing herein shall limit the right of the Authority to purchase insurance including but not limited to directors and officers liability insurance.

5.4 **Repayment of Funds.** No refund or repayment of the initial commitment of funds specified in Article 5.2 will be made to a Member ceasing to be a Member of this Agreement whether pursuant to removal by the Board of Directors or pursuant to a voluntary withdrawal. The refund or repayment of any other contribution shall be made in accordance with the terms and conditions upon which the contribution was made, the terms and conditions of this Agreement or other agreement of the Authority and withdrawing Member.

5.5 **Budget.** The Authority's fiscal year shall run from July 1 through June 30. Each fiscal year, the Board shall adopt a budget for the Authority for the ensuing fiscal year. Within ninety (90) days of the Effective Date of this Agreement, the Board shall adopt a budget. Thereafter, a budget shall be adopted no later than June 30 of the preceding fiscal year. The budget shall be adopted in accordance with Section 4.7 of this Agreement.



5.6 **Alternate Funding Sources.** The Board may obtain State of California or federal grants but shall not create indebtedness without securing a Dedicated Revenue Stream.

5.7 **Depositary.** The Treasurer of the County of San Joaquin shall (i) be the depositary of the Authority, (ii) have custody of all funds of the Authority, and (iii) have the duties and obligations of the Treasurer as set forth in Government Code Sections 6505, 6505.1 and 6505.5. All funds of the Authority shall be held in separate accounts in the name of the Authority and shall not be commingled with funds of any Member or any other person or entity.

5.8 **Accounting.** Full books and accounts shall be maintained for the Authority in accordance with practices established by, or consistent with, those utilized by the Controller of the State of California for like public entities. The books and records of the Authority shall be open to inspection by the Members at all reasonable times, and by bondholders and lenders as and to the extent provided by resolution or indenture.

5.9 **Auditor.** The Auditor of the County of San Joaquin shall have the duties and obligations as Auditor of the Authority as set forth in Government Code Sections 6505 and 6505.5. The Auditor shall ensure strict accountability of all receipts and disbursements of the Authority and shall make arrangements with a qualified firm to perform an annual audit of the accounts and records of the Authority. Copies of such annual audit reports shall be filed with the State Controller and each Member within six months of the end of the fiscal year under examination.

5.10 **Expenditures.** All expenditures within the designations and limitations of the applicable approved budget shall be made upon the approval of any officer so authorized by the Authority Board of Directors. The Treasurer shall draw checks or warrants or make payments by other means for claims or disbursements not within an applicable budget only upon the approval and written order of the Board. The Board shall requisition the payment of funds only upon approval of claims or disbursements and requisition for payment in accordance with policies and procedures adopted by the Board.

5.11 **Initial Staffing Contributions.** The Authority initially intends to contribute to the goals and objectives identified in this Agreement by utilizing the staff of Members at the Members' own cost to pursue those operations, investigations and programs. It is intended that no indebtedness be created unless funding is secured by a Dedicated Revenue Stream.

## **ARTICLE 6: CHANGES TO MEMBERSHIP, WITHDRAWAL AND TERMINATION**

6.1 **Changes to Membership.** The Authority Board of Directors will have the authority to (1) approve the addition of new members to the Authority, and (2) remove a Member involuntarily, in accordance with this Article. In the event of the approval of new Members or the involuntary removal of an existing Member, the Members (and any new Members) shall execute an addendum or amendment to this Agreement describing all changes in Members. In the event of the involuntary removal of a Member the removed Member shall remain fully responsible for its proportionate share of all liabilities incurred by the Authority prior to the effective date of the removal.

6.2 **Noncompliance.** In the event any Member (1) fails to comply with the terms of this Agreement, or (2) undertakes actions that conflict with or undermine the functioning of the Authority or the preparation or implementation of the GSP, such Member shall be subject to the provisions for involuntary removal of a Member set forth in of Section 6.3 of this Agreement. Such actions of a Member shall be as determined by the Board of Directors and may include, for example, failure to pay its agreed upon contributions when due; refusal to participate in GSA activities or to provide required monitoring of sustainability indicators; refusal to enforce controls as required by the GSP; refusal to implement any necessary actions as outlined by the approved GSP minimum thresholds that are likely to lead to “undesirable results” under SGMA.

6.3 **Involuntary Termination.** The Members acknowledge that SGMA requires that multiple GSAs within Bulletin 118 groundwater basins designated as high- or medium-priority must coordinate, and are required to use the same data and consistent methodologies for certain required technical assumptions when developing a GSP, and that the entire Basin must be managed under one or more GSPs or an alternative in lieu of a GSP for the Basin to be deemed in compliance with SGMA. As a result, upon the determination by the Board of Directors that the actions of a Member (1) fail to comply with the terms of this Agreement, or (2) conflict with or undermine the functioning of the Authority or the preparation and implementation of the requirements of the GSP, the Board of Directors may terminate that Member’s membership in this Authority, provided that prior to any vote to remove a Member involuntarily, all of the Members shall meet and confer regarding all matters related to the proposed removal. The Board of Directors shall terminate the membership in the Authority of any Member that fails, on or before June 30, 2017, to (i) elect to become a GSA duly established in accordance with SGMA, or (ii) participate, through a joint exercise of powers agreement or other legal agreement, in a GSA duly established in accordance with SGMA.

6.4 **Withdrawal of Members.** A Member may, in its sole discretion, unilaterally withdraw from the Authority, effective upon ninety (90) days’ prior written notice to the Authority, provided that (a) the withdrawing Member will remain responsible for its proportionate share of any obligation or liability duly incurred by the Authority, in accordance with Article 5.1. A withdrawing Member will not be responsible for any obligation or liability that the Member has voted against at a Board meeting, providing that such Member shall give notice of its withdrawal from the Authority as soon after voting against the proposal as is practicable. Without limiting the generality of the previous sentence, in the event that the Authority levies or adopts any tax, assessment or property-related fee or charge (collectively “Authority Charge”) the Authority Charge will not be effective within the jurisdictional boundaries of a Member that votes against the Authority Charge and withdraws in accordance with this Article 6.4. In the event the withdrawing Member has any rights in any property or has incurred obligations to the Authority, the Member may not sell, lease or transfer such rights or be relieved of its obligations, except in accordance with a written agreement executed by it and the Authority. The Authority may not sell, lease, transfer or use any rights of a Member who has withdrawn without first obtaining the written consent of the withdrawing Member. Notwithstanding any other provision of this Agreement, if a Member fails to take action, on or before June 30, 2017, to (i) elect to become a GSA, or (ii) join in a GSA that is a member of the Authority, that Member shall withdraw from the Authority and this Agreement in accordance with this Article 6.4.

6.5 **Termination.** This Agreement and the Authority may be terminated by a majority vote of the Members. However, in the event of termination each of the Members will remain responsible for its proportionate share of any obligation or liability duly incurred by the Authority, in accordance with Article 5.1. Nothing in this Agreement will prevent the Members from withdrawing as provided in this Agreement, or from entering into other joint exercise of power agreements.

6.6 **Disposition of Property Upon Termination.** Upon termination of this Agreement, the assets of the Authority shall be transferred to the Authority's successor, provided that a public entity will succeed the Authority, or in the event that there is no successor public entity, to the Members in proportion to the contributions made by each Member. If the successor public entity will not assume all of the Authority's assets, the Board shall distribute the Authority's assets between the successor entity and the Members in proportion to the any obligation required by Articles 5.1 or 5.6.

6.7 **Rights of Member to Become GSA in Event of Withdrawal or Termination.** Upon withdrawal or involuntary termination of a Member, or termination of this Agreement pursuant to Article 6.5, whether occurring before or after June 30, 2017, the withdrawing or terminated Member will retain all rights and powers to become or otherwise participate in a GSA for the lands within its boundaries. In such event the Authority and its remaining Members (i) shall not object to or interfere with the lands in the withdrawing or terminated Member's boundaries being in a GSA, as designated by the withdrawing or terminated Member or otherwise, (ii) shall facilitate such transition to the extent reasonably necessary, and (iii) shall withdraw from managing that portion of the Basin within the boundaries of the withdrawing or terminating Member and so notify the California Department of Water Resources.

6.8 **Use of Data.** Upon withdrawal, any Member shall be entitled to use any data or other information developed by the Authority during its time as a Member. Further, should a Member withdraw from the Authority after completion of the GSP, it shall be entitled to utilize the GSP for future implementation of SGMA within its boundaries.

## ARTICLE 7: SPECIAL PROJECTS

7.1 Fewer than all of the Members may enter into a special project agreement to achieve any of the purposes or activities authorized by this Agreement, and to share in the expenses and costs of such special project, for example, to share in funding infrastructure improvements within the boundaries of only those Members and their Management Areas. Special project agreements must be in writing and documentation must be provided to each of the Members to this Agreement.

7.2 Members that enter into special project agreements agree that any special project expenses incurred for each such special project are the costs of the special project participants, respectively, and not of any other Members to this Agreement not participating in the special project, and the special project expenses shall be paid by the parties to the respective special project agreements.

7.3 Members participating in special project agreements, if conducted by the Authority, shall hold each of the other parties to this Agreement who are not parties to the special project

agreement free and harmless from and indemnify each of them against any and all costs, losses, damages, claims and liabilities arising from the special project agreement. The indemnification obligation of Members participating in special project agreements shall be the same as specified in Article 8.1 for Members in general, except that they shall be limited to liabilities incurred for the special project.

## ARTICLE 8: MISCELLANEOUS PROVISIONS

8.1 **Indemnification.** The Authority shall hold harmless, defend and indemnify the Members, and their agents, officers and employees from and against any liability, claims, actions, costs, damages or losses of any kind, including death or injury to any person and/or damage to property arising out of the activities of the Authority, or its agents, officers and employees under this Agreement. These indemnification obligations shall continue beyond the Term of this Agreement as to any acts or omissions occurring before or under this Agreement or any extension of this Agreement.

8.2 **Amendments.** This Agreement may be amended from time to time by a unanimous vote of the Members.

8.3 **Binding on Successors.** Except as otherwise provided in this Agreement, the rights and duties of the Members may not be assigned or delegated without a unanimous vote by the Members. Any approved assignment or delegation shall be consistent with the terms of any contracts, resolutions, indemnities and other obligations of the Authority then in effect. This Agreement shall inure to the benefit of, and be binding upon, the successors and assigns of the Members hereto.

8.4 **Notice.** Any notice or instrument required to be given or delivered under this Agreement may be made by: (a) depositing the same in any United States Post Office, postage prepaid, and shall be deemed to have been received at the expiration of 72 hours after its deposit in the United States Post Office; (b) transmission by facsimile copy to the addressee; (c) transmission by electronic mail; or (d) personal delivery. On the signature page of this Agreement, each party shall provide contact information for the purpose of notification.

8.5 **Counterparts.** This Agreement may be executed by the Members in separate counterparts, each of which when so executed and delivered shall be an original. All such counterparts shall together constitute but one and the same instrument.

8.6 **Choice of Law.** This Agreement shall be governed by the laws of the State of California.

8.7 **Severability.** If one or more clauses, sentences, paragraphs or provisions of this Agreement is held to be unlawful, invalid or unenforceable, it is hereby agreed by the Members that the remainder of the Agreement shall not be affected thereby. Such clauses, sentences, paragraphs or provisions shall be deemed reformed so as to be lawful, valid and enforced to the maximum extent possible.

8.8 **Headings.** The paragraph headings used in this Agreement are intended for convenience only and shall not be used in interpreting this Agreement or in determining any of the rights or obligations of the Members to this Agreement.

8.9 **Construction and Interpretation.** This Agreement has been arrived at through negotiation and each Member has had a full and fair opportunity to revise the terms of this Agreement. As a result, the normal rule of construction that any ambiguities are to be resolved against the drafting Member shall not apply in the construction or interpretation of this Agreement.

8.10 **Entire Agreement.** This Agreement constitutes the entire agreement among the Members and supersedes all prior agreements and understandings, written or oral. This Agreement may only be amended by written instrument executed by all Members.

IN WITNESS WHEREOF, the parties hereto have caused Agreement to be executed on the day and year set opposite the name of the parties:

MIMI DUZENSKI  
Clerk of the Board of Supervisors  
of the County of San Joaquin,  
State of California

\_\_\_\_\_  
CHARLES WINN, Chair  
Board of Supervisors  
of the County of San Joaquin,  
State of California



By \_\_\_\_\_  
Clerk

APPROVED AS TO FORM:

By \_\_\_\_\_  
LAWRENCE P. MEYERS  
Deputy County Counsel



ATTEST:

\_\_\_\_\_  
CLERK

\_\_\_\_\_  
AGENCY LEGAL NAME

\_\_\_\_\_  
By: Signature Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

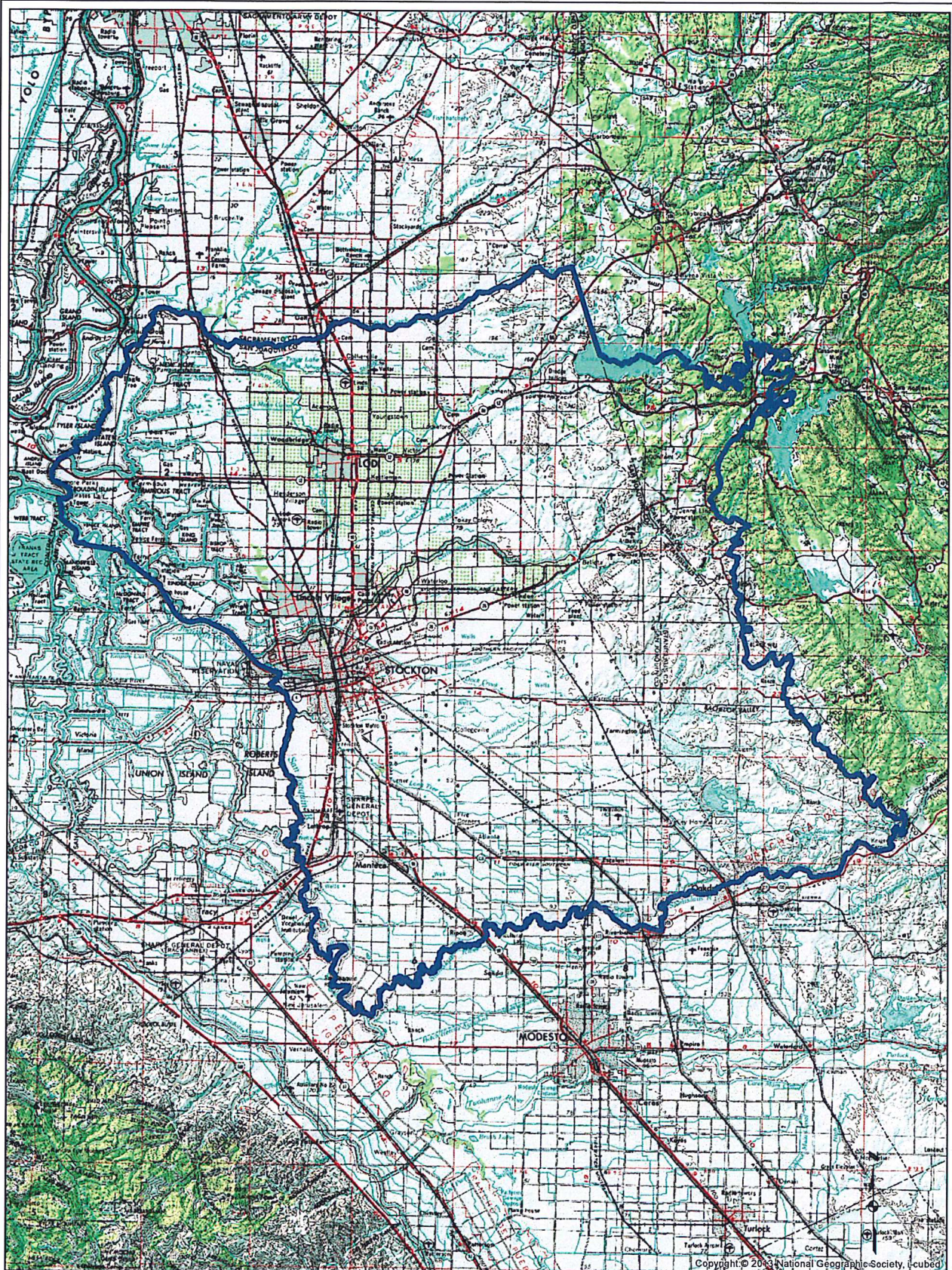
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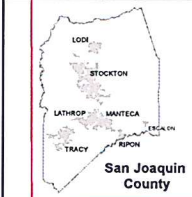
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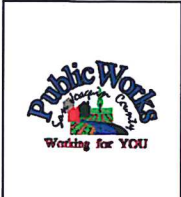
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 Eastern San Joaquin Groundwater Subbasin



**Eastern San Joaquin Groundwater Subbasin**  
 -- Eastern San Joaquin Groundwater Authority "Exhibit A" --

**SAN JOAQUIN COUNTY**  
 Department of Public Works, 1810 E. Hazelton Ave., Stockton, CA 95205  
 The County of San Joaquin does not warrant the accuracy, completeness, or suitability for any particular purpose.  
 The information on this map is not intended to replace engineering, financial or primary records research.





**Eastern San Joaquin Groundwater Joint Powers Authority  
Board Member Designation Form**

As stated in the Eastern San Joaquin Groundwater Joint Powers Authority Agreement, appointment to a JPA board position, including an alternate position, must be done in writing. Completion of this form, accompanied by the signature of an authorized representative of your agency will fulfill that requirement.

Continuity of participation and familiarity with issues are very important to the success of the JPA. It is the responsibility of the board member and the alternate to remain fully briefed on issues coming before the board. If there is a change in the designated member and/or alternate, a new designation form must be submitted. Only the member or alternate named on this form are authorized to participate on the JPA board.

**Please print.**

**Signing Agency:**

\_\_\_\_\_

**Board Member's Name:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Work Phone:** \_\_\_\_\_ **Mobile:** \_\_\_\_\_

**Alternate's Name:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Work Phone:** \_\_\_\_\_ **Mobile:** \_\_\_\_\_

**Authorizing Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

# Agenda Item

DATE: April 12, 2017

TO: Dave Eggerton, General Manager 

FROM: Joel Metzger, PIO/Customer Relations Manager

SUBJECT: Discussion/Action Regarding Support for the Association of California Water Agency's Policy Statement on Bay-Delta Flow Requirements

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## **RECOMMENDED ACTION:**

Motion: \_\_\_\_\_ / \_\_\_\_\_ adopting Resolution No. 2017-\_\_\_\_\_ in support of the Association of California Water Agency's Policy Statement on Bay-Delta Flow Requirements.

## **SUMMARY:**

The Association of California Water Agency's (ACWA) Board of Directors has adopted a strong policy statement regarding Bay-Delta Flow Requirements urging the State Water Resources Control Board to set aside its problematic "unimpaired flow" approach to setting new water quality objectives in the Bay-Delta watershed.

The policy statement calls on the State Water Board to heed Governor Jerry Brown's call for negotiated agreements with willing local agencies, which historically have proven successful in achieving positive ecological outcomes while maintaining water supply reliability. ACWA believes the state's policy on flows should embrace a collaborative, comprehensive approach that protects and promotes both water supply reliability and ecosystem health.

The State Water Board staff proposal to base new water quality objectives on a "percentage of unimpaired flow" could lead to widespread fallowing of agricultural land and negatively affect water reliability for much of the state's population. The singular focus on unimpaired flow is incompatible with the state's existing water policy of coequal goals and other broader policy commitments in the Brown Administration's California Water Action Plan.

ACWA submitted the policy statement to the State Water Board along with its formal comment letter on the Phase 1 update to the Bay-Delta Water Quality Control Plan.

To demonstrate the broadest support possible by its member agencies, ACWA has asked its members to adopt a resolution in support of ACWA's policy statement on Bay-Delta flow requirements.

On March 16, 2017, CCWD submitted its own comment letter on the State Water Board's Bay-Delta Water Quality Control Plan update. This letter highlighted CCWD's concerns about protection of water rights and management objectives, groundwater management and the need for an integrated, comprehensive solution for the Delta that is not singularly flow-centric. The ACWA policy statement is entirely consistent with the central themes of CCWD's comment letter, and thus staff recommend the Board join water agencies across the state in supporting this important effort by ACWA.

**FINANCIAL CONSIDERATIONS:**

None at this time.

Attachments: ACWA Policy Statement on Bay-Delta Flow Requirements  
Resolution of Support for ACWA's Policy Statement on Bay-Delta Flow Requirements  
CCWD Comment Letter 2016 Bay-Delta Plan Amendment & SED





# ACWA POLICY STATEMENT ON BAY-DELTA FLOW REQUIREMENTS

## COLLABORATIVE APPROACH IS KEY TO CALIFORNIA'S FUTURE

California is facing a defining moment in water policy. A staff proposal under consideration by the State Water Resources Control Board presents a decision point about the future we want for California and its communities, farms, businesses and ecosystems. The State Water Board's staff proposal to base new water quality objectives on a "percentage of unimpaired flow" would have impacts that ripple far beyond water for fish.

The proposal could lead to widespread fallowing of agricultural land, undercut the state's groundwater sustainability goals, cripple implementation of the Brown Administration's California Water Action Plan, negatively affect water reliability for much of the state's population and impact access to surface water for some disadvantaged communities that do not have safe drinking water. These effects are not in the public's interest.

Local water managers overwhelmingly believe the proposal's singular focus on "unimpaired flow" is the wrong choice for the state's future. California's urban and agricultural water managers are united in their vision for a future that includes a healthy economy as well as healthy ecosystems and fish populations. That vision is best achieved through comprehensive, collaborative approaches that include "functional" flows as well as non-flow solutions that contribute real benefits to ecosystem recovery.

On behalf of its more than 430 member public agencies serving urban and agricultural customers throughout the state, the Association of California Water Agencies (ACWA) adopts the following policy statement regarding the State Water Board's proposed approach to updating the Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta.

## LOCAL SUCCESS STORIES

Collaborative efforts have been successful on many rivers in the Bay-Delta watershed.

**Lower Yuba River:** A voluntary, collaborative settlement among Yuba County Water Agency, California Department of Fish and Wildlife, National Marine Fisheries Service, PG&E and conservation groups resolved 20 years of controversy and resulted in a continuing program to improve 24 miles of salmon and steelhead habitat while protecting water rights and the needs of local communities. State Water Board members have specifically recognized the value of the agreement, which was formally implemented in 2008.

**Lower American River:** A broad representation of water suppliers, environmental groups, local governments and others negotiated an historic agreement that led to a flow management standard that was successfully incorporated into a 2009 biological opinion issued by the National Marine Fisheries Service.

**Feather River:** Six years of negotiations among water users, fisheries agencies and environmental groups yielded a comprehensive agreement that includes a habitat improvement program with specific flow and temperature requirements to accommodate spawning salmon and steelhead. The State Water Board adopted the agreement, with some modification, in 2010 as a water quality certification under the federal Clean Water Act.

## CHOOSING OUR VISION FOR CALIFORNIA'S WATER FUTURE

Since 2009, state law has required water resources to be managed in a way that achieves the coequal goals of improving water supply reliability for California and protecting, restoring and enhancing the Delta ecosystem. ACWA and its public water agency members believe that policy requires a commitment from state agencies and stakeholders to advance both water supply and environmental goals together. ACWA and its members further believe that effective implementation of the coequal goals requires transparent, collaborative processes and comprehensive solutions.

In 2014, the Brown Administration released its California Water Action Plan outlining priority actions addressing water-use efficiency, groundwater sustainability, ecological restoration, Delta conveyance solutions, water storage, safe drinking water and more. Embedded in the plan is the Brown Administration's commitment that planned actions "will move California toward more sustainable water management by *providing a more reliable water supply for our farms and communities*, restoring important wildlife habitat and species, and helping the state's water systems and environment become more resilient."

ACWA believes the policy of coequal goals and the commitment embedded in the California Water Action Plan have the potential to put California on a path that includes a vibrant agricultural and urban economy and a healthy ecosystem.

ACWA and its members believe the unimpaired flow approach proposed by State Water Board staff undercuts and threatens that potential and cannot lead us to the future we want for California. Simply put, any strategy that would result in vast amounts of agricultural land going out of production and ultimately reduce water supply reliability for the majority of Californians is irreconcilable with a policy of coequal goals and blatantly inconsistent with the water policy objectives of the Brown Administration.

ACWA strongly supports the collaborative approach called for by Governor Jerry Brown to move these important decisions out of adversarial processes and into negotiated, comprehensive agreements. The following principles can assure success in that endeavor.

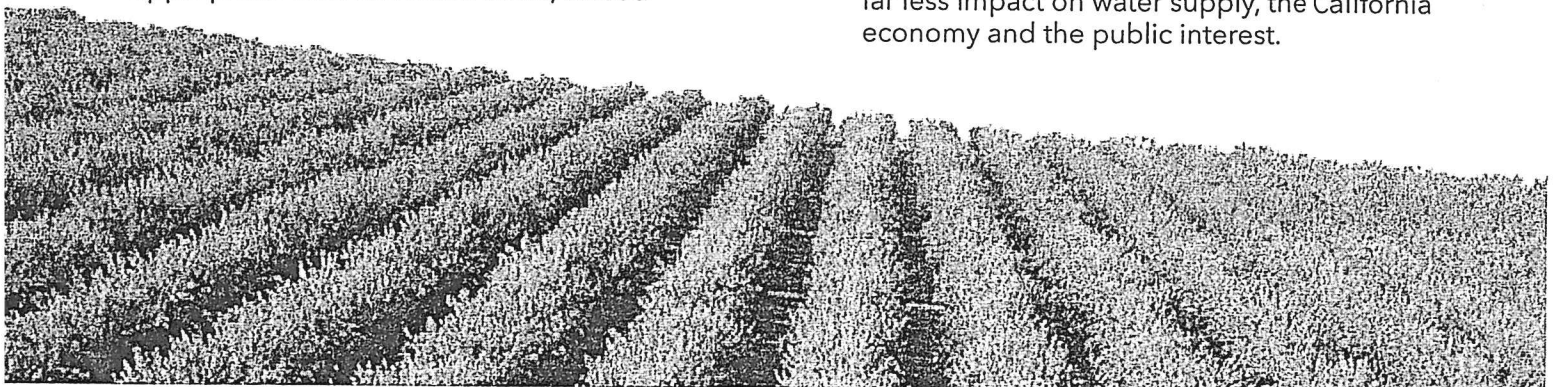


## A BETTER PATH TO THE FUTURE

The State Water Board is responsible for updating the Bay-Delta Plan in a manner that establishes water quality objectives that ensure the reasonable protection of all beneficial uses of water (including domestic, municipal, agricultural and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement of fish, wildlife, and other aquatic resources) while considering past, present and probable future beneficial uses, environmental characteristics, water quality conditions and economic considerations, among other things. (See California Water Code Section 13241.) It also has a responsibility to update the plan in a way that is consistent with the coequal goals and respects and implements the commitments made in the California Water Action Plan.

ACWA and its members urge the State Water Board to set aside the unimpaired flow approach and heed Governor Brown's call for negotiated agreements. ACWA believes that a successful flows policy must be consistent with the following principles:

- **Collaboration:** The governor has called for work on a comprehensive agreement on environmental flows in both the San Joaquin and Sacramento River basins. He has asked that State Water Board members and staff prioritize analysis and implementation of voluntary agreements. Further, the Brown Administration committed in the California Water Action Plan that the State Water Board and the California Natural Resources Agency will work with stakeholders to encourage negotiated implementation of protective Delta standards. ACWA strongly supports the collaborative approach called for by the governor because it is the least contentious, most effective way to achieve the coequal goals. Negotiated agreements have been demonstrably successful at achieving outcomes and widespread support for appropriate environmental flows; forced regulations have not yielded the same track record. The State Water Board should wholly embrace this approach and allow enough time for it to work.
- **Comprehensive Solutions:** A successful collaborative approach will require comprehensive solutions for both water supply and ecosystem management. Water users will need to continue and build on their commitment to integrated resources management in order to maintain reliability without undue impacts on the ecosystem. Similarly, ecosystem managers will need to focus on the entire life cycle of affected species and multiple variables, such as predation, food, and habitat availability to develop integrated management portfolios that accomplish ecosystem goals without undue impacts on water supply. Utilizing the single variable proposed in the "percentage of unimpaired flow" approach will not achieve the desired ecological outcomes and is, by far, the most destructive policy approach from the perspective of protecting and improving water supply. ACWA firmly believes the ecological outcomes can be achieved with even better results through a comprehensive approach that considers multiple solutions and benefits.
- **Science:** The State Water Board needs to incorporate the best available science to inform its work and assist with the development of voluntary settlement agreements. The unimpaired flow approach, in which flow objectives are not tied to any specific ecological outcome, fails to incorporate the best available science. As noted above, the updated plan needs to focus on the entire life cycle of affected species and multiple variables, such as predation, food, and habitat availability, and incorporate relevant current scientific information. Science alone cannot identify the best policy choice, but it can inform us about the policy tradeoffs we confront and help structure integrated solutions that provide ecosystem benefits with far less impact on water supply, the California economy and the public interest.



## FUNCTIONAL FLOWS: A BETTER APPROACH

**Sacramento Valley:** Sacramento Valley water users and conservation partners are working together to advance a new generation of innovative projects to promote salmon recovery.

Over the past two and a half years, 12 projects have been completed through the Sacramento Valley Salmon Recovery Program to address fish passage, improve the timing of flows and increase habitat for salmon and other species. Priority projects have included removal of structural barriers to fish passage, modifying riffles, eliminating predator habitat, restoring floodplains and creating side channel spawning and rearing areas.

In addition, program partners are exploring creative ways to reconnect water with the land in floodplains and agricultural areas to enhance habitat and food production and create rearing habitat in rice fields.

While each of these collaborative projects provides independent value, implementation of the entire comprehensive suite is generating unique benefits that can significantly improve ecological outcomes for salmon in the Sacramento Valley.

**Merced River:** Merced Irrigation District has spent millions of dollars and decades undertaking intense and in-depth scientific research on the Merced River. This research has included analysis of flows, temperatures, biological resources and habitat. MID is poised to put this research into action through its Merced S.A.F.E. Plan (Salmon, Agriculture, Flows, and Environment) to provide certainty for both the environment and local water supply in Eastern Merced County.

The plan would provide increased flows using science to dictate the amounts and timing; restore critical sections of habitat for spawning and rearing juvenile salmon, protect local drinking water quality, upgrade an existing salmon hatchery with state-of-the-art facilities and reduce predation.

Based on in-depth science and technologically advanced computer modeling, MID seeks to take immediate action and dramatically benefit salmon on the Merced River.

- **Functional Flows:** Science shows that functional flows have very promising benefits for fish as well agricultural and urban water users. Timed and tailored for specific purposes, functional flows can benefit species in ways that unimpaired flow requirements cannot. Examples abound of collaborative, innovative projects currently underway by local water agencies and stakeholders that include functional flows and non-flow solutions that reconnect land and water to restore habitat and address the full life cycle of species needs. These efforts contribute real benefits to ecosystem recovery while maintaining water supply reliability.
- **Economic Considerations:** The State Water Board has a statutory obligation to consider economic impacts when establishing water quality objectives that reasonably protect all beneficial uses of water. Having a robust economic analysis is critical. The board also has a policy obligation under the coequal goals to ensure its actions related to a revised Bay-Delta Plan increase water supply reliability and thereby allow for a healthy, growing agricultural and urban economy in California.
- **Consistency with State Policy:** ACWA urges the State Water Board to heed the governor's direction and recognize that achieving the coequal goals will lead to a more reliable water supply and healthy ecosystem. Pursuing the coequal goals should be a guiding principle for the board's decisions related to adopting a revised Bay-Delta Plan. The State Water Board also should ensure that its decisions on the Bay-Delta Plan enable, rather than obstruct, the implementation of the California Water Action Plan.
- **Leadership:** The best policy choice will come through the give and take of the negotiating process and the enlightened leadership of the State Water Board members. Ultimately, the board must establish water quality objectives that ensure the reasonable protection of all beneficial uses of water as it implements negotiated solutions. The State Water Board should actively engage in this work and lead in a manner that is grounded in an awareness of how its actions can affect the implementation of the California Water Action Plan and the achievement of the coequal goals.

ACWA and its members have taken a strong policy position in support of comprehensive solutions such as those outlined in the California Water Action Plan. We stand ready to work with the Brown Administration to pursue the collaborative and comprehensive approaches needed to ensure a future for California that includes a vibrant agricultural and urban economy and a healthy ecosystem.

**RESOLUTION NO. 2017-**

**A RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE CALAVERAS COUNTY WATER DISTRICT**

**SUPPORTING THE ASSOCIATION OF CALIFORNIA WATER  
AGENCY'S POLICY STATEMENT ON BAY-DELTA FLOW REQUIREMENTS**

**WHEREAS**, California is facing a defining moment in water policy that will be substantially impacted by the State Water Resources Control Board's approach to water quality objectives under the Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta; and

**WHEREAS**, the State Water Board has the responsibility for updating the Bay-Delta Plan in a manner that establishes water quality objectives that ensure the reasonable protection of all beneficial uses of water in a way that is consistent with the coequal goals of improving water supply reliability and protecting, restoring and enhancing the Delta ecosystem and with respect to the commitments made in the California Water Action Plan; and

**WHEREAS**, the State Water Board staff's current proposal, which focuses singularly on an "unimpaired flow" approach is irreconcilable with a policy of coequal goals of improving both water supply reliability and ecosystem health; it is also inconsistent with the broader water policy objectives of Governor Brown's Administration; and

**WHEREAS**, the Association of California Water Agencies' Board of Directors has unanimously adopted a strong policy statement that calls for a better approach that can more effectively achieve ecological objectives while maintaining water supply reliability. The statement calls on the State Water Board to set aside its "unimpaired flow" approach and heed Governor Brown's call for negotiated agreements, which have been successful on many rivers and tributaries in California; and

**WHEREAS**, the ACWA statement notes that to be successful, the state's flow policy must be consistent with the principles of collaboration, comprehensive solutions, science, functional flows, economic considerations, consistency with state policy, and leadership; and

**WHEREAS**, California's local urban and agricultural water managers are united in their vision for a future that includes a vibrant California economy as well as healthy ecosystems and fish populations, and believe that vision is best achieved through a comprehensive, and collaborative approaches.

**NOW, THEREFORE, BE IT RESOLVED** that the Board of Directors of Calaveras County Water District hereby supports ACWA's Policy Statement on Bay-Delta Flows



and encourages the State Water Resources Control Board to embrace the approach articulated in ACWA's policy statement.

**PASSED AND ADOPTED** this 12th day of April, 2017 by the following vote:

**AYES:**

**NOES:**

**ABSTAIN:**

**ABSENT:**

CALAVERAS COUNTY WATER DISTRICT

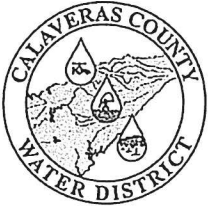
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Jeff Davidson, President  
Board of Directors

**ATTEST:**

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Mona Walker  
Clerk to the Board



# CALAVERAS COUNTY WATER DISTRICT

120 Toma Court • P O Box 846 • San Andreas, CA 95249 • (209) 754-3543

March 16, 2017

Via email: [commentletters@waterboards.ca.gov](mailto:commentletters@waterboards.ca.gov)

Jeanine Townsend, Clerk to the Board  
State Water Resources Control Board  
1001 I Street, 24th Floor  
Sacramento, CA 95814-0100

Re: Comment Letter – 2016 Bay-Delta Plan Amendment & SED

Dear Ms. Townsend:

Calaveras County Water District ("CCWD") appreciates the opportunity to comment on the State Water Resource Control Board's ("Board") Recirculated Draft Substitute Environmental Document in Support of Potential Changes to the Water Quality Control Plan for the San Francisco Bay-Sacramento/San Joaquin Delta Estuary: San Joaquin River Flows and Southern Delta Water Quality ("SED"), released for comment on September 15, 2016.

## **Stanislaus River Water Rights and CCWD Resource Management Objectives**

CCWD is a county water district whose boundaries encompass approximately 650,000 acres of land ranging from the valley floor of the San Joaquin Valley to the Sierra Nevada Mountains. CCWD holds significant water rights, including, but not limited to, water rights on the Calaveras and Stanislaus Rivers. Among other rights, CCWD holds the oldest pre-1914 water rights on the Stanislaus River as well as significant post-1914 consumptive permitted rights for both storage and direct diversion.

Within the Plan Area as defined in the SED, CCWD holds re-diversion rights at Lake Tulloch. This service area includes year-round and seasonal residential populations as well as significant recreational use and commercial use.

The unimpaired flow regime proposed in the SED may result in impacts far upstream of the "rim dam" on the Stanislaus: New Melones. CCWD has a long-term objective of maintaining safe, affordable and reliable access to water for our residents, communities, and upstream-ecosystem. This includes management of headwaters, watersheds and forests, and restoration of upstream ecosystems. District efforts include its Urban Water Management Plan, Capital Improvement Plan, participation in two Integrated Regional Water Management Plans (Mokelumne, Amador, Calaveras and the Tuolumne-Stanislaus) and a Groundwater Sustainability Agency in the Eastern San Joaquin Groundwater Subbasin. In short, CCWD carries out ongoing planning efforts to optimize the beneficial utilization and responsible stewardship of its natural resources. While CCWD strives to achieve its goals, it is appreciative of

the Board's attempts to resolve the challenges of a sound, sustainable, water quality control plan for the Delta. As the Board conducts its analysis, CCWD requests that its Stanislaus River consumptive water rights be considered in full.

### **Groundwater Management**

CCWD overlies the critically over-drafted Eastern San Joaquin Groundwater Sub-basin, and has a long history of proactive management of groundwater resources in the region. Prior activities have included CCWD's groundwater management plans of 2001 and 2007. CCWD's role in managing groundwater resources within the Stanislaus River watershed and the sub-basin will continue under the Sustainable Groundwater Management Act (SGMA). Specifically, CCWD is currently forming a Groundwater Sustainability Agency in conjunction with other local agencies in Calaveras and Stanislaus Counties and will continue to responsibly manage groundwater resources.

Given its significant surface water resources and its responsibilities under SGMA, CCWD intends to put its resources to use for the benefit of the region and assist in bringing the over-drafted groundwater sub-basin into a sustainable condition. The District requests that its role and efforts be incorporated into the Board's analysis.

CCWD is concerned that the SED has not adequately identified or analyzed impacts to CCWD's interests – including but not limited to water supplies and sustainable groundwater management – and must be revised to include such analysis and disclosure. The very purpose of CEQA is, among others, to disclose to the public the significant environmental effects of a proposed discretionary project and to fully disclose to the public the agency's decision-making process<sup>1</sup>. In its current form the SED does neither.

### **Integrated, Comprehensive Solution for the Delta**

A healthy functioning Delta ecosystem as proposed in the Delta Plan<sup>2</sup> will not result from the application of an unimpaired flow regime for San Joaquin River tributaries or even additional (Phase II) Sacramento River main-stem and tributary flows. The need is for a more comprehensive, long-term, sustainable, ecosystem-based management program that addresses the co-equal goals<sup>3</sup> of Delta Policy. This will require a focus on the multitude of species dependent on the Delta and its tributaries, including their requisite habitat and life cycle requirements. By definition this will include non-flow actions such as the management of predator species, the creation of suitable habitat,

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<sup>1</sup> Ca. Pub. Res. Code. §21000 et seq.

<sup>2</sup> CWC §85059

<sup>3</sup> CWC §85020, §85021 and §85054

a coordinated water export/net Delta outflow operation, as well as pollution control, floodplain management, stream channel restoration and effective groundwater management and recharge. Integrated resources management will be essential to achieving the protection of beneficial uses of water as well as sustaining the Delta ecosystem.

A rigorous science program coupled with real-time adaptive management, so as to better inform Delta managers and the Board consistent with the restoration objectives, must support these efforts. The SED's proposed unimpaired flow application to tributaries is not linked to any clear ecosystem objective. Indeed, the Delta Independent Science Board has called for the use of a more natural flow regime created to meet specific aquatic ecosystem needs based on location, duration, quantity, and temperature. An unimpaired flow "solution" will fail absent the use of other integrated resource actions as noted above.

Such a comprehensive approach can best be achieved through collaborative, voluntary solutions created and supported by local water government agencies, NGO's, the California Natural Resources Agency and other state and federal agencies. The utility of negotiated agreements are a proven approach to resolving complex resource management challenges. Resource managers as well as local, state, and federal agencies have supported these sorts of voluntary agreements that in turn produced successful outcomes. We urge the Board to allow the time, following the end of the SED comment period, for the development of such voluntary agreements, as encouraged by the Governor's office.

In summary, as the Board moves towards implementing its requirements under the Bay-Delta Plan, CCWD stands ready to be a willing partner to assist in meeting both the Board objectives as well as improving regional conditions. CCWD believes the Governor's September 19, 2016 call to work towards voluntary agreements achieves these ends, and welcomes the opportunity to cooperatively work on the solution. We therefore request that CCWD be included in any "settlement" discussions related to the Stanislaus River and its tributaries.

Thank you for your consideration of these comments.

Sincerely,

CALAVERAS COUNTY WATER DISTRICT



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Dave Eggerton  
General Manager

# Agenda Item

DATE: April 12, 2017  
TO: Dave Eggerton, General Manager  
FROM: Joel Metzger, PIO/Customer Relations Manager  
SUBJECT: Discussion/Action Regarding State Legislation in the 2017-18 Session

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## **RECOMMENDED ACTION:**

Discussion/action on state legislation:

Motion: \_\_\_\_\_/\_\_\_\_\_ by Minute Entry to take the following positions on state legislation:

- “Support” AB 1654 (Rubio). Water shortage: urban water management planning.
- “Support” AB 968 (Rubio). Urban retail water use: water efficiency targets.
- “Oppose” AB 975 (Friedman). Natural Resources. Wild and Scenic Rivers.

## **SUMMARY:**

In May 2016, Gov. Jerry Brown issued Executive Order B-37-16 (EO) calling for water conservation to become a California way of life. The order tasked state agencies with writing a framework to achieve this goal. During the drafting of this framework, Urban and Agricultural advisory groups consisting of various stakeholders were formed to help guide the process of drafting the framework. Calaveras County Water District General Manager Dave Eggerton was chosen as a member of the Urban Advisory Group (UAG) in August 2016. The UAG submitted verbal and written comments to the responsible state agencies throughout the process of drafting the long-term water conservation framework. Dave worked with Joel Metzger, John Mills and a team of stakeholders from across the state that drafted two ACWA comment letters (submitted in October 2016 and January 2017) that addressed a series of concerns with the draft framework.

Based on the most recent version of the draft framework, however, few changes were made to the framework to address these concerns of CCWD, ACWA, and many other UAG members and participants. In response, ACWA formed an Urban Long-Term Conservation Working Group (Working Group). The Working Group used the comment letters as a guide to draft legislation that provides protections against the most



concerning portions of the draft framework. Joel Metzger has met via conference call with the group at least once a week since January 2017. The results of this group's legislative drafting efforts are Assemblymember Rubio's AB 1654 and AB 968. Staff recommends a "support" position on both bills.

### **AB 1654 (Rubio):**

This bill includes language drafted by the Working Group regarding changes to Urban Water Management Planning. Specifically:

- **Enhance Existing UWMP Plan Requirements** – Urban Water Management Plans would include a Water Shortage Contingency Analysis that utilizes a five-year drought planning sequence, and include a communications strategy, specific compliance and exemption procedures, monitoring and reporting protocols, and a regular review process.
- **Provide the State with Annual Water Supply and Demand Forecast** – Water suppliers would provide state agencies with an annual supply and demand assessment to facilitate better understanding of regional hydrology and local supply conditions throughout the state. This annual assessment would include any projected shortage and actions to be taken to reduce demand or augment supply.
- **Provide Monthly Reporting to the State When a Shortage Occurs** – Water suppliers that implement a water shortage contingency stage would report water use and demand reduction actions monthly.
- **Rely on Local Water Supplier Planning and Preparation for Drought** – Water supplies that are documented to be available to a water supplier during drought conditions cannot be subject to state-mandated reductions in use. Any actions to conserve water in response to a shortage must be at the discretion of a local water supplier.

### **AB 968 (Rubio):**

This bill includes language drafted by the Working Group regarding long-term water conservation regulations. Of particular interest to the District:

- **Preserve the Legislature's Authority** – The Legislature must retain its control and oversight over water use target setting. Any revisions of standards or performance measures beyond the initially adopted standards must be approved by the Legislature, not implemented through ongoing regulatory authority of the State Water Board or other administrative agency.
- **Incorporate Multiple Compliance Methods for Water Use Targets** – SB x7-7 (2009) established four methods that water suppliers can use to determine compliance with water use efficiency requirements. The draft Framework's proposal to impose a single method for target setting does not account for the diversity of water supply conditions and uses across the state. Additional compliance methods that are based on the proven alternatives in SB x7-7 must be maintained, including the regional compliance option.

- **No Impact on Water Rights** – Water Code section 1011, which allows water right holders to use or transfer conserved water, must continue to apply. The new legislation must not adversely impact water supply contracts or water rights.
- **Enhance and Incentivize Sustainable Water Management** – As described in the California Water Action Plan, both water use efficiency improvements and development of additional resilient water supplies will be required to sustainably manage water in California. New laws or regulations must not result in stranded water resource assets nor discourage continued regional or local investments in these critical new water supplies.
- **Maintain Existing Enforcement Measures** – The current sanction for failure to meet efficiency targets—ineligibility for state water grant funds—is an effective measure that should be maintained, but not expanded.
- **Ensure that Any Landscape Area Data Used in Target Setting is Accurate** – Consistent with the EO’s call for a water use target based in part on landscape area, the state should provide validated land use data of the irrigable area at the parcel level to each water supplier in a timely manner, and defer to water suppliers that choose to utilize their own validated data sets if a supplier opts to use the landscape based compliance method. Compliance deadlines must be extended if the state fails to meet its commitment to provide necessary land use data.
- **Incorporate Proven Efficiency Standards into Water Use Targets** – Proven efficiency standards, such as the 55 gallons per capita per day standard for indoor residential use and the appropriate Model Water Efficient Landscape Ordinance (MWELO) for irrigable areas, should be incorporated into one of the compliance options. A stakeholder consultation process should be used to develop performance measures for commercial, industrial and institutional uses, and to develop variances for unique circumstances that cannot be fully addressed through a standardized methodology.
- **Account for Recycled Water** – Consistent with existing law, recycled water should be excluded from calculations of water use targets and corresponding efficiency standards, as it is already a highly regulated and efficient beneficial reuse of water.

#### **AB 975 (Friedman):**

This bill would change existing state wild and scenic river law to reflect additional requirements recognized under federal law. Specifically AB 975:

- **Additional Recognized Values** – Existing state law recognizes rivers which possess extraordinary “scenic, recreational, fishery, or wildlife values.” With AB 975, this list would be expanded to also include: “historical, cultural, and geologic values.” The bill further expands the list to also include an ambiguous category that is not found in either state or federal law: “other similar values.”
- **Expanded Geographical Reach** – Current state wild and scenic designation protects “immediate environments” adjacent to the river up to the first line of permanently established riparian vegetation (often at the river bank). This bill

would expand the definition to also include areas "within a quarter of a mile of segments of a river."

With the ongoing efforts of CCWD, CPUD, AWA and the State of California to implement the wild and scenic related study of AB 142 (Bigelow) for portions of the Mokelumne River, there is serious concern that AB 975 could complicate or even undermine the results of that effort as well as the decisions to be made relying upon that information. For this reason and the related uncertainty regarding potential impacts to local water supplies and underlying water rights, staff recommends an "oppose" position on AB 975.

**FINANCIAL CONSIDERATIONS:**

None at this time.

Attachments: AB 1654 (Rubio)  
AB 968 (Rubio)  
AB 975 (Rubio)

AMENDED IN ASSEMBLY MARCH 28, 2017

CALIFORNIA LEGISLATURE—2017—18 REGULAR SESSION

ASSEMBLY BILL

No. 1654

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Introduced by Assembly Member ~~Cooper~~ *Rubio*

February 17, 2017

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An act to amend ~~Section 10608~~ of Sections 10621, 10631, 10632, and 10635 of, to repeal Section 10631.7 of, to add Sections 10613.5 and 10658 to, and to add Part 2.56 (commencing with Section 10609) to Division 6 of, the Water Code, relating to water.

LEGISLATIVE COUNSEL'S DIGEST

AB 1654, as amended, ~~Cooper~~ *Rubio*. Water ~~conservation~~. *shortage*: urban water management planning.

(1) Existing law, the Urban Water Management Planning Act, requires every public and private urban water supplier that directly or indirectly provides water for municipal purposes to prepare and adopt an urban water management plan and to update its plan once every 5 years on or before December 31 in years ending in 5 and zero, except as specified.

This bill would require the update of a plan on or before July 1, in years ending in one and 6. The bill would require each urban retail water supplier to report annually by June 15 to the Department of Water Resources the status of its water supplies for that year and whether the supplies will be adequate to meet projected customer demand, as prescribed. The bill would require the urban retail water supplier to implement the appropriate responses as described in its water shortage contingency analysis if the urban retail water supplier reports that all available water supplies for the applicable water year will not be adequate to meet projected customer demand. The bill would require

*the urban retail water supplier to continue to implement the mandatory demand reduction measures described in its water shortage contingency analysis until certain conditions have changed to the point that the urban retail water supplier finds that it is able to meet projected customer demand over the next 12 months without continued implementation of the measures. The bill would require an urban retail water supplier to file a certain report with the department by the 15th day of each month during a period that the urban retail water supplier is implementing mandatory demand reduction measures. The bill would require the department to establish an electronic portal through which an urban retail water supplier is required to provide these reports to the department and would require the department to provide the State Water Resources Control Board with access to the reports and data.*

*(2) The act requires an adopted plan to include certain components, including, among other things, an identification and quantification of the existing and planned sources of water available to the supplier over 5-year increments, a description of the reliability of the water supply and vulnerability to seasonal or climatic shortage for an average water year; single-dry water year; and multiple-dry water years, and quantification of distribution system water loss for each of the 5 years preceding the plan update.*

*This bill would add to the requirements of a plan a description of how an emergency supply has been established to increase water supply reliability during times of shortage and how the supply is in addition to the supplies that the agency draws upon during nonshortage times, if an emergency supply, as defined, is identified as an existing or planned source of water available to the urban retail water supplier. The bill would require a description of the reliability and vulnerability for 5 consecutive years consisting of a repeat of the 5 consecutive historic driest years experienced by the urban retail water supplier, except as provided, rather than multiple-dry water years. The bill would specify that distribution system water loss to be included in the plan is potable distribution system water loss.*

*(3) The act requires the department, in consultation with the California Urban Water Conservation Council, to convene an independent technical panel to provide information and recommendations to the department and the Legislature on new demand management measures, technologies, and approaches. The act requires the panel to report to the Legislature no later than January 1, 2010, and every 5 years thereafter, and requires the department to review the*



*report and include in the final report to the Legislature recommendations and comments. The act deems an urban water supplier that is a member of the council and in compliance with the provisions of a certain memorandum to be in compliance with certain requirements relating to including water demand management measures in a plan.*

*This bill would delete these provisions.*

*(4) The act requires that the plan provide an urban water shortage contingency analysis that includes certain elements, including an estimate of the minimum water supply available during each of the following 3 water years based on the driest 3-year historic sequence for the agency's water supply.*

*This bill would revise the elements included within an analysis.*

*(5) The California Constitution declares the policy that the water resources of the state be put to beneficial use to the fullest extent of which they are capable, that the waste or unreasonable use or unreasonable method of use of water be prevented, and that the conservation of such waters is to be exercised with a view to the reasonable and beneficial use of the waters in the interest of the people and for the public welfare. Existing law requires the department and the board to take all appropriate proceedings or actions to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of water in this state.*

*This bill would prohibit an urban water supplier, during a statewide drought, local drought, or water shortage, from being required to reduce its use or reliance on any water supply available for its use and identified in its plan or from being required to take additional actions beyond those specified in its water shortage contingency analysis for the level of water shortage, as specified.*

~~Existing law requires the state to achieve a 20% reduction in urban per capita water use in California by December 31, 2020. Existing law requires agricultural water suppliers to prepare and adopt agricultural water management plans with specified components on or before December 31, 2012, and to update those plans on or before December 31, 2015, and on or before December 31 every 5 years thereafter. Existing law sets forth various findings and declarations related to water conservation.~~

~~This bill would make a nonsubstantive change in those findings and declarations.~~

Vote: majority. Appropriation: no. Fiscal committee: ~~no~~yes.  
State-mandated local program: no.

*The people of the State of California do enact as follows:*

1     SECTION 1. *Part 2.56 (commencing with Section 10609) is*  
2 *added to Division 6 of the Water Code, to read:*

3  
4           PART 2.56. URBAN WATER MANAGEMENT DEMAND  
5                         REDUCTION MEASURES  
6

7     10609. *The following definitions govern the construction of*  
8 *this part:*

9     (a) *“Water shortage contingency analysis” means the*  
10 *component of an urban water management plan described in*  
11 *Section 10632.*

12     (b) *“Urban retail water supplier” has the meaning provided in*  
13 *Section 10608.12.*

14     (c) *“Urban water supplier” has the meaning provided in Section*  
15 *10617.*

16     (d) *“Urban wholesale water supplier” has the meaning provided*  
17 *in Section 10608.12.*

18     10609.5 (a) *In addition to and separate from the urban water*  
19 *management plans required pursuant to Part 2.6 (commencing*  
20 *with Section 10610), by June 15 of each year an urban retail water*  
21 *supplier shall report to the department the status of its water*  
22 *supplies for that year and whether the supplies will be adequate*  
23 *to meet projected customer demand.*

24     (b) (1) *If an urban retail water supplier reports pursuant to*  
25 *subdivision (a) that all available water supplies for the applicable*  
26 *water year will not be adequate to meet projected customer*  
27 *demand, the urban retail water supplier shall implement the*  
28 *appropriate responses as described in its water shortage*  
29 *contingency analysis. If demand is projected to exceed all available*  
30 *supply sources and mandatory water demand reduction measures*  
31 *are required, the annual report shall describe the water supply*  
32 *shortage stage and the measures that the supplier will take to*  
33 *reduce water demand consistent with its water shortage*  
34 *contingency analysis.*

35     (2) *If an urban retail water supplier determines that it cannot*  
36 *meet demands with all available water suppliers and is required*  
37 *to implement mandatory water demand reduction measures as*  
38 *described in its water shortage contingency analysis pursuant to*

1 *paragraph (1), the urban retail water supplier shall do both of the*  
2 *following:*

3 *(A) Continue to implement the mandatory demand reduction*  
4 *measures as described in its water shortage contingency analysis*  
5 *until hydrologic, water supply, or other conditions have changed*  
6 *to the point that the supplier finds that it will be able to meet*  
7 *projected customer demand over the next 12 months without*  
8 *continued implementation of the mandatory demand reduction*  
9 *measures.*

10 *(B) During the period that the urban retail water supplier is*  
11 *implementing the mandatory demand reductions measures*  
12 *described in its water shortage contingency analysis, the supplier*  
13 *shall file a report with the department by the 15th day of each*  
14 *month that describes how the supplier is implementing the*  
15 *measures.*

16 *(3) If an urban retail water supplier reports pursuant to*  
17 *subdivision (a) that supplies are adequate to meet projected*  
18 *customer demand, the urban retail water supplier, at its sole*  
19 *discretion, may declare any stage of its water shortage contingency*  
20 *analysis to balance supply and demand through the augmentation*  
21 *of supplies or to encourage water demand reduction as a*  
22 *precautionary measure. If an urban retail water supplier declares*  
23 *a stage of its water shortage contingency analysis pursuant to this*  
24 *paragraph, the urban retail water supplier shall not have an*  
25 *additional obligation to report to the department on the*  
26 *implementation of its plan.*

27 *(c) Multiple urban retail water suppliers within the same*  
28 *hydrologic region may file a joint report with the department if*  
29 *those urban retail water suppliers' water supplies are interrelated*  
30 *and if each urban retail water supplier determines that a joint*  
31 *report most accurately reflects the condition of their respective*  
32 *water supplies. Regardless of whether a joint report is submitted,*  
33 *an urban retail water supplier may submit an individual report to*  
34 *the department.*

35 *(d) An urban wholesale water supplier shall provide its retail*  
36 *agencies with information on the status of the urban wholesale*  
37 *water supplier's water supplies annually so that an urban retail*  
38 *water supplier reliant on the wholesale supply has sufficient data*  
39 *to comply with subdivision (a). An urban retail water supplier*  
40 *shall provide an urban wholesale water supplier with information*

1 regarding its estimated annual demand for water from each  
2 wholesaler annually. An urban retail water supplier and its urban  
3 wholesale water suppliers shall meet and determine the process  
4 and dates by which they will comply with the requirements of this  
5 subdivision.

6 (e) An urban water supplier shall not be required to comply  
7 with any requirement in Part 2.6 (commencing with Section 10610)  
8 for any action taken or report made pursuant to this section. An  
9 action taken or report made pursuant to this section shall not be  
10 considered part of, amendments to, or changes to, an urban water  
11 management plan.

12 (f) The department shall establish an electronic portal through  
13 which suppliers shall provide the reports required by this section.  
14 The department shall provide the board with access to the reports  
15 and data submitted through the portal.

16 SEC. 2. Section 10613.5 is added to the Water Code, to read:

17 10613.5. "Emergency supply" means a water supply identified  
18 in the urban water management plan of an urban water supplier  
19 that has been developed to increase an urban water supplier's  
20 water supply reliability during times of shortage, including, but  
21 not limited to, unplanned service disruptions, and is in addition  
22 to the water supplies that the agency draws upon during  
23 nonshortage times to meet water demands within its service area.

24 SEC. 3. Section 10621 of the Water Code is amended to read:

25 10621. (a) Each urban water supplier shall update its plan at  
26 least once every five years on or before ~~December 31~~, July 1, in  
27 years ending in ~~five and zero~~, except as provided in subdivisions  
28 ~~(d) and (e)~~: one and six.

29 (b) Every urban water supplier required to prepare a plan  
30 pursuant to this part shall, at least 60 days before the public hearing  
31 on the plan required by Section 10642, notify any city or county  
32 within which the supplier provides water supplies that the urban  
33 water supplier will be reviewing the plan and considering  
34 amendments or changes to the plan. The urban water supplier may  
35 consult with, and obtain comments from, any city or county that  
36 receives notice pursuant to this subdivision.

37 (c) The amendments to, or changes in, the plan shall be adopted  
38 and filed in the manner set forth in Article 3 (commencing with  
39 Section 10640).

1 ~~(d) Each urban water supplier shall update and submit its 2015~~  
2 ~~plan to the department by July 1, 2016.~~

3 ~~(e) Each urban water supplier shall update and submit its 2020~~  
4 ~~plan to the department by July 1, 2021.~~

5 *SEC. 4. Section 10631 of the Water Code is amended to read:*

6 10631. A plan shall be adopted in accordance with this chapter  
7 that shall do all of the following:

8 (a) Describe the service area of the supplier, including current  
9 and projected population, climate, and other demographic factors  
10 affecting the supplier's water management planning. The projected  
11 population estimates shall be based upon data from the state,  
12 regional, or local service agency population projections within the  
13 service area of the urban water supplier and shall be in five-year  
14 increments to 20 years or as far as data is available.

15 (b) Identify and quantify, to the extent practicable, the existing  
16 and planned sources of water available to the supplier over the  
17 same five-year increments described in subdivision (a). ~~If~~

18 (1) ~~If~~ groundwater is identified as an existing or planned source  
19 of water available to the supplier, all of the following information  
20 shall be included in the plan:

21 ~~(1)~~

22 (A) A copy of any groundwater management plan adopted by  
23 the urban water supplier, including plans adopted pursuant to Part  
24 2.75 (commencing with Section 10750), or any other specific  
25 authorization for groundwater management.

26 ~~(2)~~

27 (B) A description of any groundwater basin or basins from which  
28 the urban water supplier pumps groundwater. For basins that a  
29 court or the board has adjudicated the rights to pump groundwater,  
30 a copy of the order or decree adopted by the court or the board and  
31 a description of the amount of groundwater the urban water supplier  
32 has the legal right to pump under the order or decree. For basins  
33 that have not been adjudicated, information as to whether the  
34 department has identified the basin or basins as overdrafted or has  
35 projected that the basin will become overdrafted if present  
36 management conditions continue, in the most current official  
37 departmental bulletin that characterizes the condition of the  
38 groundwater basin, and a detailed description of the efforts being  
39 undertaken by the urban water supplier to eliminate the long-term  
40 overdraft condition.



1     ~~(3)~~

2     (C) A detailed description and analysis of the location, amount,  
3 and sufficiency of groundwater pumped by the urban water supplier  
4 for the past five years. The description and analysis shall be based  
5 on information that is reasonably available, including, but not  
6 limited to, historic use records.

7     ~~(4)~~

8     (D) A detailed description and analysis of the amount and  
9 location of groundwater that is projected to be pumped by the  
10 urban water supplier. The description and analysis shall be based  
11 on information that is reasonably available, including, but not  
12 limited to, historic use records.

13     (2) *If an emergency supply is identified as an existing or planned*  
14 *source of water available to the supplier, the supplier shall*  
15 *describe how the supply has been established to increase water*  
16 *supply reliability during times of shortage and how the supply is*  
17 *in addition to the supplies that the agency draws upon during*  
18 *nonshortage times to meet water demands within its service area.*

19     (c) (1) Describe the reliability of the water supply and  
20 vulnerability to seasonal or climatic shortage, to the extent  
21 practicable, and provide data for each of the following:

22         (A) An average water year.

23         (B) A single-dry water year.

24         ~~(C) Multiple-dry water years.~~

25         (C) *Five consecutive dry years consisting of a repeat of the five*  
26 *consecutive historic driest years that the urban water supplier has*  
27 *experienced, unless the urban water supplier finds that a shorter*  
28 *multiple-year dry period would more severely impact its water*  
29 *supplies, in which case the urban water supplier shall use that*  
30 *shorter period.*

31     (2) For any water source that may not be available at a consistent  
32 level of use, given specific legal, environmental, water quality, or  
33 climatic factors, describe plans to supplement or replace that source  
34 with alternative sources or water demand management measures,  
35 to the extent practicable.

36     (d) Describe the opportunities for exchanges or transfers of  
37 water on a short-term or long-term basis.

38     (e) (1) Quantify, to the extent records are available, past and  
39 current water use, over the same five-year increments described  
40 in subdivision (a), and projected water use, identifying the uses

- 1 among water use sectors, including, but not necessarily limited to,  
2 all of the following uses:
- 3 (A) Single-family residential.
  - 4 (B) Multifamily.
  - 5 (C) Commercial.
  - 6 (D) Industrial.
  - 7 (E) Institutional and governmental.
  - 8 (F) Landscape.
  - 9 (G) Sales to other agencies.
  - 10 (H) Saline water intrusion barriers, groundwater recharge, or  
11 conjunctive use, or any combination thereof.
  - 12 (I) Agricultural.
  - 13 (J) ~~Distribution~~ *Potable distribution* system water loss.
- 14 (2) The water use projections shall be in the same five-year  
15 increments described in subdivision (a).
- 16 (3) (A) ~~For the 2015 urban water management plan update, the~~  
17 ~~distribution system water loss shall be quantified for the most~~  
18 ~~recent 12-month period available. For all subsequent updates, the~~  
19 *The potable* distribution system water loss shall be quantified for  
20 each of the five years preceding the plan update.
- 21 (B) The *potable* distribution system water loss quantification  
22 shall be reported in accordance with a worksheet approved or  
23 developed by the department through a public process. The water  
24 loss quantification worksheet shall be based on the water system  
25 balance methodology developed by the American Water Works  
26 Association.
- 27 (4) (A) If available and applicable to an urban water supplier,  
28 water use projections may display and account for the water savings  
29 estimated to result from adopted codes, standards, ordinances, or  
30 transportation and land use plans identified by the urban water  
31 supplier, as applicable to the service area.
- 32 (B) To the extent that an urban water supplier reports the  
33 information described in subparagraph (A), an urban water supplier  
34 shall do both of the following:
- 35 (i) Provide citations of the various codes, standards, ordinances,  
36 or transportation and land use plans utilized in making the  
37 projections.
  - 38 (ii) Indicate the extent that the water use projections consider  
39 savings from codes, standards, ordinances, or transportation and

1 land use plans. Water use projections that do not account for these  
2 water savings shall be noted of that fact.

3 (f) Provide a description of the supplier's water demand  
4 management measures. This description shall include all of the  
5 following:

6 (1) (A) For an urban retail water supplier, as defined in Section  
7 10608.12, a narrative description that addresses the nature and  
8 extent of each water demand management measure implemented  
9 over the past five years. The narrative shall describe the water  
10 demand management measures that the supplier plans to implement  
11 to achieve its water use targets pursuant to Section 10608.20.

12 (B) The narrative pursuant to this paragraph shall include  
13 descriptions of the following water demand management measures:

14 (i) Water waste prevention ordinances.

15 (ii) Metering.

16 (iii) Conservation pricing.

17 (iv) Public education and outreach.

18 (v) Programs to assess and manage *potable* distribution system  
19 real loss.

20 (vi) Water conservation program coordination and staffing  
21 support.

22 (vii) Other demand management measures that have a significant  
23 impact on water use as measured in gallons per capita per day,  
24 including innovative measures, if implemented.

25 (2) For an urban wholesale water supplier, as defined in Section  
26 10608.12, a narrative description of the items in clauses (ii), (iv),  
27 (vi), and (vii) of subparagraph (B) of paragraph (1), and a narrative  
28 description of its distribution system asset management and  
29 wholesale supplier assistance programs.

30 (g) Include a description of all water supply projects and water  
31 supply programs that may be undertaken by the urban water  
32 supplier to meet the total projected water use, as established  
33 pursuant to subdivision (a) of Section 10635. The urban water  
34 supplier shall include a detailed description of expected future  
35 projects and programs that the urban water supplier may implement  
36 to increase the amount of the water supply available to the urban  
37 water supplier in average, single-dry, and multiple-dry water years.  
38 The description shall identify specific projects and include a  
39 description of the increase in water supply that is expected to be  
40 available from each project. The description shall include an

1 estimate with regard to the implementation timeline for each project  
2 or program.

3 (h) Describe the opportunities for development of desalinated  
4 water, including, but not limited to, ocean water, brackish water,  
5 and groundwater, as a long-term supply.

6 ~~(i) For purposes of this part, urban water suppliers that are~~  
7 ~~members of the California Urban Water Conservation Council~~  
8 ~~shall be deemed in compliance with the requirements of subdivision~~  
9 ~~(f) by complying with all the provisions of the "Memorandum of~~  
10 ~~Understanding Regarding Urban Water Conservation in~~  
11 ~~California," dated December 10, 2008, as it may be amended, and~~  
12 ~~by submitting the annual reports required by Section 6.2 of that~~  
13 ~~memorandum.~~

14 (j)

15 (i) An urban water supplier that relies upon a wholesale agency  
16 for a source of water shall provide the wholesale agency with water  
17 use projections from that agency for that source of water in  
18 five-year increments to 20 years or as far as data is available. The  
19 wholesale agency shall provide information to the urban water  
20 supplier for inclusion in the urban water supplier's plan that  
21 identifies and quantifies, to the extent practicable, the existing and  
22 planned sources of water as required by subdivision (b), available  
23 from the wholesale agency to the urban water supplier over the  
24 same five-year increments, and during various water-year types  
25 in accordance with subdivision (c). An urban water supplier may  
26 rely upon water supply information provided by the wholesale  
27 agency in fulfilling the plan informational requirements of  
28 subdivisions (b) and (c).

29 *SEC. 5. Section 10631.7 of the Water Code is repealed.*

30 ~~10631.7. The department, in consultation with the California~~  
31 ~~Urban Water Conservation Council, shall convene an independent~~  
32 ~~technical panel to provide information and recommendations to~~  
33 ~~the department and the Legislature on new demand management~~  
34 ~~measures, technologies, and approaches. The panel shall consist~~  
35 ~~of no more than seven members, who shall be selected by the~~  
36 ~~department to reflect a balanced representation of experts. The~~  
37 ~~panel shall have at least one, but no more than two, representatives~~  
38 ~~from each of the following: retail water suppliers, environmental~~  
39 ~~organizations, the business community, wholesale water suppliers,~~  
40 ~~and academia. The panel shall be convened by January 1, 2009,~~

1 and shall report to the Legislature no later than January 1, 2010,  
2 and every five years thereafter. The department shall review the  
3 panel report and include in the final report to the Legislature the  
4 department's recommendations and comments regarding the panel  
5 process and the panel's recommendations.

6 *SEC. 6. Section 10632 of the Water Code is amended to read:*

7 10632. (a) The plan shall provide an urban water shortage  
8 contingency analysis that includes each of the following elements  
9 that are within the authority of the urban water supplier:

10 (1) Stages

11 (a) *Anticipated stages* of action to be undertaken by the urban  
12 water supplier in response to water supply shortages, including up  
13 to a 50 percent reduction in water supply, and an outline of specific  
14 water supply conditions that are applicable to *would trigger* each  
15 stage.

16 (2) ~~An estimate of the minimum water supply available during~~  
17 ~~each of the next three water years based on the driest three-year~~  
18 ~~historic sequence for the agency's water supply.~~

19 (b) *Communications strategies to inform customers, state*  
20 *agencies, elected officials, and others whenever water supply*  
21 *shortage conditions require the implementation of the stages of*  
22 *action described in subdivision (a).*

23 (3) Actions

24 (c) *Anticipated actions* to be undertaken by the urban water  
25 supplier to prepare for, and implement during, a catastrophic  
26 interruption of water supplies including, but not limited to, a  
27 regional power outage, an earthquake, or other disaster.

28 (4) ~~Additional, mandatory prohibitions against specific water~~  
29 ~~use practices during water shortages, including, but not limited to,~~  
30 ~~prohibiting the use of potable water for street cleaning.~~

31 (5) ~~Consumption reduction methods in the most restrictive~~  
32 ~~stages. Each urban water supplier may use any type of consumption~~  
33 ~~reduction methods in its water shortage contingency analysis that~~  
34 ~~would reduce water use, are appropriate for its area, and have the~~  
35 ~~ability to achieve a water use reduction consistent with up to a 50~~  
36 ~~percent reduction in water supply.~~

37 (6) ~~Penalties or charges for excessive use, where applicable.~~

38 (d) *Additional anticipated mandatory prohibitions against*  
39 *specific water use practices during water shortages.*



1 (e) Anticipated actions to balance water supply and demand  
 2 for each water supply shortage stage, including the use of  
 3 emergency supplies, demand reduction methods, reoperation, or  
 4 any combination of these actions. Each urban water supplier may  
 5 use any type of consumption reduction, reoperation approach, or  
 6 supply augmentation methods in its water shortage contingency  
 7 analysis that would balance supply and demand, are appropriate  
 8 for its area, and have the ability to successfully respond to each  
 9 water supply shortage stage. If an urban water supplier has  
 10 established an emergency supply, the supplier shall include in the  
 11 description of actions to be taken when the emergency supply will  
 12 be used to balance water supply and demand, and the quantity of  
 13 water from the emergency supply that is planned to be used. An  
 14 emergency supply designated for use during a water supply  
 15 shortage shall be fully available for use by the supplier during a  
 16 shortage and its use shall be at the sole discretion of the urban  
 17 water supplier.

18 (f) Anticipated processes for monitoring and ensuring  
 19 compliance by customers with mandatory prohibitions against  
 20 specific water use practices and mechanisms to enforce  
 21 compliance. The analysis shall include a description of the urban  
 22 water supplier's established method to identify and discourage  
 23 excessive water use as required by Sections 366 and 367.

24 ~~(7)~~  
 25 (g) An analysis of the impacts of each of the actions and  
 26 conditions described in paragraphs (1) to (6), subdivisions (a) to  
 27 (f), inclusive, on the revenues and expenditures of the urban water  
 28 supplier, and proposed measures to overcome those impacts, such  
 29 as the development of reserves and rate adjustments.

30 ~~(8) A draft water shortage contingency resolution or ordinance.~~

31 (h) A description of the water supplier's source of authority for  
 32 implementing the water shortage actions, as identified in  
 33 subdivision (e), including any adopted resolutions or ordinances.

34 ~~(9) A mechanism for determining actual reductions in water use  
 35 pursuant to the urban water shortage contingency analysis.~~

36 ~~(b) Commencing with the urban water management plan update  
 37 due July 1, 2016, for purposes of developing the water shortage  
 38 contingency analysis pursuant to subdivision (a), the urban water  
 39 supplier shall analyze and define water features that are artificially  
 40 supplied with water, including ponds, lakes, waterfalls, and~~

1 ~~fountains, separately from swimming pools and spas, as defined~~  
2 ~~in subdivision (a) of Section 115921 of the Health and Safety Code.~~

3 *SEC. 7. Section 10635 of the Water Code is amended to read:*

4 10635. (a) Every urban water supplier shall include, as part  
5 of its urban water management plan, an assessment of the reliability  
6 of its water service to its customers during normal, dry, and  
7 multiple dry water years. This water supply and demand assessment  
8 shall compare the total water supply sources available to the water  
9 supplier with the total projected water use over the next 20 years,  
10 in five-year increments, for a normal water year, a single dry water  
11 year, ~~and multiple dry water years.~~ *and, in accordance with*  
12 *subparagraph (C) of paragraph (1) of subdivision (c) of Section*  
13 *10631, five consecutive dry years or a shorter multiple-year dry*  
14 *period.* The water service reliability assessment shall be based  
15 upon the information compiled pursuant to Section 10631,  
16 including available data from state, regional, or local agency  
17 population projections within the service area of the urban water  
18 supplier.

19 (b) The urban water supplier shall provide that portion of its  
20 urban water management plan prepared pursuant to this article to  
21 any city or county within which it provides water supplies no later  
22 than 60 days after the submission of its urban water management  
23 plan.

24 (c) Nothing in this article is intended to create a right or  
25 entitlement to water service or any specific level of water service.

26 (d) Nothing in this article is intended to change existing law  
27 concerning an urban water supplier's obligation to provide water  
28 service to its existing customers or to any potential future  
29 customers.

30 *SEC. 8. Section 10658 is added to the Water Code, to read:*

31 10658. (a) *It is the intent of the Legislature in enacting this*  
32 *section to do all of the following:*

33 (1) *Encourage continued investment in water supply reliability*  
34 *and diversification.*

35 (2) *Incentivize new and protect existing local investments made*  
36 *by urban water suppliers in drought resiliency and drought*  
37 *resilient supplies in order to better prepare local communities and*  
38 *the state for drought and times of shortage.*

39 (3) *Incentivize new and protect existing local investments in*  
40 *water recycling and potable reuse.*

1 (4) Encourage local agencies to develop emergency supplies,  
2 including storage of flood flows in water banks throughout the  
3 state, to better protect California from the effects of drought.

4 (5) Encourage local agencies to take steps to prepare for the  
5 effects of climate change.

6 (6) Ensure that urban water suppliers have adequate supplies  
7 or take appropriate measures to reduce demand during times of  
8 drought.

9 (b) During a statewide drought, local drought, or water  
10 shortage, an urban water supplier shall not be required to reduce  
11 its use or reliance on any water supply available for its use and  
12 identified in its urban water management plan, or be required to  
13 take additional actions beyond those specified in its water shortage  
14 contingency analysis for the level of shortage that is anticipated  
15 in the annual report required by Section 10609 or the level of  
16 shortage that it is currently experiencing, whichever is greater.

17 SECTION 1. ~~Section 10608 of the Water Code is amended to~~  
18 ~~read:~~

19 ~~10608. The Legislature finds and declares all of the following:~~

20 ~~(a) Water is a public resource that the California Constitution~~  
21 ~~protects against waste and unreasonable use.~~

22 ~~(b) A growing population, climate change, and the need to~~  
23 ~~protect and grow California's economy while protecting and~~  
24 ~~restoring our fish and wildlife habitats make it essential that the~~  
25 ~~state manage its water resources as efficiently as possible.~~

26 ~~(c) Diverse regional water supply portfolios will increase water~~  
27 ~~supply reliability and reduce dependence on the Delta.~~

28 ~~(d) Reduced water use through conservation provides significant~~  
29 ~~energy and environmental benefits, and can help protect water~~  
30 ~~quality, improve streamflows, and reduce greenhouse gas~~  
31 ~~emissions.~~

32 ~~(e) The success of state and local water conservation programs~~  
33 ~~to increase efficiency of water use is best determined on the basis~~  
34 ~~of measurable outcomes related to water use or efficiency.~~

35 ~~(f) Improvements in technology and management practices offer~~  
36 ~~the potential for increasing water efficiency in California over~~  
37 ~~time, providing an essential water management tool to meet the~~  
38 ~~need for water for urban, agricultural, and environmental uses.~~

39 ~~(g) The Governor has called for a 20 percent per capita reduction~~  
40 ~~in urban water use statewide by 2020.~~

- 1 ~~(h) The factors used to formulate water use efficiency targets~~  
2 ~~can vary significantly from location to location based on factors~~  
3 ~~including weather, patterns of urban and suburban development,~~  
4 ~~and past efforts to enhance water use efficiency.~~
- 5 ~~(i) Per capita water use is a valid measure of a water provider's~~  
6 ~~efforts to reduce urban water use within its service area. However,~~  
7 ~~per capita water use is less useful for measuring relative water use~~  
8 ~~efficiency between different water providers. Differences in~~  
9 ~~weather, historical patterns of urban and suburban development,~~  
10 ~~and density of housing in a particular location need to be~~  
11 ~~considered when assessing per capita water use as a measure of~~  
12 ~~efficiency.~~

AMENDED IN ASSEMBLY MARCH 28, 2017

CALIFORNIA LEGISLATURE—2017–18 REGULAR SESSION

**ASSEMBLY BILL**

**No. 968**

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**Introduced by Assembly Member Rubio**

February 16, 2017

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An act to amend Section ~~10610~~ of 10608 of, and to add and repeal Section 10608.45 of, the Water Code, relating to water.

LEGISLATIVE COUNSEL'S DIGEST

AB 968, as amended, Rubio. ~~Urban water management planning-~~  
~~retail water use: water efficiency targets.~~

*Existing law requires the state to achieve a 20% reduction in urban per capita water use on or before December 31, 2020, and to make incremental progress toward that state target by reducing urban per capita water use by at least 10% on or before December 31, 2015.*

*This bill would require the Department of Water Resources to submit to the Legislature by December 31, 2018, a report that states preliminary water efficiency targets for 2025 for each of the state's hydrologic regions with per capita daily water use targets based on and considering specified factors. The bill would require the department to consult with a representative task force with members designated by the department by July 1, 2018.*

~~Existing law, the Urban Water Management Planning Act, requires every public and private urban water supplier that directly or indirectly provides water for municipal purposes to prepare and adopt an urban water management plan and to update its plan once every 5 years on or before December 31 in years ending in 5 and zero, except as specified.~~

~~This bill would make nonsubstantive changes in these provisions.~~



Vote: majority. Appropriation: no. Fiscal committee: ~~no~~-yes.  
 State-mandated local program: no.

*The people of the State of California do enact as follows:*

1     SECTION 1. Section 10608 of the Water Code is amended to  
 2     read:

3     10608. The Legislature finds and declares all of the following:  
 4     (a) Water is a public resource that the California Constitution  
 5     protects against waste and unreasonable use.

6     (b) Growing population, climate change, and the need to protect  
 7     and grow California’s economy while protecting and restoring our  
 8     fish and wildlife habitats make it essential that the state manage  
 9     its water resources as efficiently as possible.

10    (c) Diverse regional water supply portfolios will increase water  
 11    supply reliability and reduce dependence on the Delta.

12    (d) Reduced water use through *long-term water use efficiency*  
 13    and conservation provides significant energy and environmental  
 14    benefits, and can help protect water quality, improve streamflows,  
 15    and reduce greenhouse gas emissions.

16    (e) The success of state and local water-~~conservation~~ *use*  
 17    *efficiency* programs to increase efficiency of water use is best  
 18    determined on the basis of measurable outcomes related to water  
 19    use or efficiency.

20    (f) *Strengthening local and regional drought resilience is*  
 21    *essential to increasing water supply reliability and the sustainable*  
 22    *management of the state’s water resources.*

23    ~~(f)~~

24    (g) Improvements in ~~technology~~ *technology, infrastructure,* and  
 25    management practices offer the potential for increasing water  
 26    efficiency in California over time, providing an essential water  
 27    management tool to meet the need for water for urban, agricultural,  
 28    and environmental uses.

29    ~~(g)~~

30    (h) The Governor has called for a 20 percent per capita reduction  
 31    in ~~urban water use statewide by 2020.~~ *implementation of the*  
 32    *comprehensive California Water Action Plan.*

33    ~~(h)~~

34    (i) The factors used to formulate *long-term* water use efficiency  
 35    targets can vary significantly from location to location based on

1 factors including weather, patterns of urban and suburban  
2 development, *water supplies*, and past efforts to enhance water  
3 use efficiency. *Therefore, it is necessary to implement water use*  
4 *efficiency measures at the regional and local level to reflect and*  
5 *best meet the water supply needs of each community and achieve*  
6 *effective water shortage contingency planning and management.*

7 (†)

8 (j) Per capita water use is ~~a valid~~ *one* measure of a water  
9 provider's efforts to reduce urban water use within its service area.  
10 However, per capita water use is less useful for measuring relative  
11 water use efficiency between different water providers. Differences  
12 in weather, historical patterns of urban and suburban development,  
13 and density of housing in a particular location need to be  
14 considered when assessing per capita water use as a measure of  
15 efficiency.

16 *SEC. 2. Section 10608.45 is added to the Water Code, to read:*

17 *10608.45. (a) By December 31, 2018, the department shall*  
18 *submit to the Legislature a report that states preliminary water*  
19 *efficiency targets for 2025 for each of the state's hydrologic*  
20 *regions. The report shall include per capita daily water use targets*  
21 *based on, and the department shall explain in the report how it*  
22 *considered, factors that include, but are not limited to, all of the*  
23 *following:*

24 (1) *A uniform statewide standard for per capita indoor water*  
25 *use, based on current conditions affecting indoor water use.*

26 (2) *Outdoor water use standards that reflect the variable*  
27 *climates, land use densities, and age of building stock within urban*  
28 *retail water suppliers' service areas in each hydrologic region.*

29 (3) *The amount of reductions in water use in each hydrologic*  
30 *region that can be expected as a result of a normal rate of*  
31 *improvement in plumbing facilities and the development of new*  
32 *residential, commercial, and other structures that reflect*  
33 *state-of-the-art water efficiency methods and facilities.*

34 (4) *The regional target determination methodology used in the*  
35 *state's 20x2020 Water Conservation Plan (dated February 2010).*

36 (b) *In developing the report pursuant to subdivision (a), the*  
37 *department shall consult with a representative task force consisting*  
38 *of academic experts, urban retail water suppliers representing*  
39 *each of the state's hydrologic regions, economic development*  
40 *interests, business community representatives, environmental*

1 *organizations, commercial water users, industrial water users,*  
2 *and institutional water users. The department shall designate the*  
3 *task force's members by July 1, 2018.*

4 *(c) (1) A report to be submitted pursuant to subdivision (a)*  
5 *shall be submitted in compliance with Section 9795 of the*  
6 *Government Code.*

7 *(2) Pursuant to Section 10231.5 of the Government Code, this*  
8 *section is repealed on January 1, 2023.*

9 ~~SECTION 1. Section 10610 of the Water Code is amended to~~  
10 ~~read:~~

11 ~~10610. This part shall be known and may be cited as the Urban~~  
12 ~~Water Management Planning Act.~~

AMENDED IN ASSEMBLY MARCH 23, 2017

CALIFORNIA LEGISLATURE—2017–18 REGULAR SESSION

**ASSEMBLY BILL**

**No. 975**

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**Introduced by Assembly Member Friedman**  
(Coauthor: Senator Allen)

February 16, 2017

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An act to amend Sections 5093.50 and 5093.52 of the Public Resources Code, relating to wild and scenic rivers.

LEGISLATIVE COUNSEL'S DIGEST

AB 975, as amended, Friedman. Natural resources: wild and scenic rivers.

Existing law establishes that it is the policy of the state that certain rivers that possess extraordinary scenic, recreational, fishery, or wildlife values shall be preserved in their free-flowing state, together with their immediate environments, for the benefit and enjoyment of the people of the state.

This bill would revise that policy to specify that certain rivers that possess scenic, recreational, fishery, wildlife, historical, cultural, geological, ecological, hydrological, botanical, or other *similar* values shall be preserved in their free-flowing state, together with their immediate environments, for the benefit and enjoyment of the people of the state, and would revise the definition of "immediate environments," and define the term "extraordinary value" for purposes of that policy.

Vote: majority. Appropriation: no. Fiscal committee: yes.  
State-mandated local program: no.

*The people of the State of California do enact as follows:*

1 SECTION 1. Section 5093.50 of the Public Resources Code  
2 is amended to read:

3 5093.50. It is the policy of the State of California that certain  
4 rivers that possess extraordinary scenic, recreational, fishery,  
5 wildlife, historical, cultural, geological, ecological, hydrological,  
6 botanical, or other *similar* values shall be preserved in their  
7 free-flowing state, together with their immediate environments,  
8 for the benefit and enjoyment of the people of the state. The  
9 Legislature declares that such use of these rivers is the highest and  
10 most beneficial use and is a reasonable and beneficial use of water  
11 within the meaning of Section 2 of Article X of the California  
12 Constitution. It is the purpose of this chapter to create a California  
13 Wild and Scenic Rivers System to be administered in accordance  
14 with the provisions of this chapter.

15 SEC. 2. Section 5093.52 of the Public Resources Code is  
16 amended to read:

17 5093.52. As used in this chapter, the following terms have the  
18 following meaning:

19 (a) "Secretary" means the Secretary of the Natural Resources  
20 Agency.

21 (b) "Resources Agency" means the Natural Resources Agency  
22 and any constituent units of the Natural Resources Agency that  
23 the secretary determines to be necessary to accomplish the purposes  
24 of this chapter.

25 (c) "River" means the water, bed, and shoreline of rivers,  
26 streams, channels, lakes, bays, estuaries, marshes, wetlands, and  
27 lagoons, up to the first line of permanently established riparian  
28 vegetation.

29 (d) "Free-flowing" means existing or flowing without artificial  
30 impoundment, diversion, or other modification of the river. The  
31 presence of low dams, diversion works, and other minor structures  
32 does not automatically bar a river's inclusion within the system.  
33 However, this subdivision does not authorize or encourage future  
34 construction of those structures on any component of the system.

35 (e) "System" means the California Wild and Scenic Rivers  
36 System.

37 (f) "Land use regulation" means the regulation by any state or  
38 local governmental entity, agency, or official of any activities that



1 take place other than directly on the waters of the segments of the  
2 rivers designated in Section 5093.54.

3 (g) “Director” means the Director of Fish and Wildlife.

4 (h) “Immediate environments” means the corridor of land within  
5 one-quarter mile of the segments of the rivers designated in Section  
6 5093.54.

7 (i) “Special treatment areas” means, for purposes of this chapter,  
8 those areas defined as special treatment areas in Section 895.1 of  
9 Title 14 of the California Code of Regulations, as in effect on  
10 January 1, 2004, as that definition applies to wild and scenic river  
11 segments designated from time to time in Section 5093.54, and  
12 also includes areas within 200 feet of the watercourse transition  
13 line of a state-designated recreational river segment designated in  
14 Section 5093.54 that may be at risk during timber operations.

15 (j) “Board” means the State Board of Forestry and Fire  
16 Protection.

17 (k) “Extraordinary value” means a natural, cultural, or similar  
18 value that is outstanding or remarkable in a local, regional, or  
19 statewide context.

**DATE:** April 12, 2017  
**TO:** Board of Directors  
**FROM:** Dave Eggerton, General Manager  
**SUBJECT:** General Manager's Report

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**Visit by ACWA President Kathy Tiegs:**

At the request of Director Underhill, staff reached out to ACWA Board President Kathy Tiegs and ACWA staff inviting President Tiegs to visit the District in the near future. One of her priorities as President of ACWA has been to visit each and every member agency across the state. With the assistance of ACWA Region 3 liaison Melissa Sparks, we have scheduled a roundtable discussion on May 22 at 1:00 p.m. here at CCWD for President Tiegs to meet with staff and Board members of our agency as well as neighboring member agencies Amador Water Agency and Tuolumne Utilities District. We look forward to sharing an overview of our agency as well as information on our local and regional water management opportunities and challenges.

**Additional Grant Funding for Big Trees Tank Replacement Project:**

We recently learned that the California Emergency Management Agency (Cal-EMA) will provide the District with additional grants funds for completion of the Big Trees Tank Replacement Project. As the Board was recently informed, the final budget for this project increased by \$318,197 (from an original budget of \$1,160,000 to a final budget of \$1,478,197). This was largely due to additional costs associated with engineering fees and market increases in construction costs since submitting our original budget. Funded through the Cal-EMA / Cal-OES Hazard Mitigation Grant Program, 75% of the original project budget (\$870,000) was to be paid with federal grant funds. Yet with the assistance of Cal-EMA Hazard Mitigation Branch Senior Emergency Services Coordinator Joe Petersen, we will now receive 75% of the final project budget (\$1,108,648) from federal funds or \$238,648 more than originally projected. We are incredibly appreciative of Mr. Petersen's assistance in making this happen. It means that substantially more Rehabilitation and Replacement (R&R) program revenue of the District will now be available to advance other vitally important projects identified in the recently adopted Capital Improvement Plan (CIP).

**Increased Penalties for Enforcement Actions by State and Regional Water Boards**

The State Water Resources Control Board recently approved changes to its policy

governing enforcement actions by the State and Regional Boards, which greatly expands the potential liability for discretionary penalties associated with violations of the Clean Water Act, California Water Code, and permits and regulations issued and adopted thereunder. As an agency that holds 12 wastewater and 6 drinking water permits administered by the State and Regional Boards as well as being under many other regulatory requirements of these agencies, the District, like many other agencies across the state, faces substantially greater liability for violations. In fact the penalty for high volume illegal discharges imposed by the State may now be assessed anywhere from \$2 to \$10 per gallon in the discretion of staff, whereas the policy previously recommended a penalty of \$2 per gallon. This will be extremely important factor to consider in evaluating the priority of District capital projects and ongoing investments in operations and maintenance.