CALAVERAS PUBLIC UTILITY DISTRICT
506 W. St. Charles, Street San Andreas, CA 95249

BOARD OF DIRECTORS REGULAR MEETING: 3:00 PM
February 8, 2022

President J.W. Dell 'Orto
President of the Board

Director Richard Blood
Director Jack Tressler

Director Brady McCartney

Calaveras Public Utility District hereby provides notice that it will convene its regularly scheduled public meetings of the Board of Directors at the District Office. No attendance will be permitted by the public at the District office until further notice.

- **Join the Conference Call meeting**
- **Dial-in number (US): 1(669)900-9128**
- **Join the online ZOOM meeting:** https://us02web.zoom.us/j/81514083058?pwd=UWdBT0FOMHlQRlBzQUNtZnZVcHdEUT09
- **Meeting ID: 815 1408 3058**
- **Meeting Passcode code: 075725**

Please mute your call before joining. This will limit technical difficulties with audio. Only unmute your call if the President has requested public comment on an item. Upon completing your comments, please mute your call again. Do not put the call on hold, as hold music can ruin the call for all other participants. If that occurs, or in the event of disruptive conduct, staff reserves the right to disconnect that caller. Do no talk over the top of any other callers. Conversations must be one at a time.

AGENDA

1. **CALL THE MEETING TO ORDER**
2. **ROLL CALL OF DIRECTORS**
   a. President J.W. Dell 'Orto
   b. Director Richard Blood
   c. Director Brady McCartney
   d. Director Jack Tressler

3. **PLEDGE OF ALLEGIANCE**

4. **PUBLIC COMMENT (Limit: 3 min/person)**
   At this time, members of the public may address the Board on any matter within its jurisdiction which is not on the agenda. The public is encouraged to work with 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 3 minutes per person.

5. **RESOLUTION NO. 2022-5: A RESOLUTION OF THE BOARD OF DIRECTORS OF THE CALAVERAS PUBLIC UTILITY DISTRICT PROCLAIMING A LOCAL EMERGENCY PERSISTS, RE-RATIFYING THE PROCLAMATION OF A STATE OF EMERGENCY BY THE GOVERNOR ON MARCH 4, 2020, AND RE-AUTHORIZING REMOTE TELECONFERENCE MEETINGS OF THE BOARD OF DIRECTORS OF THE CALAVERAS PUBLIC UTILITY DISTRICT FOR THE PERIOD FEBRUARY 8, 2022 TO MARCH 8, 2022 PURSUANT TO BROWN ACT PROVISIONS.**

Action Requested: Roll Call Vote
Approval of Resolution No. 2022-5 Declaring and Re-ratifying the State of Emergency and Authorizing Remote Teleconference Meetings of the Board of Directors Due to the Covid-19 Emergency.

6. **CONSENT ITEMS**
Consent items should be considered together as one motion. Any item(s) requested to be removed will be considered after the motion to approve the Consent Items.

a. Minutes of Regular Board meeting of January 11, 2022
b. Minutes of Special Board meeting of January 25, 2022
c. Claim Summary

Action: Roll call Vote
Consider motion to approve consent items for items a-b.

ITEMS FOR BOARD DISCUSSION AND/OR ACTION

Board action may occur on any identified agenda item. Any member of the public may directly address the Board on any identified agenda item of interest, either before or during the Board's consideration of that item.

7. **CALAVERAS PUBLIC UTILITY DISTRICT WATER RIGHTS COMPLIANCE AND HYDROPOWER GENERATING EVALUATION**

Action Requested: No Action
Overview of the Water Rights Compliance and Hydropower Generating Evaluation presented by Jeffrey Meyer with Western Hydrologics.

8. **PRESIDENT'S SPECIAL RECOGNITION AWARD**

Action Requested: No Action

ACWA/JPIA recognizes Calaveras Public Utility District with President's Special Recognition Awards for the Worker's Compensation Program and the Liability Program.

9. **CONSIDERATION TO MOVE APRIL BOARD MEETING**

Action Requested: Roll Call Vote

a. Approve moving April 12, 2022 Board Meeting to April 19, 2022 Board Meeting.

10. **REPORTS**

The purpose of these reports is to provide information on projects, programs, staff actions, and committee meetings that are of general interest to the Board and public. No decisions are to be made on these issues.

a. Legal Counsel's Report
b. Water System Superintendent's Report
c. District Engineer Report/Clearwell Project Update
d. General Manager's Report
e. Director's Comments: Directors may make brief announcements or brief reports on their own activities. They may ask questions for clarification, make a referral to staff or take action to have staff place a matter of business on a future agenda.

11. **ADJOURNMENT**

If there is no other Board business the President will adjourn to its next regular meeting scheduled for March 8, 2022, at 3:00 p.m.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Office at (209) 754-9442. Notification in advance of the meeting will enable CPUD 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 CPUD for review by the public.

RESOLUTION NO. 2022-5

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE CALAVERAS PUBLIC UTILITY DISTRICT PROCLAIMING A LOCAL EMERGENCY PERSISTS, RERATIFYING THE PROCLAMATION OF A STATE OF EMERGENCY BY THE GOVERNOR ON MARCH 4, 2020, AND RE-AUTHORIZING REMOTE TELECONFERENCE MEETINGS OF THE BOARD OF DIRECTORS OF THE CALAVERAS PUBLIC UTILITY DISTRICT FOR THE PERIOD FEBRUARY 8, 2022 TO MARCH 8, 2022 PURSUANT TO BROWN ACT PROVISIONS.

WHEREAS, the Calaveras Public Utility District (the "District") is committed to preserving and nurturing public access and participation in meetings of the Board of Directors; and

WHEREAS, all meetings of the District's Board of Directors are open and public, as required by the Ralph M. Brown Act (Cal. Gov. Code 54950 – 54963), so that any member of the public may attend, participate, and watch the District's Board of Directors conduct their business; and

WHEREAS, the Brown Act, Government Code section 54953(e), makes provision for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions; and

WHEREAS, a required condition is that a state of emergency is declared by the Governor pursuant to Government Code section 8625, proclaiming the existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by conditions as described in Government Code section 8558; and

WHEREAS, a proclamation is made when there is an actual incident, threat of disaster, or extreme peril to the safety of persons and property within the jurisdictions that are within the District's boundaries, caused by natural, technological or human-caused disasters; and

WHEREAS, it is further required that state or local officials have imposed or recommended measures to promote social distancing, or, the legislative body meeting in person would present imminent risks to the health and safety of attendees; and

WHEREAS, the Board of Directors previously adopted a Resolution, Number 2021-10 on September 27, 2021, finding that the requisite conditions exist for the District's Board of Directors to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, as a condition of extending the use of the provisions found in section 54953(e), the Board of Directors must reconsider the circumstances of the state of emergency that exists in the District, and the Board of Directors has done so; and

WHEREAS, emergency conditions persist in the District, specifically, the State of Emergency

declared by the Governor on March 4, 2020 due to the Covid-19 pandemic; and

WHEREAS, guidance from the State of California, which has been followed by the Calaveras County Department of Public Health, recommends or mandates social distancing and face coverings in certain settings to prevent the spread of Covid-19; and

WHEREAS, the Board of Directors does hereby find that that the rise in SARS-CoV-2 Delta Variant during the Covid-19 pandemic has caused, and will continue to cause, conditions dangerous to the safety of persons within the District that are likely to be beyond the control of services, personnel, equipment, and facilities of the District, and desires to affirm a local emergency exists and re-ratify the proclamation of state of emergency by the Governor of the State of California; and

WHEREAS, as a consequence of the local emergency persisting, the Board of Directors does hereby find that the Board of Directors of the District shall continue to conduct its meetings without compliance with paragraph (3) of subdivision (b) of Government Code section 54953, as authorized by subdivision (e) of section 54953, and that such legislative bodies shall continue to comply with the requirements to provide the public with access to the meetings as prescribed in paragraph (2) of subdivision (e) of section 54953; and

WHEREAS, the District has implemented virtual meeting protocols which comply with the requirements of paragraph (2) of subdivision (e) of section 54953, by providing for public participation through online meeting attendance and the opportunity to provide comment during the Board meeting both verbally or via email.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE CALAVERAS PUBLIC UTILITY DISTRICT DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals. The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

Section 2. Affirmation that Local Emergency Persists. The Board of Directors hereby considers the conditions of the state of emergency in the District and proclaims that a local emergency persists throughout the District, and Covid-19 has caused, and will continue to cause, an unreasonable risk of harm to the safety of persons within the District that are likely to be beyond the control of the services, personnel, equipment and facilities of the District.

Section 3. Re-ratification of Governor's Proclamation of a State of Emergency. The Board hereby ratifies the Governor of the State of California's Proclamation of State of Emergency, effective as of its issuance date of March 4, 2021.

Section 4. Remote Teleconference Meetings. The General Manager and Board of Directors are hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this Resolution including, continuing to conduct open and public meetings in accordance with Government Code section 54953(e) and other applicable provisions of the Brown Act.

Section 5. Effective Date of Resolution. This Resolution shall take effect immediately

upon its adoption and shall be effective until the earlier of (i) March 8, 2022, or such time as the Board of Directors adopts a subsequent resolution in accordance with Government Code section 54953(e)(3) to extend the time during which the Board of Directors of the District may continue to teleconference without compliance with paragraph (3) of subdivision (b) of section 54953.

PASSED AND ADOPTED by the Board of Directors of the Calaveras Public Utility District this 8th day of February 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Signed: _____
J.W. Dell'Orto, President of the Board of Directors

Attest: _____
Carissa Bear, Secretary/Clerk of the Board

CALAVERAS PUBLIC UTILITY DISTRICT January 11, 2022

Regular Meeting 3:00 pm

DIRECTORS PRESENT: J.W. Dell'Orto
Richard Blood
Brady McCartney
Jack Tressler

MEMBERS ABSENT: None

STAFF PRESENT: Travis Small, General Manager
Adam Brown, District Legal Counsel
Carissa Bear, Clerk of the Board
Mathew Roberts, Water System Superintendent
Dani Bell, Customer Service Representative

OTHERS PRESENT: Craig Collins, Collins Accountancy Company

1. CALL THE MEETING TO ORDER: The regular meeting was called to order by President Dell'Orto at 3:03 P.M.

2. ROLL CALL OF DIRECTORS: Directors Dell'Orto, Blood and Tressler were present. Director McCartney was absent.

3. PLEDGE OF ALLEGIANCE

4. PUBLIC COMMENT (Limit 3 minutes per person/15 minutes per subject): None

5. STAFF INTRODUCTION

General Manager, Travis Small introduced new District employee Dani Bell. Dani started at Calaveras Public Utility District on January 3, 2022. Everyone welcomed her to the team.

6. CONSENT ITEMS
    a) Minutes of Regular Board Meeting of December 14, 2021
    b) Claim Summary

President Dell'Orto asked for clarification on the Expenses by Vendor Detail regarding Director's mileage. Carissa Bear, Clerk of the Board, explained that to the category was applied to the wrong general ledger account and that she would make the correction. President Dell'Orto inquired about a vendor not being on the list. Mrs. Bear clarified that the vendor was not paid in December and that the payment would appear on the January list. A motion was made by Director McCartney, seconded by Director Tressler, to approve Consent Items a-b. A roll call vote was taken. Directors Dell'Orto, Blood, McCartney and Tressler voted yes; none opposed. Motion carried 4-0.

7. RESOLUTION NO. 2022-1: A RESOLUTION OF THE BOARD OF DIRECTORS OF THE CALAVERAS PUBLIC UTILITY DISTRICT PROCLAIMING A LOCAL EMERGENCY PERSISTS, RE-RATIFYING THE PROCLAMATION OF A STATE OF EMERGENCY BY THE GOVERNOR ON MARCH 4, 2020, AND RE-AUTHORIZING REMOTE TELECONFERENCE MEETINGS OF THE BOARD OF DIRECTORS OF THE CALAVERAS PUBLIC UTILITY DISTRICT FOR THE PERIOD JANUARY 11, 2022 TO FEBRUARY 11,2022 PURSUANT TO BROWN ACT PROVISIONS.

Adam Brown, District Legal Counsel, reminded the Board that the resolution was required to continue remote Board meetings. A motion was made by Director Blood, seconded by Director Tressler, to approve Resolution No. 2022-1. A roll call vote was taken. Directors Dell'Orto, Blood, McCartney and Tressler voted yes; non opposed. Motion carried 4-0

8. BUDGET

Travis Small, General Manager, gave an overview of the budget proposal. Director Blood asked for clarification regarding billing software. Mr. Small explained that the software he is considering will help integrate meter reading with the new billing software. The updated meter reading software will provide a strong foundation with room for growth in the future. The staff will be looking at all major meter companies and will make a decision as a group. Director Blood asked a question regarding the separate Wells Fargo Bank account for the Clearwell Tank Project. Mr. Small clarified. President Dell'Orto complimented Mr. Small for including the rate comparison from neighboring Districts to show how the District's customer billing rates compared. Director Blood inquired about hiring of new staff. Mr. Small explained that he has put the current hiring proposal on hold and hopes to bring a new entry level position to the Board next month. Mr. Small asked for the Board's input on how they would like him to move forward with the vehicle and equipment purchasing. The Board collectively agreed that they would like Mr. Small to bring quotes back to the Board to decide together. The Board complimented Mr. Small on the budget he prepared and thanked Craig Collins with Collins Accountancy Company for his assistance. A motion was made by Director Tressler, seconded by Director Blood, to approve Resolution 2022-2 Budget for Fiscal Year 2021/22. A roll call vote was taken. Directors Dell'Orto, Blood, McCartney and Tressler voted yes; non opposed. Motion carried 4-0.

9. REPORTS

a. Legal Counsel's Report:

No report.

b. Board Vacancy Update:

Mr. Small informed the Board that the District had received no applications for the vacant Board seat. He asked District Legal Counsel Adam Brown to explain the procedures for appointing a new Director at this stage. Mr. Brown explained to the Board that if an applicant comes forward that the appointment would have to be made by the Calaveras County Board of Supervisors.

c. Water System Superintendent's Report:

Mathew Roberts, Water System Superintendent, went over the Monthly Maintenance Report. He updated the Board on the rain totals. Director Blood expressed his concern with the amount of water being used by the Schaads customer during winter months. Mr. Roberts discussed some of the leaks the crew repaired during December. Mr. Roberts reported that the crew reviewed 242 USAs. This is a large number especially for a small crew. At the time of the Board meeting the water rights were not curtailed.

d. District Engineer Report/Clearwell Project Update

Mr. Small gave an update on the Clearwell Tank Project on behalf of WGA. The project is currently delayed due to weather. The District Engineer's office has been in contact with the contractors. The possibility of a change order has been discussed. If a change order is needed, Mr. Small will bring it back to the Board for consideration at a future meeting. WGA has completed the Emergency Response Plan and staff has certified the report on the EPA's self-service portal.

e. General Manager's Report:

Mr. Small went over his report. He touched on COVID-19 Response Plan updates. The staff had some concerns with the existing plan. He is working on updating the plan to meet current OSHA standards and the Calaveras County Public Health requirements.

f. Director's Comments:

Director Blood reported on the Upper Mokelumne Rover Watershed Authority (UMWRA) MAC Plan meeting that he and Mr. Small attended. Calaveras Public Utility District has the chance of receiving a $500,000 grant for the backwash recycle project. At this time, the Calaveras Public Utility District is the only applicant. Director McCartney thanked Director Blood for his involvement. President Dell'Orto reported that he was happy with the Ad Hoc Finance Committee meeting. Mr. Small reminded Director Tressler that he replaced Director Speer for CPPA. Director Tressler and Mr. Small will attend the meeting together next week.

10. ADJOURMENT

There being no further business to come before the Board, President Dell'Orto adjourned the meeting at 4:24pm.

Respectfully Submitted,

Carissa Bear, Clerk of the Board

CALAVERAS PUBLIC UTILITY DISTRICT January 25, 2022

Special Meeting 1:00 pm

DIRECTORS PRESENT: J.W. Dell'Orto
Richard Blood
Jack Tressler
Brady McCartney*

MEMBERS ABSENT:

STAFF PRESENT: Travis Small, General Manager
Adam Brown, District Legal Counsel
Carissa Bear, Clerk of the Board
Mathew Roberts, Water System Superintendent

OTHERS PRESENT: None

1. CALL THE MEETING TO ORDER: The regular meeting was called to order by President Dell'Orto at 1:05 P.M.

2. ROLL CALL OF DIRECTORS: Directors Dell'Orto, Blood, and Tressler were present. Director McCartney was absent.

3. PLEDGE OF ALLEGIANCE

4. PUBLIC COMMENT (Limit 3 minutes per person/15 minutes per subject): None

5. RESOLUTION 2022-3: VEHICLE & EQUIPMENT PURCHASE

*Director McCartney entered the meeting at 1:24 pm.
Travis Small, General Manager reviewed the quotes that he solicited for a new truck as well as a new hydrovac trailer. President Dell'Orto was pleased that the amounts quoted were lower than the budgeted amounts. Director Tressler inquired as to why there were no quotes for used vehicles and equipment, Mr. Small explained. Director Blood asked for clarification on some of the features for the hydrovac trailer, Mr. Small clarified. Director Blood asked if safety training will be done for the new equipment. Mr. Small informed the Board that there will be safety training as well the requirement of P.P.E. Mr. Tressler expressed his dissatisfaction with the quotes that were provided and informed the Board and Mr. Small that he would like to see more quotes presented. He believes that the District could save more money if they took their time. Mr. Small reminded the Board that the quotes are all well within the budget that was already approved at the last Board meeting. Director Blood agreed with Mr. Small's statement and also expressed his concern with the life expectancy of used equipment. Director McCartney would like to see the crew getting equipment that will last and that will make their job more efficient. A motion was made by Director Blood, seconded by Director McCartney, to approve Resolution 2022-3 Authorizing the General Manager to Purchase a Light Duty Dump Truck and Hydrovac Trailer. Director Tressler asked that Mr. Small negotiate the installation of a light bar and some flashers. Mr. Small responded that he would see

what he could do. A roll call vote was taken. Directors Dell'Orto, Blood and McCartney, voted yes; Director Tressler voted no. Motion carried 3-1.

6. RESOLUTION 2022-4: COVID-19 RESPONSE PLAN

Mr. Small explained that under Cal/OSHA's regulations, employee pay, and benefits cannot be docked due to COVID. Mr. Small has looked at other agencies' practices and has determined that this is becoming more common. This is a voluntary fund, and it is budget-neutral. This will give the District a way to track the sick time used for COVID in the case that more COVID related funding comes available. This will also help keep the District's workman's' comp numbers down due to not having to file workman's comp claims for workplace exposures. Adam Brown, District Legal Counsel, explained that if an employee is exposed or has tested positive, the burden will be placed on the employer to determine whether the source was in the workplace or from an unrelated cause. He has reviewed the policy and made the appropriate changes. Director McCartney stated that other local districts have already implemented it. President Dell'Orto thinks it's great to get ahead of this issue. A motion was made by Director Blood, seconded by Director Tressler, to approve Resolution 2022-4: Extended Public Health Emergency Paid Sick Leave (EPSL) Policy. A roll call vote was taken. Directors Dell'Orto, Blood, McCartney and Tressler voted yes; none opposed. Motion carried 4-0.

7. ADJOURMENT

There being no further business to come before the Board, President Dell'Orto adjourned the meeting at 2:05pm.

Respectfully Submitted,

Carissa Bear, Clerk of the Board

CALAVERAS PUBLIC UTILITY DISTRICT

CLAIM SUMMARY #____760____

DATE: ___January 2022

The claims listed on the schedules attached to this summary have been examined and found to be correct and proper demands against the Calaveras Public Utility District.

Claims Submitted	$129,425.61
Payroll Submitted	$ 50,320.85
P/R Tax Deposits	$ 23,002.26
Sub-total	**$ 202,748.72**

Net Additions	
Net Deductions	
Claim Summary Approved for	**$ 202,748.72**

Clerk of the Board, Calaveras Public Utility District

Calaveras Public Utility District
Expenses by Vendor Detail
January 2022

Name	Type	Date	Num	Memo	Account	Amount	Balance
ACWA-Health							
	Check	01/07/2022	23496	February Dental & Vision	5643 · Medical Insurance	1,638.89	1,638.89
Total ACWA-Health						1,638.89	1,638.89
Alpha Analytical Labs, Inc.							
	Check	01/07/2022	23497	Lab Fees	5323 · Lab Fees	395.00	395.00
Total Alpha Analytical Labs, Inc.						395.00	395.00
AT & T							
	Check	01/07/2022	23499	Phone for Hydro #3 Garamendi	5432 · T & D Misc. Maint. Utilities	66.23	66.23
	Check	01/25/2022	23532	Shop Internet & Phone	5432 · T & D Misc. Maint. Utilities	89.48	155.71
	Check	01/25/2022	23533	209-754-1920	5432 · T & D Misc. Maint. Utilities	197.82	353.53
	Check	01/25/2022	23533	209-286-1502	5432 · T & D Misc. Maint. Utilities	199.69	553.22
	Check	01/25/2022	23533	209-841-5235	5432 · T & D Misc. Maint. Utilities	33.34	586.56
	Check	01/25/2022	23533	234-351-0095	5432 · T & D Misc. Maint. Utilities	54.77	641.33
	Check	01/25/2022	23556	Hydro #3 Garamendi	5432 · T & D Misc. Maint. Utilities	64.19	705.52
	Check	01/07/2022	23498	Phone/Internet for Shop	5432 · T & D Misc. Maint. Utilities	90.24	795.76
Total AT&T						795.76	795.76
Blood, Richard							
	Check	01/07/2022	23500	Regular Board Meeting 1/11/22	5680 · Director's Fees	100.00	100.00
Total Blood, Richard						100.00	100.00
Brady McCartney							
	Check	01/07/2022	23512	CPUD Regular Meeting 11/9/2021	5680 · Director's Fees	25.00	25.00
	Check	01/07/2022	23512	CPUD Regular Meeting 1/11/2022	5680 · Director's Fees	100.00	125.00
Total Brady McCartney						125.00	125.00
Calaveras Enterprise							
	Check	01/25/2022	23534	CSR Classified	5683 · Dues, Subscriptions, Fees	257.04	257.04
	Check	01/25/2022	23534	WDTO Classified	5426 · T & D Fees & Permits	586.62	843.66
Total Calaveras Enterprise						843.66	843.66
Calaveras Power Agency							
	Check	01/25/2022	23535	CPUD Warehouse	5432 · T & D Misc. Maint. Utilities	54.04	54.04
	Check	01/25/2022	23535	Glencoe Booster Pump	5432 · T & D Misc. Maint. Utilities	150.61	204.65
	Check	01/25/2022	23535	CPUD Office	5621 · Office Utilities	122.80	327.45
	Check	01/25/2022	23535	Jeff Davis WTP	5432 · T & D Misc. Maint. Utilities	634.00	961.45
	Check	01/25/2022	23535	Licking Fork Pumping Station	5230 · Utilitites Pumping Power	7,402.00	8,363.45
Total Calaveras Power Agency						8,363.45	8,363.45
Carbon Copy Inc.							
	Check	01/07/2022	23501	Printer/Copier Contract	5623 · Contract Services	74.09	74.09
Total Carbon Copy Inc.						74.09	74.09
Comcast							
	Check	01/07/2022	23502	Office Utilities	5621 · Office Utilities	287.79	287.79
	Check	01/25/2022	23536	Office Phone & Internet	5620 · Materials & Supplies	299.66	587.45
Total Comcast						587.45	587.45

Calaveras Public Utility District
Expenses by Vendor Detail
January 2022

Name	Type	Date	Num	Memo	Account	Amount	Balance
Computer Firemen							
	Check	01/25/2022	23537	IT for CPUD Office and Shop	5623 · Contract Services	700.00	700.00
Total Computer Firemen						700.00	700.00
Datco Billing							
	Check	01/07/2022	23503	Contract Services	5422 · T & D Contract Services	51.00	51.00
Total Datco Billing						51.00	51.00
De Lage Landen Financial Services Inc.							
	Check	01/07/2022	23505	Printer/Copier Contract	5623 · Contract Services	87.85	87.85
	Check	01/25/2022	23538	Kyocera	5623 · Contract Services	87.85	175.70
Total De Lage Landen Financial Services Inc.						175.70	175.70
Dell'Orto, J.W.							
	Check	01/07/2022	23504	CAMRA Meeting 11/17/2021	5680 · Director's Fees	100.00	100.00
	Check	01/07/2022	23504	Finance AdHOC Meeting	5680 · Director's Fees	100.00	200.00
	Check	01/07/2022	23504	CPUD Regular Board Meeting	5680 · Director's Fees	100.00	300.00
Total Dell'Orto, J.W.						300.00	300.00
ERS Industrial Services, Inc.							
	Check	01/25/2022	23539	Elliptical Covers, Labor and Equipment	5322 · Water Treatment Supplies	11,650.00	11,650.00
Total ERS Industrial Services, Inc.						11,650.00	11,650.00
Fischer, Merle							
	Check	01/07/2022	23506	January Retirement Reimb.	5647 · OPEB - Retirement	765.23	765.23
Total Fischer, Merle						765.23	765.23
GEI Consultants, Inc.							
	Check	01/25/2022	23540	Chief Dam Safety Engineer Services Invoice 3102747	5623 · Contract Services	3,267.00	3,267.00
	Check	01/25/2022	23540	Chief Dam Safety Engineer Services Invoice 3101756	5623 · Contract Services	1,485.00	4,752.00
Total GEI Consultants, Inc.						4,752.00	4,752.00
Grainger							
	Check	01/25/2022	23541	Shop Tool	5421 · T & D Maint. Mat. & Supp.	30.20	30.20
	Check	01/25/2022	23541	Shop Tool	5421 · T & D Maint. Mat. & Supp.	15.18	45.38
	Check	01/25/2022	23541	Shop Parts	5421 · T & D Maint. Mat. & Supp.	98.29	143.67
	Check	01/25/2022	23541	WT Supplies	5322 · Water Treatment Supplies	146.65	290.32
Total Grainger						290.32	290.32
Granite Data Solutions							
	Check	01/25/2022	23557	Acrobat Pro DC Subscription	5683 · Dues, Subscriptions, Fees	450.00	450.00
Total Granite Data Solutions						450.00	450.00
Hill Rivkins Brown & Associates							
	Check	01/25/2022	23542	Legal Fees	5682 · Audit & Legal	5,428.00	5,428.00
Total Hill Rivkins Brown & Associates						5,428.00	5,428.00
Hobgood's Cleaning Service							
	Check	01/07/2022	23507	Janitorial Services	5623 · Contract Services	160.00	160.00
	Check	01/25/2022	23543	Janitorial Services January 2022	5623 · Contract Services	160.00	320.00
Total Hobgood's Cleaning Service						320.00	320.00

Calaveras Public Utility District
Expenses by Vendor Detail
January 2022

Name	Type	Date	Num	Memo	Account	Amount	Balance
Hunt & Sons Inc.							
	Check	01/07/2022	23508	Fuel for District Vehicles	5424 · T & D Equip. Repair & Oper.	928.08	928.08
	Check	01/25/2022	23544	Fuel Cards	5424 · T & D Equip. Repair & Oper.	1,574.33	2,502.41
Total Hunt & Sons Inc.						2,502.41	2,502.41
Jackson Tire							
	Check	01/07/2022	23509	Tires for Truck # 008/2018 Ford F-150	5424 · T & D Equip. Repair & Oper.	1,114.19	1,114.19
Total Jackson Tire						1,114.19	1,114.19
Ledger-Dispatch							
	Check	01/07/2022	23510	Advertisement for Field Crew Vacancy	5426 · T & D Fees & Permits	114.75	114.75
Total Ledger-Dispatch						114.75	114.75
Lowe's							
	Check	01/25/2022	23545	WTP Crystals	5322 · Water Treatment Supplies	1,864.69	1,864.69
Total Lowe's						1,864.69	1,864.69
Matrix Trust Company							
	Check	01/07/2022	23511	457 Plan Pay Period 12/15/21	2317 · 457 Plan	300.00	300.00
	Check	01/07/2022	23511	457 Plan Pay Period 12/31/21	2317 · 457 Plan	300.00	600.00
Total Matrix Trust Company						600.00	600.00
McMaster-Carr							
	Check	01/07/2022	23513	WTP Materials & Supplies	5322 · Water Treatment Supplies	420.17	420.17
	Check	01/25/2022	23546	Paloma Tank Supplies	5421 · T & D Maint. Mat. & Supp.	147.07	567.24
Total McMaster-Carr						567.24	567.24
Motherlode Answering Service							
	Check	01/25/2022	23547	Invoice 18511	5623 · Contract Services	295.48	295.48
Total Motherlode Answering Service						295.48	295.48
Pace Supply							
	Check	01/07/2022	23514	Quartely Inventory	5421 · T & D Maint. Mat. & Supp.	4,104.78	4,104.78
Total Pace Supply						4,104.78	4,104.78
Petty Cash							
	Check	01/07/2022	23515	Return Address Notifications	5622 · Postage & Box Rent	47.55	47.55
	Check	01/07/2022	23515	Rock Creek Landfill	5421 · T & D Maint. Mat. & Supp.	20.00	67.55
	Check	01/07/2022	23515	Staff Meeting	5429 · T & D Safety & Education	18.96	86.51
Total Petty Cash						86.51	86.51
PG&E - ENERGY STATEMENT							
	Check	01/07/2022	23516	MCV Hydro #2	5200 · Pipeline Hydro Cost	82.26	82.26
	Check	01/07/2022	23516	Garamendi's Hydro #3	5200 · Pipeline Hydro Cost	181.43	263.69
	Check	01/07/2022	23516	Ponderosa Hydro #1	5200 · Pipeline Hydro Cost	153.13	416.82
	Check	01/07/2022	23516	Office	5621 · Office Utilities	236.80	653.62
	Check	01/07/2022	23516	Schaads	5201 · Schaads Hydro Cost	56.54	710.16
	Check	01/07/2022	23516	Golden Hills Tank	5432 · T & D Misc. Maint. Utilities	9.43	719.59
	Check	01/07/2022	23516	Warehouse Light	5432 · T & D Misc. Maint. Utilities	11.82	731.41
	Check	01/07/2022	23516	Warehouse Light	5432 · T & D Misc. Maint. Utilities	11.82	743.23

Calaveras Public Utility District
Expenses by Vendor Detail
January 2022

Name	Type	Date	Num	Memo	Account	Amount	Balance
	Check	01/07/2022	23516	Moke Hill Tank	5432 · T & D Misc. Maint. Utilities	9.86	753.09
	Check	01/25/2022	23549	Hwy 26 Site #2	5200 · Pipeline Hydro Cost	74.19	827.28
	Check	01/25/2022	23549	Hwy 49 Chili Gulch	5200 · Pipeline Hydro Cost	178.28	1,005.56
	Check	01/25/2022	23549	Hwy 26 & Ponderosa Way	5200 · Pipeline Hydro Cost	149.94	1,155.50
Total PG&E - ENERGY STATEMENT						1,155.50	1,155.50
PGE-NON ENERGY INVOICES							
	Check	01/07/2022	23517	Hydro #2	5200 · Pipeline Hydro Cost	7.75	7.75
	Check	01/07/2022	23517	Hydro #3	5200 · Pipeline Hydro Cost	7.75	15.50
	Check	01/07/2022	23517	Hydro #1	5200 · Pipeline Hydro Cost	7.75	23.25
	Check	01/07/2022	23517	Schaads Reservoir	5201 · Schaads Hydro Cost	214.01	237.26
	Check	01/25/2022	23548	Schaads Hydro	5201 · Schaads Hydro Cost	197.86	435.12
	Check	01/25/2022	23548	Hydro 1	5200 · Pipeline Hydro Cost	7.75	442.87
	Check	01/25/2022	23548	Hydro 2	5200 · Pipeline Hydro Cost	7.75	450.62
	Check	01/25/2022	23548	Hydro 3	5200 · Pipeline Hydro Cost	7.75	458.37
Total PGE-NON ENERGY INVOICES						458.37	458.37
Postmaster							
	Check	01/07/2022	23518	Annual Permit Fee	5622 · Postage & Box Rent	265.00	265.00
	Check	01/07/2022	23530	January Postage	5622 · Postage & Box Rent	700.00	965.00
	Check	01/07/2022	23531	Return Address Notifications	5622 · Postage & Box Rent	50.00	1,015.00
Total Postmaster						1,015.00	1,015.00
RVS Software							
	Check	01/25/2022	23558	Acct# 3242	5621 · Office Utilities	491.98	491.98
Total RVS Software						491.98	491.98
San Andreas Sanitary District							
	Check	01/07/2022	23519	Sewer Services	5432 · T & D Misc. Maint. Utilities	97.04	97.04
	Check	01/07/2022	23519	Sewer Services	5621 · Office Utilities	97.04	194.08
Total San Andreas Sanitary District						194.08	194.08
Sender's Market Inc.							
	Check	01/07/2022	23521	Office Projects	5421 · T & D Maint. Mat. & Supp.	91.68	91.68
Total Sender's Market Inc.						91.68	91.68
SEIU Local 1021							
	Check	01/07/2022	23520	Pay Period Ending 12/15/21	2322 · SEIU Union Dues	426.14	426.14
	Check	01/07/2022	23520	Pay Period Ending 12/31/21	2322 · SEIU Union Dues	423.04	849.18
Total SEIU Local 1021						849.18	849.18
Sonora Ford							
	Check	01/25/2022	23550	Ford Super Duty F250	5424 · T & D Equip. Repair & Oper.	248.95	248.95
	Check	01/25/2022	23550	Ford F-150	5424 · T & D Equip. Repair & Oper.	189.24	438.19
Total Sonora Ford						438.19	438.19
Staples Credit Plan							
	Check	01/07/2022	23522	6035517820757168	5620 · Materials & Supplies	1,369.73	1,369.73
Total Staples Credit Plan						1,369.73	1,369.73

Calaveras Public Utility District
Expenses by Vendor Detail
January 2022

Name	Type	Date	Num	Memo	Account	Amount	Balance
State Water Resources Control Board							
	Check	01/25/2022	23552	Annual Permit Fee	5426 · T & D Fees & Permits	763.00	763.00
Total State Water Resources Control Board						763.00	763.00
SWRCB ACCOUNTING OFFICE							
	Check	01/25/2022	23559	Water system annual fee	5426 · T & D Fees & Permits	5,270.68	5,270.68
Total SWRCB ACCOUNTING OFFICE						5,270.68	5,270.68
Treat's General Store							
	Check	01/07/2022	23523	WTP	5432 · T & D Misc. Maint. Utilities	49.80	49.80
	Check	01/07/2022	23523	Truck 009	5424 · T & D Equip. Repair & Oper.	61.12	110.92
	Check	01/07/2022	23523	Materials & Supplies	5421 · T & D Maint. Mat. & Supp.	97.49	208.41
Total Treat's General Store						208.41	208.41
Tressler, Jack							
	Check	01/07/2022	23524	AdHoc Meeting 01/05/22	5680 · Director's Fees	100.00	100.00
	Check	01/07/2022	23524	CPUD Regular Meeting	5680 · Director's Fees	100.00	200.00
Total Tressler, Jack						200.00	200.00
Union Democrat							
	Check	01/25/2022	23551	Advertisement	5426 · T & D Fees & Permits	819.82	819.82
Total Union Democrat						819.82	819.82
Verizon Wireless							
	Check	01/07/2022	23525	Employee Cell Service	5432 · T & D Misc. Maint. Utilities	812.03	812.03
Total Verizon Wireless						812.03	812.03
Volcano Telephone							
	Check	01/07/2022	23526	Treatment Plant	5322 · Water Treatment Supplies	72.42	72.42
	Check	01/07/2022	23526	Hydro #1 Ponderosa	5200 · Pipeline Hydro Cost	56.14	128.56
	Check	01/07/2022	23526	Pump Station	5230 · Utilitites Pumping Power	56.14	184.70
	Check	01/07/2022	23526	Treatment Plant	5322 · Water Treatment Supplies	56.14	240.84
	Check	01/07/2022	23526	Water Treatment Plant	5322 · Water Treatment Supplies	113.90	354.74
	Check	01/07/2022	23526	Water Treatment Plant	5322 · Water Treatment Supplies	52.64	407.38
	Check	01/07/2022	23526	Hydro #2 MCV	5200 · Pipeline Hydro Cost	56.14	463.52
	Check	01/07/2022	23526	Schaads Hydro	5201 · Schaads Hydro Cost	56.14	519.66
	Check	01/07/2022	23526	Schaads Hydro	5201 · Schaads Hydro Cost	100.52	620.18
Total Volcano Telephone						620.18	620.18
Weber, Ghio & Associates							
	Check	01/07/2022	23529	Invoice # 2528 General Engineering Services	5684 · Engineering-Admin.	5,536.50	5,536.50
	Check	01/07/2022	23529	Invoice # 2528-005 RRA & ERP Update	5684 · Engineering-Admin.	855.00	6,391.50
	Check	01/07/2022	23529	Invoice # 2528-007 Asset Mapping Assistance	5684 · Engineering-Admin.	2,223.00	8,614.50
	Check	01/07/2022	23529	Invoice #2813 Water Loss Control Program	5684 · Engineering-Admin.	1,197.00	9,811.50
	Check	01/07/2022	23529	Invoice #2927 Water Model	5684 · Engineering-Admin.	1,075.75	10,887.25
	Check	01/07/2022	23529	Invoice #2813 CIP Document	5684 · Engineering-Admin.	513.00	11,400.25
	Check	01/07/2022	23529	Invoice #2873-001A Clearwell Tank Project Enviromental	1190 · Construction in Progress	782.15	12,182.40
	Check	01/07/2022	23529	Invoice #2873-003 Clearwell Tank Project Phase 1 Construction Management	1190 · Construction in Progress	11,777.20	23,959.60

Calaveras Public Utility District
Expenses by Vendor Detail
January 2022

Name	Type	Date	Num	Memo	Account	Amount	Balance
	Check	01/07/2022	23529	Invoice # 2873-004 Clearwell Tank Project Phase 2 Construction Management	1190 · Construction in Progress	11,240.82	35,200.42
	Check	01/25/2022	23553	2528 General Engineering Services	5684 · Engineering-Admin.	1,214.25	36,414.67
	Check	01/25/2022	23553	2528-005 RRA & ERP Update	5684 · Engineering-Admin.	3,391.50	39,806.17
	Check	01/25/2022	23553	2798 SRF Application	5684 · Engineering-Admin.	285.00	40,091.17
	Check	01/25/2022	23553	2813 Water Loss Control Program	5684 · Engineering-Admin.	399.00	40,490.17
	Check	01/25/2022	23553	2873 - 003 Phase I Clearwell Tank Project Const. Mgmt	1190 · Construction in Progress	2,969.31	43,459.48
	Check	01/25/2022	23553	2873-004 Phase II Clearwell Tank Project Const. Mgmt	1190 · Construction in Progress	17,293.20	60,752.68
Total Weber, Ghio & Associates						60,752.68	60,752.68
Wells Fargo Bank - C. Bear							
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5429 · T & D Safety & Education	17.64	17.64
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5429 · T & D Safety & Education	63.68	81.32
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5620 · Materials & Supplies	60.02	141.34
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5620 · Materials & Supplies	424.41	565.75
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5683 · Dues, Subscriptions, Fees	80.00	645.75
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5622 · Postage & Box Rent	100.00	745.75
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5620 · Materials & Supplies	971.61	1,717.36
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5620 · Materials & Supplies	83.88	1,801.24
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5620 · Materials & Supplies	83.88	1,885.12
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5620 · Materials & Supplies	45.04	1,930.16
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5620 · Materials & Supplies	130.80	2,060.96
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5683 · Dues, Subscriptions, Fees	191.98	2,252.94
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5429 · T & D Safety & Education	33.39	2,286.33
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5683 · Dues, Subscriptions, Fees	166.32	2,452.65
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5620 · Materials & Supplies	1,071.07	3,523.72
	Check	01/07/2022	23527	Acct # 5586-6803-0022-2346	5620 · Materials & Supplies	44.56	3,568.28
	Check	01/25/2022	23554		5421 · T & D Maint. Mat. & Supp.	110.44	3,678.72
	Check	01/25/2022	23554		5620 · Materials & Supplies	12.86	3,691.58
	Check	01/25/2022	23554		5683 · Dues, Subscriptions, Fees	179.88	3,871.46
	Check	01/25/2022	23554		5620 · Materials & Supplies	34.27	3,905.73
	Check	01/25/2022	23554		5620 · Materials & Supplies	41.50	3,947.23
	Check	01/25/2022	23554		5622 · Postage & Box Rent	100.00	4,047.23
	Check	01/25/2022	23554		5683 · Dues, Subscriptions, Fees	80.00	4,127.23
	Check	01/25/2022	23554		5683 · Dues, Subscriptions, Fees	16.23	4,143.46
	Check	01/25/2022	23554		5429 · T & D Safety & Education	198.41	4,341.87
Total Wells Fargo Bank - C. Bear						4,341.87	4,341.87
Wells Fargo Bank - M Roberts							
	Check	01/07/2022	23528	Acct # 5586 6803 0021 0457	5429 · T & D Safety & Education	164.33	164.33
	Check	01/07/2022	23528	Acct # 5586 6803 0021 0457	5429 · T & D Safety & Education	166.46	330.79
	Check	01/07/2022	23528	Acct # 5586 6803 0021 0457	5620 · Materials & Supplies	146.08	476.87
	Check	01/25/2022	23555		5429 · T & D Safety & Education	40.76	517.63
Total Wells Fargo Bank - M Roberts						517.63	517.63
						129,425.61	**129,425.61**

Calaveras Public Utility District
Water Rights Compliance and Hydropower Generating Evaluation

Calaveras County, California

Prepared For:

Prepared By:

Western Hydrologic Systems

Western Hydrologics
Water & Hydropower Consulting

Henwood Associates, Inc.

January 2022

Table of Contents

LIST OF ATTACHMENTS

1.0 Introduction

Calaveras Public Utility District's (District) desires to evaluate its water supply, stream gaging program and hydropower system. The purpose of this effort is to provide the District with a better understanding of its operational limitations and to provide recommendations to improve system capabilities.

This effort included an evaluation of the District's water rights and associated limitations and operational considerations. WHC reviewed FERC License conditions, minimum flow requirements, physical characteristics of the District's facilities, senior water rights within the basin, and contracts and agreements. As part of this task, WHC reviewed the District's annual water usage reports filed with the SWRCB for compliance with the limitations and conditions of each right. WHC also interviewed District staff regarding operational practices and measurement techniques to understand the District operations. Our findings are presented in sections 2.0 through 4.0.

As part of our research, the WHC team conducted a site visit to evaluate the existing stream gaging equipment. The purpose of this evaluation was to evaluate compliance with Senate Bill 88. Senate Bill 88 set expectations for both the accuracy of measurement devices as well as the monitoring frequency for the device. The regulation links both device accuracy and monitoring frequency to the water right volume categories. Larger diversions and larger reservoirs or ponds have more stringent measurement and monitoring requirements and more stringent requirements for the installation and certification of measurement devices. Section 5.0 summarizes the recommended gaging upgrades by water right.

CPUD owns and operates the powerhouse below Schaads Reservoir. It is our understanding that the powerhouse has some deficiencies and does not currently generate positive cash flow. Over time, components of the power operation have fallen into disrepair or are in need of equipment upgrades. The WHC team evaluated the power operations and in section 6.0 provided a summary of recommended upgrades to return the power operation to good working condition.

2.0 CPUD Water Rights

CPUD was formed on January 16, 1934 by special election. On March 13, the newly formed CPUD acquired the Mokelumne River Power and Water Company, which constructed and owned several pre-1914 ditches and associated water rights.

A portion of the Mokelumne River Power and Water Company diversion rights have since been converted to storage rights allowing CPUD to store water at Schaads Reservoir, located on the Middle Fork Mokelumne River. The following provides a brief history of water rights and agreements supporting CPUD operations. Table 1 provides a summary of all District water rights. Attachment A includes the water right filings for all four rights held by the District.

2.1 May 8, 1940 Agreement

The May 8, 1940 Agreement between CPUD and EBMUD is a formal recognition of CPUD's Pre-1914 rights by EBMUD. EBMUD recognized that CPUD has pre-1914 rights to divert from the South Fork of

the Mokelumne River as augmented by diversions from the Middle and Licking Forks of the Mokelumne River, not to exceed 12.5 cfs for industrial, domestic, mining, and agriculture under water right claim S025267. Per the May 8, 1940 Agreement with East Bay Municipal Utility District, CPUD has the right to use a portion of the 12.5 cfs for diversion to storage at Schaads Reservoir not to exceed 1,800 AF/YR under water right claim S010773. Water in storage may later be released to augment flow available for diversion.

2.2 March 5, 1959 Release from Priority

On March 5, 1959, the Department of Water Resources issued a Release from Priority of the State Applications Nos. 5647 and 5648, filed July 30, 1927 in favor of East Bay Municipal Utility District's (EBMUD) Applications 13156 and 15201. The Release from Priority is subject to a reservation for use within Calaveras County for waters of the Mokelumne River and its tributaries covered by Applications Nos. 5647 and 5648 a quantity of water for direct diversion to beneficial use of 27,000 AF for Calaveras County. The 27,000 AF is to be shared by Calaveras County Water District and Calaveras Public Utility District.

2.3 January 13, 1970 Agreement

On January 13, 1970 CPUD entered into an agreement with EBMUD for partial assignment of the State filed applications 5647 and 5648 water sufficient to construct and operate the proposed Jeff Davis Project. At the time, CPUD and EBMUD anticipated that with existing facilities, prior pre 1914 rights and the new storage of at least 1,750 AF per annum will produce a safe yield of 6,656 AF per annum. CPUD agreed that the 6,656 AF would be a part of the 27,000 AF reserved for Calaveras County under the State Filing. Per the 1970 Agreement, CPUD filed an application with the State Water Board resulting in Permit 16338 in support of the Jeff Davis Project.

2.4 Permit 16338

Permit 16338 granted to CPUD a quantity of water that can be beneficially used and shall not exceed 2,130 AF per year by storage at Jeff Davis Reservoir to be collected from January 1 to December 31 of each year. The maximum rate of diversion to offstream storage shall not exceed 15 cubic feet per second. The safe yield developed under this permit, together with all other prior rights of CPUD, shall not exceed 6,656 AF/YR and shall be a part of the 27,000 AF/YR reserved for use in Calaveras County pursuant to the release from priority of Application 5647 and 5648 by the State Water Board to EBMUD dated March 5 1959, and as set forth in the agreements between CPUD and EBMUD dated May 8, 1940 and January 13, 1970. Decision 858 also discusses the partial assignment of Application 5647 and 5648. This supply is currently used to serve the CPUD service areas.

2.5 Redhawk (McCarty) Reservoir

Redhawk Reservoir is on Rich Gulch which is tributary to the Calaveras River and is not subject to the limitations described in the January 13, 1970 Agreement with EBMUD. Under the District's water right, the reservoir can store up to 400 AF but is subject to an agreement to provide up to 50 AF per year to the underlying property owner. Although the District's water right is for 400 AF, information publicly available on the Division of Safety of Dams website indicates the storage capacity is closer to 2,760 AF.

Regardless of the actual size, the District can use 400 AF. Please see Section 3.3 for additional details. Table 1, below, provides a summary of each of the Distict's rights.

Table 1 - Water Rights Summary

Water Rights Summary									
Application (Permit		Purpose of Use	Point of Diversion		Direct Diversion		Diversion to Storage		Use Limit
Number	Priority Date		Location	Stream	Amount (cfs)	Season of Diversion	Amount (AFA)	Season of Diversion	(AFA)
A005648[1]	7/30/1927	Domestic Municipal Incidental Power Industrial				1/1-12/31			18,514
S004679	1885	Agriculture, Domestic	McCarty (Redhawk) Reservoir	Rich Gulch	5	1/1 – 12/31	400	1/1 – 12/31	400
S010773	1852	Domestic Irrigation Stockwatering Power	Below Schaads Reservoir	Middle Fork Mokelumne	2.5	1/1 – 12/31	1,800[2]	1/1 – 12/31	1800
S025267	1852	Domestic Irrigation Stockwatering Power		South Fork Mokelumne	7.35	1/1 – 12/31			4,704
A005648F (P16338)	12/13/1971 (7/30/1927)	Domestic Municipal Incidental Power Industrial		Middle Fork Mokelumne South Fork Mokelumne			2,130[4]	1/1 – 12/31	2,130 6,656[3]

Notes:

1 Decision 858 allows the Districts to take up to 27,000 AF for development of West Point and the Mokelumne Service Area. This water is held in reserve for the Districts for Mokelumne River supplies needed to serve future development within Calaveras County. The use limit of 18,514 AF represents the remaining supply held in reserve for the Districts.

2 The May 8, 1940 agreement between CPUD and EBMUD gives CPUD the permission to use a portion of the 12.5 cfs direct diversion to store up to 1,800 AF per year at Schaads Reservoir. This 12.5 cfs diversion right may be combined with storage withdrawals to divert a maximum of 15 cfs. The Agreement also states that CPUD's rights in excess of those amounts will be junior and subordinate to EBMUD's rights.

3 Application 005648F states that the safe yield developed under this permit, together with all other prior Mokelumne River rights of permittee, shall not exceed 6,656 AF/YR and shall be a part of the 27,000 acre-feet per annum reserved for use in Calaveras County pursuant to the release from priority of Applications 5647 and 5648 by the State Water Board to East Bay Municipal Utility District dated March 5, 1959, and as set forth in the agreements between Calaveras Public Utility District and East Bay Municipal Utility District dated May 8, 1940 and January 13, 1970.

4 Maximum rate of diversion to off stream storage will not exceed 15 cfs.

3.0 Water Supply Agreements

The District has entered into water supply agreements with Calaveras County Water District, the Property owners of 7327 Schaads Road in Wilseyville, and 1811 McCarthy Reservoir Road in Railroad Flat. These agreements are discussed in the following sections 3.1 – 3.3.

3.1 Calaveras County Water District Agreement

As a supplemental supply to CCWD's Bear Creek Diversion, CPUD has entered into an agreement with CCWD to provide 200 AF per year diverted at CCWD's Middle Fork Pump Station. The supply is currently used to serve the West Point/Wilseyville/Bummerville area.

3.2 Delivery to 7327 Schaads Road (Schaads Reservoir)

The property located at 7327 Schaad Road Wilseyville, CA is served raw water by a pipe from the Schaad's hydropower plant penstock. There is no specific water right filed with the State Water Resources Control Board separate from the District's water right S010773 associated with this delivery. The District has documentation of the landowner providing the District with an easement, but does not appear to have any documented agreement of the water delivery. There are two potential possibilities for the basis of this delivery:

1 The delivery, made under the District's water right S010773, is per an undocumented agreement in exchange for the property owner granting an easement to the District to access Schaads Reservoir and associated facilities; or

2 The property owners have their own right and have never filed an Initial Statement of Water Diversion and Use with the SWRCB.

If this delivery is being made under the District's water right, the volume should be reported as a diversion and beneficial use under the District's water right S010773.

3.3 1811 McCarthy Reservoir Road (Redhawk (McCarty or McCarthy) Dam)

Based on the opinion of former District water rights attorney, George A. Huberty and his research into the history of the CPUD water rights, the District has the right to store in Redhawk (McCarty) Reservoir up to 400 AF per year. Records indicate that the District does not own the land underlying the reservoir but has been granted an easement to store water on that land. By agreement, the owner of the land is entitled to the first 50 AF of water held in Redhawk (McCarty) Reservoir. The remaining volume can be put to use by the District within the limits of water right S004679. Please see page 6 of Attachment B.

If the 50 AF delivery is being made under the District's water right, the volume should be reported as a diversion and beneficial use under the District's water right S004679.

4.0 Minimum Flow Requirements

Minimum flow requirements are a necessary part of the District's operations below the Middle Fork (Schaads) Dam and Powerplant on the Middle Fork Mokelumne River and below the South Fork Pump Station on the South Fork Mokelumne River. The Middle Fork Dam and Powerplant operate under the conditions contained in a comment letter by the State of California Resource Agency submitted in

response to the District's Notice of Application for FERC Project 7506. This FERC permit allows the District to operate the Middle Fork Powerhouse under a FERC Exemption. Water right Application A005648F allows the District to divert to storage at Jeff Davis Reservoir using the South Fork Pumping Plant. The water right includes a minimum flow requirement per agreement with the Department of Fish and Wildlife. The minimum requirements for Middle Fork Dam are discussed in section 4.1 and the requirements for the South Fork Pumping Station are discussed in section 4.2.

4.1 Middle Fork (Schaads) Dam FERC Project #7506

A minimum flow requirement of 3 cfs is required below Schaad's Reservoir. Upon the District requesting a FERC License exemption, the Resources Agency of the State of California reviewed the Notice of Application. The review was coordinated with the Energy and Public Utilities Commission, Reclamation and Water Resources Control Boards, and the Departments of Boating and Waterways, Fish and Game, Conservation, Forestry, Parks and Recreation, Water Resources, and Transportation. The resulting comment letter dated June 12, 1984, Attachment C, includes 14 conditions guiding the operations. Condition 4 states that the exemptee (District) will continue the existing 3 cfs streamflow release requirement to protect the river's fishery resource.

4.2 Below South Fork Pumping Station FERC Project #7283

Flow requirements below the South Fork Pumping Station are stated in water right application A005648F, paragraph 12, and summarized below.

Normal years	5 cfs or natural flow, whichever is less
Dry Years	3 cfs or natural flow, whichever is less

The text from Paragraph 12 can be found documented in Attachment A in water right A005648F (Permit 16338) and is shown below.

"For the maintenance of fish life, permittee shall provide immediately below the proposed point of diversion on the South Fork of the Mokelumne River, which is immediately below the confluence of the Licking Fork Mokelumne River with the South Fork Mokelumne River, a flow of five cubic feet per second of the natural flow at that point on the South Fork Mokelumne River, whichever is less. During dry years, the flow to be provided immediately below the permittee's proposed point of diversion may be reduced by the permittee to three cubic feet per second or the natural flow, whichever is less. A dry year is hereby defined as one in which the April 1st forecast of runoff made by the Department of Water Resources, or such other forecast as this Board may select, indicates the surface flow in the coming year will be fifty percent of normal runoff or less. The provisions of this permit term shall be subject to the continuing jurisdiction of the State Water Board, and the magnitude of these flows will be reconsiderd by the Board in twenty years unless it is requested to reconsider this matter before the that time by either the permittee or the Department of Fish and Wildlife (DFW)."

The forecast of runoff made by the Department of Water Resources is known as Bulletin 120 and can be found here: https://cdec.water.ca.gov/snow/bulletin120/. For the Mokelumne River, a forecast of Total Inflow to Pardee Reservoir is provided. Attachment D includes the April 1, 2021 Bulletin 120 as an example. Bulletin 120 is produced in February, March, April and May and is usually available to the public in the second week of the month. This forecast represents both the Apr – Jul unimpaired runoff forecast and the Water Year unimpaired runoff forecast. For determination of the flow requirement, the Water Year unimpaired runoff forecast should be used. Attachment D illustrates how to find the Total Inflow to Pardee Reservoir for the Water Year. Pages 4 & 5 are needed to determine the year type. In a printed copy of Bulletin 120, pages 4 & 5 would be facing each other. In the electronic file the pages are sequential. The Mokelumne River *Total Inflow to Pardee Reservoir* is highlighted in red on page 4. The corresponding line of data for the Mokelumne River forecast is not labeled on page 5. To identify the correct data on page 5, it is helpful to print both pages 4 and 5 and line them up. For 2021, the water year runoff forecast was 43% of average (also highlighted in red), which results in a dry water year type. For dry years, the flow requirement is 3 cfs or natural flow, whichever is less.

The water right does not give specific instructions as to what period these flow requirements are to be applied. Since the April 1st forecast isn't available until the second week of the month, the coming year could be interpreted as May 1st through the following April 30th.

5.0 Senate Bill 88 Gaging Compliance by Right

Senate Bill 88 set expectations for both the accuracy of measurement devices as well as the monitoring frequency for the device. The regulation links both device accuracy and monitoring frequency to the volume categories. Larger diversions and larger reservoirs or ponds have more stringent measurement and monitoring requirements and more stringent requirements for the installation and certification of measurement devices as described in table 2.

Table 2 - Gaging Requirements

Type of Diversion	Installation Deadline	Required Accuracy	Required Monitoring Frequency	Qualification For Installation And Certification
Direct Diversion ≥ 1,000 af/year Storage ≥ 1,000 af	January 1, 2017	10%	Hourly	Engineer/Contractor/Professional
Direct Diversion ≥ 100 af/year Storage ≥ 200 af	July 1, 2017	10%	Daily	Engineer/Contractor/Professional
Direct Diversion ≥ 10 af/year Storage ≥ 50 af	January 1, 2018	15%	Weekly	Individual experienced with measurement and monitoring
Storage > 10 af	January 1, 2018	15%	Monthly	Individual experienced with measurement and monitoring

Table 3 shows the requirements for each gage by water right. Because each gage is required to monitor flow or storage daily or hourly, a data logger is recommended for each site.

Table 3 - Gaging requirements by water right

Water Right Application	Location	Type of Diversion	Required Accuracy	Required Monitoring Frequency
S004679	McCarthy (Redhawk) Reservoir	Storage > 200 AF	10%	Daily
S010773	Schaads Reservoir	Storage > 1,000 AF	10%	Hourly
S025267	South Fork Mokelumne Pumping Plant	Direct Diversion > 1,000 AF/Year	10%	Hourly
A005648F (P16338)	Jeff Davis Reservoir	Storage > 1,000 AF	10%	Hourly

5.1 Gaging Recommendations

S004679 – Redhawk (McCarthy) Reservoir

Redhawk Reservoir is used as an intermittent water supply for a neighboring ranch. Per the State Water Resources Control Board's eWRIMS website, there is one water right at Redhawk Reservoir. The District has water right S004679 which allows for up to 400 AF/year of storage. Another water user on the lake diverts up to 50 AF per year per agreement with the District. To determine the quantity put to use by the District, we propose to determine the change in storage with a new storage gage, then subtract the usage by the other diverter. For gaging the total storage at Redhawk Lake we proposed a bubbler-type gage. The equipment list and cost estimate are shown below.

Gage Equipment List:

- Amazon Bubbler Gage
- 100-watt solar panel with mount and solar controller
- 12V 75 ah battery
- Staff gage
- Conduit to encase orifice line for Bubbler gage

Total Equipment Cost: $8,600

- Optional Satellite Radio from Picovale ($2,000)

Labor for Installation: $5,000

Total Redhawk Gaging Station Cost..... $13,600

S010773 – Schaads Reservoir & Outlet Gages

The District has a Pre-1914 water right to store up to 1,800 AF/year at Schaads Reservoir. The District has a pressure transducer that measures water surface elevation at Schaads Reservoir, but does not record the data. The proposed gaging equipment will allow the District to record the data hourly as required by SB 88. The pre-1914 right also allows the District to divert water at the Middle Fork Ditch,

about 1 mile downstream of Schaad's Reservoir. The Middle Fork Ditch was historically used to deliver Middle Fork Mokelumne River water to the Licking Fork for diversions there. The Middle Fork Ditch is not operable, so no stream gage is recommended for this diversion. Releases from Schaad's Reservoir to the Middle Fork Mokelumne is recommended to record release for minimum instream flow requirements and to calculate reservoir inflow. The following equipment can be used to record Schaad's Reservoir storage and Schaad's releases.

Gage Equipment List:

- Amazon Bubbler Gage
- Storm-3 interface
- Satellite radio with two outputs
- 12V 75 ah battery with trickle charge from AC power in powerhouse
- Staff gage
- Conduit to encase orifice line for Bubbler gage

Total Equipment Cost: $9,100

Labor for Installation: $5,000

Total Schaads Gaging Station Cost $14,100

S025267 – Pre-1914 Direct Diversion to Jeff Davis Reservoir

Pre-1914 Water right S025267 allows the District to directly divert South Fork Mokelumne River water through Jeff Davis Reservoir to the Jeff Davis Water Treatment Plant for treatment and use. This direct diversion is done using the District's South Fork Pumping Plant. The District has a gage that measures the diversion, but doesn't record the data on an hourly timestep as required by SB 88. The diversions under this Pre-1914 right is operated in coordination with CPUD's Permit No. 16338 (Application A005648F) to provide water for Jeff Davis Project service area. Term 12 of Permit No. 16338 includes discussion of minimum flow requirements below the South Fork Pumping Plant. The gaging equipment proposed below will comply with SB 88 for both the direct diversion at the South Fork Pumping Plant and the flow requirement below the Pumping Plant.

Gage Equipment List:

- Amazon Bubbler Gage
- Storm-3 interface
- Satellite radio with three outputs
- 12V 75 ah battery with trickle charge from AC power in powerhouse
- Staff gage
- Conduit to encase orifice line for Bubbler gage

Total Equipment Cost: $9,100

Labor for Installation:..... $5,000

Total South Fork Pump Station Gaging Station Cost..... $14,100

Permit 16338 (Application A005648F) – Jeff Davis Reservoir Storage

Permit 16338 allows diversion of both Middle Fork Mokelumne River and South Fork Mokelumne River to Jeff Davis Reservoir from the South Fork Pumping Station. Once diverted, water is stored for use later in the season. The Jeff Davis Reservoir storage capacity is about 2,000 AF which requires hourly water surface elevation measurements. The following proposed gaging equipment will provide the required measurement data.

Gage Equipment List:

- Amazon Bubbler Gage
- 100-watt solar panel with mount and solar controller
- 12V 75 ah battery
- Staff gage
- Conduit to encase orifice line for Bubbler gage

Total Equipment Cost:..... $9,700

Labor for Installation:..... $6,000

Total Jeff Davis Reservoir Gaging Station Cost..... $15,700

5.2 Annual Data Transmission Costs

For gages with Satellite Radio Transmission, annual data transmission costs are as listed below

15 Min..... $780
Hourly..... $540

5.3 Gage Maintenance, Monitoring and Reporting

Once the gages are installed, for the first year, the gage monitoring program includes visiting the gage sites to collect data and perform routine maintenance every month. Gage maintenance visits will include field measurements using USGS-approved Price AA or Pygmy current meters. The purpose of these visits is to develop and then verify rating curves and identify shifts in the stream

reach control. During the visits, the hydrographer will also conduct gage equipment checks, make any necessary repairs, and collect the data. Occasionally, replacement of batteries or gaging equipment due to failure or vandalism will be necessary. Although the purchase of replacement equipment is outside the scope of this proposal, removal and replacement of the damaged equipment can generally be done during routine maintenance trips at no additional charge.

Once the water surface elevation data have been collected, the data will be reviewed for completeness and estimated wherever missing. Using the rating curves, the water surface elevation data will be converted to flow or storage, reported to CPUD staff, and archived.

Total Gage Maintenance Cost $3,230

6.0 Middle Fork Powerhouse Improvements

CPUD has expressed an interest in making the Schaads hydroelectric project more efficient and profitable. The following three items should be considered to work toward that goal.

- Review Power Purchase Contract
- Consider Generating Equipment Improvements
- Reduce Cost of Operation with Control System Improvements

Power Purchase Contract Review

Currently, the project sells all the power produced through a connection to PG&E's 12kV distribution line. To improve the economics of any hydroelectric project, the price paid for the power produced needs to be maximized while minimizing the costs of operations. The power purchase contract regulates the price paid for the power, so a contract review is recommended to determine if there are any better pricing options available. The Power purchase contract review is beyond the scope of this analysis but should be considered.

Generating Equipment Improvements

The existing mechanical and electrical equipment was designed and installed in the early 1980's. It appears that the selection of the equipment installed was based on the least initial cost. The existing turbines are actually centrifugal pumps that were installed to run water in the reverse direction to produce power. They are from a European manufacturer that is no longer in business and replacement parts must be custom made. The drive system on the larger unit includes a belt drive that requires frequent maintenance and gives away some efficiency.

There are several options available to replace the existing turbines. The most efficient design is a Francis type turbine that incudes wicket gates that allow the unit to accommodate variable flows. The lowest flow through the small turbine is advertised at 3.24 cfs, and the highest flow through all the turbines is advertised at 35.68 cfs. A single unit could potentially be used to cover all of the flow

variations of the existing turbines and could be used to maintain a constant reservoir level, without starting and stopping units. In addition, only a single generator would have to be used. The tradeoff for the variable flow functionality is **Francis turbines** are very expensive with complex mechanical connections required to operate the many wicket gates used to regulate water flow. They also require a downstream pressure head, which may not be practical in this installation, and essentially eliminates it for consideration. Major changes to the existing piping and outflow system would be required to accommodate this turbine type.

A second type of turbine that could be used in this head and flow combination is the **cross-flow type turbine**. They are not as expensive to manufacture as the Francis turbine and do offer some flow regulation, possibly as wide as the 3 to 36 cfs range of the existing turbines. Cross flow turbines have a fairly flat efficiency curve at the higher flow range (80 to 84% efficient), however not ever as high as a Francis turbine, and they are extremely inefficient at very low flows. Again, major changes would be required to the existing piping, with some changes to the outflow system.

Finally, it is possible that the existing turbines could be replaced with modern **centrifugal type turbines**. These are effectively the equivalent of fixed flow Francis turbines. Efficiency could be brought back up to that of the original system (as high as 90% efficient). It may also make more sense to replace the belt system with a third generator to eliminate all of the mechanical equipment and maintenance. Once again, changes would inevitably be required on the turbine inlet piping system, and the problematic existing Danfoss valve actuators would have to be replaced.

Control System Improvements

The third consideration is to reduce the costs of operating the equipment. This can be achieved by automating the systems, improving reliability, and minimizing the time required to inspect, maintain, and repair the equipment.

Most of the original control system has already been replaced with a PLC based control system and includes a touch screen that consolidates most of the start/stop controls, alarms, and monitoring items to a single screen. This system is still functional, but basic. The system is capable of starting and stopping the units based on reservoir level. The generating units are programmed to shut down when the reservoir falls to a preset level and starts up before the reservoir begins to spill.

The remote monitoring and control system was originally installed about 20 years ago and operated through the dam monitoring PLC system, separate from the generator control system. It consisted of a standard desk top PC with human machine interface (HMI) software installed. The PC was connected to and pulled data from the PLC that was then displayed on the HMI screen and saved to files on that PC. An operator or engineer could access the project PC via phone modem and remote-control software. Over time, the PCs have proven to be unreliable in the powerhouse environment, and nearly all the phone line, modem, and software equipment is obsolete and unable to operate with modern Windows based PC operating systems. Without the remote HMI system, an operator is

required to travel to the project to start or stop the generation. Often the project will trip off over a weekend, or just after an operator leaves, and will remain offline until the operator is able to return.

In the event of a complete turbine, generator and control system replacement, a new HMI and remote access control system would come with the package. A new package may be able to use the phone system for the remote operations, or possibly a satellite-based connection. In the short term, the old PC based HMI system should be replaced with an industrial rated touch screen and satellite internet connection. The industrial touch screen would replace the fragile PC, provide an interface for the operators locally, log reservoir level and output values, and connect to the internet for access to the controls and monitoring remotely. The C-More system from Automation Direct has been successfully implemented by Henwood Associates at other projects. The same local screens are available to the operators from an internet connected PC or even smart phone with software installed. The system is capable of logging information and may be downloaded as a file to flash card or USB drive when needed. This system can provide a useful graph of the reservoir level and power output data. As far as the connection to the internet, Hughes Net advertises satellite systems for remote locations like this, with acceptable performance and reliability. The data transmission would be relatively low since data is only transferred when the system is accessed remotely. In addition, it's possible that this system could be used for phone service at the project to replace or supplement the land line system there now.

Costs Estimates:

The estimated costs for replacing the turbines, generators and switchgear with a new variable flow Francis turbine system was not included, since it would be impossible to create the back pressure required on the downstream side of the turbine.

The estimated costs for replacing the turbines, generators and switchgear with a new **cross flow turbine** system:

180 kW Cross Flow Turbine, Generator and Switchgear	$397,375
Civil work required to remove existing turbines, add new equipment platform	$ 50,000
Electrical work required to replace existing electrical equipment with new	$ 50,000
Total	**$497,375**

The estimated costs for replacing the turbines, generators and switchgear with a new **centrifugal pump style turbine** system:

182 kW Pump Turbine (3 each 75kW units), Generator and Switchgear	$385,000
Civil work required to remove existing turbines, add new equipment platform	$ 25,000
Electrical work required to replace existing electrical equipment with new	$ 50,000
Total	**$460,000**

The estimated costs for replacing the PC remote HMI system with a new industrial touch screen system and satellite internet connection:

15" Industrial C-More Touch Screen:	$2,300
Mounting Cabinet:	$ 600
Touch Screen Programming	$2,500
Installation	$1,200
Hughes Net Equipment Purchase	$ 500
Set up Router with Static IP Address	$ 800
Total	**$7,900**

In addition, there is a Hughes Net Monthly Service agreement, which starts out at an average $80 but probably rises to $100 to $120 per month. There are likely other satellite internet services available.

The prices above are order of magnitude estimates but should expected to be within plus or minus 10% of the total. The new turbine equipment prices were provided by Canyon Hydro, a USA based company that has been in the hydroelectric business for 45 years. They provide quality equipment with good efficiency and durability, and excellent customer support. The recommended option is a **new centrifugal pump** replacement. There are tradeoffs with this option. The cost and work required to replace the equipment is lower, and the efficiency should be just slightly better than the cross-flow turbine, but this system would not have a variable flow output. The replacement HMI system cost is based on a system procured, built and installed by Henwood Associates, Inc.

ATTACHMENT A

Water Right Documentation (S004679, S010773, S025267, A005648F)

Water Right Claim S004679

Redhawk (McCarty or McCarthy) Reservoir

STATE OF CALIFORNIA
THE RESOURCES AGENCY
STATE WATER RESOURCES CONTROL BOARD
DIVISION OF WATER RIGHTS

STATEMENT OF WATER DIVERSION AND USE

S 4679

This statement should be typewritten or legibly written in ink.

A. Name of person diverting water Calaveras Public Utility Dist.
Address San Andreas, Calif.

B. Name of body of water at point of diversion Rich Gulch
Tributary to Calaveras River

C. Place of diversion ___ ¼ ___ ¼ Section 36, Township 6N, Range 13E, MD B&M,
Calaveras County, or locate it on sketch of section grid on reverse side with regard to section lines or prominent local landmarks.

D. Name of works McCarty Reservoir

E. Capacity of diversion works 5 cfs cubic feet per second ~~gallons per minute~~
Capacity of storage reservoir 400 gallons / acre-feet
State quantity of water used each month in gallons or acre-feet

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total Annual

If monthly and annual use are not known, check months in which water was used. State extent of use in units, such as acres of each crop irrigated, average number of persons served, number of stock watered, etc.

Maximum annual water use in recent years ______ gallons / acre-feet
Minimum annual water use in recent years ______ gallons / acre-feet
Type of diversion facility: gravity ______, pump ______
Method of measurement: weir ______, flume ______, electric power meter ______, water meter ______, estimate ______

F. Purpose of use (what water is being used for) Agriculture

G. General description or location of place of use (use sketch of section grid on reverse side if you desire).
See attached sheet

H. Year of first use as nearly as known 1939 by the District

I. Name of person filing statement Clifford L. Lombardi
Position Manager Organization Calaveras Public Utility Dist.
Address P.O. Box 227 San Andreas Calif.

I certify that the foregoing statements are true and correct to the best of my knowledge and belief.

Date signed ______ Signature ______

See Instructions on Reverse Side

WRCB 40 (12-67)

5-015-02-0010

Water Right Claim S010773

Middle Fork (Schaad) Reservoir, Middle Fork Ditch

STATE OF CALIFORNIA

STATE WATER RESOURCES CONTROL BOARD

STATE WATER RESOURCES CONTROL BOARD APR 22 PM 7 33

APC

10773

DIVISION OF WATER RIGHTS

STATEMENT OF WATER DIVERSION AND USE

DIV. OF WATER RIGHTS SACRAMENTO

(This is not a Water Right)

This statement should be typewritten or legibly written in ink.

A. Name of person diverting water Calaveras Public Utility District

Address P. O. Box 666, San Andreas, CA 95249 Telephone (209) 754-3281

B. Name of body of water at point of diversion See attached sheet Middle Fork Mokelumne River

Tributary to

C. Place of diversion ___ ¼ ___ ¼ Section 9, Township 6 N, Range 14 E, MD B&M, Calaveras County, or locate it on sketch of section grid on reverse side with regard to section lines or prominent local landmarks. (See attached sheet)

D. Name of works 1) Middle Fork (Schaad) Reservoir; 2) Middle Fork Ditch.

E. Capacity of diversion works 2.5 c.f.s. (cubic feet per second / gallons per minute / gallons / acre-feet)

Capacity of storage reservoir 1800 a.f.

State quantity of water used each month in gallons or acre-feet

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total Annual
													1200

If monthly and annual use are not known, check months in which water was used. State extent of use in units, such as acres of each crop irrigated, average number of persons served, number of stock watered, etc.

Used 12 months of the year serving approximately 5000 people, more or less. Also used for stock watering and limited irrigation for green pasture.

Maximum annual water use in recent years 1200 a.f. (gallons / acre-feet)

Minimum annual water use in recent years 1000 a.f. (gallons / acre-feet)

Type of diversion facility: gravity X, pump ___

Method of measurement: weir X, flume ___, electric power meter ___, water meter X, estimate ___

F. Purpose of use (what water is being used for) Municipal and agricultural.

G. General description or location of place of use (use sketch of section grid on reverse side if you desire) See map enclosed.

H. Year of first use as nearly as known Approximately 1852. (See enclosed statement)

I. Name of person filing statement Sally Lewis

Position Secretary/Manager Organization Calaveras Public Utility District

Address P. O. Box 666, San Andreas, CA 95249 Telephone: (209) 754-3281

I declare under penalty of perjury that the above is true and correct to the best of my knowledge and belief.

DATED: April 20, 19 82, at San Andreas, California.

Signature: Sally Lewis

Blue Mountain 15'
H 23

See Instructions on Reverse Side

WR 40 (7/77)

5-116-00-00-0

Water Right Claim S025267

South Fork of Mokelumne River, Jeff Davis Project

State Water Resources Control Board

DIVISION OF WATER RIGHTS

INITIAL STATEMENT OF WATER DIVERSION AND USE

A STATEMENT SHALL NOT ESTABLISH OR CONSTITUTE EVIDENCE OF A WATER RIGHT

READ THE ATTACHED INFORMATION AND INSTRUCTION SHEET BEFORE COMPLETING THIS FORM

FURTHER INFORMATION CAN BE FOUND IN WATER CODE, SECTIONS 5100-5107

DIVERTER NAME Calaveras Public Utility District

SOURCE/TRIBUTARY South Fork of Mokelumne River

DIVERSION WORKS NAME Jeff Davis Project

A. Diverter Information

Diverter Name(s): Calaveras Public Utility District			
Mailing Address: P.O. Box 666	City: San Andreas	State: CA	Zip: 95259
Phone Number: 209-754-9442	Email Address (if available): dleatherman@cpud.org		
Person Filing Statement (If Different From Diverter)			
Mailing Address	City	State	Zip
Phone Number	Email Address (if available)		
Land Owner Name			
Mailing Address	City	State	Zip

Mail Receiver: (●) Diverter ( ) Person Filing

B. Signature and Important Information

DATE: November 12, 2015

SIGNATURE: Donna Leatherman

PRINTED NAME: Donna (first name) Marie (middle name) Leatherman (last name)

I declare that the information in this report is true to the best of my knowledge and belief. **Submit Form Electronically**

THE STATE WATER RESOURCES CONTROL BOARD MAY RELY ON THE NAMES AND ADDRESSES ON THIS DOCUMENT FOR MAILING NOTICES REGARDING PROCEEDINGS BEFORE THE BOARD. (Wat. Code, § 5106, subd. (b)(1).)

SUPPLEMENTAL STATEMENTS OF WATER DIVERSION AND USE MUST BE FILED AT THREE-YEAR INTERVALS OR IF THERE IS A CHANGE IN THE NAME OR ADDRESS OF THE DIVERTER. (Wat. Code, § 5104.)

THE MAKING OF A WILLFUL MISSTATEMENT ON A STATEMENT OF WATER DIVERSION AND USE IS A MISDEMEANOR PUNISHABLE BY A FINE NOT EXCEEDING $1,000 OR BY IMPRISONMENT IN THE COUNTY JAIL FOR UP TO SIX MONTHS, OR BOTH. THE BOARD MAY IMPOSE CIVIL LIABILITY UPON A PERSON WHO KNOWINGLY MAKES A MATERIAL MISSTATEMENT ON THIS FORM. (Wat. Code, § 5107.)

UPON COMPLETION OF THIS STATEMENT, ATTACH ALL SUPPORTING DOCUMENTATION AND MAPS AND MAIL TO:

State Water Resources Control Board
Division of Water Rights
PO Box 2000
Sacramento, CA 95812-2000

Additional copies of this form, instructions on how to complete this form and water right information can be obtained at http://www.waterboards.ca.gov/waterrights/water_issues/programs/diversion_use/. Revised January 2014.

S025267

State Water Resources Control Board

DIVISION OF WATER RIGHTS

INITIAL STATEMENT OF WATER DIVERSION AND USE

A STATEMENT SHALL NOT ESTABLISH OR CONSTITUTE EVIDENCE OF A WATER RIGHT

READ THE ATTACHED INFORMATION AND INSTRUCTION SHEET BEFORE COMPLETING THIS FORM

FURTHER INFORMATION CAN BE FOUND IN WATER CODE, SECTIONS 5100-5107

PAGE 2 OF 3: INITIAL STATEMENT OF WATER DIVERSION AND USE DIVERTER NAME Calaveras Public Utility District

SOURCE/TRIBUTARY South Fork of Mokelumne River DIVERSION WORKS NAME Jeff Davis Project

1. Type of Claim

Check the box(s) which describe the type of claim(s) under which you are diverting water.

☐ Riparian ☑ Pre-1914 ☐ Court Decree ☐ Pending Appropriative Application ☐ Pueblo ☐ Other:

If you checked yes for Court Decree, Pending Appropriative Application or other, list the decree number, application ID or explanation:

2. Water Course Description

Water Course Name at the point of diversion	Water Course is tributary to
South Fork of Mokelumne River	Mokelumne River

3. Legal Land Description

Provide the location of the Point of Diversion using one of the following methods (check one box and enter coordinates, if applicable)

☑ Latitude/Longitude Measurements: 38°21'45.77"N 120°30'26.98"W

☐ California Coordinate System (NAD 1983):

☐ USGS Topographic Map with point of diversion labeled on map (if checked yes, please attach map)

Assessor's Parcel Number(s), if assigned:	County
	Calaveras

Provide Public Land Description to nearest 40 acres (if assigned)

_____¼ of the _____¼ of Section _____, Township _____, Range _____, B&M _____

4. Place of Use Description

Provide a general description of the area in which the water was used

Water is used for municipal purposes in rural and semi-rural areas of Calaveras County

Identify the location of the place of use on a specific United States Geological Survey (USGS) topographic map and on any other maps with identifiable landmarks. If assigned, provide the public land description to the nearest 40-acre subdivision and the assessor's parcel number. (check box indicating each map attached)

☑ USGS Topographic Map ☐ County Assessor's parcel map

5. Purpose of Use Description (Please select all that apply below)

☐ Irrigation Number of Acres :	☑ Domestic Persons Served :	☐ Stock watering Number of stock and type:	☐ Other Please Explain:
	5,400		

6. Diversion Works Description

Name of Diversion Works, if named	Year in which diversion commenced (or specify nearest known year)
South Fork Mokelumne River Diversion	1854

List any related existing water rights, if applicable (for example, an appropriative right using the same diversion works)

Please see ATTACHMENT TO INITIAL STATEMENT OF WATER DIVERSION AND USE WITH SUPPLEMENTAL INFORMATION

Type of Diversion Facility (select one)

☐ Gravity ☑ Water Course Pump ☐ Well Pump ☐ Other (please specify)

Do you directly divert water? ☑ Yes ☐ No

Capacity of Direct Diversion Works (specify unit and amount) 3300

☐ Cubic feet per second ☑ Gallons per minute ☐ Gallons per day

Do you divert water to storage? ☐ On-stream storage (Complete Section B) ☑ Off-stream storage (Complete Sections A & B)

A. Capacity of Storage Diversion Works (specify unit and amount) 3,300

☐ Cubic feet per second ☑ Gallons per minute ☐ Gallons per day

B. Capacity of Storage Tank or Reservoir (specify unit and amount) 2,300

☐ Gallons ☑ Acre-feet

7. Quantity of Water Diverted Note; Measurements must be made using best available technologies and best professional practices as listed in Section 8a unless documentation is provided to the State Water Resources Control Board that the implementation of those practices is not locally cost effective.

Provide the quantity of water diverted each month in the table below as a measured in (check one box) ☐ Gallons ☐ Acre-feet

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
			PLEASE SEE ATTACHED DATA SHEET										

CONTINUE TO PAGE 2

S025267

 DIVERTER NAME Calaveras Public Utility District

SOURCE/TRIBUTARY South Fork of Mokelumne River DIVERSION WORKS NAME Jeff Davis Project

8. Measurement Device Description

Method used to measure water diverted (select one)

(●) Water directly diverted and/or diverted to storage was measured with a measuring device.
(if checked, proceed to section 8a and skip section 8b)

( ) Direct measurement using a device listed in Section 8a is not locally cost effective for water directly diverted and/or diverted to storage.
(If checked, skip section 8a and proceed to section 8b).

8a. Measuring Device

Indicate the types of measuring devices used (check all that apply):

- [x] Propeller Meter
- [ ] Sluice/Slide Gate
- [ ] Acoustic Meter
- [ ] Weir
- [ ] Staff gage and storage capacity curve
- [ ] Staff gage and floodable acreage
- [ ] Pressure transducer and storage capacity curve
- [ ] Other: _____

Indicate any additional technology used (check all that apply and explain below):

- [ ] Flow totalizer
- [ ] Data Logger
- [ ] Telemetry
- [ ] Other: _____

Indicate who installed your measuring device(s) (check all that apply):

- [ ] Representative using manufacturer's recommendations
- [ ] Representative who is American Water Works Association (AWWA)-certified
- [ ] Representative using United States Geological Survey (USGS) techniques
- [ ] Licensed Civil or Agricultural Engineer
- [ ] Hydrographer
- [x] Other/Unknown: Installed when pump constructed

List the make, model number, and last calibration date of your measuring device(s), if available:

8b. Explanation of why use of a measuring device is "not locally cost effective"

Indicate why you concluded that direct measurement using a device listed in Section 8a is not locally cost effective (check all that apply)

- [ ] Diversion is small or minimal in size
- [ ] Diversions are infrequent
- [ ] Ungauged Siphon
- [ ] No power at diversion point
- [ ] Other: _____

Indicate method(s) used as an alternative to direct measurement in order to complete this report (check all that apply)

- [ ] Electricity records dedicated to the pump
- [ ] Engine fuel use or hour meter records
- [ ] Power generation estimates
- [ ] Modeled/estimated flows
- [ ] Pipe/trajectory method
- [ ] Float and stopwatch
- [ ] Total facility electricity records minus estimated non-pump electricity
- [ ] Crop duty estimates/consumptive use estimates
- [ ] Other water duty estimates other than for crops
- [ ] Remote satellite imaging
- [ ] Bucket and stopwatch
- [ ] Other: _____

Explain your measurement alternatives:

9. Maximum Rate of Diversion (if available)

Provide the maximum rate of diversion achieved in each month as measured in (check one box) [ ] cfs [ ] gpm [ ] gpd

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
			Max pumping rate is not available because continuous data is not recorded.									

10. Recent Water Use

Provide the annual water use in recent years: [past 10 yrs]	Maximum 1734	[ ] Gallons	[x] Acre Feet
	Minimum 824	[ ] Gallons	[x] Acre Feet

11. Water Conservation Efforts (answer only sections applicable to your diversion)

Water Conservation: Are you currently employing any methods of water conservation? [ ] Yes [ ] No

If yes, describe any water conservation efforts in use:

Water Quality and Wastewater Reclamation: Are you now or have you been using reclaimed water from a wastewater treatment facility, desalination facility or water polluted by waste to a degree that unreasonably affects such water for other beneficial uses? [ ] Yes [x] No

Conjunctive use of surface water and groundwater: Are you using groundwater in lieu of surface water? [ ] Yes [x] No

END OF INITIAL STATEMENT FORM

Sign and Submit Form **Save Form (submit later)**

ATTACHMENT TO INITIAL STATEMENT OF WATER DIVERSION AND USE WITH SUPPLEMENTAL INFORMATION

The following supplemental information is provided to the standard form:

Item 6 – "List any related existing water rights, if applicable."

This pre-1914 water right is operated in coordination with CPUD's Permit No. 16338 to provide water for the Jeff Davis Project service area. Operations have been performed consistent with a 1970 agreement between CPUD and the East Bay Municipal Utility District (which is attached) and with term 7 of Permit No. 16338 (which cites the 1970 agreement). Under that agreement, EBMUD will not protest operations of the Jeff Davis Project if CPUD's pre-1914 water right to the South Fork of the Mokelumne River claimed in this Statement of Water Diversion and Use is only used for direct delivery (so that only diversions under Permit 16338 are stored in Jeff Davis Reservoir).

The 1970 agreement includes an operations study which illustrates the intended operation of the Jeff Davis Project at full build-out. The ultimate use of CPUD's pre-1914 right to the South Fork of the Mokelumne River is shown by that operations study to be as much as 4,704 acre-feet per year.

Calaveras Public Utility District
ITEM #7 (11/17/15)

		Original Report				Corrected Report			
Month	Year	Diverted and Bene. Use per Reports Thru 2008 (AF)	Diverted and/or Stored per Reports Since 2009 (AF)	Bene. Use per Reports Since 2009 (AF)		Diverted and Bene. Use per Reports Thru 2008 (AF)	Diverted and/or Stored per Reports Since 2009 (AF)	Bene. Use per Reports Since 2009 (AF)	
January	2005	58.3	NA	NA		63.7	NA	NA	
February	2005	46.0	NA	NA		58.2	NA	NA	
March	2005	49.1	NA	NA		63.1	NA	NA	
April	2005	52.2	NA	NA		73.9	NA	NA	
May	2005	61.4	NA	NA		91.0	NA	NA	
June	2005	113.5	NA	NA		115.4	NA	NA	
July	2005	171.9	NA	NA		190.3	NA	NA	
August	2005	190.3	NA	NA		189.7	NA	NA	
September	2005	156.5	NA	NA		145.6	NA	NA	
October	2005	113.5	NA	NA		109.5	NA	NA	
November	2005	82.9	NA	NA		95.3	NA	NA	
December	2005	52.2	NA	NA		61.4	NA	NA	
January	2006	55.2	NA	NA		58.3	NA	NA	
February	2006	55.2	NA	NA		53.1	NA	NA	
March	2006	55.2	NA	NA		56.8	NA	NA	
April	2006	61.4	NA	NA		291.8	NA	NA	
May	2006	116.6	NA	NA		113.1	NA	NA	
June	2006	178.0	NA	NA		176.7	NA	NA	
July	2006	211.8	NA	NA		202.2	NA	NA	
August	2006	190.3	NA	NA		156.9	NA	NA	
September	2006	159.6	NA	NA		164.2	NA	NA	
October	2006	113.5	NA	NA		115.2	NA	NA	
November	2006	70.6	NA	NA		66.3	NA	NA	
December	2006	70.6	NA	NA		69.9	NA	NA	
January	2007	0.0	NA	NA		73.9	NA	NA	
February	2007	0.0	NA	NA		52.0	NA	NA	
March	2007	141.2	NA	NA		74.5	NA	NA	
April	2007	297.7	NA	NA		83.1	NA	NA	

Calaveras Public Utility District
ITEM #7 (11/17/15)

May	2007	199.5	NA	NA		123.8	NA	NA
June	2007	242.4	NA	NA		193.2	NA	NA
July	2007	113.5	NA	NA		221.9	NA	NA
August	2007	0.0	NA	NA		223.0	NA	NA
September	2007	0.0	NA	NA		175.2	NA	NA
October	2007	257.8	NA	NA		113.5	NA	NA
November	2007	221.0	NA	NA		97.3	NA	NA
December	2007	174.9	NA	NA		76.9	NA	NA
January	2008	67.8	NA	NA		72.0	NA	NA
February	2008	63.2	NA	NA		67.7	NA	NA
March	2008	74.6	NA	NA		78.8	NA	NA
April	2008	106.5	NA	NA		110.7	NA	NA
May	2008	152.8	NA	NA		159.5	NA	NA
June	2008	181.4	NA	NA		187.3	NA	NA
July	2008	202.9	NA	NA		207.6	NA	NA
August	2008	205.6	NA	NA		211.7	NA	NA
September	2008	175.2	NA	NA		183.8	NA	NA
October	2008	138.7	NA	NA		147.8	NA	NA
November	2008	83.5	NA	NA		89.1	NA	NA
December	2008	82.6	NA	NA		89.1	NA	NA
January	2009	NA	85.9	85.9		NA	91.2	93.2
February	2009	NA	58.0	58.0		NA	41.6	63.1
March	2009	NA	70.6	70.6		NA	62.0	76.9
April	2009	NA	92.7	92.7		NA	94.5	98.5
May	2009	NA	132.6	132.6		NA	45.5	139.8
June	2009	NA	162.3	162.3		NA	13.6	171.7
July	2009	NA	212.4	212.4		NA	0.0	222.3
August	2009	NA	197.3	197.3		NA	0.0	206.6
September	2009	NA	173.1	173.1		NA	0.0	181.5
October	2009	NA	124.0	124.0		NA	0.0	132.0
November	2009	NA	77.3	77.3		NA	65.3	83.8
December	2009	NA	72.4	72.4		NA	51.0	78.9
January	2010	NA	117.2	61.4		NA	49.0	68.1
February	2010	NA	164.5	51.6		NA	102.4	62.1

March	2010	NA	93.0	61.4		NA	24.8	68.3	
April	2010	NA	0.0	63.8		NA	0.0	73.0	
May	2010	NA	42.4	76.4		NA	0.0	84.8	
June	2010	NA	159.0	134.1		NA	15.8	143.2	
July	2010	NA	212.1	192.4		NA	10.6	201.5	
August	2010	NA	205.9	184.1		NA	12.5	193.4	
September	2010	NA	112.3	151.9		NA	0.0	161.1	
October	2010	NA	120.6	107.7		NA	3.8	116.7	
November	2010	NA	75.5	67.2		NA	1.4	74.2	
December	2010	NA	0.0	42.0		NA	0.0	47.8	
January	2011	NA	66.0	61.4		NA	0.0	71.9	
February	2011	NA	13.2	51.3		NA	0.0	59.1	
March	2011	NA	0.0	58.9		NA	0.0	67.4	
April	2011	NA	0.0	63.8		NA	0.0	72.9	
May	2011	NA	0.0	97.6		NA	0.0	105.9	
June	2011	NA	0.0	121.5		NA	0.0	129.2	
July	2011	NA	191.8	176.5		NA	4.6	187.1	
August	2011	NA	219.1	185.7		NA	23.6	195.6	
September	2011	NA	197.3	166.9		NA	19.0	178.3	
October	2011	NA	49.1	103.7		NA	0.0	110.7	
November	2011	NA	54.6	76.4		NA	0.0	93.8	
December	2011	NA	65.1	103.7		NA	0.0	128.3	
January	2012	NA	161.7	74.3		NA	59.6	102.3	
February	2012	NA	58.9	64.8		NA	0.0	85.1	
March	2012	NA	0.0	62.3		NA	0.0	84.0	
April	2012	NA	127.4	66.6		NA	39.9	87.4	
May	2012	NA	203.2	122.4		NA	58.9	144.3	
June	2012	NA	93.0	168.5		NA	0.0	187.5	
July	2012	NA	0.0	204.4		NA	0.0	221.4	
August	2012	NA	0.0	209.3		NA	0.0	221.1	
September	2012	NA	0.0	170.0		NA	0.0	178.5	
October	2012	NA	33.8	133.2		NA	0.0	143.7	
November	2012	NA	106.5	82.2		NA	18.0	88.5	
December	2012	NA	147.6	73.0		NA	67.5	80.1	

January	2013	NA	91.1	67.2		NA	16.3	74.9	
February	2013	NA	159.0	60.5		NA	92.3	66.8	
March	2013	NA	191.5	77.6		NA	107.4	84.2	
April	2013	NA	181.7	89.0		NA	86.3	95.5	
May	2013	NA	165.1	149.8		NA	6.8	158.3	
June	2013	NA	142.1	174.9		NA	0.0	183.4	
July	2013	NA	58.3	210.8		NA	0.0	220.8	
August	2013	NA	0.0	194.6		NA	0.0	203.7	
September	2013	NA	0.0	158.0		NA	0.0	167.1	
October	2013	NA	0.0	139.0		NA	0.0	148.2	
November	2013	NA	74.9	102.2		NA	0.0	117.1	
December	2013	NA	0.0	94.2		NA	0.0	104.2	
January	2014	NA	185.4	80.4		NA	98.6	86.7	
February	2014	NA	185.1	50.0		NA	128.7	56.5	
March	2014	NA	473.8	67.5		NA	399.4	74.5	
April	2014	NA	631.9	73.0		NA	312.8	82.1	
May	2014	NA	271.9	111.4		NA	152.4	119.7	
June	2014	NA	70.6	143.3		NA	0.0	152.6	
July	2014	NA	0.0	156.5		NA	0.0	165.5	
August	2014	NA	0.0	138.1		NA	0.0	147.2	
September	2014	NA	0.0	114.5		NA	0.0	123.6	
October	2014	NA	0.0	99.1		NA	0.0	107.7	
November	2014	NA	24.6	66.3		NA	0.0	71.8	
December	2014	NA	73.0	59.2		NA	7.5	65.5	

Item #11 - Water Conservation Efforts

In CPUD's Enclosure 2 (entitled "Summary of Schaads Water Right, Response to SWRCB Information Request") to its "Further Response to Information Order No. 2015-0002-DWR" dated February 4, 2015, CPUD explained the early history and use of its water rights in the Middle Fork Mokelumne River and South Fork Mokelumne River. As explained there CPUD utilized an open ditch system which began with the Middle Fork Diversion located about 1 and ½ miles below Schaads Reservoir. This water traveled about 2 miles down the Licking Fork, and was then diverted into the South Fork Mokelumne River about 4 miles further downstream, where it was again diverted by the Mokelumne Hill Ditch, which sent it on to the major water service areas.

Water Rights Decision 858 indicated that the average annual diversions through Mokelumne Hill Ditch during this 23 year period of 1929-1952 were 6,000 acre feet and other publications like Bulletin 11 recognized a similar and somewhat higher history of usage.

In order to conserve water and improve the reliability, and efficiency of its water supply, CPUD designed, financed, and constructed a different diversion and delivery system, which finally went into operation in 1973, known as its Jeff Davis Project. Instead of utilizing an extensive open ditch system it built a pumping plant on the South Fork Mokelumne River, which pumps both pre and post 1914 CPUD rights to South Fork Mokelumne River water to Jeff Davis Reservoir. The water is treated there and delivered to customers. This existing closed system has resulted in the planned significant conservation savings and reliability improvements.

WB-DWR-Statements

From: Donna Leatherman <dleatherman@cpud.org>
Sent: Tuesday, November 17, 2015 3:16 PM
To: WB-DWR-Statements
Subject: filing of Initial Statement
Attachments: SWRCB.initialstatement 11.17.15.pdf

To Whom it may concern:
Please find attached Initial Statement of Diversion and use on behalf of the Calaveras Public Utility District, please feel free to contact if you have questions.

Sincerely,

Donna Leatherman, District Manager
Calaveras Public Utility District

Ms. Donna Leatherman
District Manager
Calaveras Public Utility District
P.O. Box 666
San Andreas, CA 95249
(209) 754-9442 Work
(209) 482-0568 Mobile
dleatherman@cpud.org

www.cpud.org

Mefferd, Danielle@Waterboards

From: Mefferd, Danielle@Waterboards
Sent: Thursday, November 19, 2015 2:15 PM
To: 'Donna Leatherman'
Subject: RE: CPUD Maps

Hello,
I have received your maps and am moving forward with processing your statement. Thank you for such a quick response! Have a great day! ☺

Danielle Mefferd
Division of Water Rights
State Water Resources Control Board
Phone: (916) 322-9251

From: Donna Leatherman [mailto:dleatherman@cpud.org]
Sent: Thursday, November 19, 2015 9:56 AM
To: Mefferd, Danielle@Waterboards
Subject: FW: CPUD Maps

Danielle:

Spelled your email address incorrect. Please confirmed that you have received this.

Thank you,
Donna Leatherman, District Manager
Calaveras PUD

From: Donna Leatherman [mailto:dleatherman@cpud.org]
Sent: Thursday, November 19, 2015 9:34 AM
To: 'danielle.medderd@waterboards.ca.gov'
Subject: CPUD Maps

Good morning Danielle:

Please find attached maps attachment to our Statement filed 11/17/15. Let me know if you need anything else.

Thank you,

Donna Leatherman

Ms. Donna Leatherman
District Manager
Calaveras Public Utility District
P.O. Box 666
San Andreas, CA 95249
(209) 754-9442 Work
(209) 482-0568 Mobile
dleatherman@cpud.org

www.cpud.org

3.1 Water Sources

Water sources available to the District include rights to the Middle Fork Mokelumne River and a diversion (pump station) off the South Fork Mokelumne River which feeds the Jeff Davis Reservoir and the existing District Treatment Plant. Figure 3 shows the locations of these resources and the connection from the existing South Fork Mokelumne River diversion to the existing service areas.

The District does not utilize ground water sources.

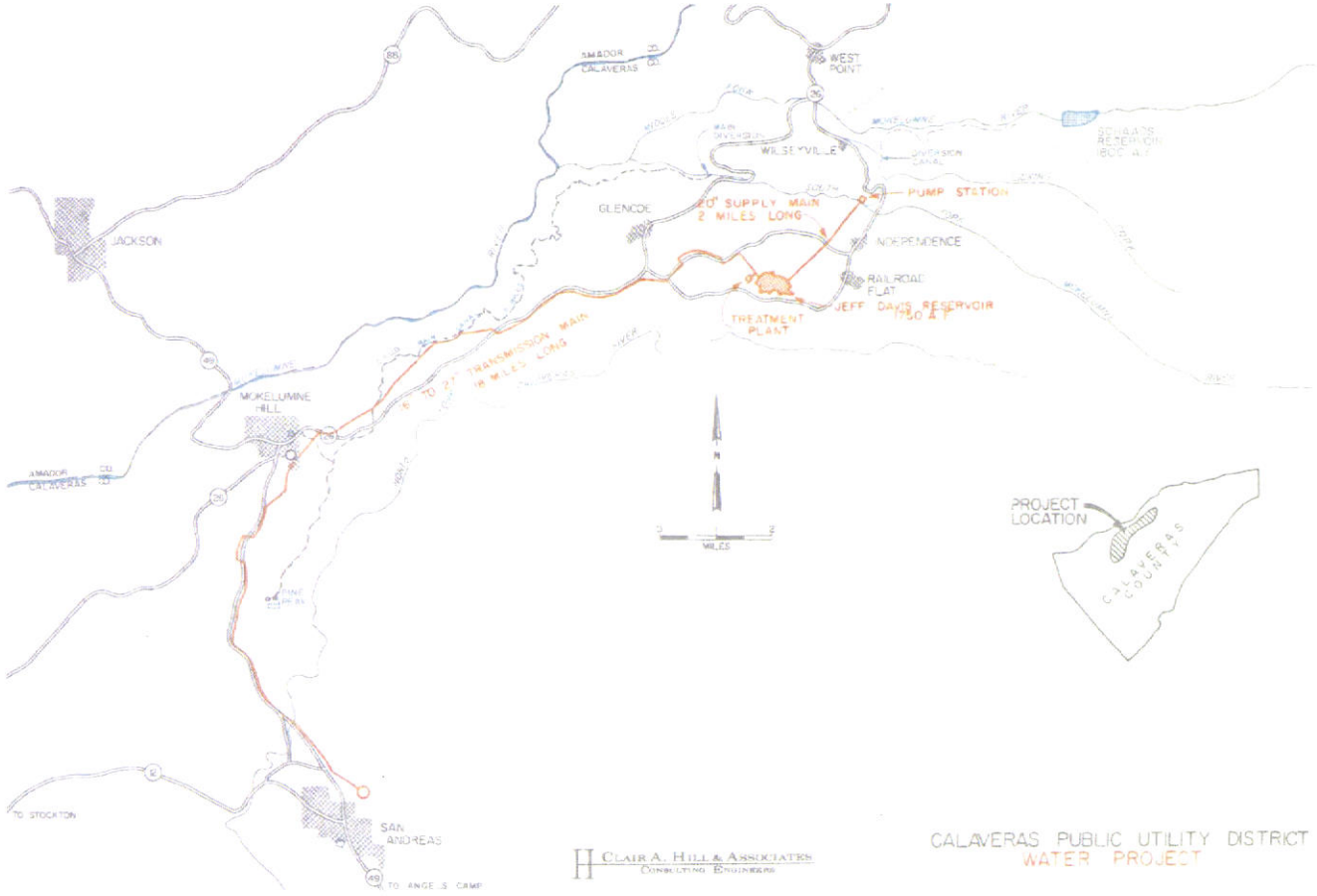


Figure 3: Water Source Location Map & Transmission Lines

Subsequent to issuance of Compliance Order No. 03_10_14R_004 dated October 17, 2014 by the SWRCB for which this report is being prepared, the District received Order WR 2015-0002-DWR dated February 4, 2015 in which holders of riparian or pre-1914 water rights must provide additional information on those rights. The District is actively working to compile the requested documentation, and supplemental information related to the District's source rights will be submitted under separate cover to address Order WR 2015-0002-DWR dated February 4, 2015. Findings to date are set forth in Appendices A and B of this study.

3.0 SERVICE AREA AND SYSTEM DESCRIPTIONS

Figure 2 below shows the District Boundary and Sphere of Influence as well as areas of anticipated development. No changes to the District's service area are proposed.

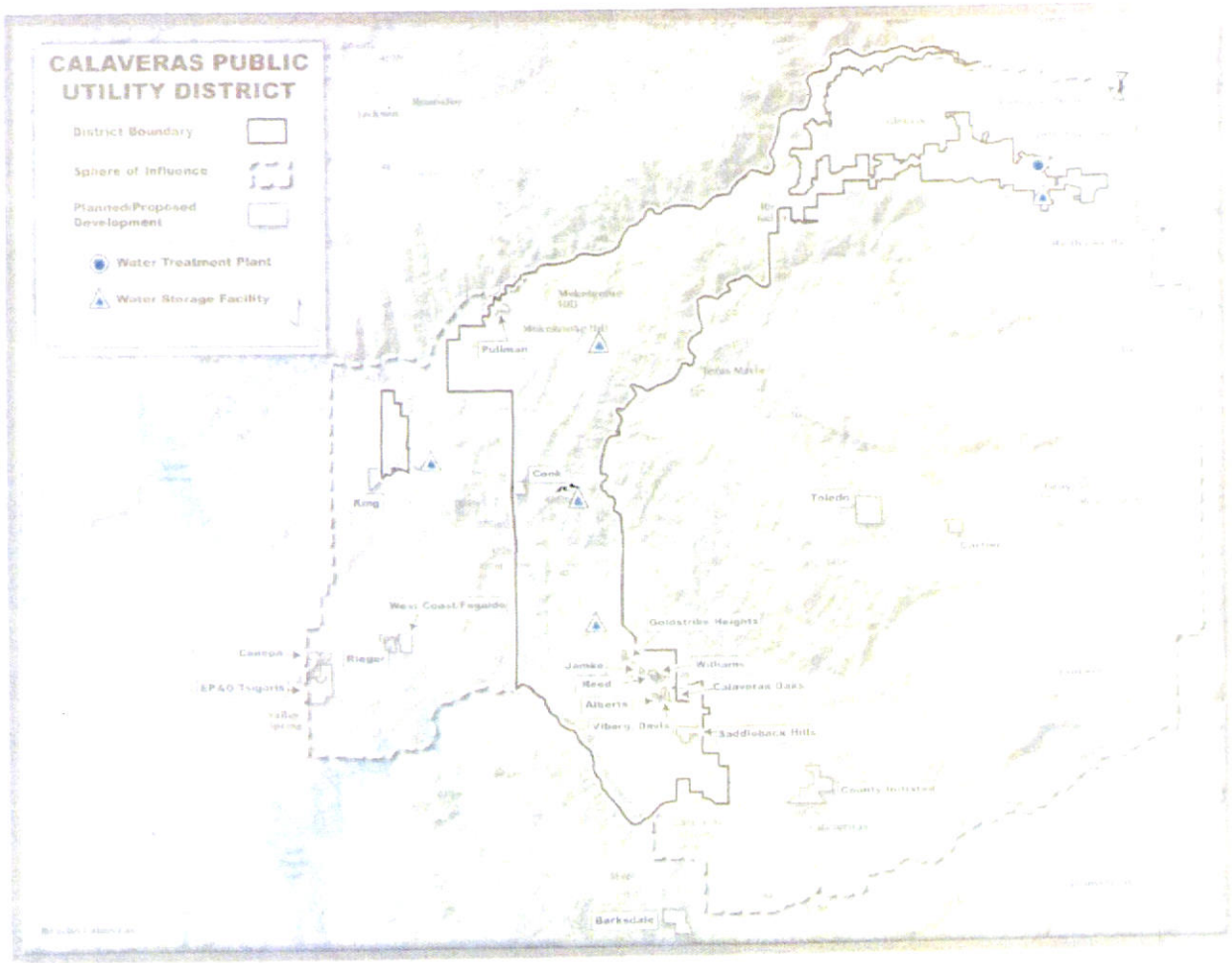


Figure 2: Calaveras Public Utility District Boundary and Sphere of Influence

Water Right Application A005648F (Permit 16338)

Middle Fork Mokelumne River, South Fork of Mokelumne River, Jeff Davis Project

STATE OF CALIFORNIA
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
STATE WATER RESOURCES CONTROL BOARD

DIVISION OF WATER RIGHTS

RIGHT TO DIVERT AND USE WATER

APPLICATION 5648F PERMIT 16338

Right Holder: Calaveras Public Utility District
P.O. Box 666
San Andreas, CA 95249

The State Water Resources Control Board (State Water Board) authorizes the diversion and use of water by the right holder in accordance with the limitations and conditions herein SUBJECT TO PRIOR RIGHTS. The priority of this right dates from **July 30, 1927**. This right is issued in accordance with the State Water Board delegation of authority to the Deputy Director for Water Rights (Resolution 2012-0029) and the Deputy Director for Water Rights redelegation of authority dated July 6, 2012. This right supercedes any previously issued right on **Application 5648F**.

The Deputy Director for Water Rights finds that: (a) due diligence has been exercised; (b) failure to comply with previous time requirements has been occasioned by obstacles which could not be reasonably avoided; and (c) satisfactory progress will be made if an extension is granted; and (d) the State Water Resources Control Board (State Water Board) has made the required findings pursuant to the California Environmental Quality Act (CEQA) or the project is exempt from CEQA.

The State Water Board has complied with its independent obligation to consider the effect of the proposed project on public trust resources and to protect those resources where feasible. (*National Audubon Society v. Superior Court* (1983) 33 Cal.3d 419 [189 Cal.Rptr. 346, 658 P.2d 709].)

Right holder is hereby granted a right to divert and use water as follows:

1. Source of water: **(1) Middle Fork Mokelumne River and (2) South Fork Mokelumne River**

tributary to: **(1) Mokelumne River, and (2) Middle Fork Mokelumne River**

within the County of **Calaveras**

2. Location of points of diversion

By California Coordinate System of 1983 in Zone 3	40-acre subdivision of public land survey or projection thereof	Section	Township	Range	Base and Meridian
(1) North 2,327,500 feet and East 6,573,869 feet	**NE ¼ of SW ¼**	**8**	**6N**	**14E**	**MD**
(2) North 2,319,000 feet and East 6,559,069 feet	**SE ¼ of NE ¼**	**23**	**6N**	**13E**	**MD**

Location of point of rediversion

By California Coordinate System of 1983 in Zone3	40-acre subdivision of public land survey or projection thereof	Section	Township	Range	Base and Meridian
Jeff Davis Reservoir: **North 2,315,388 feet and East 6,559,236 feet**	**NW ¼ of SW ¼**	**27**	**6N**	**13E**	**MD**

3. Purpose of use	4. Place of use					
	40-acre subdivision of public land survey or projection thereof	Section (Projected)*	Township	Range	Base and Meridian	Acres
Municipal, Domestic and Industrial	**Within the Present and Potential General Service Areas of Calaveras Public Utility District**		**4N, 5N, 6N**	**11E, 12E, 13E**	**MD**	
Incidental Power	**1) NW ¼ of NW ¼**	**36**	**6N**	**12E**	**MD**	
	2) NE ¼ of NE ¼	**4**	**5N**	**12E**	**MD**	
	3) NE ¼ of NE ¼	**24**	**5N**	**11E**	**MD**	

The place of use is shown on map #1 filed August 24, 1970 with the State Water Board, and on petition map filed October 26, 1977.

5. The water appropriated shall be limited to the quantity which can be beneficially used and shall not exceed **2,130 acre-feet per year** by storage to be collected from January 1 to December 31 of each year.
(0000005C)

6. The maximum rate of diversion to offstream storage shall not exceed **15 cubic feet per second**.
(0000005J)

7. The safe yield developed under this permit, together with all other prior rights of permittee, shall not exceed 6,656 acre-feet per year and shall be a part of the 27,000 acre-feet per annum reserved for use in Calaveras County pursuant to the release from priority of Applications 5647 and 5648 by the State Water Board to East Bay Municipal Utility District dated March 5, 1959, and as set forth in the agreements between Calaveras Public Utility District and East Bay Municipal Utility District dated May 8, 1940 and January 13, 1970.
(0430300)

8. Construction work and complete application of the water to the authorized use shall be prosecuted with reasonable diligence and completed by December 31, 2030.
(0000009)

9. In accordance with the requirements of Water Code Section 1393, permittee shall clear the site of the proposed reservoir of all structures, trees, and other vegetation, which would interfere with the use of the reservoir for water storage and recreational purposes.
(0120050A)

10. Before making any change in the project determined by the State Water Board to be substantial, permittee shall submit such change to the Board for its approval in compliance with Water Code Section 10504.5(a).

(0000119)

11. Permittee shall install measuring devices and report annually to the State Water Board the following:

A. Daily mean measurements of amounts diverted from the Middle Fork Mokelumne River.
B. Daily mean measurements of amounts diverted from the South Fork Mokelumne River.
C. Daily measurements of the contents of Jeff Davis Reservoir.

(0050300)

12. For the maintenance of fish life, permittee shall provide immediately below the proposed point of diversion on the South Fork of the Mokelumne River, which is immediately below the confluence of the Licking Fork Mokelumne River with the South Fork Mokelumne River, a flow of five cubic feet per second or the natural flow at that point on the South Fork Mokelumne River, whichever is less. During dry years, the flow to be provided immediately below the permittee's proposed point of diversion may be reduced by the permittee to three cubic feet per second or the natural flow, whichever is less. A dry year is hereby defined as one in which the April 1st forecast of runoff made by Department of Water Resources, or such other forecast as this Board may select, indicates the surface flow in the coming year will be fifty percent of normal runoff or less. The provisions of this permit term shall be subject to the continuing jurisdiction of the State Water Board, and the magnitude of these flows will be reconsidered by the Board in twenty years unless it is requested to reconsider this matter before that time by either the permittee or the Department of Fish and Wildlife (DFW).

The provisions of this permit term are based upon a bilateral agreement between permittee and DFW and shall not be construed as a finding by the State Water Board that the amount of water named herein is either adequate or required for the maintenance of fish life.

(0430400)

THIS RIGHT IS ALSO SUBJECT TO THE FOLLOWING TERMS AND CONDITIONS:

A. Right holder is on notice that: (1) failure to timely commence or complete construction work or beneficial use of water with due diligence, (2) cessation or partial cessation of beneficial use of water, or (3) failure to observe any of the terms or conditions of this right, may be cause for the State Water Board to consider revocation (including partial revocation) of this right. (Cal. Code Regs., tit. 23, § 850.)

(0000016)

B. Right holder is on notice that when the State Water Board determines that any person is violating, or threatening to violate, any term or condition of a right, the State Water Board may issue an order to that person to cease and desist from that violation. (Wat. Code, § 1831.)

(0000017)

C. Right holder is not authorized to make any modifications to the location of diversion facilities, place of use or purposes of use, or make other changes to the project that do not conform with the terms and conditions of this right, prior to submitting a change petition and obtaining approval of the State Water Board.

(0000018)

D. Once the time to develop beneficial use of water ends under this permit, right holder is not authorized to increase diversions prior to submitting a time extension petition and obtaining approval of the State Water Board.

(0000019)

E. Only the amount of water applied to beneficial use during the authorized diversion season, as determined by the State Water Board, shall be considered when issuing a license. (Wat. Code, § 1610.)

(0000006)

F. Right holder shall maintain records of the amount of water diverted and used under this right to enable the State Water Board to determine the amount of water that has been applied to beneficial use pursuant to Water Code section 1605.

(0000015)

G. Right holder shall promptly submit any reports, data, or other information that may reasonably be required by the State Water Board, including but not limited to documentation of water diversion and use under this right and documentation of compliance with the terms and conditions of this right.

(0000010)

H. No water shall be diverted under this right unless right holder is operating in accordance with a compliance plan, satisfactory to the Deputy Director for Water Rights. Said compliance plan shall specify how right holder will comply with the terms and conditions of this right. Right holder shall comply with all reporting requirements in accordance with the schedule contained in the compliance plan.

(0000070)

I. Right holder shall grant, or secure authorization through right holder's right of access to property owned by another party, the staff of the State Water Board, and any other authorized representatives of the State Water Board the following:

1. Entry upon property where water is being diverted, stored or used under a right issued by the State Water Board or where monitoring, samples and/or records must be collected under the conditions of this right;

2. Access to copy any records at reasonable times that are kept under the terms and conditions of a right or other order issued by State Water Board;

3. Access to inspect at reasonable times any project covered by a right issued by the State Water Board, equipment (including monitoring and control equipment), practices, or operations regulated by or required under this right; and,

4. Access to photograph, sample, measure, and monitor at reasonable times for the purpose of ensuring compliance with a right or other order issued by State Water Board, or as otherwise authorized by the Water Code.

(0000011)

J. This right shall not be construed as conferring right of access to any lands or facilities not owned by right holder.

(0000022)

K. All rights are issued subject to available flows. Inasmuch as the source contains treated wastewater, imported water from another stream system, or return flow from other projects, there is no guarantee that such supply will continue.

(0000025)

L. This right does not authorize diversion of water dedicated by other right holders under a senior right for purposes of preserving or enhancing wetlands, habitat, fish and wildlife resources, or recreation in, or on, the water. (Wat. Code, § 1707.) The Division of Water Rights maintains information about these dedications. It is right holders' responsibility to be aware of any dedications that may preclude diversion under this right.

(0000212)

M. No water shall be diverted or used under this right, and no construction related to such diversion shall commence, unless right holder has obtained and is in compliance with all necessary permits or other approvals required by other agencies. If an amended right is issued, no new facilities shall be utilized, nor shall the amount of water diverted or used increase beyond the maximum amount diverted or used during the previously authorized development schedule, unless right holder has obtained and is in compliance with all necessary requirements, including but not limited to the permits and approvals listed in this term.

Within 90 days of the issuance of this right or any subsequent amendment, right holder shall prepare and submit to the Division of Water Rights a list of, or provide information that shows proof of attempts to solicit information regarding the need for, permits or approvals that may be required for the project. At a minimum, right holder shall provide a list or other information pertaining to whether any of the following permits or approvals are required: (1) lake or streambed alteration agreement with the Department of Fish and Wildlife (Fish & G. Code, § 1600 et seq.); (2) Department of Water Resources, Division of Safety of Dams approval (Wat. Code, § 6002); (3) Regional Water Quality Control Board Waste Discharge Requirements (Wat. Code, § 13260 et seq.); (4) U.S. Army Corps of Engineers Clean Water Act section 404 permit (33 U.S.C. § 1344); and (5) local grading permits.

Right holder shall, within 30 days of issuance of any permits, approvals or waivers, transmit copies to the Division of Water Rights.

(0000203)

N. Urban water suppliers must comply with the Urban Water Management Planning Act (Wat. Code, § 10610 et seq.). An "urban water supplier" means a supplier, either publicly or privately owned, providing water

for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.

Agricultural water users and suppliers must comply with the Agricultural Water Management Planning Act (Act) (Water Code, § 10800 et seq.). Agricultural water users applying for a permit from the State Water Board are required to develop and implement water conservation plans in accordance with the Act. An "agricultural water supplier" means a supplier, either publicly or privately owned, supplying more than 50,000 acre-feet of water annually for agricultural purposes. An agricultural water supplier includes a supplier or contractor for water, regardless of the basis of right, which distributes or sells for ultimate resale to customers.

(0000029D)

O. Pursuant to Water Code sections 100 and 275 and the common law public trust doctrine, all rights and privileges under this right, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the State Water Board in accordance with law and in the interest of the public welfare to protect public trust uses and to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of said water.

The continuing authority of the State Water Board may be exercised by imposing specific requirements over and above those contained in this right with a view to eliminating waste of water and to meeting the reasonable water requirements of right holder without unreasonable draft on the source. Right holder may be required to implement a water conservation plan, features of which may include but not necessarily be limited to (1) reusing or reclaiming the water allocated; (2) using water reclaimed by another entity instead of all or part of the water allocated; (3) restricting diversions so as to eliminate agricultural tailwater or to reduce return flow; (4) suppressing evaporation losses from water surfaces; (5) controlling phreatophytic growth; and (6) installing, maintaining, and operating efficient water measuring devices to assure compliance with the quantity limitations of this right and to determine accurately water use as against reasonable water requirements for the authorized project. No action will be taken pursuant to this paragraph unless the State Water Board determines, after notice to affected parties and opportunity for hearing, that such specific requirements are physically and financially feasible and are appropriate to the particular situation.

The continuing authority of the State Water Board also may be exercised by imposing further limitations on the diversion and use of water by right holder in order to protect public trust uses. No action will be taken pursuant to this paragraph unless the State Water Board determines, after notice to affected parties and opportunity for hearing, that such action is consistent with California Constitution, article X, section 2; is consistent with the public interest; and is necessary to preserve or restore the uses protected by the public trust.

(0000012)

P. The quantity of water diverted under this right is subject to modification by the State Water Board if, after notice to right holder and an opportunity for hearing, the State Water Board finds that such modification is necessary to meet water quality objectives in water quality control plans which have been or hereafter may be established or modified pursuant to Division 7 of the Water Code. No action will be taken pursuant to this paragraph unless the State Water Board finds that (1) adequate waste discharge requirements have been prescribed and are in effect with respect to all waste discharges which have any substantial effect upon water quality in the area involved, and (2) the water quality objectives cannot be achieved solely through the control of waste discharges.

(0000013)

Q. This right does not authorize any act which results in the taking of a candidate, threatened or endangered species or any act which is now prohibited, or becomes prohibited in the future, under either the California

Endangered Species Act (Fish & G. Code, § 2050 et seq.) or the federal Endangered Species Act (16 U.S.C. § 1531 et seq.). If a "take" will result from any act authorized under this right, right holder shall obtain any required authorization for an incidental take prior to construction or operation of the project. Right holder shall be responsible for meeting all requirements of the applicable Endangered Species Act for the project authorized under this right.

(0000014)

Section 1392. Every permittee, if he accepts a permit, does so under the conditions precedent that no value whatsoever in excess of the actual amount paid to the State therefor shall at any time be assigned to or claimed for any permit granted or issued under the provisions of this division (of the Water Code), or for any rights granted or acquired under the provisions of this division (of the Water Code), in respect to the regulation by any competent public authority of the services or the price of the services to be rendered by any permittee or by the holder of any rights granted or acquired under the provisions of this division (of the Water Code) or in respect to any valuation for purposes of sale to or purchase, whether through condemnation proceedings or otherwise, by the State or any city, city and county, municipal water district, irrigation district, lighting district, or any political subdivision of the State, of the rights and property of any permittee, or the possessor of any rights granted, issued, or acquired under the provisions of this division (of the Water Code).

STATE WATER RESOURCES CONTROL BOARD

for James W. Kassel

Barbara Evoy, Deputy Director
Division of Water Rights

Dated: MAY 0 1 2013

ATTACHMENT B

July 11, 1967 Letter from George A. Huberty summarizing the CPUD Pre-1914 Water Rights

July 11th, 1967

TO THE BOARD OF DIRECTORS OF
CALAVERAS PUBLIC UTILITY DISTRICT:

Gentlemen:

The Calaveras Public Utility District was formed through a public election held upon January 16, 1934, and its Certificate of Formation was recorded upon January 19, 1934, in Book H of Miscellaneous Documents at Page 263. The District acquired certain water rights through the Deed from the Mokelumne River Power and Water Company which was recorded upon January 19, 1939, in Book 6 of Official Records at Page 194. Those water rights as set forth in the Deed are as follows:

1. Right to take 3000 miners inches to the main canal of the South Fork. In said Deed it stated that this right existed since 1852.

2. Right to divert 400 miners inches in Upper Rich Gulch.

3. Right to take 800 miners inches under 4 inch pressure from the Middle Fork of the Mokelumne to the Sandy Gulch Ditch.

4. The right to take water from Calaveras Flat and tributaries at McCarty Reservoir in Independence Township; this right to be 5000 miners inches or all water if necessary to fill the Reservoir.

5. The right to take 1500 miners inches of water under 4 inch pressure from the South Branch of the Calaveras and known as Bill Salmon Gulch.

6. The right to take 500 miners inches under 4 inch pressure from the Middle Fork of the Mokelumne and to divert it below Big Flat Gulch in Section 9, Township 6 North, Range 13 East.

7. The right to take 500 miners inches under 4 inch pressure from the "Little Mokelumne" --- which is part of the Calaveras River.

8. The right to take 2000 miners inches under 5 inch pressure from the South Branch of the Middle Fork of the Mokelumne River.

9. The right to take since 1858 storm waters from Humbug Gulch, Mosquitto Gulch, Leavitt Gulch, Nigger Gulch, Alabama Gulch and Cosgrove Creek. It would appear these Gulches all flow into the main canal leading from the South Fork of the Mokelumne to Mokelumne Hill.

HISTORY:

As stated above, the District acquired its water rights from the Mokelumne River Power and Water Company in 1939. The Mokelumne River Power and Water Company obtained the same water rights from the Mokelumne and Campo Seco Canal and Mining Company by Deed recorded January 25, 1908, in Book 52 of Deeds at Page 490. The Mokelumne and Campo Seco Canal and Mining Company obtained certain rights to store and divert water from the South Fork of the Mokelumne River from J. B. and Romaine Bayerque by Deed recorded on July 29, 1859, in Deed Book D at pages 633-35. In tracing the rights of the District at its South Fork diversion I find that an "A. Cadwalader" filed a mining claim and in it he stated that he would use water from the bed of the Mokelumne River for mining purposes by constructing a dam in the bed of the River. This mining claim is recorded March 21, 1853, in Book A of Mining Claims at Page 14. Book A contains the very first records of Calaveras County. I believe that this refers to the South Fork of the Mokelumne River because the same "Cadwalader" filed a mining claim in Book B of Mining Claims at Page 86 which

was recorded upon July 14, 1856, and in this Notice of Location of Mining Claim he recites that he will take water from the Licking Fork to operate his claim. Thereafter, a man by the name of John Andrews obtained judgments against the Mokelumne Canal and Mining Company and Alan Cadwalader upon July 8, 1857. J. B. Bayerque purchased these rights on March 13, 1858, and the Deed to these rights was recorded in Deed Book W on June 1, 1874 at Page 460, et seq. It was J. B. and Romaine Bayerque who conveyed the certain water rights to Mokelumne and Campo Seco Canal and Mining Company. Our rights to divert water from the Middle Fork of the Mokelumne date back to instruments recorded in 1877, 1878, 1888, and 1899 through Deeds recorded in Book 1 of Deeds at Page 104, Book 1 of Deeds at Page 363, Book 16 of Deeds at Page 460, and Book 16 of Deeds at Page 539, respectively. The first two Deeds grant rights to divert water from the South Bank of the Middle Fork to the Sandy Gulch or Harris Ditch to Sandy Gulch and vicinity. The second two Deeds grant rights to dam water on the Middle Fork and to divert water through a ditch on the South Bank of the Middle Fork.

The water rights in the Calaveras River Watershed at McCarty's Reservoir date back to 1878, 1879, and 1880. The first Deed granted a right to the District's predecessor in interest from a David McCarty to take water out of the Calaveras River through a water ditch in Independence Township two miles South of Railroad Flat opposite his house and then convey it to Nelson's Gulch through the Jerome Ditch. This right granted in 1878 was not recorded until October 19, 1865, in Book 12 of Deeds at Page 307. McCarty again conveyed in 1879 to the District's predecessor in interest an easement for a reservoir and ditch in the Southeast Quarter of Section 36, Township 6 North, Range 13 East, together with the right to take water from the North Fork of the Calaveras into said reservoir and thence to divert out of said reservoir

to the Jerome Ditch. W. V. Clark and Dora E. Clark conveyed in 1880 the right to take water through a ditch from the North Fork of the Calaveras to the junction of Indian Gulch with Two Dollar Gulch. This Deed is recorded in Book 4 of Deeds at Page 363.

The water rights in Upper Rich Gulch which were obtained by Deed to the District seemed to come from a mining claim located February 8, 1875, in Book B of Mining Claims at Page 216. These were conveyed by S. L. Prindle in 1875 by Deed recorded February 12, 1875, in Deed Book X at Page 270 to the District's predecessor in interest and include a ditch and reservoir bringing water from the Calaveras River, Cedar Creek, and Alabama Gulch into Rich Gulch Flat.

It would appear that these are the most important documents concerning the historical origin of the water rights of this District, with the exception of our Agreement entered upon May 8, 1940, with East Bay and recorded upon August 16, 1940, in Book 14 of Official Records at Page 230. By that Agreement the District and East Bay agreed that the District should have prior rights to divert from the South Fork as augmented by the Middle and Licking Forks of the Mokelumne 12-1/2 cfs., together with the right to store 1800 acre feet on the Middle Fork and to release this water from storage when necessary, but not to divert at any time to the South Fork Ditch from natural flow and storage an amount to exceed 15 cfs. All other rights of the District are subordinate to East Bay's rights --- so the Agreement states.

Therefore, the District has water rights in the following streams:

1. The Middle Fork of the Mokelumne;
2. The South Fork of the Mokelumne and its tributaries;
3. The North Fork of the Calaveras; and
4. To certain storm waters that flow in the various

gulches into the main canal leading from the South Fork of the Mokelumne; these gulches as set forth in Paragraph No. 9 above.

EXTENT OF WATER RIGHTS:

The extent of our water rights on the Mokelumne River is, in my opinion, limited by our Agreement with East Bay. To my recollection, the District has never in its history diverted over 7,000 acre feet per annum but since our water rights are municipal in character, they would not, in my opinion, be limited to that 7,000 acre feet figure but would have the magnitude as set forth in our Agreement with East Bay. State Officials also have seemed inclined to consider the extent of our water right to be the amount set forth in our Agreement with East Bay; that is, the right to divert approximately 9,125 acre feet of water from the Middle Fork, Licking Fork, and the South Fork, together with the right to store and release 1,800 acre feet of water on the Middle Fork. I have also been told by Officials of East Bay that they consider the rights of the District to be the oldest rights on the Mokelumne River and since East Bay is in privity with the Calaveras Public Utility District through the Agreement of 1940, East Bay certainly could not contest the extent of our rights as set forth therein. Therefore, it is my opinion the District has the first priority of water in the Middle Fork and South Fork of the Mokelumne River, together with tributaries thereof above the point of diversion to the water rights, and storage rights as mentioned in the East Bay Agreement.

As to the water rights in the gulches which run into our South Fork canal, I have no way of estimating the magnitude of these rights which rise during storm water times. I am told by the Manager of the District that these rights are valuable and used to supply water to Mokelumne Hill and San Andreas during the

periods of high rain fall in that it allows the Manager to completely close off the diversion works of the main canal in the South Fork. The storm waters flowing into the main canal are sufficient to provide for the entire needs of our service area and allow the District to repair parts of its main canal as need be and also these gulches allow the closing of the diversion works on the South Fork in order to protect those diversion works and the ditch adjacent thereto from storm damage. The Manager estimates that the District is served 300 acre feet per annum from these gulches in the winter time. In fact, from our own records, it shows that at times during the winter as you get closer to Mokelumne Hill there is more water flowing in the main canal than there is up stream in the main canal near the point of diversion. As to our water rights on the North Fork of the Calaveras, it would be my opinion that we have the right to store in McCarty Reservoir 400 acre feet, which is its capacity, with the understanding that the owner of the underlying fee would have the right to the first 50 acre feet stored therein. Our storage right is based upon an easement to flood and in that grant of easement we are also given the right to raise the Reservoir an additional 10 feet which could, in the opinion of the Manager, triple the amount of storage in this Reservoir. It would be questionable, in my opinion, whether or not the District could legally be said to have the present right to do this. I think, in order to do this, an application would be required to the State Water Rights Board before any water right could be obtained. Our right as to direct diversion from the "Little Mokelumne" to McCarty Reservoir, in my opinion, has been lost through abandonment over a long period of years and, therefore, our only water rights for diversion to storage would be from those occasional storms and storm waters which flow into McCarty Reservoir from the Watershed surrounding it. It would

be difficult for me to estimate the magnitude of those direct diversion rights but I am of the opinion that we would have the right with the exception of the first 50 feet to divert from McCarty Reservoir for either a domestic or agricultural purpose all the water that flows into it and that we could divert this water either down the Calaveras River Watershed or into the Mokelumne River Watershed. Further, I think that the extent of this water right should be generously estimated by our Manager, along with a generous estimation of our storm water rights in the gulches that flow into the main canal and that these estimates, together with our water rights on the Mokelumne should be listed in our inventory which is to be filed with the State of California.

I have attached hereto certain documents showing recordations of instruments to and from the District and certain documents in the chain of title. These are attached merely for your information and as a matter of history. It appears that the District's predecessors in interest served water into the Paloma, Valley Springs and Campo Seco area, as well as into the Mokelumne Hill, Chili Gulch and Pine Peak areas.

Very truly yours,

GEORGE A. HUBERTY

GAH:jch

Encls.

ATTACHMENT C

June 12, 1984 Letter from State of California Resources Agency Listing Operational Conditions for the Middle Fork Dam Project (FERC 7506)

Resources Building
1416 Ninth Street
95814

(916) 445-5656

GEORGE DEUKMEJIAN
GOVERNOR OF
CALIFORNIA

R-2

artment of Conservation
artment of Fish and Game
artment of Forestry
artment of Boating and Waterways
artment of Parks and Recreation
artment of Water Resources

THE RESOURCES AGENCY OF CALIFORNIA
SACRAMENTO, CALIFORNIA

Air Resources Board
California Coastal Commission
California Conservation Corps
Colorado River Board
Energy Resources Conservation and Development Commission
Regional Water Quality Control Boards
San Francisco Bay Conservation and Development Commission
Solid Waste Management Board
State Coastal Conservancy
State Lands Commission
State Reclamation Board
State Water Resources Control Board

CAL:EPA:pu:ds
S.R. CPUD M.F. Mokelumne
Schaads Res Hydro
FERC 7506

June 12, 1984

Mr. Kenneth F. Plumb, Secretary
Federal Energy Regulatory Commission
825 North Capitol Street, N.E.
Washington, D.C. 20426

COMMENT--FERC 7506
Calaveras P.U.D.

Dear Mr. Plumb:

The State has reviewed the Notice of Application, CPUD Middle Fork Dam Project, Calaveras County, submitted through the Office of Planning and Research. Review was coordinated with the Energy and Public Utilities Commissions, Reclamation and Water Resources Control Boards, and Departments of Boating and Waterways, Fish and Game, Conservation, Forestry, Parks and Recreation, Water Resources, and Transportation.

The Department of Fish and Game (DFG) will not object to issuance of a FERC exemption, if the following are made exemption conditions:

1. The exemptee will begin a water temperature and dissolved oxygen monitoring program (to last at least two years) in Schaads Reservoir immediately after project startup to determine if the project adversely affects water quality. If such is found to be the case, DFG will make recommendations to resolve the problem.

2. Turbine startup and shutdown rate will not exceed 30 percent of the total turbine flow per hour, in order to reduce the chance of stranding fish in the Middle Fork Mokelumne River.

3. The reservoir level will not be drawn down more than 10 feet during power production operations.

4. The exemptee will continue the existing 3 cfs streamflow release requirement to protect the river's fishery resource.

5. The exemptee will have a competent consultant conduct a survey in spring of 1984 to determine if the project would adversely affect any rare or endangered plant species. The exemptee will modify the project, to the satisfaction of DFG, to eliminate any adverse impacts to rare or endangered species.

6. Transmission lines will be constructed and designed so that they are not a hazard to raptors. (See Suggested Practices for Raptor Protection on Powerlines; Raptor Research Foundation, Inc., Brigham Young University, Provo, Utah.)

7. All areas denuded by project construction will be reseeded with native plant species valuable to wildlife. Denuded slopes will be covered with mulch or protected by another reseeding technique assoon as is practicable after work at the site, but by October 15 in any case. Slope protection will be repeated as often as necessary to ensure erosion prevention.

8. The exemptee will notify DFG and enter into a Streambed Alteration Agreement with the Department before beginning project construction, pursuant to Section 1601 of the Fish and Game Code.

9. The exemptee will permit access without prior notification for the life of the project to agents of DFG, U.S. Fish and Wildlife Service, and U.S. Forest Service in order to ensure proper incorporation and operation of fish and wildlife protective measures.

10. The exemptee will implement remedial actions or measures found necessary by DFG to protect, maintain, or restore fish or wildlife resources that failure to comply with the above terms may cause.

11. The exemptee will operate and maintain the project in compliance with the above terms and conditions as long as he retains an interest in the project, regardless of whether it operates under an exemption, license, or other FERC regulatory program.

12. The exemptee will incorporate the above terms and conditions into and sale, lease, conveyance, or entitlement use of interests so as to assure legal compliance with said terms and conditions for as long as the project generates power.

13. The exemptee will be responsible for all expenses relating to his obligations pursuant to items 1 through 12 above.

14. The exemptee will post and maintain, for the life of the project, a $50,000 performance bond for payment of penalties to DFG for violating any of the above conditions. Rates will be as follows:

    a. For Condition 4---a payment of $1 per kilowatt of maximum generation capacity for each day or partial day of occurrence. For example, a project rated at 230 kW maximum generating capacity would be assessed a $230 penalty for each occurrence.

    b. For any other condition--a payment at the rate of $1 per kilowatt of maximum generation capacity for each occurrence.

    c. All monetary figures above are based upon 1984 values and will be adjusted annually for inflation.

Questions regarding DFG's comments may be directed to Paul Jensen, Regional Manager, 1701 Nimbus Road, Rancho Cordova, CA 95670.

The State Water Resources Control Board has informed the applicant that: (1) a water right may have to be established for this project, and that he should therefore contact the Board's Division of Water Rights for information, and (2) certain types of information must be submitted in the project's environmental documentation to meet CEQA requirements before a water rights permit may be issued.

The Department of Parks and Recreation, Office of Historic Preservation, is unable to give final clearance to this project. When the applicant can determine the finalized Area of Potential Environmental Impact for the corridor for the Middle Fork Ditch Hydro Project and can submit documentation that this portion of the project does not contain cultural resources, the Office of Historic Preservation will be able to complete its review.

Sincerely,

Gordon F. Snow, Ph.D
Assistant Secretary for Resources

cc: Mr. Fred E. Springer, Chief
Applications Branch, FERC

Office of Planning and Research
1400 Tenth Street
Sacramento, CA 95814

(SCH 84032501)

R-2

ATTACHMENT D

April 1, 2021 Bulletin 120 for Water Year Type Determination

Bulletin 120

Department of Water Resources California Cooperative Snow Surveys

Water Conditions in California

April 1, 2021

Summary of Water Conditions

April 1, 2021

March continued the dry pattern of the current water year. Statewide precipitation was about 55 percent of average for the month and for the season since October 1. We are past the bulk of the rainy season and significant changes in water year amounts are not likely.

Forecasts of median April through July runoff are about 50 percent of average compared to 55 percent in last year's April 1 forecast. Last year's runoff was about 55 percent of average.

Snowpack water content is about 60 percent of average, slightly more than the 50 percent last year at this time. The percentages range from 70 percent in the northern Sierra Nevada to 35 percent in the southern Sierra Nevada.

Precipitation from October through March has been about 55 percent statewide, somewhat drier than the 65 percent reported last year at this time. The season has been drier in the south than in the northern regions.

Runoff was 30 percent of average for March and for the water year so far, less than the 40 percent reported last year through March. Estimated runoff of the eight major rivers of the Sacramento-San Joaquin Delta region in march was 1.07 million acre-feet.

Reservoir storage is about 75 percent of average for this date compared to 100 percent last year on April 1.

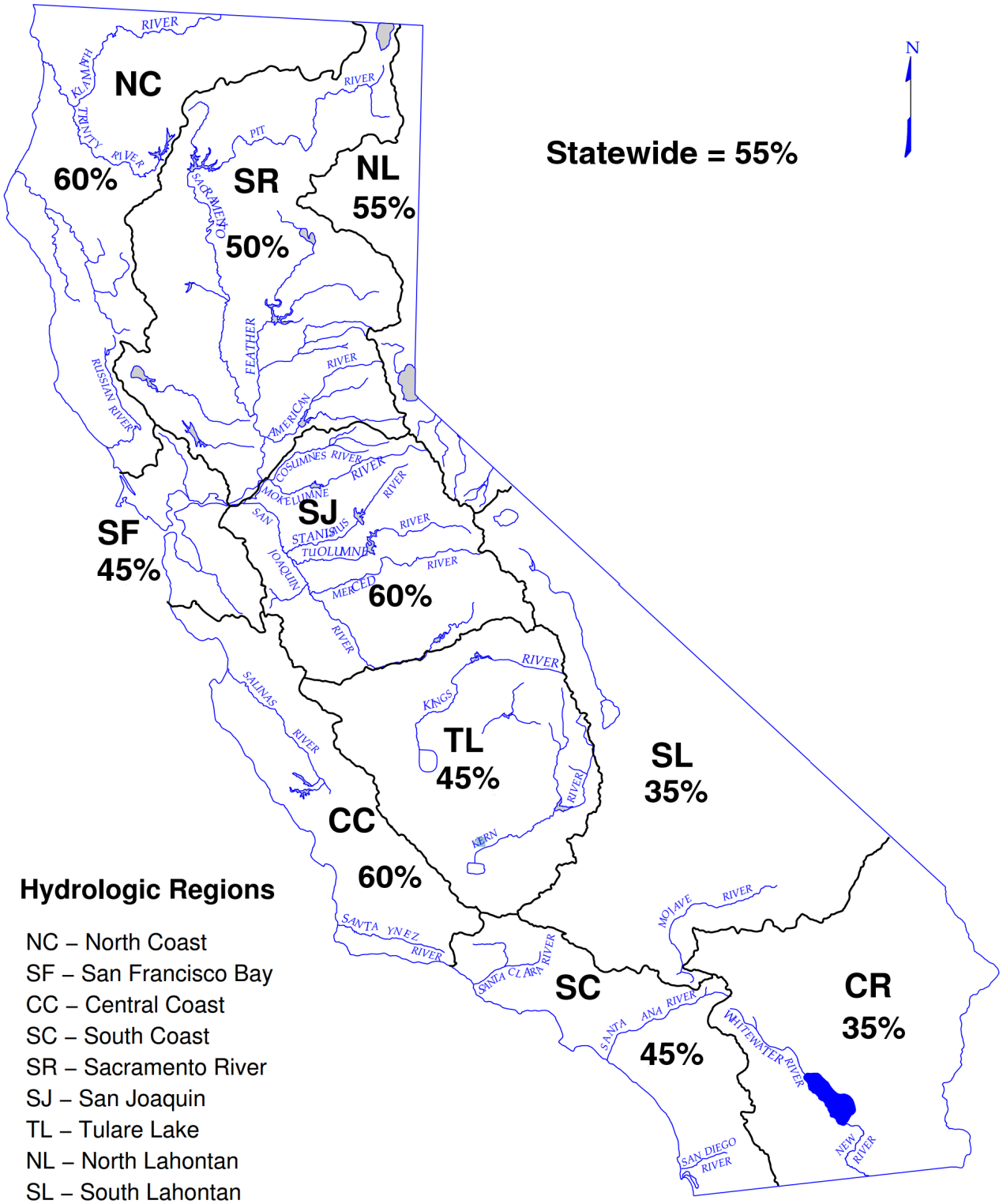
SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

HYDROLOGIC REGION	PRECIPITATION OCTOBER 1 TO DATE	APRIL 1 SNOW WATER CONTENT	APRIL 1 RESERVOIR STORAGE	RUNOFF OCTOBER 1 TO DATE	APRIL-JULY RUNOFF FORECAST	WATER YEAR RUNOFF FORECAST
NORTH COAST	60	70	65	35	55	40
SAN FRANCISCO BAY	45	--	75	5	--	--
CENTRAL COAST	60	--	55	40	--	--
SOUTH COAST	45	--	85	10	--	--
SACRAMENTO RIVER	50	75	70	35	60	45
SAN JOAQUIN RIVER	60	60	85	25	50	40
TULARE LAKE	45	35	55	25	30	30
NORTH LAHONTAN	55	60	75	40	50	45
SOUTH LAHONTAN	35	50	100	65	50	55
COLORADO RIVER	35	--	--	--	--	--
STATEWIDE	55	60	75	30	50	40

DEPARTMENT OF WATER RESOURCES
CALIFORNIA COOPERATIVE SNOW SURVEYS
SEASONAL PRECIPITATION

IN PERCENT OF AVERAGE TO DATE

October 1, 2020 through March 31, 2021

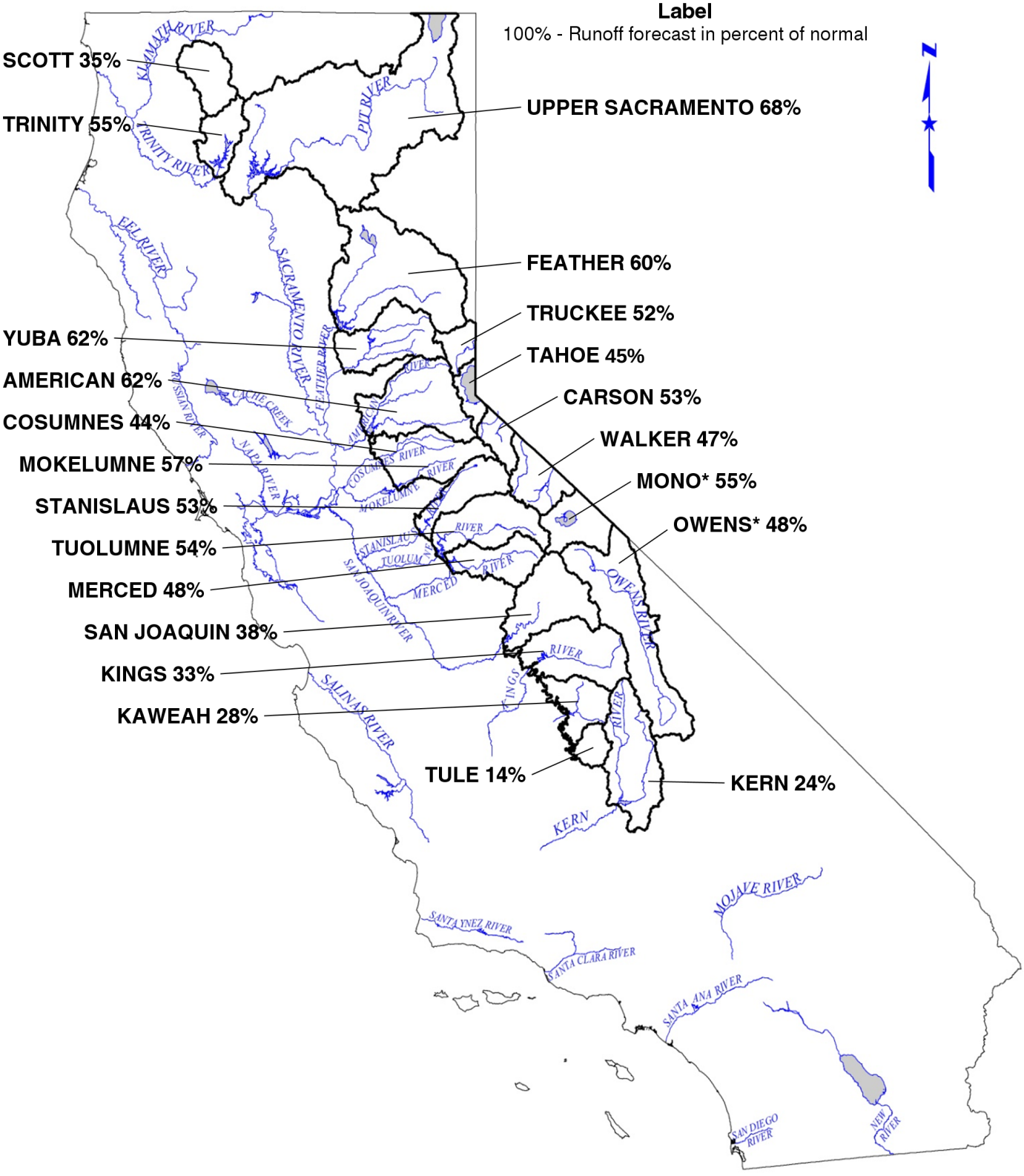


Hydrologic Regions

NC – North Coast
SF – San Francisco Bay
CC – Central Coast
SC – South Coast
SR – Sacramento River
SJ – San Joaquin
TL – Tulare Lake
NL – North Lahontan
SL – South Lahontan
CR – Colorado River–Desert

WATER YEAR IS OCTOBER 1 THROUGH SEPTEMBER 30

DEPARTMENT OF WATER RESOURCES
CALIFORNIA COOPERATIVE SNOW SURVEYS
FORECAST OF APRIL-JULY
UNIMPAIRED SNOWMELT RUNOFF
April 1, 2021



* FORECAST BY DEPARTMENT OF WATER AND POWER, CITY OF LOS ANGELES

April 1, 2021 FORECASTS
APRIL-JULY UNIMPAIRED RUNOFF

HYDROLOGIC REGION and Watershed	Apr-Jul Unimpaired Runoff in 1,000 Acre-Feet (1) HISTORICAL 50 Yr Avg (2)	Max of Record (13)	Min of Record (13)	FORECAST Apr-Jul Forecast	Pct of Avg	80% Probability Range (1)
North Coast						
Trinity River at Lewiston Lake	639	1,593	80	**350**	55%	240 - 500
SACRAMENTO RIVER						
Upper Sacramento River						
Sacramento River at Delta above Shasta Lake	295	751	39	190	64%	
McCloud River above Shasta Lake	385	850	185	270	70%	
Pit River near Montgomery Creek + Squaw Creek	1,020	2,098	480	700	69%	
Total Inflow to Shasta Lake	1,756	3,525	711	**1,190**	68%	990 - 1,460
Sacramento River above Bend Bridge, near Red Bluff	2,421	5,117	943	**1,520**	63%	1,210 - 1,930
Feather River						
Feather River at Lake Almanor near Prattville (3)	241	640	77	145	60%	
North Fork at Pulga (4)	842	2,291	187	500	59%	
Feather River at Oroville	1,704	4,676	378	**1,020**	60%	660 - 1,380
Yuba River						
North Yuba below Goodyears Bar (5)	271	612	40	170	63%	
Canyon Creek below Bowman Lake (5)	103	177	36	63	61%	
South Yuba at Langs Crossing (6)	237	559	48	145	61%	
Yuba River near Smartsville plus Deer Creek	968	2,424	151	**600**	62%	360 - 840
American River						
North Fork at North Fork Dam (7)	240	562	40	150	63%	
Silver Creek below Camino Diversion Dam (8)	157	390	31	95	61%	
American River below Folsom Lake	1,199	3,074	185	**740**	62%	530 - 1,040
SAN JOAQUIN RIVER						
Cosumnes River at Michigan Bar	125	446	8	**55**	44%	35 - 90
Mokelumne River						
South Fork near West Point (5)	40	143	3	23	57%	
Total Inflow to Pardee Reservoir	457	1,076	75	**260**	57%	170 - 360
Stanislaus River						
Middle Fork below Beardsley Dam (8)	297	680	84	160	54%	
North Fork Inflow to McKays Point Dam (9)	197	462	30	105	53%	
Stanislaus River below Goodwin Reservoir (12)	682	1,710	116	**360**	53%	230 - 550
Tuolumne River						
Cherry Creek below Dion Power Plant (5)	317	672	64	170	54%	
Tuolumne River near Hetch Hetchy (4)	587	1,203	180	320	55%	
Tuolumne River below La Grange Reservoir (12)	1,193	2,682	301	**650**	54%	470 - 940
Merced River						
Merced River at Pohono Bridge (5)	369	820	75	175	47%	
Merced River below Merced Falls (12)	623	1,588	104	**300**	48%	190 - 460
San Joaquin River						
Big Creek below Huntington Lake (10)	97	211	4	38	39%	
South Fork near Florence Lake (11)	188	377	55	72	38%	
San Joaquin River inflow to Millerton Lake	1,228	3,355	193	**470**	38%	270 - 700
TULARE LAKE						
Kings River						
Kings River below Dinkey Creek (14)	395	932	44	130	33%	
Kings River below Pine Flat Reservoir	1,210	3,113	208	**400**	33%	230 - 580
Kaweah River below Terminus Reservoir	285	814	42	**80**	28%	35 - 130
Tule River below Lake Success	63	259	1	**9**	14%	3 - 25
Kern River						
Kern River near Kernville (11)	379	1,088	57	90	24%	
Kern River inflow to Lake Isabella	458	1,657	57	**110**	24%	60 - 180

(1) See inside the back cover for definition.
(2) All 50 year averages are based on years 1966-2015 unless otherwise noted.
(3) Apr-Jul average, min, max based on years 1981-2015.
(4) Apr-Jul average, min, max based on years 1968-2015.
(5) Apr-Jul average, min, max based on years 1966-2015.
(6) Apr-Jul average, min, max based on years 1981-2015.
(7) Apr-Jul average, min, max based on years 1972-2015.
(8) Apr-Jul average, min, max based on years 1987-2015.
(9) Apr-Jul average, min, max based on years 1989-2015.
(10) Apr-Jul average, min, max based on years 1988-2015.
(11) Apr-Jul average, min, max based on years 1976-2015.

April 1, 2021 FORECASTS
WATER YEAR UNIMPAIRED RUNOFF

Water Year Unimpaired Runoff in 1,000 Acre-Feet (1)

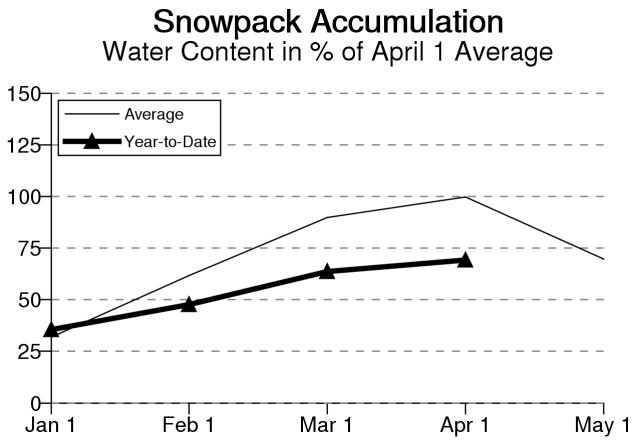
HISTORICAL			DISTRIBUTION									FORECAST			
50 Yr Avg (2)	Max of Record (15)	Min of Record (15)	Oct Thru Jan	Feb *	Mar *	Apr	May	Jun	Jul	Aug	Sep	Water Year Forecast	Pct of Avg	80% Probability Range (1)	
1,348	2,990	200	67	52	51	142	144	50	14	6	3	**530**	39%	415 -	685
860	1,966	165	61	40	39	87	63	26	14	10	10	350	41%	- -	-
1,183	2,353	557	226	65	73	88	72	58	52	47	44	725	61%	- -	-
3,002	5,150	1,484	549	157	185	220	190	160	130	114	111	1,815	60%	- -	-
5,831	10,796	2,479	823	282	333	435	335	230	190	178	174	**2,980**	51%	2,720 -	3,330
8,544	17,180	3,294	1,162	445	437	555	425	300	240	205	201	**3,970**	46%	3,575 -	4,490
610	1,194	329													
2,122	4,741	570													
4,407	10,178	995	394	202	214	410	350	160	100	80	71	**1,980**	45%	1,565 -	2,395
544	1,133	102													
242	368	75													
379	733	176													
2,268	5,604	369	136	79	96	245	250	80	25	12	12	**935**	41%	685 -	1,185
580	1,356	66													
301	681	105													
2,626	7,391	349	112	110	128	305	300	115	20	6	5	**1,100**	42%	885 -	1,405
379	1,253	20	18	15	20	30	19	5	1	0	0	**108**	29%	85 -	145
107	349	8													
748	1,901	129	19	18	26	95	125	35	5	1	1	**325**	43%	230 -	430
416	937	144													
301	645	100													
1,149	3,078	155	49	29	44	130	160	58	12	3	1	**485**	42%	355 -	680
497	1,041	70													
749	1,645	206													
1,909	4,631	383	38	39	69	192	303	135	20	7	3	**805**	42%	620 -	1,105
469	1,062	92													
992	2,787	150	25	16	26	98	135	55	12	1	1	**370**	37%	255 -	535
164	356	11													
236	507	71													
1,793	4,642	327	56	38	58	130	200	110	30	13	5	**640**	36%	430 -	880
545	1,309	104													
1,702	4,287	359	40	23	34	110	180	85	25	10	7	**513**	30%	335 -	705
451	1,402	89	11	7	10	25	35	17	3	1	1	**110**	24%	60 -	165
147	615	10	7	4	5	5	3	1	0	0	0	**25**	17%	15 -	45
574	1,639	120													
728	2,318	130	46	15	17	31	41	24	14	10	7	**205**	28%	145 -	290

(12) Forecast point names based on USGS gage names. Stanislaus below Goodwin also known as inflow to New Melones, Tuolumne River below La Grange also known as inflow to Don Pedro, Merced River below Merced Falls also known as inflow to McClure.
(13) For the tributaries, the max and min values were determined using the same period of record as the Apr-Jul values.
(14) Apr-Jul average, min, max based on years 1970-2015.
(15) For tributaries, the average, min and max values may not be calculated over the same period as the Apr-Jul values.
* Unimpaired runoff in months prior to forecast date are based on measured flows.

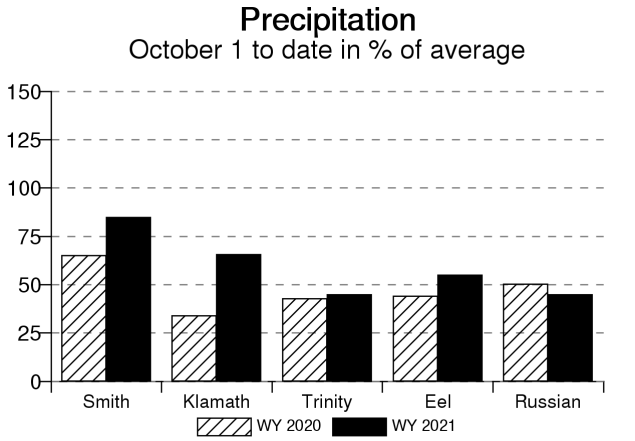
April 1, 2021 FORECASTS
APRIL-JULY UNIMPAIRED RUNOFF

HYDROLOGIC REGION and Watershed	Apr-Jul Unimpaired Runoff in 1,000 Acre-Feet (1) HISTORICAL			FORECAST	
	50 Yr Avg (2)	Max of Record (6)	Min of Record (6)	Apr-Jul Forecast	Pct of Avg
NORTH COAST					
Scott River					
Scott River nr Ft Jones (3)	173	398	22	**61**	35%
Klamath River					
Total inflow to Upper Klamath Lake (4)	475	1,150	149	**280**	59%
NORTH LAHONTAN					
Truckee River					
Lake Tahoe to Farad accretions	250	713	48	**130**	52%
Lake Tahoe Rise (assuming gates closed, ft)	1.3	5.4	0.2	**0.6**	45%
Carson River					
West Fork Carson River at Woodfords	52	135	10	**27**	52%
East Fork Carson River near Gardnerville	182	480	43	**97**	53%
Walker River					
West Walker River below Little Walker, near Coleville	153	410	35	**82**	54%
East Walker River near Bridgeport	61	209	7	**18**	30%
SOUTH LAHONTAN					
Owens River					
Total tributary flow to Owens River (5)	231	579	84	**112**	48%

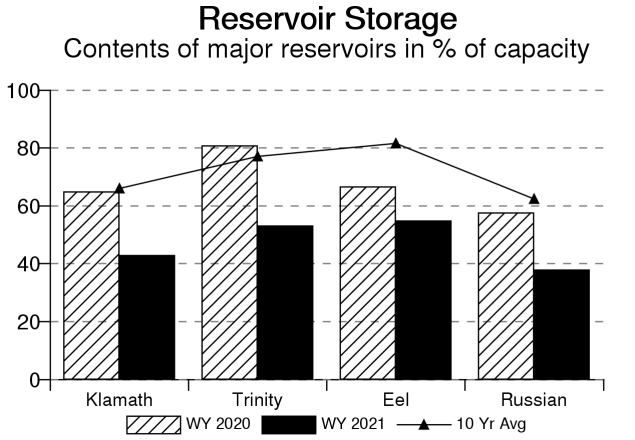
(1) See inside the back cover for definition.
(2) All 50 year averages are based on years 1966-2015 unless otherwise noted.
(3) Forecast by National Weather Service California-Nevada River Forecast Center. 30 yr average (1981-2010).
(4) Forecast by U.S. Natural Resources Conservation Service and National Weather Service California-Nevada River Forecast Center, April through September forecast, 30 year average based on years 1981-2010.
(5) Forecast by Department of Water and Power, City of Los Angeles, average based on years 1961-2010.
(6) For the tributaries, the period of record over which the minimum values are found does not include years after water year 2011.



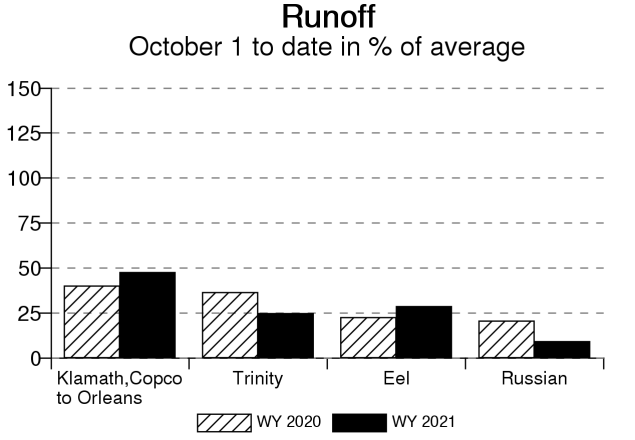
SNOWPACK- First of the month measurements made at 15 snow courses indicate an area wide snow water equivalent of 19.4 inches. This is 70 percent of the seasonal April 1 average. Last year at this time the pack was holding 11.6 inches of water.



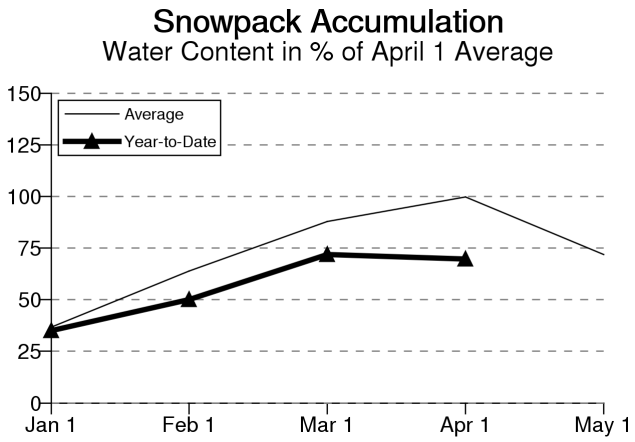
PRECIPITATION- Seasonal precipitation (October 1 through to the end of March) on this area was 60 percent of normal. Precipitation last month was about 55 percent of the monthly average. Seasonal precipitation at this time last year stood at 50 percent of normal.



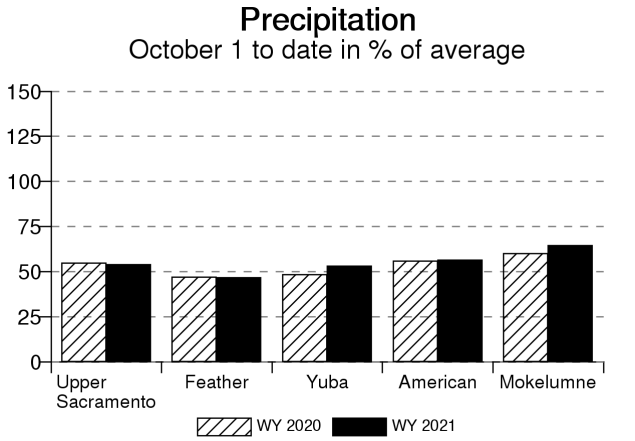
RESERVOIR STORAGE- First of the month storage at 6 reservoirs was 1.55 million acre-feet which is 65 percent of average. About 50 percent of available capacity was being used. Storage in these reservoirs at this time last year was 100 percent of average.



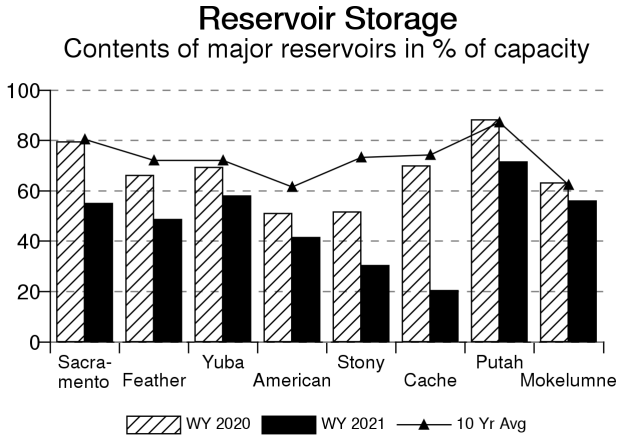
RUNOFF- Seasonal runoff of streams draining this area totaled 2.99 million acre-feet which is 35 percent of average. Last year, runoff for the same period was 30 percent of average.



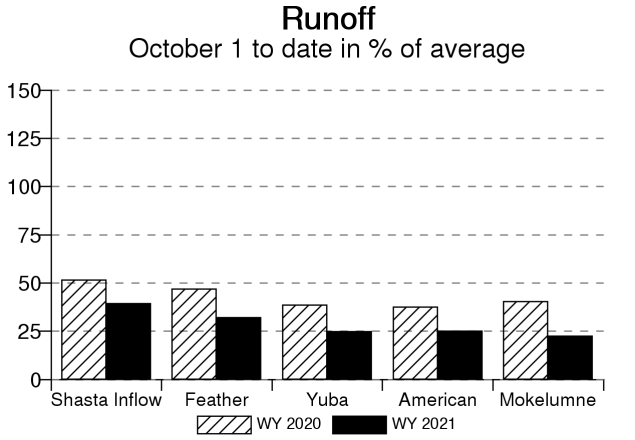
SNOWPACK- First of the month measurements made at 72 snow courses indicate an area wide snow water equivalent of 21.5 inches. This is 75 percent of the seasonal April 1 average. Last year at this time the pack was holding 16.2 inches of water.



PRECIPITATION- Seasonal precipitation (October 1 through to the end of March) on this area was 50 percent of normal. Precipitation last month was about 60 percent of the monthly average. Seasonal precipitation at this time last year stood at 55 percent of normal.

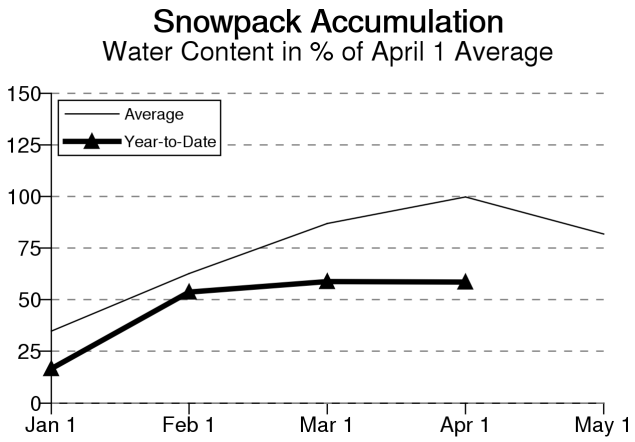


RESERVOIR STORAGE- First of the month storage at 43 reservoirs was 8.33 million acre-feet which is 70 percent of average. About 50 percent of available capacity was being used. Storage in these reservoirs at this time last year was 95 percent of average.

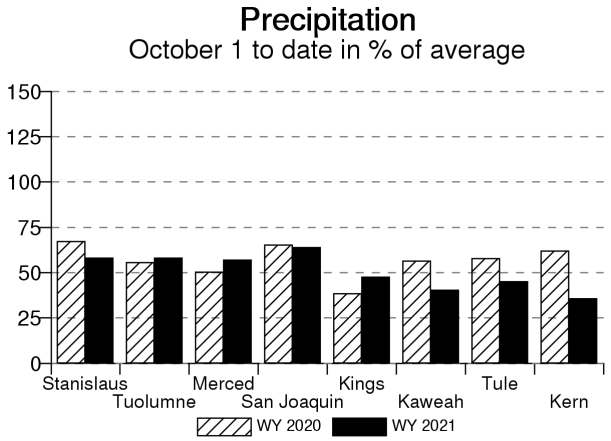


RUNOFF- Seasonal runoff of streams draining this area totaled 3.51 million acre-feet which is 35 percent of average. Last year, runoff for the same period was 45 percent of average.

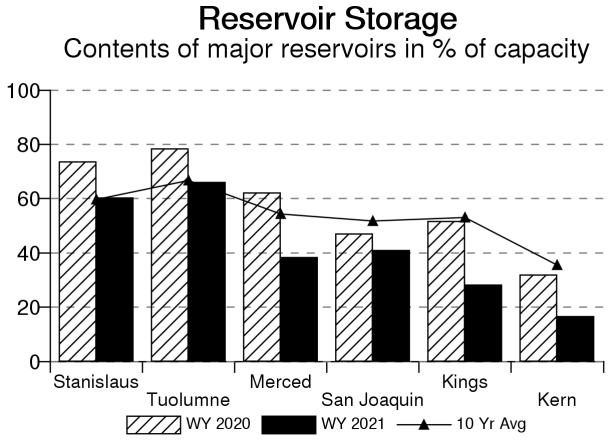
The **Sacramento Region 40-30-30 Water Supply Index** is forecast to be 4.4 assuming median meteorological conditions for the remainder of the year. This classifies the year as "Critical" in the Sacramento Valley according to the State Water Resources Control Board.



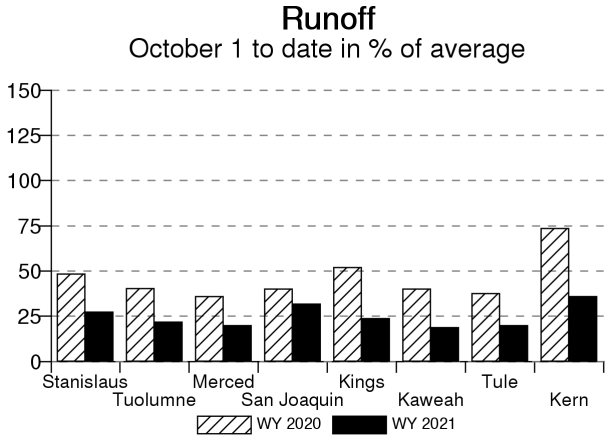
SNOWPACK - First of the month measurements made at 70 **San Joaquin Region** snow courses indicate an area wide snow water equivalent of 18.5 inches. This is 60 percent of the seasonal April 1 average. Last year at this time the pack was holding 14.3 inches of water. At the same time 45 **Tulare Lake** snow courses indicate a basin-wide snow water equivalent of 9.4 inches. This is 35 percent of the seasonal April 1 average. Last year this time the pack was holding 10.0 inches of water.



PRECIPITATION - Seasonal precipitation (October 1 through to the end of March) on the **San Joaquin Region** was 60 percent of normal. Precipitation last month was about 65 percent of the monthly average. Seasonal precipitation at this time last year stood at 70 percent of normal. Seasonal precipitation (October 1 through to the end of March) on the **Tulare Lake Region** was 45 percent of normal. Precipitation last month was about 55 percent of the monthly average. Seasonal precipitation at this time last year stood at 60 percent of normal.

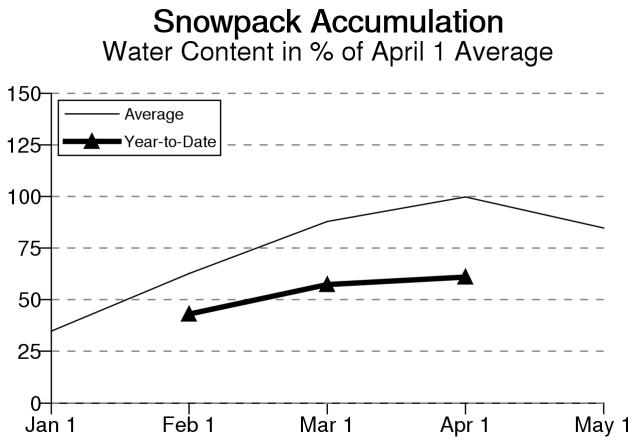


RESERVOIR STORAGE - First of the month storage in 34 **San Joaquin Region** reservoirs was 6.38 million acre-feet which is 85 percent of average. About 55 percent of available capacity was being used. Storage in these reservoirs at this time last year was 105 percent of average. First of the month storage in 6 **Tulare Lake Region** reservoirs was 490 thousand acre-feet which is 55 percent of average. About 25 percent of available capacity was being used. Storage in these reservoirs at this time last year was 95 percent of average.

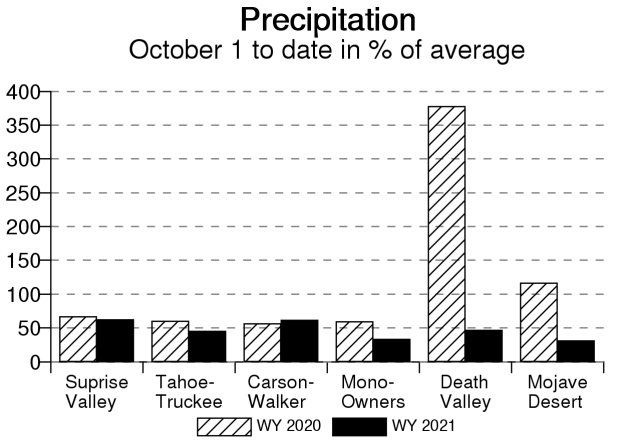


RUNOFF - Seasonal runoff of streams draining the **San Joaquin Region** totaled 603 thousand acre-feet which is 25 percent of average. Last year, runoff for the same period was 40 percent of average. Seasonal runoff of streams draining the **Tulare Lake Region** area totaled 218 thousand acre-feet which is 25 percent of average. Last year, runoff for the same period was 55 percent of average.

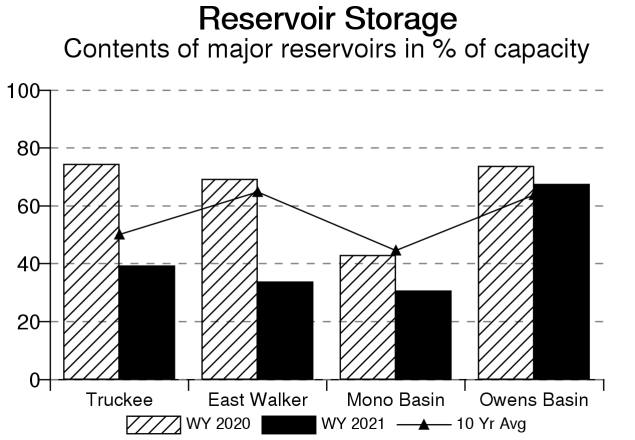
The **San Joaquin Region 60-20-20 Water Supply Index** is forecast to be 1.4 assuming based on the 75 percent exceedance level forecast. This classifies the year as "Critical" in the San Joaquin according to the State Water Resources Control Board.



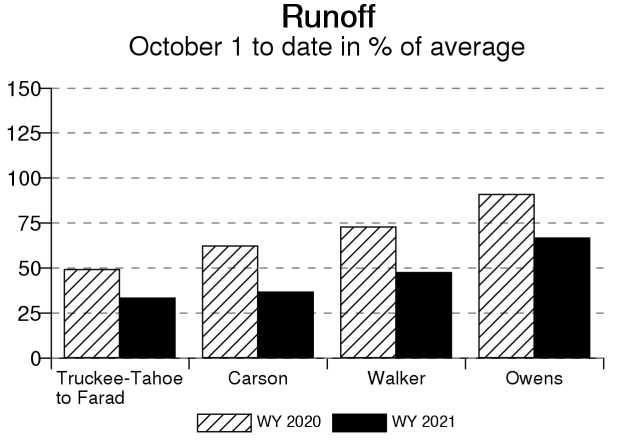
SNOWPACK- First of the month measurements made at 16 **North Lahontan Region** snow courses indicate an area wide snow water equivalent of 16.5 inches. This is 60 percent of the seasonal April 1 average. Last year at this time the pack was holding 10.9 inches of water. At the same time 17 **South Lahontan Region** snow courses indicate a basin-wide snow water equivalent of 10.3 inches. This is 50 percent of the seasonal April 1 average. Last year at this time the pack was holding 10.7 inches of water.



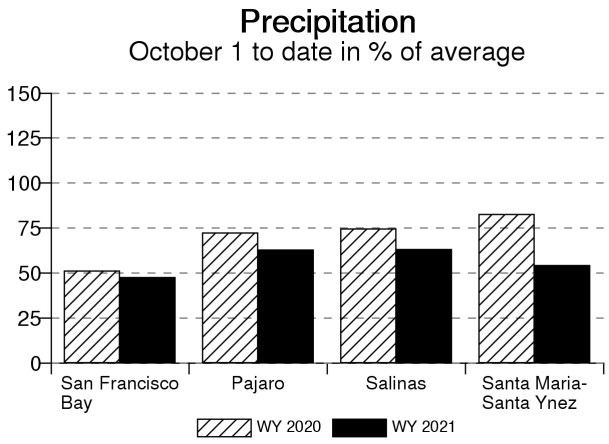
PRECIPITATION- Seasonal precipitation (October 1 through to the end of March) on the **North Lahontan Region** was 55 percent of normal. Precipitation last month was about 55 percent of the monthly average. Seasonal precipitation at this time last year stood at 60 percent of normal. Seasonal precipitation (October 1 through to the end of March) on the **South Lahontan Region** was 35 percent of normal. Precipitation last month was about 30 percent of the monthly average. Seasonal precipitation at this time last year stood at 85 percent of normal.



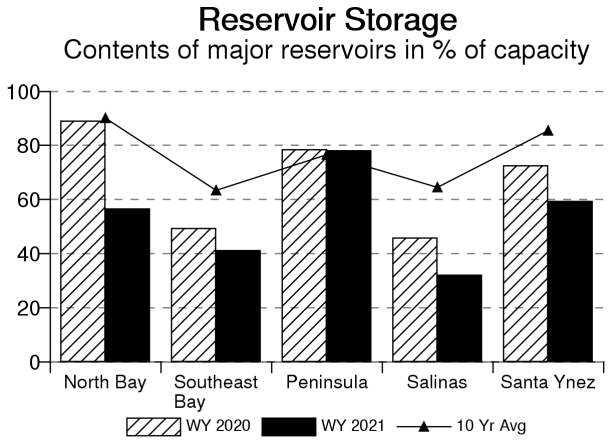
RESERVOIR STORAGE- First of the month storage in 5 **North Lahontan Region** reservoirs was 419 thousand acre-feet which is 75 percent of average. About 40 percent of available capacity was being used. Storage in these reservoirs at this time last year was 145 percent of average. First of the month storage in 8 **South Lahontan Region** reservoirs was 265 thousand acre-feet which is 100 percent of average. About 65 percent of available capacity was being used. Storage in these reservoirs at this time last year was 110 percent of average.



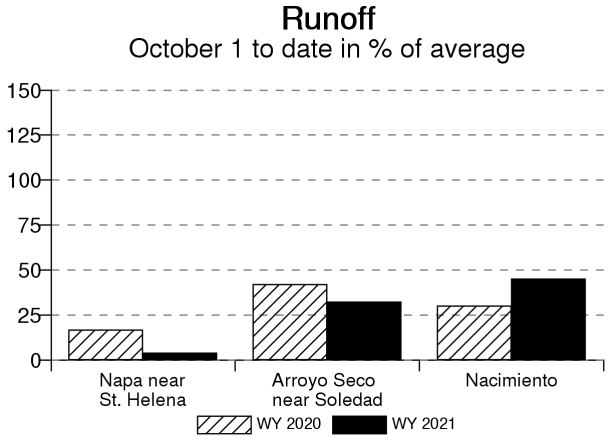
RUNOFF- Seasonal runoff of streams draining the **North Lahontan Region** totaled 106 thousand acre-feet which is 40 percent of average. Last year, runoff for the same period was 60 percent of average. Seasonal runoff of streams draining the **South Lahontan Region** area totaled 44 thousand acre-feet which is 65 percent of average. Last year, runoff for the same period was 90 percent of average.



PRECIPITATION- Seasonal precipitation (October 1 through to the end of March) on the **San Francisco Bay Region** was 45 percent of normal. Precipitation last month was about 55 percent of the monthly average. Seasonal precipitation at this time last year stood at 50 percent of normal. Seasonal precipitation (October 1 through to the end of March) on the **Central Coast Region** was 60 percent of normal. Precipitation last month was about 55 percent of the monthly average. Seasonal precipitation at this time last year stood at 90 percent of normal.



RESERVOIR STORAGE- First of the month storage in 17 **San Francisco Region** reservoirs was 394 thousand acre-feet which is 75 percent of average. About 55 percent of available capacity was being used. Storage in these reservoirs at this time last year was 90 percent of average. First of the month storage in 6 **Central Coast Region** reservoirs was 388 thousand acre-feet which is 55 percent of average. About 40 percent of available capacity was being used. Storage in these reservoirs at this time last year was 75 percent of average.



RUNOFF- Seasonal runoff of streams draining the **San Francisco Region** totaled 2.4 thousand acre-feet which is 5 percent of average. Last year, runoff for the same period was 15 percent of average. Seasonal runoff of streams draining the **Central Coast Region** totaled 112 thousand acre-feet which is 40 percent of average. Last year, runoff for the same period was 35 percent of average.

SOUTH COAST REGION

PRECIPITATION - October through March seasonal precipitation on the South Coast Region is 45 percent of average. March precipitation was 60 percent of the monthly average. Seasonal precipitation at this time last year was 90 percent of average.

RESERVOIR STORAGE - March 31 storage in the 29 major reservoirs was 1.24 million acre-feet which is 85 percent of average. About 60 percent of available capacity was being used. Storage in these reservoirs at this time last year was 90 percent of average.

RUNOFF - October through March seasonal runoff of streams draining this area totaled 14.0 thousand acre-feet which is 10 percent of average. Last year, runoff for the same period was 30 percent of average.

COLORADO RIVER REGION

SNOWPACK - The April 1 snowpack in the Colorado River basin above Lake Powell is 85 percent of average, highest in the South Eastern Utah basin at 105 percent of average and lowest in the Price-San Rafael basin at 70 percent of average.

PRECIPITATION - Seasonal precipitation (October through March) on the **Colorado River Region** was 35 percent of average. Precipitation last month was about 25 percent of the monthly average. Seasonal precipitation at this time last year stood at 170 percent of average.

RESERVOIR STORAGE - First of the month storage at 4 reservoirs was 21.5 million acre-feet which is 55 percent of average. About 40 percent of available capacity was being used. Storage in these reservoirs at this time last year was 70 percent of average.

RUNOFF - The April-July inflow to Lake Powell is forecast to be 3.2 million acre-feet, which is 45 percent of average.

MAJOR WATER DISTRIBUTION PROJECTS
RESERVOIR STORAGE
(AVERAGES BASED ON 1966-2015 OR PERIOD RECORD)

RESERVOIR	CAPACITY 1,000 AF	AVERAGE STORAGE 1,000 AF	STORAGE AT END OF March 2020 1,000 AF	2021 1,000 AF	PERCENT AVERAGE	PERCENT CAPACITY
STATE WATER PROJECT						
Lake Oroville	3,538	2,670	2,294	1,435	54%	41%
San Luis Reservoir (SWP)	1,062	958	975	680	71%	64%
Lake Del Valle	77	37	30	32	86%	42%
Lake Silverwood	78	68	68	67	99%	86%
Pyramid Lake	180	165	164	167	101%	93%
Castaic Lake	325	286	285	249	87%	77%
Perris Lake	131	106	121	119	112%	90%
CENTRAL VALLEY PROJECT						
Trinity Lake	2,448	1,888	1,975	1,292	68%	53%
Lake Shasta	4,552	3,657	3,600	2,392	65%	53%
Whiskeytown Lake	241	213	211	207	97%	86%
Folsom Lake	977	633	476	361	57%	37%
New Melones Reservoir	2,400	1,495	1,892	1,539	103%	64%
Millerton Lake	521	362	281	179	49%	34%
San Luis Reservoir (CVP)	971	847	536	442	52%	46%
COLORADO RIVER PROJECT						
Lake Mead	26,159	19,077	11,610	10,373	54%	40%
Lake Powell	24,322	16,720	11,818	8,844	53%	36%
Lake Mohave	1,810	1,676	1,708	1,691	101%	93%
Lake Havasu	648	559	543	574	103%	89%
EAST BAY MUNICIPAL UTILITY DISTRICT						
Pardee Res	204	183	187	189	104%	93%
Camanche Reservoir	417	259	274	241	93%	58%
East Bay (4 res.)	159	133	128	116	88%	73%
CITY AND COUNTY OF SAN FRANCISCO						
Hetch-Hetchy Reservoir	360	163	232	173	106%	48%
Cherry Lake	268	158	225	196	125%	73%
Lake Eleanor	29	14	18	24	181%	86%
South Bay/Peninsula (4 res.)	238	173	174	170	99%	71%
CITY OF LOS ANGELES (D.W.P.)						
Lake Crowley	183	128	150	137	107%	75%
Grant Lake	48	28	27	23	82%	48%
Other Aqueduct Storage (6 res.)	238	173	174	170	99%	71%

TELEMETERED SNOW WATER EQUIVALENTS

April 1, 2021

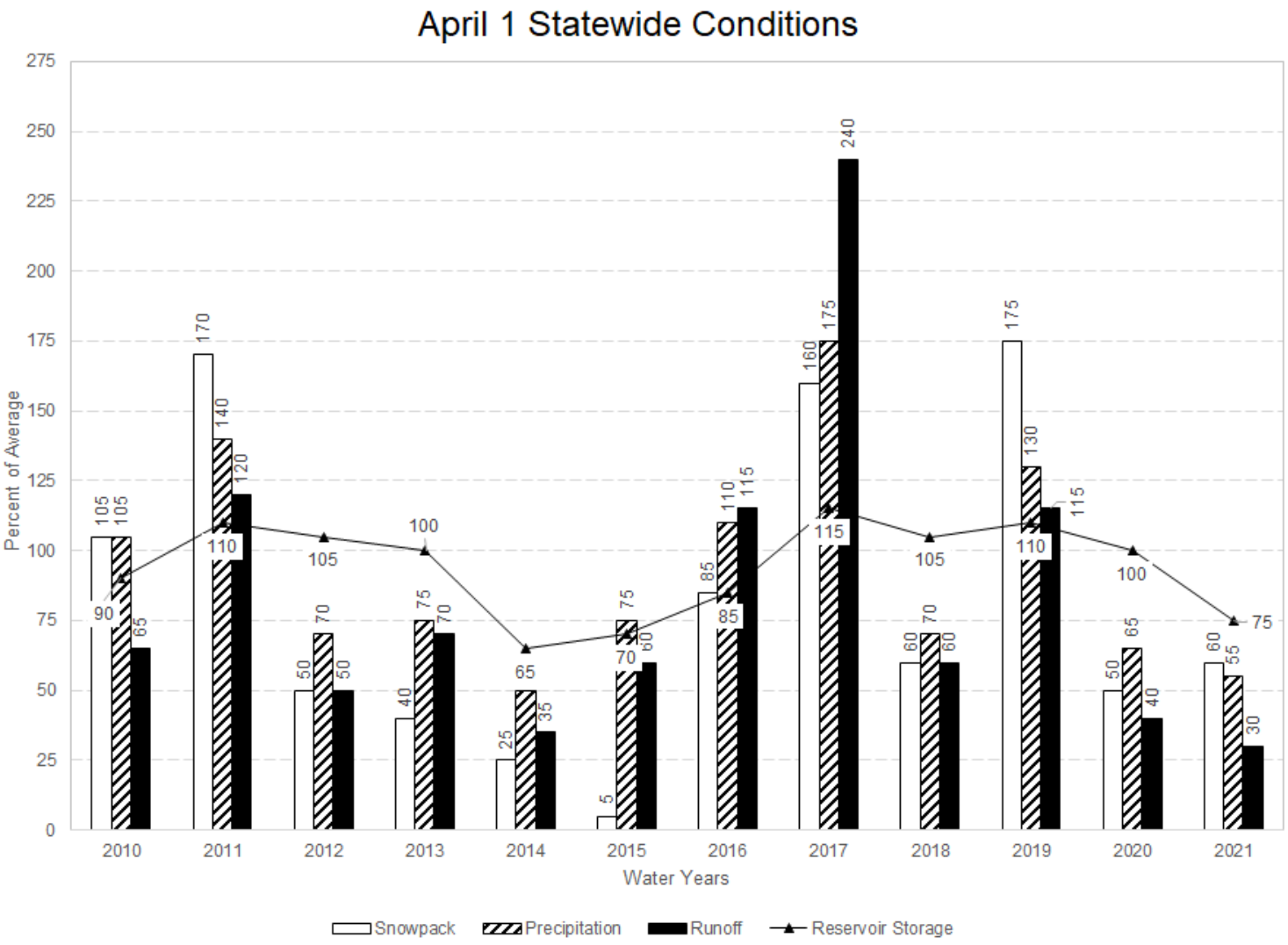
(AVERAGES BASED ON PERIOD RECORD)

BASIN NAME / STATION NAME	ELEV	APRIL 1 AVERAGE	INCHES OF WATER EQUIVALENT Apr 1	PERCENT OF AVERAGE	24 HRS PREVIOUS	1 WEEK PREVIOUS
TRINITY RIVER						
Shimmy Lake	6400'	40.3	13.8	34.1	14.0	15.2
Crowder Flat	5100'	-	-	-	-	-
Highland Lakes	6030'	29.9	21.3	71.2	21.7	23.3
Mumbo Basin	5650'	22.4	13.5	60.3	14.0	16.7
Bonanza King	6450'	40.5	23.0	56.9	23.3	24.0
Red Rock Mountain	6700'	39.6	27.1	68.5	27.5	28.5
Big Flat	5100'	15.8	22.6	142.8	22.7	22.4
Scott Mountain	5900'	16.0	11.6	72.8	11.8	13.2
Peterson Flat	7150'	29.2	18.8	64.5	19.2	19.8
Middle Boulder 3	6200'	28.3	19.2	67.8	19.7	20.7
SACRAMENTO RIVER						
Blacks Mountain	7050'	12.7	10.2	80.3	10.6	11.4
Cedar Pass	7100'	18.1	15.8	87.3	16.0	16.4
Medicine Lake	6700'	32.6	21.6	66.3	21.8	22.6
Sand Flat	6750'	42.4	20.6	48.7	21.1	22.7
Slate Creek	5700'	29.0	17.2	59.2	17.6	18.4
Adin Mountain	6200'	13.6	11.1	81.6	11.6	14.3
Stouts Meadow	5400'	36.0	22.6	62.7	23.2	24.5
Snow Mountain	5950'	27.0	28.4	105.3	28.9	31.3
FEATHER RIVER						
Kettle Rock	7300'	25.5	19.6	76.7	19.9	21.2
Gold Lake	6750'	36.5	30.0	82.2	30.0	29.9
Bucks Lake	5873'	44.7	-	-	-	-
Harkness Flat	6200'	28.5	16.3	57.3	17.0	20.0
Four Trees	5202'	20.0	2.0	10.0	2.9	8.0
Humbug	6500'	28.0	28.9	103.3	29.0	29.2
Grizzly Ridge	6900'	29.7	17.0	57.4	17.3	19.4
Rattlesnake	6210'	14.0	10.6	75.4	11.4	15.4
Lower Lassen Peak	8338'	-	51.9	-	51.8	52.0
Pilot Peak	6800'	52.6	27.5	52.3	27.9	29.3
EEL RIVER						
Noel Spring	5100'	-	-	-	-	-
YUBA & AMERICAN RIVERS						
Carson Pass	8353'	-	18.7	-	19.0	20.2
Lake Lois	8600'	39.5	-	-	-	-
Forni Ridge	7600'	37.0	30.1	81.5	30.7	32.4
Silver Lake	7100'	22.7	18.9	83.1	19.5	21.7
Blue Canyon	5280'	9.0	8.0	88.4	8.9	12.3
Schneiders	8750'	34.5	-	-	-	-
Meadow Lake	7200'	55.5	35.9	64.7	36.4	38.2
Robbs Powerhouse	5150'	5.2	-	-	-	-
Robinson Cow Camp	6480'	-	36.9	-	37.4	40.5
Cent Sierra Snow Lab	6900'	33.6	25.7	76.5	26.4	29.2
Caples Lake	8000'	30.9	21.9	70.8	22.1	23.2
Alpha	7600'	35.9	22.2	61.9	22.8	24.7
Robbs Saddle	5900'	21.4	14.9	69.4	15.5	17.4
Huysink	6600'	42.6	24.1	56.6	24.2	24.6
Van Vleck	6700'	35.9	28.5	79.2	29.0	32.1
Greek Store	5600'	21.0	19.1	90.9	19.6	21.2
MOKELUMNE & STANISLAUS RIVERS						
Highland Meadow	8700'	47.9	29.2	61.0	29.5	29.5
Gianelli Meadow	8400'	55.5	28.2	50.8	28.3	28.6
Bloods Creek	7200'	35.5	22.0	61.9	22.2	23.4
Blue Lakes	8000'	33.1	21.3	64.4	21.3	21.0
Mud Lake	7900'	44.9	-	-	-	-
Black Springs	6500'	32.0	20.3	63.4	20.4	20.6
Stanislaus Meadow	7750'	47.5	25.3	53.2	25.6	26.4
Deadman Creek	9250'	37.2	26.3	70.8	26.8	26.2
Lower Relief Valley	8100'	41.2	-	-	-	-
TUOLUMNE & MERCED RIVERS						
Dana Meadows	9800'	27.7	15.1	54.4	15.5	17.4
Horse Meadow	8400'	48.6	-	-	-	-
Tuolumne Meadows	8600'	22.6	9.4	41.5	10.0	11.1
Slide Canyon	9200'	41.1	26.2	63.7	26.8	26.6
Ostrander Lake	8200'	34.8	26.0	74.6	26.4	27.6
Gin Flat	7050'	34.2	21.3	62.3	21.7	22.0
Tenaya Lake	8150'	33.1	18.0	54.4	18.3	19.7
White Wolf	7900'	-	21.1	-	21.9	24.0
Lower Kibbie Ridge	6700'	27.4	8.9	32.3	9.5	11.1
Paradise Meadow	7650'	41.3	-	-	-	-

SAN JOAQUIN RIVER						
Volcanic Knob	10050'	30.1	14.7	48.9	14.6	14.2
Tamarack Summit	7550'	30.5	10.2	33.4	10.9	13.1
Kaiser Point	9200'	37.8	13.4	35.6	14.2	15.5
Huntington Lake	7000'	20.1	14.2	70.5	14.7	16.3
Green Mountain	7900'	30.8	3.5	11.4	4.4	8.3
Poison Ridge	6900'	28.9	16.9	58.4	17.7	21.2
Graveyard Meadow	6900'	18.8	11.5	61.3	12.2	13.9
Agnew Pass	9450'	32.3	-	-	-	-
Devils Postpile	7569'	-	8.6	-	9.2	11.3
Chilkoot Meadow	7150'	38.0	23.9	62.8	24.5	26.2
KINGS RIVER						
Bishop Pass	11200'	34.0	-	-	-	-
Blackcap Basin	10300'	34.3	13.9	40.4	13.9	15.4
Mitchell Meadow	9900'	32.9	16.8	51.2	16.6	16.4
Upper Burnt Corral	9700'	34.6	18.0	51.9	18.3	18.3
State Lakes	10300'	29.0	13.3	45.7	13.0	13.0
West Woodchuck Meadow	9100'	32.8	-	-	-	-
Big Meadows	7600'	24.6	-	-	-	8.0
Charlotte Lake	10400'	27.5	-	-	-	-
KAWEAH & TULE RIVERS						
Farewell Gap	9500'	34.5	-	-	-	-
Giant Forest	6650'	10.0	1.1	11.3	1.2	2.0
Quaking Aspen	7200'	21.0	1.2	5.8	1.6	3.6
KERN RIVER						
Tunnel Guard Station	8900'	15.6	-	-	-	-
Beach Meadows	7650'	11.0	0.0	0.0	0.0	0.6
Upper Tyndall Creek	11400'	27.7	9.9	35.6	9.9	10.0
Casa Vieja Meadows	8300'	20.9	6.6	31.4	7.0	8.5
Pascoes	9150'	24.9	11.2	44.9	11.4	11.3
Wet Meadows	8950'	30.3	8.0	26.3	9.0	10.6
Chagoopa Plateau	10300'	21.8	8.7	39.7	9.0	9.3
Crabtree Meadow	10700'	19.8	5.8	29.3	5.8	5.8
SURPRISE VALLEY AREA						
Dismal Swamp	7050'	29.2	23.1	79.1	23.7	24.4
TRUCKEE RIVER						
Independence Camp	7000'	21.8	12.7	58.3	13.3	15.8
Independence Lake	8450'	41.4	26.1	63.0	25.8	25.2
Squaw Valley Gold Coast	8200'	46.5	24.7	53.1	24.5	24.8
Truckee 2	6400'	14.3	10.5	73.4	11.1	13.6
Independence Creek	6500'	12.7	6.2	48.8	6.5	8.2
Big Meadows	8700'	25.7	13.5	52.5	13.8	14.6
LAKE TAHOE BASIN						
Rubicon Peak 2	7500'	29.1	15.6	53.6	16.0	17.2
Tahoe City Cross	6750'	16.0	1.3	8.1	1.3	3.9
Echo Peak 5	7800'	39.5	29.8	75.4	30.2	32.2
Hagans Meadow	8000'	16.5	11.2	67.9	11.8	15.7
Fallen Leaf Lake	6250'	7.0	0.3	4.3	0.9	4.5
Ward Creek 3	6750'	39.4	30.0	76.1	30.3	32.2
Mount Rose Ski Area	8900'	38.5	23.2	60.3	23.4	23.8
Heavenly Valley	8800'	28.1	15.0	53.4	15.3	16.3
Marlette Lake	8000'	21.1	15.4	73.0	15.2	15.5
CARSON RIVER						
Spratt Creek	6150'	4.5	0.0	0.0	0.0	2.6
Horse Meadow	8400'	48.6	-	-	-	-
Burnside Lake	8129'	-	16.2	-	16.5	17.1
Monitor Pass	8350'	-	11.4	-	11.6	12.3
Poison Flat	7900'	16.2	16.6	102.5	16.6	16.7
Forestdale Creek	8017'	-	22.9	-	23.2	23.8
Ebbetts Pass	8700'	38.8	26.2	67.5	26.5	26.6
WALKER RIVER						
Sonora Pass Bridge	8750'	26.0	16.7	64.2	16.6	16.4
Virginia Lakes Ridge	9300'	20.3	10.6	52.2	10.7	10.4
Lobdell Lake	9200'	17.3	9.5	54.9	9.4	9.5
Summit Meadow	9313'	-	14.6	-	14.7	14.3
Leavitt Meadows	7200'	8.0	4.7	58.8	4.9	6.1
Leavitt Lake	9600'	-	36.0	-	36.1	36.0
OWENS RIVER/MONO LAKE						
Cottonwood Lakes	10150'	11.6	6.5	56.0	6.7	7.9
Gem Pass	10750'	31.7	-	-	-	-
Rock Creek Lakes	9700'	14.0	5.1	36.1	5.8	6.8
South Lake	9600'	16.0	7.4	46.3	7.5	8.0
Big Pine Creek	9800'	17.9	-	-	-	-
Sawmill	10200'	19.4	8.2	42.3	8.1	7.9

NORMAL SNOWPACK ACCUMULATION EXPRESSED AS A PERCENT OF APRIL 1ST AVERAGE

AREA	JANUARY	FEBRUARY	MARCH	APRIL	MAY
Central Valley North	45%	70%	90%	100%	75%
Central Valley South	45%	65%	85%	100%	80%
North Coast	40%	60%	85%	100%	80%



SNOWLINES

The 88th Annual Western Snow Conference will be held virtually on April 12-15, 2021. This year's theme is Bridging the Gap between Research and Operations.

More information can be found at https://westernsnowconference.org/meeting/2021

Depicted on this month's cover is a location near the headwaters of the South Fork of the American River on April 1, 2021. Statewide snowpack peaked during the last week of March.

YOUR BEST PROTECTION

ACWA JPIA

P. O. Box 619082
Roseville, CA 95661-9082

phone
916.786.5742
800.231.5742

www.acwajpia.com

November 03, 2021

Calaveras Public Utility District (C018)
P.O. Box 666
San Andreas, CA 95249-0666

General Manager:

Each year at Fall Conference, the JPIA recognizes members that have a Loss Ratio of 20% or less in either of the Liability, Property, or Workers' Compensation programs (loss ratio = total losses / total premiums).

The members with this distinction receive the **"President's Special Recognition Award"** certificate for each Program that they qualify in.

The JPIA is extremely pleased to present Calaveras Public Utility District (C018) with this special recognition and commends the District on the hard work in reducing claims.

Congratulations to you, your staff, Board, and District. Keep up the good work!

The JPIA wishes you the best in 2022.

Sincerely,

Jerry Gladbach

E.G. "Jerry" Gladbach
President

Enclosure: President's Special Recognition Award(s)

President's Special Recognition Award

The President of the

ACWA JPIA

hereby gives Special Recognition to

Calaveras Public Utility District

for achieving a low ratio of "Paid Claims and Case Reserves" to "Deposit Premiums"
in the Workers' Compensation Program for the period 07/01/2017 - 06/30/2020
announced at the Board of Directors' Meeting in Pasadena.

E. G. "Jerry" Gladbach

E. G. "Jerry" Gladbach, President

December 15, 2021

LITHO IN U.S.A.

President's Special Recognition Award

The President of the

ACWA JPIA

hereby gives Special Recognition to

Calaveras Public Utility District

for achieving a low ratio of "Paid Claims and Case Reserves" to "Deposit Premiums"
in the Liability Program for the period 10/01/2017 - 09/30/2020
announced at the Board of Directors' Meeting in Pasadena.

E. G. "Jerry" Gladbach

E. G. "Jerry" Gladbach, President

ACWA JPIA

December 15, 2021

LITHO IN U.S.A.

CALAVERAS PUBLIC UTILITY DISTRICT

MEMORANDUM

February 8th, 2022

TO: BOARD OF DIRECTORS

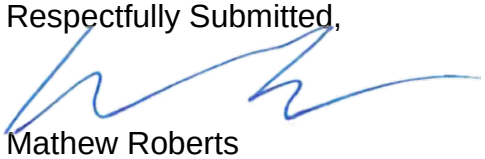
FROM: MATHEW ROBERTS, WATER SYSTEM SUPERINTENDENT

SUBJECT: JANUARY, MAINTENANCE REPORT

Updates as of February 8th, 2022:

- Currently, the Water System is running well.
- Water treated and sold came down slightly from December but within range for this time of year.
- The South Fork River had low turbidity water, and we ran Both pumps.
- Jeff Davis's reservoir level is gaining, and water curtailments are still lifted.
- The Water plant MCC has been built and is scheduled to be installed on February 9th, 2022. This project was approved around July 2021.
- We had a few small water leaks and were expecting them to pick up the weather temperature swings.

Respectfully Submitted,



Mathew Roberts

Superintendent

Monthly Maintenance Report
January 2022

LOCATION	DESCRIPTION OF WORK	STATUS
Jeff Davis WTP	Monthly operation and maintenance	Complete
	Routine water sampling and State reporting, WTP compliance Items	Complete
	Treated Water = 18,289,962	Complete
	Sold Water = 13,367,808 gallons	Complete
	Below Spill = 4.25'	ongoing
	SolarBee Yearly Maintenance	Complete
	Motor Control Center (MMC) Replacement	Pending
	HAA5/TTHM DBP's (Quarterly)	Complete
Warehouse Shop	Routine Operation's	Ongoing
South Fork Pump Station	Weekly routine checks	Complete
	Raw Water Pumped = 402 Acre ft	ongoing
	6" over Spill (Both pumps Running)	ongoing
Schaads Reservoir	Weekly checks	Complete
	All Units are on	Ongoing
	32" Below Spill	Ongoing
Glencoe Pump Station	Weekly checks - routine monitoring	Complete
Ponderosa PRV Hydro	Weekly checks - routine monitoring	Complete
MCV PRV Hydro	Weekly checks - routine monitoring	Complete
		Complete
Garamendi's PRV Hydro	Weekly checks - routine monitoring	Complete
San Andreas Distribution	Routine operations, sampling	Complete
	Service line leak repair (Market St)	Complete
	4" steel main line leak repair (Pope)	Complete
Moke Hill Distribution	Routine operations, sampling	Complete
	2" main line leak repair (Stevenson)	Complete
Glencoe Distribution	Routine operations	Complete
Paloma Distribution	Routine operations, sampling	Complete
Rail Road Flat Distribution	Routine operations, sampling	Complete
Red Hawk Res.	Maintenance	Ongoing
Safety/Training	Routine Safety/pre-const. Talks	Ongoing
Spray Program	Pre-Emergent	Ongoing
Vehicle Maintenance	Gold Toyota Service, Dump truck service = Brawners Auto	Complete
	Truck 9 & 10 service & recalls =Sonora Ford	Complete
Other	341 USA tags completed	Complete
	24 Customer service/work orders	Complete
	Monthly meter reading	Complete
	Complaints- 0 Odor/ 0 Pressure	Complete
	Total Pending service inquiries =3	Ongoing
	Water Curtailment Updates (4 lifted)	Ongoing

CALAVERAS PUBLIC UTILITY DISTRICT

MEMORANDUM

February 3, 2022

TO: BOARD OF DIRECTORS

FROM: TRAVIS SMALL, GENERAL MANAGER

SUBJECT: GENERAL MANAGER's REPORT

Updates as of February 3, 2022:

- On February 1st and 3rd attended webinars for the Prop1 Round 2 Grant Funding (Backwash Reclaim Project).
- Declined change order on Clear Well Tank Project that would have removed 6" more base and added 6" more sand at a cost of $30k. Condor Earth Geotechnical Engineer agreed that declining change order was the right decision.
- EBMUD reached out to discuss curtailments and the District's willingness to join them and other regional stakeholders to push back against Executive Orders and newly created regulations as a result of the Executive Orders. (Regulations and Curtailments that appear to circumvent normal processes from draft to implementation) EBMUD expects to have a draft letter for comment in mid-February.
- Staff participated in presentations from the major water meter manufacturers, areas that staff is judging include the following: Software, Reading Equipment, Scalability, and functionality. The four presentations have been from Badger, Mueller, Neptune, and Sensus. The District is moving to CUSI Billing Software and the current Meter Reading Software is not a scalable solution to new meter reading technologies which include drive-by radio reads or fixed data collectors.
- Redhawk Dam Inundation Map is finalized, and Condor submitted to State for approval.

Respectfully Submitted,

Travis Small

General Manager