

HUMBOLDT BAY MUNICIPAL WATER DISTRICT

Board of Directors Meeting

October 2017



Pumps going in to Collector 1

MINUTES



HUMBOLDT BAY MUNICIPAL WATER DISTRICT
828 7th Street, Eureka



Minutes for Meeting of Board of Directors

September 14, 2017

A. ROLL CALL

President Woo called the meeting to order at 9:00 am. Director Hecathorn conducted the roll call. Directors Fuller, Hecathorn, Latt and Woo were present. Director Rupp was absent. General Manager John Friedenbach, Superintendent Dale Davidsen, Business Manager Chris Harris, and Board Secretary Sherrie Sobol were present. Pat Kaspari and John Winzler of GHD were present for a portion of the meeting.

B. FLAG SALUTE

President Woo led the flag salute.

C. ACCEPT AGENDA

Mr. Friedenbach requested the Board consider Item H5, Spillway Plan with the discussion under Engineering, Item J1g, Spillway Assessment. On motion by Director Hecathorn, seconded by Director Fuller, the Board voted 4-0 to approve the agenda as amended.

D. MINUTES

On motion by Director Hecathorn, seconded by Director Latt, the Board voted 4-0 to approve the minutes of August 10, 2017.

E. PUBLIC COMMENT

No public comment was received.

F. CONSENT AGENDA

Director Fuller requested Item 3 be pulled. On motion by Director Hecathorn, seconded by Director Latt, the Board voted 4-0 to accept the Consent Agenda less Item 3. Director Fuller pulled the summons notice in the newspaper stating that DWR was being sued in regards to the California Waterfix Revenue Bond. She asked for clarification as to what the notice really means. Director Latt stated a summons is published in the newspaper if the plaintiff is unable to personally serve the lawsuit documents. The lawsuit is deemed served with the proof of publication. Mr. Friedenbach stated he included the notice regarding the Delta Tunnels project for information only since the Board previously discussed the topic. Director Fuller thanked Director Latt for the explanation. On motion by Director Fuller, seconded by Director Hecathorn, the Board voted 4-0 to accept Consent Item 3.0

G. CORRESPONDENCE

Letter from FERC re: dam safety inspection

Mr. Samuel Lee of the Federal Energy Regulatory Commission (FERC) inspected the R.W. Matthews Dam on July 19, 2017. Mr. Friedenbach shared the letter received from FERC stating there are no dam safety concerns noted and no follow-up actions items arising from the inspection. He also noted that during the inspection, Mr. Lee commented the dam is one the best maintained dams he's seen. Mr. Friedenbach credited this to Mr. Davidsen and his team.

Letter from DWR re: dam public records request response

Mr. Friedenbach stated the letter from DWR is strictly informative. The state has updated the R.W. Matthews Dam hazard classification as high and now requires an EAP. The dam is already classified as high by FERC and the District has an EAP so this is not something new to us. The state also rated our dam as satisfactory-the highest rating they have.



HUMBOLDT BAY MUNICIPAL WATER DISTRICT
828 7th Street, Eureka



Minutes for Meeting of Board of Directors

September 14, 2017

Letter from Division of Boating and Waterways re: 17/18 Quagga Grant Award

Mr. Friedenbach shared the letter from the Division of Boating and Waterways (DBW) informing the District that we received the 2017/18 Quagga and Zebra Mussel Infestation Prevention Grant in the amount of \$7,480.00. Next month the Board will need to approve a resolution accepting the 2017/18 grant. He noted that the District applied for and received three grants from the DBW. We applied for the grant since we are the owners of the reservoir, however, the money goes to Ruth Lake CSD since they implement our quagga prevention plan. President Woo inquired about the status of the general manager recruitment at Ruth Lake CSD. Mr. Friedenbach stated they received three applications and plan to make a decision by the end of the month.

H. CONTINUING BUSINESS

Water Resource Planning

Mr. Friedenbach stated there was no activity in local sales or transport. He included an article regarding the Sites Reservoir. If it comes to fruition, this could potentially be a location for transport consideration. In regards to instream flow the Wildlife Conservation Board grant was submitted for \$693,408. We should hear back in a few months regarding approval. The District received numerous letters of support for the grant as well as in-kind contributions of approximately \$38,000 from H.T. Harvey, Stillwater Sciences and Mad River Alliance. President Woo did a considerable amount of work to get the grant application ready and was assisted by Director Fuller. Director Latt shared that President Woo invested over forty hours on the grant and commended her on her efforts. He also noted that as a result of her extra efforts and time invested, the invoice from HT Harvey was greatly reduced. Director Fuller concurred and expressed her appreciation as well and noted the end result is a good product for grant submittal. President Woo thanked the Directors for their support and stated she feels the grant application is a good one but cautioned it is a statewide competition.

Cannabis Grows

Mr. Friedenbach shared the information provided by Director Latt regarding Fish and Wildlife enforcement options related to water theft and enforcement. Director Latt stated having the framework of statutory materials is the first step towards combatting water theft. Violations should be reported to State Water Resources Control Board and California Department of Fish and Wildlife. Director Latt stated there are limited resources available to deal with this and the Board should continue discussions regarding options. He suggested meeting with the DFW staff member that has jurisdiction over the Ruth Lake area.

Foothill Yellow-Legged Frog presentation by California Dept. of Fish and Wildlife (CDFW)

Michael Van Hattem of CDFW provided a presentation on the Foothill Yellow-Legged Frog. The frog species is currently awaiting listing on the California Endangered Species Act (CESA) and is ranked as a Priority 1 candidate species. He explained the process to have a species listed under CESA and stated that species are considered a protected class while being considered for listing under CESA. He provided information on the range, life history and decline of the Foothill Yellow-Legged Frog and threats to their livelihood. This frog is considered California's stream frog. He noted that although they are declining in numbers, the Mad River is a good habitat for the Foothill Yellow-Legged Frog. Biologists have estimated there were 325 egg masses per kilometer in the Mad River. This is the highest number of egg masses per species. The Board thanked Mr. Van Hattem for the presentation and inquired what the District could do to help. Mr. Van Hattem stated the best thing to



HUMBOLDT BAY MUNICIPAL WATER DISTRICT
828 7th Street, Eureka



Minutes for Meeting of Board of Directors

September 14, 2017

do is improve riparian habitat. If work must be done in the river, be sure to get proper permits and keep the Foothill Yellow Legged Frog out of harm's way.

JTN Energy contract amendment

On January 20, 2016 the District entered into a contract with JTN Energy to assist with a 20-year ReMAT contract for hydro power purchase by PG&E. Payment terms for JTN are \$0.0056 per kilowatt hour over the life of the contract. JTN partnered with Henwood Associates for the work under the original contract. JTN and Henwood Associates have both requested the fee under the original contract be equally split between them over the 20-year term of the original contract. JTN Energy prepared the contract amendment to split the original contract fee equally between JTN Energy and Henwood Associates. District legal counsel reviewed the proposed amendment and had no concerns. Staff recommends the Board approve the proposed contract amendment. On motion by Director Hecathorn, seconded by Director Latt, the Board approved the contract amendment splitting the fee between JTN and Henwood.

Spillway Plan

This item was discussed under Engineering.

SB 623-water tax

Mr. Friedenbach stated SB623 is now a two-year bill which means it rolls over until next year. He included articles both for and against SB623.

OSU Presentation on Ruth Lake Bathymetry

Mr. Friedenbach stated that subsequent to the 2015 Ruth area wild fires, the District was contacted by Desiree Tullos, PhD, PE, D.WRE of Oregon State University requesting permission to do a bathymetry study of Ruth Lake. Bathymetry is the measurement of the depth of lakes or oceans. Permission was granted and Ms. Tullos is here to present her findings to date. He introduced Ms. Tullos and she provided a presentation of findings titled "Impacts of the wildfires in the Mad River basin on the capacity of Ruth Lake". They are trying to determine the impacts of wildfire on sediment generation. Study objectives are to evaluate relationships between sub-basin characteristics, burn intensity and area, and sediment generation; evaluate how and when sediment delivered from burned and flooded basins may reduce the functional life of reservoirs; and develop tools for managers to evaluate impacts of wildfire scenarios on their reservoirs. She shared the study activities and tools and the issues they had including vandalism of equipment. She stated that estimating yield accurately is difficult since models and field measurements dramatically underestimate long-term sediment yield. She believes that Ruth Lake has lost 16% capacity over the past 53 years. Mr. Davidsen noted 16% equates to roughly 7,300 acre-feet of water loss. Ms. Tullos estimated that by the year 2050, capacity loss will be about 25%. She thanked the District for their partnership and expressed gratitude and appreciation for the use of the cabin as a home base for their studies. Director Latt inquired what can be done to mitigate the sedimentation. Ms. Tullos stated Oregon does drawdown flushing which is the best method. She understands this is not an option for the District since Ruth Lake is the source of drinking water. Sedimentation traps are an option but need to be maintained and dredged annually. Dredging is not only expensive, but also has many regulatory requirements.



HUMBOLDT BAY MUNICIPAL WATER DISTRICT
828 7th Street, Eureka



Minutes for Meeting of Board of Directors

September 14, 2017

Little Hoover Commission report on Special Districts

Mr. Friedenbach shared the Little Hoover Commission's report on Special Districts. Previously it was suggested that special districts prove they should be in existence each year. The California Special Districts Association (CSDA) advocated for special districts and was very effective. The Little Hoover Commission is no longer recommending special districts provide annual proof as to why they should remain a special district. The CSDA was very influential and many of the recommendations in the Little Hoover Commission report reference the CSDA.

I. NEW BUSINESS

Resolution 2017-08 for Workers Compensation for Volunteer Personnel

Mr. Friedenbach stated a former part-time summer employee, currently attending HSU has requested to return to the District as a volunteer to assist with and learn more about the GIS system. Staff consulted with JPIA and they recommended the District have a resolution on file covering all volunteers, in the event they get hurt while volunteering, be eligible for workers' compensation insurance coverage. This would be a good risk management practice for the District. Staff recommends the Board adopt Resolution 2017-08 to provide workers' compensation insurance coverage to volunteers of the District. Director Latt inquired if the additional costs of workers' compensation coverage made good fiscal sense. Ms. Harris provided information on how costs are calculated for volunteers. If an individual volunteered forty-hours a week for one year, the additional cost would be \$200 per year. Director Latt had no concerns with the amount. On motion by Director Latt, seconded by Director Hecathorn, the Board voted 4-0 to approve Resolution 2017-08.

Presentation of employee jackets

Mr. Friedenbach introduced Samantha Ryan, Program and Regulatory Analyst. He stated she is doing an excellent job. She was previously employed at the City of Arcata in the water and wastewater department. President Woo presented her with a District jacket and she and the Board welcomed Ms. Ryan to the District. Mr. Davidsen stated our other new employee, Seth Stone was not able to be here due to work required at Essex.

J. REPORTS (from Staff)

1. Engineering

Blue Lake-FG CSD Water Line Replacement over Mad River (funded by Prop 84 NCIRWMP grant and FEMA Hazard Mitigation Grant)

The Public Hearing to Adopt the Mitigated Negative Declaration was scheduled to begin at 11 am. The Board waited until 11:15 am to open the hearing to allow additional time for any public to show up. After opening the Public Hearing at 11:15 am and receiving no public comment, the public hearing was closed at 11:17 am. President Woo acknowledge the two letters received from the McCasland Family and the Residents of Rabbit Hill. She confirmed with staff that additional public meetings would be held. Mr. Friedenbach shared the District's response letter to the Residents of Rabbit Hill, which includes the McCasland Family, and stated that after he receives the contractors schedule, public meetings will be held to discuss the schedule and provide any project updates. He and Mr. Kaspari commented on the letter received from CalTrans. The CalTrans letter referred to an incorrect location and their comments were specific to the wrong location. Mr. Kaspari provided the CEQA



HUMBOLDT BAY MUNICIPAL WATER DISTRICT
828 7th Street, Eureka



Minutes for Meeting of Board of Directors

September 14, 2017

Findings in connection with project approval of the HBMWD Blue Lake Fieldbrook-Glendale CSD water transmission pipeline replacement project and the adoption of the proposed Mitigated Negative Declaration. On motion by Director Hecathorn, seconded by Director Fuller, the Board voted 4-0 by roll call vote to adopt the Mitigated Negative Declaration. Director Hecathorn read Resolution 2017-10 Adopting a Mitigated Negative Declaration for the District's Blue Lake Fieldbrook-Glendale CSD Water Transmission Pipeline Replacement Project. On motion by Director Latt, seconded by Director Fuller, the Board voted 4-0 by roll call vote to adopt Resolution 2017-10.

1MG Reservoir Roof Replacement /Painting

Mr. Kaspari reported the roof is on the reservoir. He stated the contractor is doing a good job and the design is great. The painter is on site and expects to be done in one to two weeks. He gave the painter permission to paint from 7 am to 7 pm and on weekends. He noted that when the painter needs to do sandblasting, it will make some noise. Superintendent Davidsen notified the neighbors of this and none voiced concerns. Mr. Kaspari stated although he is happy with the work done, he is not happy with the project management and explained the reasons why. He has repeatedly requested and not received a current schedule. The last schedule he has shows a completion date of October 5th which is past the contract completion date of September 22nd. The contract does have a clause for liquidated damages. He and Mr. Friedenbach inquired if the Board wished to pursue liquidated damages. Mr. Friedenbach added that the contract due date and liquidated damages clause was made very clear to the contractor during management calls. Also, based on the phone call yesterday, the contractor stated they plan to finish by the end of October. Director Fuller asked Mr. Davidsen when he needed the project to be completed by. Superintendent Davidsen stated he would like to have it completed by mid-October when the TRF starts running. He can do a work around but it is not desirable. Director Hecathorn asked about the reason for the delay. Mr. Kaspari stated no reason was provided nor was there a request for additional time. Director Latt suggested Mr. Kaspari determine the additional billing on his part related to the overdue project and perhaps invoke the liquidated damages at the end of the contract. Mr. Friedenbach stated we will have another meeting prior to completion of the job and will bring the topic back for discussion.

Surge Tower Replacement and 12kV Replacement

Mr. Kaspari stated he is still waiting to hear back on the NEPA review for both projects.

Collector Mainline Hazard Mitigation Grant

Mr. Kaspari was happy to report the Notice of Intent was approved. Mr. Friedenbach stated he misspoke at the last meeting regarding the option selected and clarified that Alternative 3 is the option selected at \$2,415,000. This option is within the 1-MG Reservoir Drain Line Right of Way. The original pipeline will remain and this will be a redundant line. Also, currently a portion of the existing line goes under the Essex Control building. This will be re-routed at an approximate cost of \$600,000 for a total project cost of \$3 million.

Sheriff's Cove Dredging

This project is going out to bid soon. There is some concern about it being completed before the winter season.



HUMBOLDT BAY MUNICIPAL WATER DISTRICT
828 7th Street, Eureka



Minutes for Meeting of Board of Directors

September 14, 2017

Spillway Assessment

Mr. Friedenbach stated as a direct result of the major incident at Oroville Dam, Governor Brown ordered detailed evaluations of dam appurtenant structures, such as spillways. The District received a letter from the Department of Water Resources, Division of Safety of Dams (DSOD) requesting a comprehensive condition assessment of the spillway as soon as possible. Mr. Friedenbach summarized the new DSOD spillway requirements and noted that we meet or exceed these already. The District has and will continue to conduct physical inspections of the dam and spillway, and regularly conducts routine maintenance. He stated the spillway is assessed annually as part of the Dam Safety Surveillance Monitoring Plan required by the Federal Energy Regulatory Commission (FERC). Mr. Kaspari reported out on the testing done to ensure the spillway is in good working order and stated no areas of concern were found. He also noted that inspectors and experts who have inspected the dam and appurtenances always comment on what a great job the District does in regards to dam safety.

2. Financial

Ms. Harris provided the August 2017 Financial Report. She highlighted the ReMAT revenue and discussed the new format for the Salary and Employee Benefit Expenditures. The new format will save Ms. Moyle a lot of time in comparison to the previous format. Director Hecathorn stated the new format is good. Director Latt reviewed the bills. On motion by Director Hecathorn, seconded by Director Fuller, the Board voted 4-0 to approve the August 2017 financial statement and vendor detail report in the amount of \$305,086.01.

3. Operations

Mr. Davidsen provided the August Operational Report. Training included defensive driving and Rockwell training for the SCADA system. He attended the Arcata Flood Planning meeting and assisted them with planning regarding our EAP for a dam break. Scott Wood of JPIA was up for his annual visit and reviewed the safety program and record keeping regarding the safety training. He made a few suggestions and was pleased overall. Mr. Davidsen will be implementing his suggestions. This week, the Essex crew is prepping for the installation of pumps for Collector 1. The new SCADA is up and running and is going well overall. Mr. Davidsen heard from other municipalities that have SCADA projects and theirs is not going as smooth as our project. Staff is going to a lot of SCADA training on the new system, however, if there are any problems, they can be fixed in house now. The system also has a "historian" program that will make required State reporting more efficient.

4. Management

CSDA

Mr. Friedenbach provided an update on the status of the local chapter formation. There are currently over 50 local CSDA members in Humboldt County. He shared the Chapter Bylaws. The purpose of the local chapter is to propose and advocate constructive means for the improvement and functioning of Independent Special Districts and their governing bodies to provide an effective and efficient government that will result in benefits to the public and to cooperate with and support CSDA in fulfilling its mission. The cost to join the local chapter is \$50.00 and is low since each agency will provide its own insurance. Staff recommends joining the local chapter, and the General Manager and Business Manager be the District Representatives. If the Board concurs, staff recommends approving Resolution 2017-09



HUMBOLDT BAY MUNICIPAL WATER DISTRICT
828 7th Street, Eureka



Minutes for Meeting of Board of Directors

September 14, 2017

Approving membership in Humboldt Area Chapter of CSDA. On motion by Director Hecathorn, seconded by Director Latt, the Board voted 4-0 to approve Resolution 2017-09.

Emergency Action Plan (EAP)

Mr. Friedenbach stated FERC requires hydroelectric dam owners to maintain an EAP. The District has an EAP for R.W. Matthews Dam and the most recent one was submitted in February 2014. The purpose of the EAP is safeguard the lives and property of citizens of Southern Trinity County and Humboldt County along the Mad River in the unlikely event of a dam failure. The EAP specifies the District's notification responsibilities and is intended to facilitate a timely reaction to an actual or threatened dam failure. The main components of an EAP are notification flow charts, inundation maps and observation point maps. He clarified the District is responsible for the notification process, not evacuation. Mr. Davidsen recently participated in a flood planning meeting that covered the evacuation process. The notification flow charts are updated yearly or as needed. Face to face meetings are conducted annually with the EAP plan holders and a table top exercise is held every five years to test the notification process.

K. DIRECTOR REPORTS & DISCUSSION

1. General

Nothing to report.

2. ACWA – JPIA

Nothing to report.

3. ACWA

ACWA Water news

Mr. Friedenbach noted that Paul Kelley is stepping in as Acting Executive Director (ED) while the current ED is out on medical leave. Also, Grant Davis of Sonoma County Water Agency was appointed Director of DWR by Governor Jerry Brown.

ACWA Outreach Advisory- Water Professionals Appreciation Week

The Senate is considering a resolution that would designate a Water Professionals Appreciation Week during the month of October. Mr. Friedenbach stated if the resolution passes, he would like the District to participate in some way. ACWA has provided suggested activities. He inquired if the Board would be supportive of staff time to promote Water Professional Week. Consensus was yes and that staff should be acknowledged during that week.

4. Organizations on which HBMWD Serves: RCEA, RREDC, NCRP

RCEA

President Woo reported out on the RCEA meeting. She stated she anticipates an increase in public attendance at the meetings as they begin to discuss biomass.



HUMBOLDT BAY MUNICIPAL WATER DISTRICT
828 7th Street, Eureka



Minutes for Meeting of Board of Directors

September 14, 2017

RREDC

Director Latt reported out on the RREDC meeting. Matthew Marshall, Executive Director of RCEA provided a presentation on the Community Choice Energy Program. Mr. Marshall stated the opt out rate for the CCA is relatively low compared to other CCA's. Director Latt suggested staff look into an RCEA program to provide more energy efficient lighting for the District at low to no cost via their energy program.

ADJOURNMENT

The meeting adjourned at 3:55 pm.

Attest:

Sheri Woo, President

J. Bruce Rupp, Secretary/Treasurer

CONSENT

Division of Flood Management

2017 California Preseason Flood Coordination Meetings



Department of Water Resources



Agenda Topics

Winter Weather Outlook

Regional Updates

Flood Fight Materials and Training

Agency Coordination during a Flood

Upcoming DWR Grants to Local Agencies

Web Resources for Situational Awareness

Flood Threat Mitigation Process and Requests for State Assistance

Recovery and Damage Assessment

Local Flood Concerns

You are invited to join flood emergency response partners to discuss flood preparedness in your region. Hosted by County Offices of Emergency Services in partnership with the State-Federal Flood Operations Center, these meetings provide regional and local updates on annual flood preparedness activities.

MONTEREY

Tuesday, September 12
9:00 a.m. – 12:00 noon
Seaside Community Center
220 Coe Avenue
Seaside

KINGS

Wednesday, September 13
9:00 a.m. – 12:00 noon
Kings County Government Ctr.
Admin, Multi-Purpose Room
1400 W. Lacey Blvd.
Hanford

MERCED

Thursday, September 14
9:00 a.m. – 12:00 noon
Merced County
Emergency Operations Ctr
3500 N. Apron Avenue
Atwater

SONOMA

Tuesday, September 19
9:00 a.m. – 12:00 noon
SCWA Redwood Room
404 Aviation Blvd.
Santa Rosa

SOLANO

Thursday, September 21
9:00 a.m. – 12:00 noon
Solano County EOC
530 Clay Street
Fairfield

VENTURA

Tuesday, September 26
9:00 a.m. – 12:00 noon
Ventura County Hall of Justice,
Pacific Conference Room
800 S. Victoria Avenue
Ventura

Continued on next page

Division of Flood Management

2017 California Preseason Flood Coordination Meetings



Department of Water Resources



Preseason meetings include scheduled presentations from these agencies:

National Weather Service
(NWS)

County Offices of Emergency
Services (OES)

California Governor's Office of
Emergency Services (Cal OES)

Department of Water
Resources (DWR)

Central Valley Flood Protection
Board (CVFPB)

California Conservation Corps
(CCC)

CAL FIRE

U.S. Army Corps of Engineers
(USACE)

LOS ANGELES

Wednesday, September 27
9:00 a.m. – 12:00 noon
Los Angeles County EOC
1275 N. Eastern Ave
Los Angeles

SAN BERNARDINO

Thursday, September 28
9:00 a.m. – 12:00 noon
San Bernardino County EOC
1743 Miro Way
Rialto

COLUSA

Tuesday, October 10
9:00 a.m. – 12:00 noon
Colusa Fire Department
Training Room
750 Market Street
Colusa

YUBA

Tuesday, October 17
9:00 a.m. – 12:00 noon
Yuba County Gov. Center
Marysville Conference Room
915 8th Street
Marysville

TEHAMA

Tuesday, October 24
9:00 a.m. – 12:00 noon
Tehama County
Agricultural Center
1834 Walnut Street
Red Bluff

HUMBOLDT

Thursday, October 26
12:00 noon – 3:00 p.m.
Humboldt Foundation
Emmerson Room
363 Indianola Road
Bayside (Eureka)

Who should attend these meetings?

- Managers and key emergency responders from California public agencies with primary responsibility for flood emergency response and coordination
- Tribal governments, counties, cities, flood control districts, reclamation districts, and local maintaining agencies

For questions please contact Pat Clark at (916) 574-1249, Patricia.Clark@water.ca.gov or call the Flood Operations Center directly at (916) 574-2619.

John Friedenbach

From: Nakamoto, Rodney J -FS <rnakamoto@fs.fed.us>
Sent: Thursday, September 14, 2017 8:46 AM
To: John Friedenbach
Subject: Sacramento suckers

Good morning John, I wanted to give you an update on our research. Thus far, the suckers have not moved into the pools adjacent to your pump stations as they did last year. We have been able to locate a couple of schools near the Blue Lake bridge. We have tagged some of those fish but are finding out that predation pressure on those fish is extremely high from cormorants, mergansers, river otters and osprey. We will continue to survey the pools around the pump stations but at this point the fish are not there. Thanks for your help with this project. Rod



Rodney J. Nakamoto
Fisheries Biologist
Conservation of Biodiversity Program

Forest Service
Pacific Southwest Research Station

p: 707-825-2932
c: 707-499-0517
f: 707-825-2901
rnakamoto@fs.fed.us

1700 Bayview Drive
Arcata, CA 95521
www.fs.fed.us



Caring for the land and serving people

This electronic message contains information generated by the USDA solely for the intended recipients. Any unauthorized interception of this message or the use or disclosure of the information it contains may violate the law and subject the violator to civil or criminal penalties. If you believe you have received this message in error, please notify the sender and delete the email immediately.



[Click here to view it in your browser.](#)

OUTREACH ADVISORY

Sept. 18, 2017

Key Water-Related Bills Held at End of Legislative Session

Oct. 1 Outreach Award Deadline Also Approaches

The 2017-'18 Legislative Session has been challenging by all accounts. ACWA staff, working with members and other stakeholders, were a formidable team, and successfully pushed major high-priority water-related bills to next session. The following is a summary of the status of key bills following the Sept. 15 end of the first of year of the 2017-'18 Legislative Session.

ACWA also wishes to remind members that Oct. 1 is the last day to submit outreach interaction forms to receive credit for your agency outreach and be honored at Fall Conference. The ACWA Outreach Program plays a key role in the association's advocacy efforts. Contacts made by ACWA members with legislators, key regulators, and administration officials have directly affected the outcomes of numerous decisions this session and helped advance the association's legislative and regulatory agenda. To receive credit for ACWA's Outreach Awards Program, interactions must be received by Oct. 1 of each year. The Outreach Interaction Form is [here](#).

Tax on Drinking Water - SB 623 (Monning)

SB 623 by Sen. Bill Monning (D-Carmel) proposes a tax on drinking water to fund safe drinking water solutions for disadvantaged communities. The bill became a two-year bill on Sept. 1. ACWA's two-pronged approach to SB 623 – strong and effective advocacy combined with extraordinary communications – was critical to the Assembly Appropriations Committee's decision to re-refer the bill to the Assembly Rules Committee as a two-year bill..

During the final week of session, SB 623 supporters continued to push non-stop to move the tax on water this year but were

unsuccessful. ACWA will continue to work on the bill during the interim and will likely hold additional talks with the sponsors of SB 623.

ACWA members with questions on SB 623 should contact ACWA Deputy Executive Director for Government Relations Cindy Tuck (cindyt@acwa.com) at (916) 441-4545.

Long-Term Conservation - AB 1668 (Friedman) and SB 606 (Hertzberg/Skinner/Friedman)

After months of intense advocacy by ACWA, its members, and other stakeholders, AB 1668 (Friedman) and SB 606 (Hertzberg/Skinner/Friedman) both became two-year bills when they were held in the Legislature on Sept. 15..

ACWA worked intensely for months to refine provisions in the bills but key concerns remained even after several rounds of amendments. ACWA's State Legislative Committee held an emergency meeting Sept. 11 to review late-breaking amendments to both bills and after detailed discussion voted to retain the position of "oppose unless amended" for both bills.

ACWA members with questions on AB 1668 or SB 606 should contact ACWA Senior Legislative Advocate Whitnie Wiley (whitniew@acwa.com) at (916) 441-4545.

Environmental Protection Act - SB 49 (De León)

SB 49 by Senate Pro Tem Kevin De León (D-Los Angeles), which seeks to preserve and maintain environmental protections in place prior to the Trump Administration, became a two-year bill Friday, Sept. 15.

ACWA opposes SB 49 because it would present a number of unintentional adverse consequences especially with regard to management of the Delta. For example, SB 49 would function to prevent an improvement in overall Delta management because no changes would be allowed that expand takings under the Endangered Species Act, even when overall, the change is better for the environment.

ACWA members with questions on SB 49 should contact ACWA Director of State Legislative Relations Wendy Ridderbusch (wendyr@acwa.com) at (916) 441-4545.

**CONTACT
Cindy Tuck**

ACWA Deputy Executive Director for Government Relations
(916) 441-4545





Click [here](#) to view it in your browser.

OUTREACH ADVISORY

Sept. 26, 2017

Bill Addressing Lead Testing in Schools Awaits Action by Governor

AB 746 by Assembly Member Lorena Gonzales-Fletcher (D-San Diego), which would require sampling and testing by community water systems for lead in drinking water at schools, was passed by the Legislature earlier this month and is now awaiting action by Gov. Jerry Brown.

While ACWA does not plan to request any specific action on the bill – either a signature or a veto – ACWA members should be aware of impending action by the governor on this legislation.

Background

The Legislature considered six bills regarding lead in drinking water this year, including two bills addressing testing and sampling at schools – AB 746 and AB 885 by Assembly Member Blanca Rubio (D-West Covina).

ACWA's State Legislative Committee Lead in Drinking Water Working Group met multiple times in 2017 to discuss these bills. Early on, the group came to the conclusion that the Legislature was likely to pass a bill that would mandate sampling and testing and that ACWA should focus on amendments to make the bills workable. While there were concerns raised with both bills, the working group considered AB 885 to be more problematic.

After considering both bills, ACWA adopted a "favor if amended" position on AB 746 and a "not favor unless amended" position on AB 885. ACWA also submitted suggested amendments for both bills.

Although some helpful amendments were made to AB 885, they did not fully address ACWA's concerns. However, AB 885 is now a two-year bill.

AB 746 was greatly improved after several rounds of amendments – although Sept. 8 amendments shifted the responsibility for testing and sampling from local educational agencies, as initially proposed, to "community water systems." (State law defines "community water system" as a public water system that serves at least 15 service connections used by yearlong residents or regularly serves at least 25 yearlong residents of the area served by the system.)

While ACWA would prefer schools be responsible for the sampling and testing, as initially proposed, AB 746 is otherwise much improved and deals with many of the bill's issues in a reasonable way. AB 746 also is much better than early versions of AB 885.

Following are examples (not a complete list) of how the bill deals with key issues in a reasonable way:

1. **Credit for Already-Conducted Testing:** ACWA recommended for both AB 746 and AB 885 that credit be given for already-conducted testing. The enrolled version of AB 746 makes the bill's terms not applicable where the local educational agency completed lead testing at the school site after Jan. 1, 2009.
2. **One-Time Testing/Sunset Clause:** AB 885 had proposed annual sampling and testing, while the prior version of AB 746 had proposed testing every three years. ACWA suggested that one-time testing was sufficient (with possible additional testing for confirmation purposes after corrective action). The enrolled version of AB 746 requires one-time sampling to be completed by July 1, 2019, and the bill would be repealed on Jan. 1, 2020.
3. **Reliance on Existing Standards:** AB 885 started out with a proposed definition of "elevated lead level" of greater than 1 part per billion (ppb) – even though the federal action level for community water systems is 15 ppb. The enrolled version of AB 746 relies on the 15 ppb level as the action level.
4. **Allowance for a Sampling Plan:** AB 885 proposed required sampling at every outlet (e.g., every faucet or drinking water fountain). The enrolled version of AB 746 allows for a sampling plan. If elevated levels are detected, additional testing might be required.

For the above-listed reasons, and given various political considerations, ACWA has decided not to request any specific action on this bill by the governor.

Questions

If you have questions regarding AB 746, please contact ACWA Deputy Executive Director for Government Relations [Cindy Tuck](#) at (916) 441-4545.

CONTACT
Cindy Tuck
ACWA Deputy Executive Director for Government Relations
(916) 441-4545





California Special
Districts Association
Districts Stronger Together

e-News



State Corrects Source of Long-Standing Misnomer About Special Districts

State Controller Betty Yee has unveiled updates to California's Local Government Financial Data website, www.ByTheNumbers.sco.ca.gov, improving reporting accuracy and public accountability for local government. CSDA worked with the State Controller's Office (SCO) for more than a year in search of a solution to better represent data related to independent special districts on the SCO's website.

Previous iterations of the website aggregated independent special districts, dependent special districts, joint powers authorities, and non-profit corporations, giving the public a misconception as to the number of special districts. The new site allows users to distinguish between each type of local entity, rather than simply lumping them all together.

While there are now 2,071 independent special districts in California, countless publications over the years have inaccurately cited California's Local Government Financial Data to report the existence of as many as 4,800 special districts. Controller Yee's efforts correct the source of this long-standing misnomer, while improving the public's access to and usability of more accurate data.

Controller Yee's updates to "By the Numbers" accomplishes precisely what the Little Hoover Commission recently called for as Recommendation 10 within its report, [Special Districts: Improving Oversight & Transparency](#). This action builds upon the [previously announced](#) work by the SCO to revise the forms and instructions for the financial transaction reports that supply the data to the updated SCO website. Those efforts satisfied recommendation 8 in the Little Hoover Commission report.

CSDA applauds State Controller Betty Yee's continued efforts to ensure the public receives the most accurate and useful information about special districts.

[California Special Districts Association](http://www.californiaspecialdistricts.org) | 1112 I Street | Suite 200 | Sacramento, CA 95814 | 877.924.CSDA (2732)



A Proud California Special Districts Alliance Partner

The West's Wildfires Are Taking a Toll on Reservoirs

["Water Deeply" Sept. 20, 2017]

SECTION Flc, PAGE NO. 1

New research predicts that an increase in the frequency and magnitude of wildfires will double the rates of sedimentation in one-third of the West's large watersheds, reducing reservoir storage and affecting water supplies.

WRITTEN BY Alastair Bland

PUBLISHED ON 6 Sep. 20, 2017

READ TIME Approx. 5 minutes



California's Sierra Nevada foothills are still recovering from the 2014 King fire that burned 98,000 acres, about 40,000 of which were within the Placer County Water Agency's drainage area. Tara Lohan

AROUND CALIFORNIA, THE country and the world, reservoirs are silently filling with sediment, and only a few people are thinking about it. Among them is Tim Randle, a civil engineer with the United States Bureau of Reclamation's Sedimentation and River Hydraulics Group.

"We used to be gaining water storage capacity with dam building," said Randle, who is based in Denver. "Now, around the world, the pace is slowing down as sediment builds up. This is true in the U.S., too."

In the Paonia Reservoir, completed in 1962 in Gunnison County, Colorado, for example, the dam's outlet was built 60ft off the lake's bottom. Now, Randle says, the bottom of the lake is above the outlet.

The outlets in many other small reservoirs have become clogged with sediment, requiring expensive dredging or even the removal of the dams. Other times, boat ramps and marinas get buried and filled in. According to Randle, about 35 percent of the reservoirs managed by his agency have been surveyed for sediment fill. With most reservoirs, however, how much capacity has been lost is a matter of educated guesswork.

“Lake Powell probably has 1 million acre-feet less water than what we think,” Randle says.

And now the problem is predicted to get much worse.

According to new research from the U.S. Geological Survey, in many regions erosion rates are now accelerating thanks to wildfires and climate change. The western U.S., which relies on reservoirs for vital water storage and flood control, will be particularly impacted.

The problems of reservoir sedimentation have been at least somewhat understood for centuries, and most dams in the United States have been built with average rates of upslope erosion factored into the placement of the outflow pipes. In more erosive watersheds, Randle says, outlets are built higher off the soon-to-be reservoir’s bottom. In watersheds where soil naturally moves downslope at a slower pace, dam intakes can be built at a lower elevation.

Authors of the USGS study, which was published September 7 in the journal *Geophysical Research Letters*, wrote that projected increases in the frequency and magnitude of wildfires will double the rates of sedimentation in one-third of 471 large watersheds in the western U.S. within the next 33 years. In almost nine out of 10 of the watersheds assessed, sedimentation could increase by at least 10 percent, the researchers warned. In some watersheds, the researchers predict, erosion and sedimentation could increase by 1,000 percent. Climate change, they concluded, is the underlying culprit.

Randle says climate change – which may already be increasing the intensity of droughts and, in turn, wildfires – is driving a vicious cycle whereby sedimentation rates increase. This reduces reservoir storage space, “which leaves you less prepared for the next drought.”

Joel Sankay, a coauthor of the study and a USGS research geologist, says portions of the Cascade Range in Washington, Oregon and California, as well as parts of the Sierra Nevada, are likely to experience particularly dramatic increases in fire damage and

subsequent erosion. Since the root systems of trees and shrubs literally hold mountainsides together, when such vegetation dies en masse – as it can in destructive wildfires – vast quantities of soil may subsequently erode into streams and rivers. Sankay says the first year after a fire presents the greatest erosion hazard.

But impacts may last for years. In California's Sierra Nevada foothills, much of the acreage incinerated by the 2014 King fire remains mostly bare.

“We're just beginning to see the small plants return, and this is year three after the fire,” said Andy Fecko, the Placer County Water Agency's director of resource development. “We expect it will be five to 10 years before the watershed recovers.”

The King fire burned 98,000 acres, about 40,000 of which were within the Placer County Water Agency's drainage area. This has caused an “exponential” increase in local erosion, Fecko said.

Elsewhere, water and forest managers well know the correlation between fires and post-burn erosion. For example, more than 1 million cubic yards of sediment entered Strontia Springs Reservoir, a major supply lake for Denver Water, following the Hayman fire, which burned 138,000 acres in Colorado in 2002.



There has been so much sedimentation at the Paonia Reservoir in Gunnison County, Colorado, that the bottom of the lake is now above the outlet. (Jeffrey Beall / Flickr)

Randle says the preferred course of action in mitigating sedimentation is preventative – especially protecting upslope areas against erosion, which results mostly from fires, logging, farming and development. Once sediment enters reservoirs, it is more challenging to deal with. He says dam operators may open the release gates to allow muddy water that has gushed into a reservoir after a storm to exit the system before the sediment can sink to the bottom.

Once sediment has settled to the bottom, the most effective means of removal is dredging, which can be costly.

“It’s much more expensive to dredge out your reservoirs after a fire than it is to take preventive action, like reducing fuel loads and restoring forests,” said Jason Kreitler, a research geographer with the USGS and a coauthor of the study.

Dredging a reservoir can cost as much as \$60 per cubic yard of material, according to Randle. Some operations remove hundreds of

thousands, and even millions, of cubic yards of material. Finer-grained silt and clay is cheaper to deal with.

“Sand and gravel is coarser and tends to do more damage to the dredging equipment,” he noted.

Denver Water has spent \$27 million removing debris and sediment from Strontia Springs Reservoir, according to a June report. The Los Angeles County Public Works plans to spend \$190 million dredging four reservoirs impacted by sediment from the 2009 Station fire, according to a 2013 report from the U.S. Department of the Interior.

Fecko says his agency has removed 44,000 cubic yards of material from Ralston Afterbay, a small hydroelectric reservoir on the Middle Fork of the American River, at a cost of \$2.2 million. Still, the reservoir has lost about 50 percent of its storage capacity thanks to long-term sedimentation, he says.

Besides lost reservoir storage, there are other impacts from sedimentation. Downstream from dams, rivers become depleted of gravel – essential for spawning salmon. In fact, gravel must be poured regularly into many spawning areas to mimic gravel deposition cycles lost with dam construction. Beach erosion, too, has become a chronic problem in many coastal regions where dammed rivers no longer carry inland sands to the ocean. Japan and Taiwan, Randle says, are both experiencing rapid beach loss, as is California.

Randle, at the Bureau of Reclamation, thinks all water agencies and local governments would be wise to take a proactive stance against sediment entering reservoirs.

He likens sedimentation of reservoirs to clogged arteries.

“You might not have symptoms until you have a heart attack,” he noted. With sedimentation of reservoirs, he explains, the impacts do not appear until the sediment clogs a dam’s outflow or until the problem literally surfaces.

“And for every reservoir in the world, it’s not a matter of if this will happen, but when,” Randle said.

Wildlife protectors on Butte Creek have a new battle cry: Save the dam

BY JANE BRAXTON LITTLE

jbittle@dyerpress.com



OCTOBER 03, 2017 10:00 AM

In the annals of wild fish tales, hydroelectric projects are always cast as villains. They create dams that block fish from reaching spawning grounds.

The dams form reservoirs, warming the water to fish-killing temperatures. And hydro managers release water into streams when it profits their bottom line, not when it benefits fish and other wildlife.

AT A TIME WHEN DAM ERADICATIONS ARE THE DARLINGS OF ENVIRONMENTALISTS, DESABLA IS A CONSERVATION ANOMALY.

Allen Harthorn is all for taking out dams – “every single one we can,” he said.

But when Pacific Gas & Electric Co. announced plans in February to decommission its DeSabra-Centerville Hydroelectric Project on Butte Creek, Harthorn was shocked.

After decades devoted to improving the habitat for spring-run Chinook salmon, he suddenly faced losing the progress he had so painstakingly gained without removing the three dams.

“We may be stuck with the same old beast we were stuck with 25 years ago,” Harthorn said.

DeSabra is a hydroelectric project where human-made has improved on nature. Without the cold flows its ditches and diversions deliver, California’s only stable Chinook spring run would be lost, said Tracy McReynolds, senior environmental scientist with the California Department of Fish and Wildlife.

“If we lose that as a water source – if we are subject to natural flows – it would pretty much wipe out this population,” she told me.

Hydro decommissioning may threaten conservation gains for more than Butte Creek salmon. DeSabra is one of the oldest hydro projects in California; its Centerville Powerhouse was commissioned in 1900.

But many of the state's 267 water-powered electricity plants are aging beyond the point of profitability. With solar energy entering the market, owners will likely be walking away from more than DeSabra, said Ron Stock, senior policy advocate with Friends of the River.

New owners may not be committed to the improvements environmentalists like Harthorn fought for when they couldn't remove the dams. And when things go wrong, they may not have the resources a utility like PG&E has to fix them. For another operator, "the resources may be the local handyman," Stork said.

At DeSabra, the future of an entire species is at the mercy of competent management. Built by gold miners, it cobbles together three dams, three reservoirs, two operating powerhouses and a 20-mile mishmash of tunnels, flumes and canals northeast of Chico.

The system starts at 5,560 feet in a neighboring watershed, where two reservoirs collect cold water from the West Branch of the Feather River. PG&E releases water as needed through a canal across Paradise Ridge into Butte Creek, where it descends 4,000 feet into DeSabra Reservoir.

It is both the volume and the temperature of this high-elevation flow that has enhanced Butte Creek's salmon population. After dams on the upper Sacramento and Pit rivers decimated other spring runs, Butte supports the most robust population of the four Sacramento River tributaries hosting the state and federally threatened species.

Since forming Friends of Butte Creek in 1999, Harthorn and others have worked with PG&E and public agencies to improve flows for spawning and create cold holding pools. Below DeSabra they removed dams and invested \$60 million in fish screens and land acquisitions.

The improvements rocketed the annual numbers of salmon returning to spawn from less than a hundred to tens of thousands. Today Butte Creek is a spring-run Chinook stronghold key to preserving the species.

At a time when dam eradications are the darlings of environmentalists, DeSabra is a conservation anomaly. While the 850 dams removed from waters across the country since 1999 have stabilized fish populations and improved the habitat for birds and other wildlife, taking down the DeSabra system would be unquestionably negative for salmon.

Last month PG&E began soliciting a new owner after the federal agency regulating dams refused to approve decommissioning. Harthorn hopes for the best but fears the worst: Less cold water in Butte Creek and a catastrophic salmon die-off.

Ironic as it may seem for a damn-the-dams advocate, he will battle through the uncertainties to make sure DeSabra continues to benefit salmon: "It's just something we have to do."

Jane Braxton Little, a freelance writer, covers science, natural resources and rural Northern California from Plumas County. Contact her at janebraxtonlittle.com.

Arcata soil company settles in water contamination lawsuit

Humboldt Baykeeper warns of chemical runoff on former mill sites

By Will Houston, Eureka Times-Standard

Tuesday, October 3, 2017



The Arcata-based soil company Royal Gold LLC recently settled a federal civil lawsuit filed by Humboldt Baykeeper that alleged the company allowed harmful chemicals at its Glendale soil mixing facility to contaminate the Mad River and the nearby Mill Creek.

The company agreed to make a variety of infrastructure changes to prevent contaminated runoff from entering soil and groundwater; continue water sampling for the next two years to determine if the changes have been effective; allow Humboldt Baykeeper's attorneys to inspect the facility twice and pay it \$7,500 for doing so; pay \$40,000 for environmental projects to improve water quality on Mad River or Humboldt Bay; and pay the Betty Kwan Chinn Homeless Foundation \$10,000 to build permanent public toilets in order to reduce contamination of Humboldt Bay, according to court documents.

Royal Gold has been operating the 15-acre soil mixing facility on the former Blue Lake Forest Products mill site since 2009, according to court documents.

Humboldt Baykeeper Executive Director Jennifer Kalt urged potential buyers of former timber mill properties to determine whether soil and groundwater at the site has been contaminated with chemicals. Kalt said this is especially important for cannabis businesses as the county is currently proposing to incentivize businesses to reuse former industrial sites.

"Although some former lumber mill sites may be appropriate locations for new cannabis-related businesses, many of them are contaminated with industrial chemicals, including dangerous and long-lasting dioxins from the use of a wood preservative, pentachlorophenol," Kalt said. "Without full knowledge of the extent of these pollutants and proper cleanup, ground disturbance at these sites can impact our waterways, as well as human health."

Royal Gold's President Chad Waters declined to comment for this article. This reporter's attempts to contact Royal Gold's Lafayette-based attorneys James Arnold and John Beard were not returned by 5 p.m. Tuesday. By signing the consent decree, Royal Gold is not admitting liability to the lawsuit's claims.

In addition, the company was also ordered to partially reimburse Humboldt Baykeeper's law firm Aqua Terra Aeris LLP \$91,000 for investigation, consulting, attorney-related and other costs incurred during the lawsuit. Kalt said that Humboldt Baykeeper will not be receiving any money as part of the settlement agreement.

Humboldt Baykeeper, an Arcata-based nonprofit of the Northcoast Environmental Center, filed the lawsuit in October 2016 alleging Royal Gold was violating the federal Clean Water Act by allowing contaminated stormwater runoff to enter the Mad River watershed without a proper plan in place to prevent it. The lawsuit claims the company had also not fully reported its industrial activities.

Meanwhile, the county Planning and Building Department is currently conducting an environmental review of Royal Gold's proposal to expand its operations at the Glendale facility. Humboldt Baykeeper appealed the expansion project in 2016 as well the Royal Gold's finding that its project would not have any significant environmental impacts.

Humboldt Baykeeper claimed Royal Gold had already begun construction on the project without proper permits.

Planning and Building Director John Ford confirmed to the Times-Standard on Tuesday that the company had not obtained county permits before it began construction. Ford said the company has already laid down some asphalt, had begun turning over soil at another site and had built a large hoop structure where it could unpack the coco fiber bales it uses in its soils.

Ford said some of the construction — such as the company creating a multi-tiered set of settling ponds for water quality improvement — has been "really good" despite not being permitted. Ford said the county is currently analyzing whether any groundwater is running near an area of contaminated soil at the facility that has already been capped off.

Rather than bring the matter to the county code enforcement unit, Ford said that his department seeks to remedy the situation by getting the project through the permitting process.

Once the county's environmental review is completed, Ford said that Royal Gold will need to submit another environmental review — or a finding that their project would not significantly impact the environment — which the public and Board of Supervisors will have a chance to review. Ford said he anticipates the environmental review will be completed in the near future.

Will Houston can be reached at 707-441-0504.

Government jobs bud as legal pot looms in Calif.

Michael R. Blood, Associated Press

Updated 2:49 pm, Saturday, September 30, 2017

LOS ANGELES (AP) — Scientists. Tax collectors. Typists. Analysts. Lawyers. And more scientists.

Recreational marijuana use becomes legal in California in 2018, and one of the things to blossom in the emerging industry isn't green and leafy - it's government jobs.

The state is on a hiring binge to fill what eventually will be hundreds of new government positions by 2019 intended to bring order to the legal pot economy, from keeping watch on what's seeping into streams near cannabis grows to running background checks on storefront sellers who want government licenses. Thousands of additional jobs are expected to be added by local governments.

The swiftly expanding bureaucracy represents just one aspect of the complex challenge faced by California: Come January, the state will unite its longstanding medical cannabis industry with the newly legalized recreational one, creating what will be the United States' largest legal pot economy.

Last January, just 11 full-time workers were part of what's now known as the Bureau of Cannabis Control, the state's chief regulatory agency overseeing the pot market. Now, it's more than doubled, and by February the agency expects to have more than 100 staffers.

The agency is moving into new offices later this year, having outgrown its original quarters. It's expected new satellite offices will eventually spread around the state. There also will be scores of jobs added to issue licenses for sellers, growers, truck drivers, manufacturers and others working in the projected \$7 billion industry. The state has taken to Facebook to lure applicants.

The bureau is using a video snippet of actor Jim Carrey, hammering his fingers into a computer keyboard, to catch the eye of prospective applicants online. "Get those applications in ... before this guy beats you to it," it reads. "New job just ahead," reads another post. "We're hiring." This year's state budget contained about \$100 million to fund regulatory programs for marijuana, which includes personnel to review and issue licenses, watch over environmental conditions and carry out enforcement.

Planned hiring into 2018 covers a range of state agencies: Fifty people are bound for the Public Health Department, 65 are slated to join the Water Resources Control Board, and 60 new employees are expected at the Food and Agriculture Department, which will oversee licensing for cultivators. Some of the work is highly specialized.

Environmental scientists will be responsible for developing standards for pot grows near streams, to make sure fertilizer or pesticides do not taint the water or harm fish. An engineer will monitor groundwater and water being diverted to nourish plants. Lawyers are needed to help sort out complex issues involving the state's maze of environmental laws.

Pay varies with position but can be attractive, with some scientist posts paying over \$100,000 annually. Special investigators with the Consumer Affairs Department could earn in the \$80,000 range.

Policing cannabis cultivation, legal and not, has been a long-running concern in the state. Recently, Republican state Sen. Ted Gaines of El Dorado urged Gov. Jerry Brown to declare a state of emergency in Siskiyou County because of what he called rampant illegal marijuana grows.

Gaines said criminals are treating the county as "their own illicit greenhouse" while polluting waterways with pesticides and other waste.

Meanwhile, the state and local governments are rushing to enact rules to govern the new pot economy, a process that so far has produced mixed results.

The state says it will be ready to begin issuing licenses in January, albeit temporary ones.

In coastal Mendocino County, about 700 cultivators have applied for local permits, though it's estimated thousands of people grow pot in the county north of San Francisco. The fear is that many growers and sellers will remain in the black market, undercutting legitimate sales. "My biggest concern is that the state regulations may prove to be so onerous that it will discourage people who want to be legally compliant from coming forward," said John McCowen, who chairs the county Board of Supervisors. "And that will mean greater opportunity for those operating in the black market," McCowen added.

While the state is adding jobs to oversee the marketplace, law enforcement will face new demands that come with a price tag, from keeping roads free of stoned drivers to helping weed out illegal operators. The California Highway Patrol is expanding training for officers to identify "buzzed" drivers. In cities that permit cultivation, manufacturing or sales, police duties could also include protecting legitimate operators from gangs intent on pushing them out of business.

And a key issue will be keeping legally grown pot from moving into the black market. To combat illegal activity, whether through code enforcement or police, "we are going to have to invest," said Gardena Police Chief Edward Medrano, who heads the California Police Chiefs Association.

WRITTEN BY Matt Weiser

PUBLISHED ON Oct. 3, 2017

READ TIME Approx. 7 minutes

No one yet knows how big the legalized recreational marijuana business will become. But as it grows, water consumption is sure to become a concern in the arid West. Brandy Keen gives one industry leader's point of view.

MARIJUANA IS BECOMING big business around the West as more states legalize the plant's cultivation for recreational purposes. California's entry into the field, which becomes official on January 1, is certain to bring an explosion of cannabis-related commerce simply because of the size of its market.

All this poses a vital question: How much will marijuana tax the West's water supplies?

No one knows the answer to that yet, but some in the industry are already working diligently to slash marijuana's water footprint. Marijuana is known to be a thirsty crop, but much of that depends on how it's grown.

To get a feel for this landscape, Water Deeply recently interviewed Brandy Keen, co-founder and senior technical adviser at Surna. The company, based in Boulder, Colorado, makes and distributes water-efficient indoor cultivation equipment and serves as a consultant to growers who want to manage their resource consumption and expenses.

Keen got into the business when she and her husband, an epileptic, discovered that marijuana helped manage his seizures and eliminated his need for conventional medication. In September, Keen was a featured speaker on water and energy conservation at the Cannabis World Congress and Business Expo, held in Los Angeles.



Brandy Keen, co-founder and senior technical adviser of Surna Inc., which makes and distributes water-efficient indoor cannabis cultivation equipment and also serves as a consultant to growers. (Photo courtesy Surna, Inc.)

Water Deeply: How much water does marijuana use?

Brandy Keen: It's pretty water-intensive. It uses a lot of water in comparison to other crops. But what's really interesting is that cannabis is grown in a controlled environment far more often than agricultural food crops. And when you cultivate in a controlled environment, you can dramatically reduce waste [such as] runoff associated with growing in fields, for instance.

In California, a lot of folks are still growing their marijuana plants outside, but they're growing them in pots in an effort to conserve water. But they may still have a bunch of evaporation out of their pots that the plants aren't actually using. We can reduce that

From Water Deeply

with cannabis through creative irrigation and reducing the amount of evaporation by not overwatering. That compares to a hydroponic system, where I irrigate and then store that water, and it's not evaporating.

But the most interesting thing you can do is use reclaimed condensate. No plant consumes water. Plants borrow water. They use water as a delivery mechanism for nutrients, then they transpire that water back out into the space. So when you grow in an open-air greenhouse or outdoors, all the water your plant transpires is evaporated. It just ends up back in the atmosphere.

When I grow in a controlled environment where I dehumidify that space, now I can actually recapture all that condensate. That's water I gave my plant, and I can just condense it back out of the air and reuse it. It's basically like you're producing distilled water. You just add more nutrients to it and give it right back to the plant. I can actually make this a net-zero water consumption process.

Water Deeply: How common is the use of reclaimed condensate?

Keen: It's increasingly common. In some areas reclaimed water is accepted for some kinds of agricultural use, but not accepted for cannabis yet, for whatever reason. Denver right now is actually looking at its regulations, and it looks like they're going to change it so the city of Denver will allow you to use reclaimed condensate.

Water Deeply: What does it involve mechanically?

Keen: In a controlled growing environment, you have condensate piping from cooling and dehumidifying systems already. You already are putting in the piping that puts that condensate down the drain or outside. So I just build a tank to hold it instead. It's not any more expensive from an infrastructure standpoint, except for the cost of the tank. Then you need a filtration system for the condensate, which is going to be a couple thousand dollars.

Water Deeply: Presumably there's a saving on the water bill as well.

Keen: Oh yes. If I can reduce my water consumption – even if it's just by half – that's a big deal. Keep in mind, most cultivation facilities incorporate some kind of reverse osmosis system on their municipal water supply anyway. And they do that because in order to accurately measure the nutrients I'm adding back into the water, I've got to start with low concentrations in the water. Reverse osmosis produces some parts clean water and some parts of extremely dirty water as a waste product. That means for every gallon I save through reclaimed condensate, I'm actually saving two gallons. And as that one gallon is continually reused, it eventually saves me six gallons of municipal supply.

But energy is the big cost component right now. Water is a pretty small consideration. It just doesn't cost that much to get water. If water was as expensive as energy – well, then

From Water Deeply

we'd be having a different conversation today. That being said, it's so cheap and so easy to reclaim condensate, and drop my water consumption 70 to 80 percent, there's absolutely no reason not to do it.



Small marijuana plants are viewed at The Growing Kitchen in Lafayette, Colo., in October 2014. The Growing Kitchen is set in an old scientific research facility near Boulder, Colo., 30 minutes from Denver, and is licensed for medical and recreational marijuana. (Photo by Ivan Couronne, AFP)

Water Deeply: What factors affect marijuana's water consumption?

Keen: What we see most commonly is actually a calculation based on how much light density is in the space. So the type of light the cultivator selects and the intensity of that light is what drives the transpiration from the plant. And how quickly it's transpiring tells you how much more [water] it needs to uptake.

We like to drive as much transpiration as possible because that means we're getting as much yield from the plant as we can. But water and nutrient consumption and photosynthesis are all really closely interrelated. So every time I change one of those things, they all change. If I switch to a lower-intensity bulb, I'm going to be adjusting other things to get my plant to consume as much water as it can.

We typically see watering ranges of somewhere between 3 and 5 gallons [11-19 liters] per day per kW of light – not per plant – in the building. And generally speaking, in a growing operation you have between 0.6 kW and 1 kW for every 25 square ft [2 square meters] of plant canopy.

Water Deeply: What else can be done to reduce water consumption?

Keen: People are doing things like reducing the evaporation of water outside of what your plant is transpiring: not having open tubs of water laying around, covering your pots so that water that would be evaporating out of the pot is contained so your plant can actually drink it.

That has the added benefit of helping you control your environment. Humidity is a huge problem in cultivation facilities. When I've got a bunch of water evaporating in a room, now I'm using a whole bunch of energy to dehumidify water that's not even being used by my plants.

Water Deeply: Are growers interested in saving water?

Keen: Absolutely. We have a multi-pronged reason for doing this. One is obviously the cost of cultivation. Everyone's always going to be looking at the competition and how to cultivate at a lower price point. Is the cost of water their biggest consideration? No. Overall, water is pretty inexpensive. But it's still a consideration. So that's one driver.

From Water Deeply

The other is, as I like to put it, the ability to do good and do well. We all understand we have to be stewards of this planet. Anything we can do to reduce the resource intensive cultivation of anything, we should be doing it. It takes energy to move that water and treat it. So I think the industry in general wants to do better, wants to be more efficient, wants to do these things that are better for our planet. Whether it's out of complete altruism, whether it's out of a marketing competitiveness to say, "We're a water-wise business," or whether it's simple mathematics around how I can make this less expensive to do.

Water Deeply: Do marijuana consumers care how much water their weed uses?

Keen: I don't think so. But I think in certain markets, they're going to be really receptive to the marketing component. If the grower can say "We are focusing on energy conservation and water conservation," I think there are certain buyers who would be influenced by that. Folks in more progressive markets, like California, or areas where brownouts and droughts are really common, people are a lot more focused on this kind of thing than they would be in states like Texas, where climate change doesn't exist. I'm from Texas, by the way, so I can say that.

So, certainly I think it will start to matter to the consumer. But it's the industry itself that has to start talking about it.

Water Deeply: What's the growth potential of this industry?

Keen: The sky is the limit. California and Canada are a huge focus for our company because of the marketing potential there. There are estimates that California alone is going to triple the size of the regulated cannabis market just by itself. So it's game-changing for the industry.

And it's a really positive thing, too, that we're regulating it. Because now we can actually get this information out there [about saving water]. Historically, the industry has had all these underground facilities, and everybody was kind of guessing at what they were doing, because nobody knew where they were, nobody was regulating pesticide use or water consumptive activities.

But I've already seen, in some of the cities down in the desert, where they've actually had to tell people, "we can't provide you that many acre-feet of water because the city just can't even get that much water." If we go in and reclaim all our condensate, and suddenly that's 70 percent less water – well, guess what? Suddenly we can build there. If we can figure out a way to make sure we are using water mindfully – well, then we've got a completely different opportunity there.

Denmark makes deal on water with California

The Local

news.denmark@thelocal.com

@thelocaldenmark

20 September 2017

20:15 CEST+02:00

Denmark has signed an agreement to provide water purification technology to the thirsty coastal US state of California, in a deal that could bring millions into the Danish economy.

The west coast state will spend millions of dollars over the coming years on improving water quality and reducing waste.

The deal signed with the Danish Ministry for Food and the Environment will provide the opportunity for Danish business to be involved in that development, the ministry said in a press statement.

Minister Esben Lunde Larsen, who signed the agreement, said the Californian market was ideal for Danish water technology.

Although the minister did not specify how many Danish jobs he expected the deal to create, he stressed that it was of "utmost significance" for Denmark's exporting of water technology to the US.

"In 2016, our export [of water technology] to the USA was worth one billion [kroner, \$161 million]," he told news agency Ritzau.

"Now, with this deal, we are securing access to 52 billion kroner [\$8.4 billion] in the coming years – in California alone – it is clear there is great potential," he said.

The figure cited by Larsen refers to a water improvement package approved by the state of California in 2014, writes Ritzau.

California is an important market for Denmark to gain access to, according to Lunde, with the state's water consumption double that of Denmark itself.

The deal signed by the ministry will help California to develop law and other initiatives in water technology.

Kim Nøhr Skibsted, director of communication with Grundfos, told Ritzau he was enthusiastic about the deal.

"This is a unique opportunity for Danish businesses to present solutions that can bring about sustainable solutions for water in a gigantic state like California, which suffers with water shortages," Skibsted said.

CORRESPONDENCE



HUMBOLDT BAY MUNICIPAL WATER DISTRICT

SECTION G1 PAGE NO. 1

828 SEVENTH STREET, PO BOX 95 • EUREKA, CALIFORNIA 95502-0095

OFFICE 707-443-5018 ESSEX 707-822-2918

FAX 707-443-5731 707-822-8245

EMAIL OFFICE@HBMWD.COM

Website: www.hbmwd.com

BOARD OF DIRECTORS

SHERI WOO, PRESIDENT

NEAL LATT, VICE-PRESIDENT

J. BRUCE RUPP, SECRETARY-TREASURER

BARBARA HECATHORN, DIRECTOR

MICHELLE FULLER, DIRECTOR

GENERAL MANAGER

JOHN FRIEDENBACH

September 6, 2017

Humboldt County Planning Commission
3015 H Street
Eureka, CA 95501

RE: September 7, 2017 Agenda Item 3

Dear Commissioners,

Humboldt Bay Municipal Water District (District) has received and reviewed the Public Notice of Hearing issued by the Humboldt County Planning Commission for Thursday, September 7, 2017, regarding Garth Sundberg's Surface Mining Conditional Use Permit & Reclamation Plan (app #11271, case #'s CUP-16-204/SMP-16-003/RP-16-004). This Conditional Use Permit is for up to 6,300 cubic yards of aggregate (sand & gravel) from adjacent gravel bars (Miller Almquist Bar and Simpson-Glendale Bar).

Although it is understood this project will remain consistent with the previous terms and conditions found within the previous permits, the District has two concerns for your consideration.

First, due to excessive gravel mining in the past, the District has incurred "very significant impacts and therefore costs to our infrastructure."¹ In the 1960's and 1970's, the District purchased substantial acreage upstream of our Collector #2 and downstream of our Collector #1 in attempts to minimize the direct impact on the infrastructure and the ability of the District to provide water to residents and businesses of Humboldt County it was experiencing from excessive local gravel mining. During this same timeframe, due to the damage caused by upstream gravel mining, the District, at considerable expense to the local rate payers, constructed rock dikes and wing jetties in several locations in an attempt to prevent the continued degradation of the river bed and control river bank erosions. In the late 1990's, based on the impact of additional gravel mining, the District met with the Department of Fish and Game (now Department of Fish and Wildlife) to develop a structure that would not interfere with migrating fish and would help manage the grade line issues we were experiencing with our Pump Station #6, caused by continuing bed degradation in the Mad River.² In 2014, then General Manager, Carol Rische worked directly with several gravel mining operators, their attorney, and the Board of Supervisors to reword the verbiage in the Draft Environmental Impact Report (Draft EIR), to terms that were acceptable to all parties involved (MR-G2).

¹ General Manager Carol Rische, Mad River Union, 12/31/2014

² "Amended Initial Study for HBMWD Rock Dike Project" July 1991, for HBMWD, by Winzler & Kelly, Consulting Engineers

In addition, the County Planning Department proposed a new additional policy statement as well (MR-P13).

"...using extraction methods and rates that are consistent with state and federal endangered species regulations and will not adversely impact public infrastructure..."³

"Prescribed sand and gravel extraction rates shall not cause channel bed degradation to levels that adversely impact public infrastructure or the source-water classification of the drinking water for the regional water system."⁴

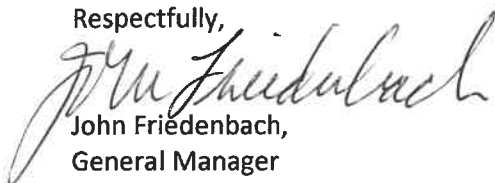
The District continues to support the verbiage in both of these sections of the Draft EIR. The District requests assurances that every precaution and effort will be made to ensure the public infrastructure which supplies drinking water to over 88,000 Humboldt County residents and businesses will be safeguarded from the issues and expenses that excessive gravel mining in the Mad River has created in the past.

The second concern of the District is the recent classification upgrade (June 21, 2017) of the Foothill Yellow-Legged Frog from "Species of Special Concern" (as listed in the Draft Supplemental Programmatic Environment Impact Report for Gravel Extraction on the Lower Mad River as of April 2014⁵) to "candidacy" for endangered and threatened species⁶ by the California Fish and Game Commission (CFGF). This upgrade to candidacy affords the species all the protections a fully listed endangered/threatened species receives during the following 12-months while CDFW conducts a status review and informs CFGF whether to confirm the species as endangered or threatened⁷. Based on the candidacy of the Foothill Yellow-Legged Frog, the District has been held to strict requirements by the CDFW regarding any of its activity within and around the river. The District is concerned that the outlined extraction timeframe (June 1st – October 1st) coincides (Mid Summer to Late Summer/Early Fall) with the metamorphosis of the Foothill Yellow-Legged Frog from tadpole stage to juvenile adults⁸. The California Endangered Species Act (CESA) "prohibits the take of any species of wildlife designated by the CFGF as endangered, threatened, or candidate species."⁹ The District is strongly opposed to any activity that would harm a threatened and potentially endangered species residing within our watershed area. Consequently, the proposed gravel extraction permit may require an incidental take permit from the CDFW.

In closing, regardless of the issues that gravel mining has caused in the past, the District has been, and continues to be unopposed to gravel mining in the Mad River as long as it is appropriately regulated and monitored. The District will, however, continue to maintain an acute interest in ensuring that a sustainable gravel extraction rate is maintained that does not impact infrastructure required to supply water to residents and businesses in Humboldt County.

Thank you for considering our concerns.

Respectfully,



John Friedenbach,
General Manager

³ Board of Supervisors Draft EIR, 10.4.3, MR-G2, In-stream Sand and Gravel Extraction

⁴ Board of Supervisors Draft EIR, 10.4.3, MR-P13, Protection of In-stream Water Collection and Transmission Facilities on the Mad River

⁵ Draft Supplemental Programmatic Environmental Impact Report for Gravel Extraction of the Lower Mad River, April 2014, prepared for Humboldt County Planning & Building Dept. by H. T. Harvey & Assoc., State Clearinghouse #1992083049, Hum Co. App #7077

⁶ Information and "State & Federally Listed Endangered & Threatened Animals of California" July 2017

⁷ "California Fish And Game Commission – Notice of Findings", July 27, 2017

⁸ See Footnote 3

⁹ www.wildlife.ca.gov/Conservation/CESA

DEPARTMENT OF WATER RESOURCES
1416 NINTH STREET, P.O. BOX 942836
SACRAMENTO, CA 94236-0001
(916) 653-5791



September 18, 2017

John Friedenbach
General Manager
Humboldt Bay Municipal Water District
PO Box 95
Eureka, California 95502-0095

H.B.M.W.D. SEP 21 2017

RE: Urban Water Management Plan Requirements Addressed

Dear Mr. Friedenbach:

The Department of Water Resources (DWR) has reviewed the Humboldt Bay Municipal Water District's 2015 Urban Water Management Plan (UWMP) received on June 22, 2016. The California Water Code (CWC) directs DWR to report to the legislature once every five years on the status of submitted UWMPs. In meeting this legislative reporting requirement, DWR reviews all submitted UWMPs.

DWR's review of the Humboldt Bay Municipal Water District's 2015 plan has found that the UWMP addresses the requirements of the CWC. DWR's review of plans is limited to assessing whether suppliers have addressed the required legislative elements. In its review, DWR does not evaluate or analyze the supplier's UWMP data, projections, or water management strategies. This letter acknowledges that the Humboldt Bay Municipal Water District's 2015 UWMP addresses the CWC requirements. The results of the review will be provided to DWR's Financial Assistance Branch.

If you have any questions regarding the review of the UWMP or urban water management planning, please call Gwen Huff at 916-651-9672.

Sincerely,

A handwritten signature in black ink, appearing to read "Vicki Lake".

Vicki Lake
Unit Chief
Urban Water Use Efficiency
(916) 651-0740

Electronic cc:

Mary Lou Cotton
Samantha Ryan

DEPARTMENT OF WATER RESOURCES

1416 NINTH STREET, P.O. BOX 942836
SACRAMENTO, CA 94236-0001
(916) 653-5791

SECTION 63, PAGE NO. 1

October 2, 2017

H.B.M.W.D. OCT - 2 2017

Mr. John Friedenbach, General Manager
Humboldt Bay Municipal Water District
828 Seventh Street
Eureka, California 95502

Robert W Matthews Dam, No. 1013.000
Trinity County

This letter is being sent to all dam owners as part of our efforts to bolster dam safety by ensuring safe passage of spillway releases for the upcoming winter flood season. Before this year's flood season, complete all necessary spillway maintenance work, such as removing any debris or vegetation within the spillway approach and channel sections and, if applicable, patching small holes and sealing cracks and joints within the channel lining, clearing spillway drains, and securing all log booms. Every effort must be made to complete this minor maintenance work by November 1, 2017. In addition, spillways should be inspected and repaired as needed after any releases are made throughout the flood season to ensure they remain safe for continued use.

If you have any questions or need additional information, please contact Area Engineer Lakhbir Singh at (916) 227-4603 or Regional Engineer Russell Bowlus at (916) 227-4604.

Sincerely,

A handwritten signature in cursive script that reads "Sharon K. Tapia".

Sharon K. Tapia, Chief
Division of Safety of Dams

DEPARTMENT OF WATER RESOURCES1416 NINTH STREET, P.O. BOX 942836
SACRAMENTO, CA 94236-0001
(916) 653-5791SECTION 93, PAGE NO. 2**October 2, 2017****NOTICE OF PROPOSED EMERGENCY REGULATORY ACTION****Subject: Dam Inundation Maps**

The California Department of Water Resources (Department) proposes this emergency rulemaking action under the Administrative Procedure Act (APA) to adopt regulations that establish criteria for dam owners to prepare and submit inundation maps for review and approval by the Department. Specifically, these emergency regulations specify definitions, scenarios, and submittal requirements for inundation maps for dams that could impact downstream life or property. The Department proposes these emergency regulations for adoption into California Code of Regulations, Title 23, Division 2, Chapter 1, Article 6.

Under the APA, Government Code section 11346.1, subdivision (a)(2), requires that, at least five working days prior to submission of the proposed emergency action to the Office of Administrative Law (OAL), the adopting agency provide a notice of the proposed emergency action to every person who has filed a request for notice of regulatory action with the agency. After submission of the proposed emergency regulations to OAL, it shall allow interested persons five (5) calendar days to submit comments on the proposed emergency regulations as set forth in Government Code section 11349.6. Upon submission, OAL will have ten (10) calendar days within which to review and make a decision on the proposed emergency regulations. The emergency regulations will become effective when OAL files the regulations with the Secretary of State.

The specific language of the Department's proposed emergency regulations and Finding of Emergency are posted on the Department's website at:
http://www.water.ca.gov/public_notices/.

If you have any questions regarding this proposed emergency action, please contact Michael Waggoner, Chief, Field Engineering Branch, Division of Safety of Dams, Department of Water Resources, at (916) 227-9800 or via email at MapRegs@water.ca.gov.

FEDERAL ENERGY REGULATORY COMMISSION
Office of Energy Projects
Division of Dam Safety and Inspections – San Francisco Regional Office
100 First Street, Suite 2300
San Francisco, CA 94105-3084
(415) 369-3300 Office – (415) 369-3322 Facsimile

September 19, 2017

H.B.M.W.D. SEP 22 2017

In reply refer to:
Project No. 3430-CA

Mr. John Friedenbach
General Manager
Humboldt Bay Municipal Water District
828 Seventh Street
PO Box 95
Eureka, CA 95502-0095

Re: Emergency Action Plan Exercise Design Course

Dear Mr. Friedenbach:

Emergency Action Plans (EAPs) are an integral part of the Federal Energy Regulatory Commission's dam safety program. Since all parties involved during an emergency must understand each other's roles in order to implement an EAP successfully, periodically a comprehensive test with State and local emergency preparedness agency participation is necessary.

You have been selected to conduct a comprehensive test of the EAP for your R. W. Matthews Dam Project in 2019. You are requested to conduct a test known as a functional exercise. This type of exercise involves gathering representatives and having them "act out" their responsibilities for a simulated emergency in a stressful environment with time constraints. The purpose of the exercise is to test the EAP, ensure that the local agencies understand the inundation maps and other information available in the EAP, observe the actions your personnel and the agencies take during a simulated emergency, and discuss possible changes to the EAP to improve its effectiveness.

It will be necessary to coordinate with the appropriate emergency preparedness agencies in order to develop and schedule the exercise. You will need to develop a number of messages that will be distributed during the exercise to obtain responses from

the participants. The messages should elicit responses showing the level of understanding of each participant's role in an actual emergency.

We have developed an "EAP Exercise Design Course" to discuss exercise requirements and the design process. The course covers the FERC requirements for a comprehensive EAP exercise and the steps required to develop, conduct, evaluate, and follow-up an effective exercise. We will present the two-day EAP Exercise Design Course in Austin, Texas on October 24-25, 2017.

Class size will be limited to approximately 50 participants and will be filled on a "first come first served" basis. We realize you are receiving this letter approximately one month prior to the course, but we recommend that you register early. Prior to making hotel reservations, please visit the www.ferc.gov "Calendar of Events" to register for the course. There you will find detailed hotel information, including course dates, room costs, the group rate cut-off date, and telephone numbers. A copy of the course agenda is also included. You should plan on staying for two full days for the course when making your reservations. Complete details are also included in this letter for your use.

In addition to the course, you should consider attending one or more functional exercises held by other licensees, as they provide practical training on how an exercise is conducted. A schedule of upcoming exercises will be provided at the course. We strongly suggest that you or your staff avail yourselves of these opportunities.

Within ninety days after the date of the course, you should provide an estimated date for conducting your functional exercise to this office. The exercise should be scheduled prior to September 30, 2019.

If you have any questions or need additional information about functional exercises, you may call Mr. Samuel Lee of my staff at (415) 369-3393.

Sincerely,



Frank L. Blackett, P.E.
Regional Engineer

Enclosures (2)

HOTEL INFORMATION FOR FERC EAP EXERCISE DESIGN COURSE

AUSTIN, TEXAS

DATE : October 24-25, 2017

TIME : 8:00 am to 5:00 pm

LOCATION : Austin, Texas

HOTEL : Embassy Suites Austin Central
5901 North IH 35
Austin, TX 78723

RESERVATIONS : 512-454-8004

GROUP RATE : \$139.00 per night + tax
NOTE: MENTION FERC-EAP Group

RATE CUT OFF DATE : October 9, 2017

TRANSPORTATION : Super Shuttle
\$15 per person
Reservations: 1-800-258-3826

AGENDA

EMERGENCY ACTION PLAN
EXERCISE DESIGN COURSEDay OneTAB**REGISTRATION**

8:00 - 8:15 REGISTRATION

INTRODUCTION

1 8:15 - 8:45 INTRODUCTIONS AND COURSE OVERVIEW

2 8:45 - 9:05 REVIEW OF FERC EAP PROGRAM

3 9:05 - 9:15 PROCEDURES FOR FERC STAFF

9:15 - 9:30 BREAK

EAP EXERCISE PROGRAM - OVERVIEW AND REQUIREMENTS

4 9:30 - 10:30 FERC EAP EXERCISE PROGRAM - 5 TYPES OF EXERCISE

5 SEMINAR

6 DRILL

7 TABLETOP EXERCISE

8 FUNCTIONAL EXERCISE

9 FULL SCALE EXERCISE

10 10:30 - 10:45 COMPREHENSIVE EAP EXERCISE

10:45 - 11:00 BREAK

11 11:00 - 11:15 FERC REQUIREMENTS

AGENDA

EMERGENCY ACTION PLAN
EXERCISE DESIGN COURSE

DAY ONE (CONTINUED)

TAB

- | | | |
|----|---------------|---------------------------|
| 12 | 11:15 - 11:20 | LICENSEE RESPONSIBILITIES |
| 13 | 11:20 - 11:30 | COORDINATION |
| 14 | 11:30 - 12:00 | HOW EMAs OPERATE |
| | 12:00-1:00 | LUNCH |

TABLETOP EXERCISE: MOCK DAM

- | | | |
|----|-------------|---|
| 15 | 1:00 - 2:15 | ASSIGNMENT OF ROLES, ORIENTATION AND
TABLETOP EXERCISE |
| | 2:15 - 2:30 | BREAK |

EXERCISE PROCESS - DETAILS FROM CONCEPTION TO COMPLETION

- | | | |
|----|-------------|---|
| 16 | 2:30 - 2:45 | EXERCISE CONSIDERATIONS |
| 17 | 2:45 - 2:50 | 12-STEP EXERCISE DESIGN PROCESS-OVERVIEW |
| 18 | 2:50 - 3:15 | EXERCISE PROCESS: GROUNDWORK

STEP 1: ASSESS NEEDS
STEP 2: DEFINE SCOPE
STEP 3: WRITE PURPOSE STATEMENT |
| | 3:15 - 3:30 | BREAK |
| 19 | 3:30 - 4:00 | LICENSEE PERSPECTIVE - PART I - GROUNDWORK |

AGENDA

EMERGENCY ACTION PLAN
EXERCISE DESIGN COURSE

DAY ONE (CONTINUED)

- | | | |
|----|-------------|--|
| 20 | 4:00 - 5:00 | EXERCISE PROCESS: DEVELOPMENT
STEP 4: DEVELOP OBJECTIVES
STEP 5: DEVELOP SCENARIO
STEP 6: DEVELOP MSEL
STEP 7: LIST EXPECTED ACTIONS |
| | 5:00 | ADJOURN |

AGENDA

EMERGENCY ACTION PLAN
EXERCISE DESIGN COURSEDAY TWOTAB

8:15 - 8:30 REVIEW AND QUESTIONS

EXERCISE PROCESS CONTINUED

20 8:30 - 9:00 EXERCISE PROCESS: DEVELOPMENT (CONTINUED)

STEP 8: DEVELOP INJECTS

21 9:00 - 9:30 LICENSEE PERSPECTIVE - PART II - DEVELOPMENT

9:30 - 9:45 BREAK

22 9:45 - 10:00 EXERCISE PROCESS: CONDUCT EXERCISE
STEP 9: CONDUCT EXERCISE23 10:00 - 10:15 EXERCISE PROCESS: FOLLOW-UP
STEP 10: EVALUATE
STEP 11: FOLLOW-UP ON SHORT FALLS
STEP 12: REVISE PLANS, IF NECESSARY

24 10:15 - 10:45 HSEEP

10:45 - 11:00 BREAK

25 11:00 - 11:30 LICENSEE PERSPECTIVE - PART III - CONDUCT AND
FOLLOW-UP**FERC EXPERIENCE**

26 11:30 - 11:45 LESSONS LEARNED FROM PREVIOUS EXERCISES

27 11:45 - 12:00 SOURCES OF INFORMATION

EMERGENCY ACTION PLAN
EXERCISE DESIGN COURSEDAY TWO (CONTINUED)TAB

12:00 – 1:15 LUNCH

FUNCTIONAL EXERCISE: MOCK DAM

- | | | |
|----|-------------|--|
| 28 | 1:15 - 1:45 | EXERCISE OVERVIEW, ORGANIZATION AND INSTRUCTIONS |
| | 1:45 - 3:30 | EXERCISE ACTIVITY |
| | 3:30 - 3:45 | BREAK |
| | 3:45 - 4:30 | EXERCISE EVALUATION AND HOTWASH |
| | 4:30 - 4:45 | QUESTIONS |
| 29 | 4:45 - 5:00 | COURSE EVALUATIONS |

CONTINUING BUSINESS

HUMBOLDT BAY MUNICIPAL WATER DISTRICT

To: Board of Directors

From: John Friedenbach

Date: October 6, 2017

Subject: Water Resource Planning (WRP) – Status Report

.....

The purpose of this memo is to summarize recent activities and introduce next steps for discussion.

1) Top-Tier Water Use Options

a) Local Sales

No significant activity has transpired on this topic during the past month.

b) Transport

No significant activity has transpired on this topic during the past month.

c) Instream Flow Dedication

Waiting to hear back from the Wildlife Conservation Board about our grant application.

WRITTEN BY Alastair Bland

PUBLISHED ON σ March 22, 2017

READ TIME Approx. 5 minutes



How Changing Marijuana Laws May Affect California's Water and Wildlife

Anthony Viator hangs harvested marijuana buds for drying on grower Laura Costa's farm near Garberville, Calif., in October 2016. Rich Pedroncelli, AP

IN NOVEMBER 2016, California legalized recreational marijuana. The decision, supported by 56 percent of the state's voters, allows marijuana to be shared, traded, grown at home and smoked without a medical reason. Using it medically has been legal for 20 years.

Though complex and strict regulations still apply to growing, selling and buying marijuana, things will probably simplify over the next year. The heart of the state's industry has long been in the north coast region known informally as the emerald triangle. Most growers – thousands of them in the heavily wooded counties of Humboldt, Trinity and Mendocino – currently operate illegally. However, many are now lining up at county offices to apply for cannabis production permits, and conservationists, growers and scientists are asking how the new era of pot production will affect the environment.

It may have positive effects. For instance, a grower seeking a commercial production permit must install a water storage system that can be filled in the wet winter season. Such a system would allow growers to keep plantations lush and green all summer without drawing water from creeks, which can easily be pumped dry during California's hot and mostly rainless summers.

Mikal Jakubal, a Humboldt County resident who has grown marijuana for years at his residence alongside a tributary of the Eel River called Redwood Creek, believes cannabis can be grown sustainably, by capturing and storing water in the winter and minimizing the erosion from earth-moving activities such as building roads and clearing land to plant. Sediment that washes into creeks can smother the gravel beds where adult salmon and trout spawn, killing the unborn fish.

But Jakubal suspects many growers who apply for permits might make the required improvements only temporarily, reverting to less sustainable – and illegal – activities once they are on the books as legal growers.



Anthony Viator carries a bin filled with marijuana buds harvested from the farm of grower Laura Costa, near Garberville, Calif. (Rich Pedroncelli, AP)

“There is minimal ability to enforce standards beyond the initial inspection,” he says. “That’s just the reality. If you have hundreds or thousands of growers, all up dirt roads behind locked gates, and [authorities] have to give them advance notice of any site visit, it’ll be super easy to save your stored water, pump out of the creek all summer and then keep your tanks as back-up.”

Scott Bauer, a senior environmental scientist with the California Department of Fish and Wildlife, promises his department will be on close watch.

“The paperwork of getting permits is not just a formality,” he says. “You have to abide by it and we’re going to be checking on people. Someone who doesn’t follow the rules could lose their permit and would have to start over.”

Humboldt County’s planning and building department has received more than 2,300 applications for new growing permits since the November election. Already, the forests of the county may support somewhere between 8,000 and 10,000 pot growers, according to rough estimates.

The stress on the environment generated by cannabis farming has long been discussed by media and scientists, and while it is generally agreed that pot growing isn’t helping water resources or fish, no one is certain how harmful the industry actually is.

“It’s really important that the state regulates the industry, but it’s also important not to take our eye off the ball,” says Van Butsic, a researcher with University of California, Berkeley’s Department of Environmental Science, Policy and Management. “The north coast’s salmon were mostly gone long before cannabis got here, and you’re not going to get them back by regulating it.”

Other impacts must be mitigated, too, he says; logging, dams, riverside development and large-scale public water diversions have all had great impacts on salmon runs.

Still, there is no doubt pot growing is having an impact on what remains of the region’s salmon runs. Bauer says he has seen streams that should have had water in them but had been emptied by just one grower’s irrigation line.

“A lot of these growers are diverting straight from the headwaters of small creeks that are the beginnings of our larger rivers, and we’ve seen them pumping these little streams dry,” he says. “Sometimes it’s one grower doing it, other times it’s 10 of them along a whole stream.”

Scott Greacen, executive director of Friends of the Eel River, is convinced new pot-growing operations, legal or not, will worsen conditions for fish in places.

“How many regulated operators can you have along Redwood Creek and still have coho salmon in it?” says Greacen, referring to the Eel’s south fork tributary alongside which Jakubal, for one, grows his marijuana

California is the fifth state to legalize recreational pot, and it was the first state to legalize medical marijuana in 1996. Most growers in California operate at small production levels, often on rural mountain homesteads, and often using organic growing methods.

But Greacen discounts popular notions that pot is a low-impact crop. “All the talk about how this is a sustainable industry – it just doesn’t add up,” he says.

Butsic coauthored a paper published in 2016 in Environmental Research Letters in which he concluded that the legal marijuana industry poses a considerable potential threat to Chinook salmon and steelhead in the emerald triangle region.

Greacen says many northern California populations of coho and Chinook salmon and steelhead trout were barely clinging to existence in the years leading up to the drought, and the recent surge in marijuana growing activity has wiped them out. “This is what the process of extinction looks like. It’s really scary.”

Jakubal argues that the marijuana industry’s environmental problems are ultimately the result of economics – not necessarily anything fundamentally unsustainable about the crop. In the interest of healthy waterways, he says, pot must become cheap through widespread production and, probably, federal legalization.

“As long as it’s profitable, greedy people will do whatever it takes to make that money,” he says.

Butsic reckons the jury is still out on just how harmful the marijuana industry is to the environment – an area of research he says he is closely studying. But Greacen feels more certain that fish and pot cannot coexist under current circumstances.

“Maybe making Humboldt County the epicenter of legal weed isn’t the best idea if we also want to have salmon in our rivers,” he says.

About the Author

Alastair Bland

Alastair Bland is a freelance journalist in San Francisco, CA. He can be reached at allybland79@gmail.com or via [Twitter](#).



Regional Board Files Complaint Against Developers for Water Quality Violations Related to Cannabis Cultivation in Trinity County

FOR IMMEDIATE RELEASE
Sept. 25, 2017

Contact: Yvonne West
Phone: 916-322-3626

SACRAMENTO – The California Attorney General’s Office, on behalf of the North Coast Regional Water Quality Control Board, filed a civil complaint in Trinity County Superior Court against Clay Tucker and several corporations he is associated with, alleging they developed properties in the Indian Creek Watershed in Trinity County in violation of federal and state law.

The complaint, filed Sept. 11, 2017, names Tucker, Independence Corporate Offices, Inc., and Rincon Landholdings, LLC as defendants. It alleges the defendants conducted site development and road-building activities without proper permits on properties near Indian Creek, a tributary to the Middle Fork of the Trinity River, causing harmful and unlawful discharge of pollutants and dredge and fill material into the watershed.

Once developed, the properties were either leased or sold to other parties for cannabis cultivation. The complaint seeks civil liability and a preliminary and permanent injunction against the defendants, requiring that they take immediate action to correct the conditions created by their activities.

“Unpermitted and irresponsible land clearing and development activity associated with cannabis cultivation is a serious and significant threat to water quality in the North Coast. This action highlights the Regional Water Board’s commitment to focusing its enforcement efforts on those causing the most environmental damage.” said Matt St. John, Executive Director of the North Coast Regional Water quality Control Board.

The civil complaint is available [here](#).

###

1 XAVIER BECERRA
Attorney General of California
2 TRACY WINSOR
Supervising Deputy Attorney General
3 KELLY A. WELCHANS
State Bar No. 253191
4 Deputy Attorney General
1300 I Street, Suite 125
5 P.O. Box 944255
Sacramento, CA 94244-2550
6 Telephone: (916) 210-7804
Fax: (916) 327-2319
7 E-mail: Kelly.Welchans@doj.ca.gov

*Exempt from filing fees pursuant to
Government Code section 6103.*

8 *Attorneys for Plaintiff*

10 SUPERIOR COURT OF THE STATE OF CALIFORNIA
11 COUNTY OF TRINITY

13 **PEOPLE OF THE STATE OF**
14 **CALIFORNIA, EX REL. THE REGIONAL**
15 **WATER QUALITY CONTROL BOARD,**
16 **NORTH COAST REGION,**

17 **Plaintiff,**

18 **v.**
19 **INDEPENDENCE CORPORATE**
20 **OFFICES, INC., a California Corporation;**
21 **CLAY TUCKER, an individual;**
22 **RINCON LAND HOLDINGS LLC, an**
23 **Arizona Corporation; and**
24 **DOES 1 through 50, inclusive,**

25 **Defendants.**

Case No.
**COMPLAINT FOR INJUNCTIVE
RELIEF AND CIVIL LIABILITY**

26 **INTRODUCTION**

27 1. This action is brought by the Attorney General at the request of plaintiff State of
28 California Regional Water Quality Control Board, North Coast Region (Regional Water Board)
pursuant to provisions of the Porter-Cologne Water Quality Control Act (Wat. Code, Division 7,
§§ 13000-14958) and the law of nuisance. The action seeks (1) injunctive relief to halt violations
of the federal Clean Water Act, Porter-Cologne Water Quality Control Act, and the North Coast

1 Regional Water Quality Control Board Basin Plan; (2) civil liability for violations of federal
2 Clean Water Act section 301, Porter-Cologne Water Quality Control Act section 13376, and the
3 North Coast Regional Water Quality Control Board Basin Plan; and (3) abatement of the
4 continuing public nuisance arising from the unpermitted construction activities of defendants
5 Independence Corporate Offices, Inc., Rincon Land Holdings LLC, and Clay Tucker
6 (collectively, Defendants).

7 PARTIES

8 2. The Regional Water Board is a state agency, and is part of the California
9 Environmental Protection Agency. (Wat. Code, §§ 175, 13100.) The Regional Water Board is
10 one of nine such regional boards created to establish and enforce water quality control plans,
11 policies, and regulations to ensure the protection of beneficial uses of waters of the state within
12 nine designated regions in California. (Wat. Code, §§ 13200, 13201, & 13240, et seq.) The
13 North Coast Region “comprises all basins . . . draining into the Pacific Ocean from the California-
14 Oregon state line southerly to the southerly boundary of the watershed of Estero de San Antonio
15 and Stemple Creek in Marin and Sonoma Counties.” (Wat. Code, § 13200, subd. (a).)
16 Defendants’ activities take place in Trinity County.

17 3. The Regional Water Board’s responsibilities include regulating discharges to waters
18 of the state through the issuance of waste discharge requirements. (Wat. Code, § 13263.) The
19 Regional Water Board is also authorized to “investigate the quality of any waters of the state”
20 within the North Coast Region by inspecting the facilities of any person and by requiring
21 submittal of technical and monitoring reports to determine compliance with the Porter-Cologne
22 Act. (Wat. Code, § 13267.) To further these goals, the Regional Water Board has primary
23 enforcement authority, including the power to remedy unlawful discharges and to achieve cleanup
24 and abatement of water pollution and nuisance. (Wat. Code, § 13300, et seq.) The Attorney
25 General may bring an action to enforce these provisions at the request of the Regional Water
26 Board. (See, e.g., Wat. Code, § 13361.)

27 4. The Regional Board is also responsible for adopting, and revising as necessary, basin
28 plans that describe the resources and beneficial uses to be protected in the basin, identify water

1 quality objectives, provide implementation plans to achieve those water quality objectives,
2 describe the statewide plans and polices that apply to the basin waters, and describe the
3 monitoring and surveillance activities in the region. (Wat. Code §§ 13241-13247.)

4 5. Public records indicate that defendant Independence Corporate Offices, Inc. (ICO) is
5 a California corporation. ICO's business address is 64695 Nantucket Drive, Redding, California
6 and its agent for service of process is Clay Tucker. On information and belief, at all times
7 relevant to the matters alleged in this complaint, Clay Tucker was and is an officer of ICO.

8 6. Public records indicate that defendant Rincon Land Holdings LLC (Rincon) is an
9 Arizona corporation doing business in the State of California. On information and belief,
10 defendant Rincon owned properties on which violations occurred during the time some of those
11 violations occurred.

12 7. Defendant Clay Tucker is an individual. On information and belief, Mr. Tucker
13 registered ICO on or about May 4, 2005, and has been an officer of the corporation continuously
14 up to and including the present time.

15 8. The true names and capacities, whether corporate, individual, associate or otherwise
16 of defendants Does 1 through 50, inclusive, are unknown to plaintiff, who therefore sues said
17 defendants by such fictitious names, and plaintiff will request the Court's leave to amend this
18 Complaint to show their true names and capacities when the same have been ascertained.
19 Plaintiff is informed and believes that each of the defendants named herein as a Doe is
20 responsible in some manner for the events, occurrences, and circumstances that form the basis of
21 this lawsuit, and is thereby liable for the relief sought herein. This complaint refers below to
22 ICO, Clay Tucker, Rincon, and Does 1 through 50, inclusive, collectively, as Defendants.

23 9. Plaintiff alleges, on information and belief, that each of the Defendants was an agent,
24 servant, and/or employee of, and/or engaged in a joint venture with, each of the remaining
25 Defendants, and in doing the acts alleged in this complaint was at all times acting within the
26 scope of such agency, employment, or joint venture and with the permission and consent of each
27 of the remaining Defendants.

28

VENUE AND JURISDICTION

10. Venue is appropriate in the County of Trinity pursuant to Code of Civil Procedure sections 393, 395 and 395.5 and Water Code section 13361, subdivision (b), because: (1) the violations giving rise to the statutory obligations and liability herein alleged against all Defendants occurred in Trinity County; and (2) the discharges at issue occurred and continue to occur in Trinity County, and the conditions causing the discharges and threatening to cause further discharges occurred and are continuing to occur in Trinity County.

11. The Superior Court has jurisdiction of this matter as an unlimited civil case.

FACTUAL ALLEGATIONS

The Indian Creek Watershed

12. Indian Creek is a tributary to the Middle Fork Trinity River. Accordingly, Indian Creek is a water of the United States and a water of the State of California.

13. The Indian Creek watershed contains valuable spawning habitat for juvenile salmonids.

14. Frietas Gulch is a Class II stream¹ in the Indian Creek watershed and a water of the State of California. It is located on or near parcel number 015-170-04.

15. Mule Gulch is a Class II stream in the Indian Creek watershed and a water of the United States and State of California based on its drainage area exceeding 150 acres. It is located on or near parcel numbers 015-170-40 and 015-170-07.

16. An unnamed gulch draining directly into Indian Creek lies east of Frietas Gulch and west of Mule Gulch. The unnamed gulch is a Class II stream in the Indian Creek watershed and is a water of the United States and State of California based on its drainage area exceeding 150 acres. It is located on or near parcel numbers 015-180-38 and 015-180-06.

17. The area surrounding Frietas Gulch, the unnamed gulch, and Mule Gulch contain a number of Class III tributaries that are also waters of the State of California and waters of the

¹ A Class II stream is one that supports aquatic life, such as aquatic non-fish vertebrates and aquatic macroinvertebrates, but where fish are not present. A Class III stream does not support aquatic life, but is capable of transporting sediment to a Class II or Class I stream.

1 United States for purposes of the Clean Water Act. This area also contains several unnamed
2 tributaries that drain into Mule Gulch and an unnamed gulch, both of which are tributaries to
3 Indian Creek.

4 18. The Middle Fork Trinity River is listed as impaired due to sediment pursuant to Clean
5 Water Act section 303(d).

6 19. On or about December 20, 2001, the United States Environmental Protection Agency
7 approved a Total Maximum Daily Load (TMDL) for sediment that indicates a "Cold Water
8 Fishery" as one of the beneficial uses currently impaired in the Indian Creek Watershed.

9 20. The North Coast Regional Water Quality Control Board issued a Water Quality
10 Control Plan for the North Coast Region in May 2011 (Basin Plan). This Basin Plan sets forth
11 numerous beneficial uses for the Middle Trinity Hydrologic Area, including groundwater
12 recharge, cold freshwater habitat, migration and spawning aquatic habitats, and wildlife habitat,
13 including habitat for rare, threatened, and endangered species.

14 21. The Basin Plan also sets forth an action plan for logging, construction, and associated
15 activities that prohibits "discharge of soil, silt, bark, slash, sawdust, or other organic and earthen
16 material from any logging, construction, or associated activity of whatever nature into any stream
17 or watercourse in the basin in quantities deleterious to fish, wildlife, or other beneficial uses" and
18 the placement or disposal of such materials "at locations where such material could pass into any
19 stream or watercourse in the basin in in quantities which could be deleterious to fish, wildlife, or
20 other beneficial uses."

21 **Defendants' Property, Easements, and Agreements in the Indian Creek Watershed**

22 22. On information and belief, between 2011 and 2013, Clay Tucker, ICO, or Rincon,
23 owned at least eight parcels of land in the Indian Creek Watershed north of Indian Creek Road
24 and slightly west of Mule Gulch Road. The parcels owned by Clay Tucker, ICO, or Rincon at
25 some point between 2011 and 2013 include parcel numbers 015-170-07, 015-170-39, 015-170-40,
26 015-170-29, 015-170-32, 015-170-34, 015-170-27, and 015-170-24.

27 23. On information and belief, parcel number 015-170-07 was owned by Clay and Erika
28 Tucker and Rincon between approximately June 2011 and February 2012. Rincon sold the

1 property to William Roblen in or about February 2012 and repurchased it in or about March 2013
2 following a trustee's sale by ICO. Rincon sold the property to its current owner in or about
3 December 2013.

4 24. On information and belief, parcel number 015-170-39 was owned by Rincon between
5 approximately December 2011 and June 2012. Rincon sold the property to William Roblen in or
6 about June 2012 and repurchased it in or about March 2013 following a trustee's sale by ICO.
7 Rincon sold the property to its current owner in or about December 2013.

8 25. On information and belief, parcel number 015-170-40 was owned by Rincon between
9 approximately November 2012 and December 2013.

10 26. On information and belief, parcel number 015-170-29 was owned by Clay Tucker
11 between approximately December 2011 and March 2012, when it was sold to ICO. ICO sold the
12 property in or about June 2012.

13 27. On information and belief, parcel number 015-170-32 was owned by Clay and Erika
14 Tucker between approximately February and late March 2012. It was transferred to ICO in or
15 about March 2012 and sold to a third party in or about June 2012.

16 28. On information and belief, parcel number 015-170-34 was owned by Clay and Erika
17 Tucker and Rincon between approximately June 2011 and June 2012. It was transferred to ICO
18 in or about June 2012 and immediately sold to a third party.

19 29. On information and belief, parcel number 015-170-27 was owned by Clay and Erika
20 Tucker between approximately February and March 2012. It was transferred to ICO in or about
21 March 2012 and sold to a third party in or about June 2012.

22 30. On information and belief, parcel number 015-170-24 was owned by Rincon between
23 approximately March and June 2012.

24 31. On information and belief, on or about October 3, 2011, John Kimball granted an
25 access easement in favor of Clay and Erika Tucker and Rincon. This easement was for the
26 benefit of numerous parcels, including 015-170-07, 015-170-39, and 015-170-40. The easement
27 was re-recorded with respect to several parcels on or about March 27, 2012.

28

1 32. On information and belief, on or about February 16, 2012, a road easement on parcel
2 numbers 015-170-39 and 015-170-40 was granted to Clay Tucker.

3 33. On information and belief, on or about May 25, 2012, a road easement on parcel
4 numbers 015-170-39, 015-170-40, 015-170-29, 015-170-32, 015-170-34, 015-170-27, and 015-
5 170-24 was granted from ICO to Clay Tucker and Rincon.

6 34. On information and belief, on or about April 5, 2013, Rincon granted an access
7 easement benefiting several parcels, including 015-170-07, 015-170-39, 015-170-40, 015-170-29,
8 015-170-32, 015-170-34, 015-170-27, and 015-170-24. On information and belief, the three
9 easements identified in this grant were built into the extensive road system observed during the
10 April 2015 inspections of parcel numbers 015-170-07, 015-170-39, and 015-170-40.

11 35. On information and belief, on or about July 7, 2011, Clay Tucker submitted a
12 Notification of Lake or Streambed Alteration to the California Department of Fish and Game
13 (2011 Application). In the 2011 Application, Mr. Tucker indicated he was an easement holder
14 and would be performing approximately 2 days of emergency repair work on a failing drainage
15 crossing in the Frietas Gulch Road System. Mr. Tucker indicated that he would replace an 18"
16 culvert with a 54" half round-bottomless culvert with angle footer and provided specifications and
17 plans for installation and backfill of the project.

18 36. On information and belief, in the 2011 Application, Mr. Tucker indicated that the
19 work would be completed near the shared border of parcel numbers 015-170-04 and 015-170-06.
20 On information and belief, including observations made during an inspection of the culvert after it
21 failed, the work described in the 2011 Application was insufficient to adequately replace the
22 culvert in question.

23 37. On information and belief, on or about September 2, 2011, Mr. Tucker signed Lake or
24 Streambed Alteration Agreement no. 1600-2011-0164-R1. In signing that agreement, Mr. Tucker
25 indicated that he was an easement holder and the responsible party for the work to be completed
26 near the border of parcel numbers 015-170-04 and 015-170-06. On information and belief,
27 including observations made during an inspection of the culvert after it failed, the contents of
28

1 Agreement no. 1600-2011-0164-R1 are inconsistent with the scope and magnitude of the culvert
2 replacement project actually performed.

3 **The Regional Water Board's Inspections of the Properties**

4 38. On or about April 9 and 10, 2015, pursuant to an inspection warrant issued by Trinity
5 County Superior Court, representatives of the Regional Water Board inspected several properties
6 in the Indian Creek Watershed accompanied by representatives of California Department of Fish
7 and Wildlife and the Trinity County Sheriff's Office. The inspections included several parcels
8 previously owned by Clay Tucker, ICO, or Rincon.

9 39. Inspectors identified an extensive road system across various inspected properties
10 with significant run off. The roads consisted of unsurfaced, uncompacted, sidecast material on
11 steep slopes, resulting in roads prone to failure and high erosion rates when exposed to rainfall
12 and under saturated soil conditions. The deep ruts along the road, the rills and gullies on the bare
13 side slopes, and culverts plugged with sediment are evidence of erosion.

14 40. The roads were an efficient method of sediment transport, which had resulted in prior
15 discharges to the relevant waters. In addition, due to faulty construction, the roads became more
16 efficient transport as erosion wore them down, making each rain more likely to result in
17 discharges and deposits into the relevant waters.

18 41. Where streams and roads crossed paths, the road was either bulldozed through the
19 stream, or had an undersized culvert installed, resulting in the immediate deposit of sediment into
20 the stream from the bulldozing or from water bypassing the culvert, and a subsequent efficient
21 track from the road directly into the stream for future sediment transport.

22 42. While inspecting parcel number 015-170-07, inspectors identified several water
23 quality violations, including without limitation a failure to obtain a construction storm water
24 permit for the road construction, failure to file a report of discharge or obtain a certification from
25 the Regional Water Board pursuant to sections 401 and/or 404 of the Clean Water Act, violations
26 of the Basin Plan, discharges of sediment from the poorly constructed roads and undersized
27 culverts on the parcel, and threatened discharges of sediment.

28

1 43. While inspecting parcel number 015-170-39, inspectors identified several water
2 quality violations, including without limitation a failure to obtain a construction storm water
3 permit, failure to file report of a discharge or obtain a certification from the Regional Water
4 Board pursuant to sections 401 and/or 404 of the Clean Water Act, discharges of sediment from
5 undersized culverts on the parcel, violations of the Basin Plan, and threatened discharges of
6 sediment.

7 44. While inspecting parcel number 015-170-40, inspectors identified several water
8 quality violations, including without limitation roads illegally constructed through streams
9 actively discharging sediment, discharges of sediment from undersized culverts on the parcel,
10 unpermitted road construction, violations of the Basin Plan, and threatened discharges of
11 sediment.

12 45. While inspecting parcel numbers 015-170-29 inspectors identified several potential
13 water quality violations, including without limitation violations of the Basin Plan and threatened
14 discharges of sediment.

15 46. While inspecting parcel number 015-170-32, inspectors identified several potential
16 water quality violations, including without limitation violations of the Basin Plan and threatened
17 discharges of sediment.

18 47. While inspecting parcel number 015-170-34, inspectors identified several potential
19 water quality violations, including without limitation violations of the Basin Plan and threatened
20 discharges of sediment from road surfaces and instream road crossings.

21 48. While inspecting parcel number 015-170-27, inspectors identified several potential
22 water quality violations, including without limitation violations of the Basin Plan and threatened
23 discharges of sediment from road surfaces and instream road crossings.

24 49. While inspecting parcel number 015-170-24, inspectors identified several potential
25 water quality violations, including without limitation violations of the Basin Plan and threatened
26 discharges of sediment from graded surfaces, side slopes, and instream road crossings.

27 50. While inspecting parcel number 015-170-04, inspectors identified several water
28 quality violations, including without limitation actual discharges of sediment resulting in instream

1 erosion, failure to obtain a permit pursuant to sections 401 and/or 404 of the Clean Water Act,
2 violations of the Basin Plan, and threatened discharges of sediment. Several of these violations
3 relate to the installation, and later failure, of an undersized culvert on the road bordering the
4 southern end of the parcel, alongside parcel number 015-170-06. On information and belief, the
5 blown out culvert identified in the inspection of parcel number 015-170-04 is the same culvert
6 installed under the 2011 Application and subsequent Agreement.

7 51. On information and belief, the failed culvert was associated with work done by Mr.
8 Tucker relating to the 2011 Application and subsequent Agreement

9 52. On information and belief, the road work described above on parcel 015-170-07 was
10 done by Clay Tucker.

11 53. On information and belief, the road work described above on parcel 015-170-39 was
12 done by Clay Tucker.

13 54. On information and belief, the road work described above on parcel 015-170-40 was
14 done by Clay Tucker.

15 55. On information and belief, an associate of Clay Tucker was operating heavy
16 machinery on a parcel adjacent to parcel 015-170-40 on or about March 1, 2016.

17 56. On information and belief, the road work described above on parcel 015-170-29 was
18 done by Clay Tucker.

19 57. On information and belief, an employee of Clay Tucker was operating heavy
20 machinery on a parcel adjacent to parcel 015-170-29 on or about October 6, 2015.

21 **FIRST CAUSE OF ACTION**

22 **(Water Code Section 13385 – Violation of Water Code Section 13376 and**
23 **Federal Water Pollution Control Act [Clean Water Act] by Unpermitted Discharges to**
24 **Waters of the United States)**

25 58. Plaintiff re-alleges and incorporates herein by reference the allegations in paragraphs
26 1 through 57, inclusive, of this Complaint.

27 59. Chapter 5.5 of the California Water Code was enacted in part to authorize the state of
28 California to implement the federal Water Pollution Control Act (33 U.S.C. § 1311, et seq.)
(Clean Water Act), which includes administration and enforcement of the National Pollutant

1 Discharge Elimination System (NPDES) permit program to regulate the discharge of pollutants
2 from point sources to waters of the United States. (Wat. Code, § 13372.)

3 60. A person who discharges pollutants or proposes to discharge pollutants to the waters
4 of the United States within the state of California is required to file a report of the discharge with
5 a regional water board at least 180 days prior to the discharging of pollutants. (Wat. Code, §
6 13376.)

7 61. At all times relevant to this Complaint, Water Code section 13376 has prohibited
8 “[t]he discharge of pollutants or dredged or fill material... except as authorized by waste
9 discharge requirements or dredged or fill material permits.”

10 62. At all times relevant to this Complaint, Defendants have not been authorized to
11 discharge pollutants or dredged or fill material. Defendants do not have a NPDES permit or other
12 discharge authorization. Defendants’ work has allowed discharge of sediment into Frietas Gulch
13 and/or Indian Creek, waters of the United States, and Defendants have not filed a discharge report
14 as required under Water Code section 13776.

15 63. At all times relevant to this Complaint, Water Code section 13385, subdivision (a),
16 subparagraph (1), has provided for civil liability against anyone who violates Water Code section
17 13376. (Wat. Code, § 13385, subd. (a)(1).) This liability may be as high as \$25,000 per violation
18 per day and \$25 per gallon over 1,000 gallons discharged and not cleaned up. (Wat. Code, §
19 13385, subd. (b)(1)(A).) In determining the amount of the liability, the court considers the
20 seriousness of the violations, the violator’s ability to pay, and other factors. (Wat. Code, § 13385,
21 subd. (e).)

22 64. At all times relevant to this Complaint, Water Code section 13386 has authorized the
23 Attorney General to petition the court for the issuance of a preliminary and/or permanent
24 injunction enjoining any threatened or continuing violation of Water Code section 13376 or Clean
25 Water Act section 301. (Wat. Code, § 13386.)

26 65. Clean Water Act section 301 provides, “[e]xcept as in compliance with this section
27 and sections 302, 306, 307, 318, 402, and 404 of this Act, the discharge of any pollutant by any
28 person shall be unlawful.”

1 66. Defendants have violated Water Code section 13376 and Clean Water Act section
2 301 by conducting road construction and repair activities within and/or adjacent to Frietas Gulch
3 and/or Indian Creek that result in the discharge of pollutants, including soil, silt, clay, sand,
4 and/or other organic and/or earthen materials to Frietas Gulch and/or Indian Creek without a
5 NPDES permit.

6 67. Defendants also threaten to discharge sediment from existing roads by constructing
7 and/or maintaining the roads in a manner that could result in the discharge of waste to Frietas
8 Gulch and/or Indian Creek. This conduct includes, but is not limited to, constructing and
9 maintaining roads with improper slopes and runoff protections, and constructing and maintaining
10 roads in a manner that allows and encourages sediment runoff, resulting in the potential discharge
11 of pollutants into Frietas Gulch and/or Indian Creek.

12 68. Plaintiff Regional Water Board is entitled to civil liability, in an amount according to
13 proof, for every day Defendants violated and/or continue to violate Water Code section 13376
14 and preliminary and permanent injunctive relief to enjoin Defendants from continuing to maintain
15 roads at the sites in a manner that poses a continuing threat of discharges to waters of the United
16 States.

SECOND CAUSE OF ACTION

(Water Code Section 13385 – Violation of Regional Water Board Basin Plan Prohibitions)

17
18 69. Plaintiff re-alleges and incorporates herein by reference the allegations in paragraphs
19 1 through 68, inclusive, of this Complaint.

20 70. At all times relevant to this Complaint, Water Code section 13385, subdivision (a),
21 subparagraph (4), has provided for civil liability against anyone who violates a prohibition issued
22 pursuant to Water Code section 13243. (Wat. Code, § 13385, subd. (a)(4).) This liability may be
23 as high as \$25,000 per violation per day and \$25 per gallon over 1,000 gallons discharged and not
24 cleaned up. (Wat. Code, § 13385, subd. (b)(1)(A).) In determining the amount of the liability,
25 the court considers the seriousness of the violations, the violator's ability to pay, and other
26 factors. (Wat. Code, § 13385, subd. (e).)

1 71. At all times relevant to this Complaint, Water Code section 13386 has authorized the
2 Attorney General to petition the court for the issuance of a preliminary and/or permanent
3 injunction enjoining any threatened or continuing violation of a prohibition issued pursuant to
4 Water Code section 13243. (Wat. Code, § 13386.)

5 72. The Basin Plan is prepared and issued pursuant to Water Code section 13243.

6 73. At all times relevant to this Complaint, the Basin Plan prohibited “discharge of soil,
7 silt, bark, slash, sawdust, or other organic and earthen material from any logging, construction, or
8 associated activity of whatever nature into any stream or watercourse in the basin in quantities
9 deleterious to fish, wildlife, or other beneficial uses” and the placement or disposal of such
10 materials “at locations where such material could pass into any stream or watercourse in the basin
11 in in quantities which could be deleterious to fish, wildlife, or other beneficial uses.”

12 74. Defendants have violated prohibitions of the Basin Plan by conducting road
13 construction and repair activities within the basin that result in the discharge of material,
14 including soil, silt, and/or other organic and earthen materials to Frietas Gulch and/or other
15 watercourses in the basin in quantities that are harmful to beneficial uses of those watercourses.

16 75. Defendants have violated prohibitions of the Basin Plan by conducting road
17 construction and repair activities within the basin that result in the placement or disposal of
18 material, including soil, silt, and/or other organic and earthen materials where those materials
19 could and did pass into Frietas Gulch and/or other watercourses in the basin in quantities that
20 could be harmful to the beneficial uses of those watercourses.

21 76. Plaintiff Regional Water Board is entitled to civil liability, in an amount according to
22 proof, for every day Defendants violated and/or continue to violate prohibitions of the North
23 Coast Regional Water Board Basin Plan.

24 **THIRD CAUSE OF ACTION**
25 **(Violation of Water Code Section 13264 – New Discharge/Change in Discharge)**

26 77. Plaintiff re-alleges and incorporates herein by reference the allegations in paragraphs
27 1 through 76, inclusive, of this Complaint.

28

1 78. At all times relevant to this Complaint, Water Code section 13264, subdivision (a)
2 has prohibited the initiation of “any new discharge of waste or...any material changes in any
3 discharge” without the discharger first submitting a report of waste discharge to the Regional
4 Water Board pursuant to Water Code section 13260.

5 79. At all times relevant to this Complaint, Water Code section 13264, subdivision (b),
6 has authorized the Attorney General to petition the court for the issuance of a temporary
7 restraining order and/or preliminary injunction and/or permanent injunction enjoining any
8 threatened or continuing violation of Water Code section 13264. (Wat. Code, § 13264, subd. (b).)

9 80. Defendants have violated and continue to violate Water Code section 13264 by
10 allowing new discharges into Frietas Gulch an/or Indian Creek without filing a report describing
11 proposed changes to the Regional Water Board. These violations include, but are not limited to,
12 improper construction and maintenance of roads, and improper construction and maintenance of
13 culverts. These roads and culverts have caused and continue to cause new discharges to Frietas
14 Gulch and/or Indian Creek.

15 81. Defendants did not make any report of waste discharge to the Regional Water Board
16 in connection with these new and/or changed discharges to Frietas Gulch and/or Indian Creek as
17 required by Water Code section 13260, subdivision (c).

18 **FOURTH CAUSE OF ACTION**
19 **(Nuisance [Civil Code Section 3480])**

20 82. Plaintiff re-alleges and incorporates herein by reference the allegations in paragraphs
21 1 through 81, inclusive, of this Complaint.

22 83. Pursuant to Civil Code section 3494, a public nuisance may be abated by any public
23 body or officer so authorized by law. Water Code section 13002, subdivision (c) provides that
24 the Attorney General may, on his own motion or at the request of the Regional Water Board,
25 bring an action to abate any pollution or nuisance.

26 84. Nuisance is defined in Civil Code section 3479 as: “[a]nything which is injurious to
27 health..., or is indecent or offensive to the senses, or an obstruction to the free use of property, so
28

1 as to interfere with the comfortable enjoyment of life or property, or unlawfully obstructs the free
2 passage or use, in the customary manner, of any navigable...stream....”

3 85. A “public nuisance” is defined in Civil Code section 3480 as a nuisance “which
4 affects at the same time an entire community or neighborhood, or any considerable number of
5 persons...” Civil Code section 3490 provides that no lapse of time can legalize a public nuisance.

6 86. On information and belief, Defendants’ activities and discharges in the Indian Creek
7 watershed were a public nuisance that continues to endanger the beneficial uses of the waters of
8 the state of California, and obstructs the customary use of a navigable stream.

9 87. Defendants’ activities and discharges into the Indian Creek watershed affect
10 numerous downstream users and members of the public.

11 88. The seriousness of the harm caused by Defendants’ activities and discharges
12 outweighs any social utility of Defendants’ conduct.

13 89. The nuisance is capable of abatement to applicable regulatory standards, but plaintiff
14 is informed and believes that Defendants will, unless restrained and enjoined by this Court,
15 continue to maintain the public nuisance and the acts complained of herein, and the threat to the
16 waters of the United States and the state of California, and to the environment, will continue.

17 90. Plaintiff has no plain, speedy or adequate remedy at law to address the public
18 nuisance. Injunctive relief is expressly authorized by statute. (Code Civ. Proc., § 526.)

19 **PRAYER FOR RELIEF**

20 WHEREFORE, Plaintiff prays that the Court:

21 1. Pursuant to the First Cause of Action, issue a preliminary and permanent injunction
22 ordering Defendants to cease discharges to Frietas Gulch and/or Indian Creek in violation of the
23 Clean Water Act and Water Code section 13376.

24 2. Enter judgment awarding plaintiff civil liability according to proof against
25 Defendants as appropriate pursuant to the First and Second Causes of Action.

26 3. Pursuant to the First, Second, and Third Causes of Action, issue a preliminary and
27 permanent injunction prohibiting Defendants from further violations of the Water Code, including
28 a prohibition on conducting unpermitted work on any parcels in the State of California.

1 4. Pursuant to the First and Third Causes of Action, issue a preliminary and permanent
2 injunction ordering Defendants to submit a report of waste discharge to the Regional Water Board
3 in connection with any current or future discharges or proposed changes to discharges to waters
4 of the State or waters of the United States as required by Water Code sections 13260, subdivision
5 (c), and 13376.

6 5. Pursuant to the Fourth Cause of Action, issue a preliminary and permanent injunction
7 requiring Defendants to take immediate action to abate the public nuisance created by
8 Defendants' activities in and around Frietas Gulch and/or the Indian Creek watershed.

9 6. Issue preliminary and permanent injunctions ordering Defendants to remedy all other
10 violations alleged in this Complaint.

11 7. Pursuant to all causes of action, grant plaintiff its costs of suit herein.

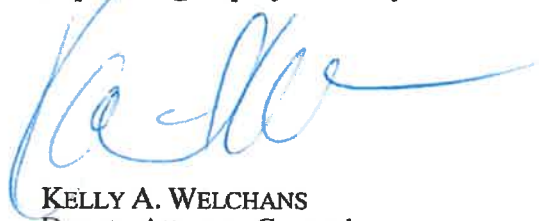
12 8. Award plaintiff expert fees, reasonable attorney's fees, and all costs of investigating
13 and prosecuting this action, as provided in Code of Civil Procedure section 1021.8.

14 9. For such other and further relief as the Court deems just and proper.

15 Dated: September 8, 2017

Respectfully Submitted,

16
17 XAVIER BECERRA
18 Attorney General of California
19 TRACY L. WINSOR
20 Supervising Deputy Attorney General



21
22 KELLY A. WELCHANS
23 Deputy Attorney General
24 *Attorneys for Plaintiff*

25 ***[Code Civ. Proc. § 446 Requires***
26 ***Verification of the Answer to this***
27 ***Complaint]***

NEW BUSINESS

To: Board of Directors
From: Chris Harris
Date: October 12, 2017
Re: Consumer Driven Health Plan – Staff Research

Background

As everyone is aware, the cost of health insurance premiums continue to rise on an annual basis and there is no reason to expect this to change in the future. As discussed during the budget process last June & July, for this coming calendar year the District’s HMO Plans will see an increase of 8%, while the PPO and Consumer Driven Health Care Plans will see an increase in premiums of over 4%.

Although the Consumer Driven Health Plan (CDHP) continues to be the most cost effective means of offering health insurance to employees (nationwide enrollment grew by 26% in 2015)¹, it is typically not the first choice for employees. Depending on the employees personal or family medical conditions, other insurance plans (HMO or PPO) may potentially be a better option to ensure the wellbeing of the employee. Decisions regarding health insurance are very personal to the employee and have the potential to significantly impact their lives and the lives of their families.

To best help employees make the most educated decision possible, staff has been tasked to 1) understand the current concerns employees have regarding the CDHP, and 2) research other incentive plans that agencies are offering to encourage employees to consider switching to the CDHP.

Understood Concerns

For HBMWD, staff has found concerns regarding:

- Impact of the high deductible (\$1,500-\$3,000/annually - single or couple/family)
- Confusion regarding how the plan actually works (“I have paid all my deductible, now what?”)
- Questions regarding managing ongoing medical needs (“I have an ongoing monthly prescription”)
- Concerns of going to a “different” type of plan versus one that is known/understood (utilization chart attached)
- Depending on age, employees have greater “health” concerns (age bracket chart attached)

To address these issues, the District has provided education & information directly from JPIA to the employees. The District has also provided information regarding several online options available to help employees become more involved in their medical care. (For the most cost effective use of the CDHP, the participant does need to make smarter decisions regarding their health care spending).

¹ *Seventh Annual Cigna Choice Fund Experience Study*

Currently the District deposits the CDHP deductible (\$1,500-\$3,000/annually - single or couple/family) into the employees HSA as long as they remain in the plan. Additionally, the District offers an incentive of \$1,000/yr deposited into the employees' Health Savings Account (HSA) for the first two years they are enrolled in the plan. Other local agencies offer similar deposits to varying degrees. The JPIA offers an incentive covering the deductible for the first year, then continues depositing that amount annually until the participants HSA balance reaches twice the annual deductible, then the JPIA contributes one-half of the annual payment. This contribution continues as long as the employee remains in the plan. In discussing this incentive plan with JPIA staff, they did **not** recommend that our District implement an incentive plan of this type. The JPIA staff felt their incentive "...adds administrative burden to our accounting staff to track employer contributions and requesting personal health information each year." There are also "...HIPPA concern(s) for the employer requesting personal health information showing the amount spent." Finally, with this type of incentive, there is non-discrimination testing required by the IRS to prove the pre-tax benefits are not more beneficial to the various compensation levels. Offering an incentive that is the same to everyone does not require non-discrimination testing.

Recommendation

Although staff is open to any other suggestions the Board may have, staff is currently recommending the District extend the \$1,000 incentive from two-years to four-years. Employees currently enrolled on the plan would have their incentive extended from two-years to four-years, new enrollments would receive the 4-year incentive. Using the CY18 "family" monthly premium expense for the various health plans, the savings can be seen in the chart below.

	MONTHLY PREMIUM (CY18)	ANNUALIZED	TOTALS FOR FOUR YEARS
PPO Family*	\$2,499.52/mo.	\$29,994.24/yr.	\$119,976.96
Value HMO Family	\$2,429.91/mo.	\$29,158.92/yr.	\$116,635.68
CalCare HMO Family	\$2,499.52/mo. (actual \$2,640.35, employee pays difference)	\$29,994.24/yr.	\$119,976.96
CDHP Family	\$2,001.59/mo. Plus \$3,000/deductible Plus \$1,000/incentive	\$24,019.08/yr. Plus \$4,000/yr. =\$28,019.08/yr.	\$112,076.32
District Savings Per Family Plan (Compared to CalCare HMO**)	<\$497.93/mo.> premium only <\$164.60/mo.> w/incentive	<\$1,975.20/yr.>	<\$7,900.80>
Employee Savings Per Family Plan (Compared to CalCare HMO**)	<\$140.83>/mo.	<\$1,689.96>/yr.	<\$6,759.84>

*Currently HBMWD uses the PPO Family Premium as the maximum premium paid by the District, employees are responsible for any premium that exceeds this threshold.

**CalCare HMO used as comparison based on highest enrollment among employees

Items of note:

- The chart on the previous page uses CY18 premiums over the four-year span, it should be assumed that premiums will increase for potentially all of the plans.
- With additional premium increases, the difference between the plans will potentially become greater.
- If employees change to the CDHP plan, the District will save money, if no employees switch to the CDHP, the District is not out any additional funds.

Extending our current incentive avoids the challenges and pitfalls that the JPIA has encountered in the administration of their own CDHP incentive. The District's current CDHP incentive is very straightforward, easy to explain and understand – extending it would not increase any administration costs and would be essentially seamless to the employees already on the plan.

Attachments

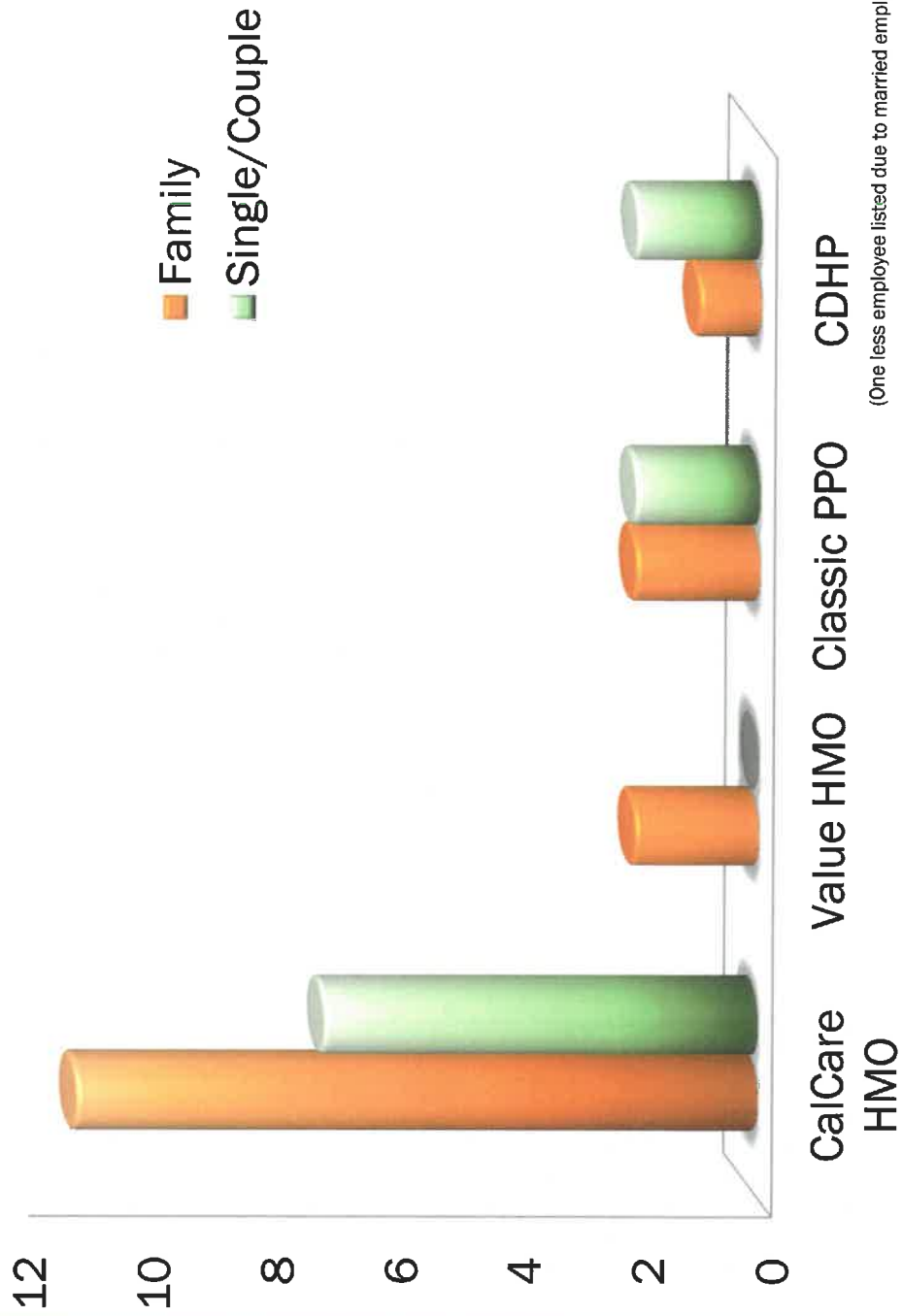
Current HBMWD Health Plan Utilization

Current HBMWD Employees Age Brackets

JPIA "HSA Frequently Asked Questions"

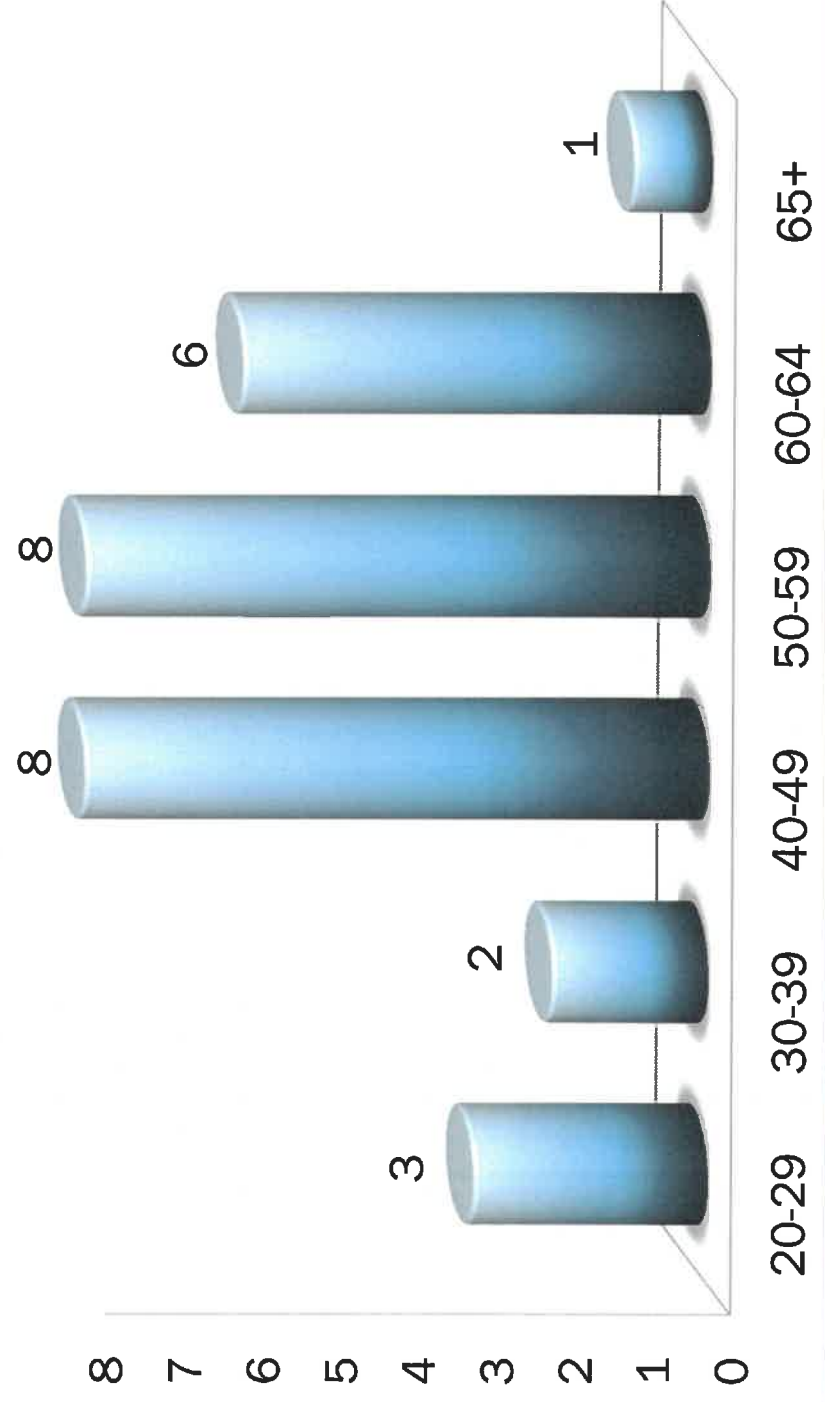
JPIA "Consumer Driven Health Plan with an HSA"

Humboldt Bay Municipal Water District Family Health Plan Utilization ^(10/17)



Humboldt Bay Municipal Water District

Employee Age Brackets (10/17)



HSA Frequently Asked Questions



What is a Health Savings Account (HSA)?

A Health Savings Account is a special tax-advantaged savings account available to people who are enrolled in a Consumer Driven Health Plan (CDHP). You must be actively enrolled in a CDHP in order to contribute to your HSA. Once you are no longer enrolled in a CDHP, you can maintain your HSA and continue to use the money on medical expenses, but you can no longer make contributions to the account.

What does tax-advantaged mean in reference to HSAs?

Tax-advantaged means any contributions made to the HSA are tax free at the federal level. However they are taxed under California income tax rules. Any withdraws from a HSA are tax free at the federal and California level as long as they are withdraws for eligible medical expenses. Withdraws for non-medical expenses are taxed at an individual's normal tax rate. There is an additional 20 percent tax penalty for withdraws made prior to age 65.

How can I spend my HSA money without being taxed?

- Your insurance deductible, copayment, and coinsurance until you reach your health plan's out-of-pocket maximum.
- Qualified health care expenses and some medical expenses excluded from your health plan. This includes dental, vision, and some over-the-counter products. Please refer to IRS Publication 502 for a detailed list.
- Post-tax premiums owed after employment ends such as COBRA or Medicare premiums.

How will an HSA plan save me money?

A HSA plan may save you money through lower premiums, tax savings, and money deposited in your account which can be used to pay your deductible and other out-of-pocket medical expenses in the current year or in the future.

How does a HSA differ from a Flexible Spending Arrangement (FSA)?

You will not lose your HSA funds at the end of the year. You are allowed to roll your HSA balance over each year and take the money with you if your employment ends. You determine if a withdrawal is an eligible expense, so no third party substantiation of claims.

What is required of me to be eligible to contribute to a Health Savings Account?

The IRS has strict guidelines to determine who is eligible to contribute to a HSA. The following requirements must be met in order to receive or make contributions:

- You must be enrolled in a CDHP or High Deductible Health Plan.
- You cannot have other medical coverage. A spouse and/or dependents may have other coverage.
- You cannot have Medicare. A spouse and/or dependents may have Medicare.
- You cannot be claimed as a tax dependent.

Can I have a Flexible Spending Arrangement (FSA) or Health Reimbursement Arrangement (HRA) along with HSA?

No, you may not have access to a traditional Medical FSA or HRA along with a HSA, which includes having access to a spouse's FSA. This type of plan is considered other medical coverage. The only exception to this would be if the plan is specifically a Limited Purpose FSA or HRA that can only be used for eligible dental and vision expenses. Post-Deductible FSA or HRA that only provides medical reimbursements, once the annual deductible has been met, are allowed. The IRS limit of \$2,500 for FSA still applies to the Limited Purpose FSA and Post-Deductible FSA.

(continued)

HSA Frequently Asked Questions



What is the IRS 2017 HSA Contribution Limits?

- An employee with employee only medical coverage can contribute up to \$3,400.
- An employee with employee plus dependent medical coverage can contribute up to \$6,750.
- HSA holders that are age 55 and older may make an additional \$1,000 contribution.

What are the catch-up contributions?

Catch-up contributions are only available to persons over the age of 55 and without Medicare. If you are covered by your HSA for the entire year, you may deposit the entire catch-up amount starting with the year you turn 55. For 2017, the catch-up contribution limit is \$1,000.

Who can contribute to my HSA?

Anyone can contribute to your HSA, however, only your employer and you will receive a tax benefit from the contributions.

How can contributions be made to my HSA?

- Your employer and you can make tax-advantaged contributions through payroll.
- Contributions can be mailed into your HSA or directly transferred to your HSA from a bank. These contributions would be considered post-tax, so you wouldn't get the tax-advantaged savings until you filed your tax return the following year.
- You can make a one time rollover from an IRA to your HSA. These contributions would count towards your annual maximum limit for that year. Please see IRS Publication 969 for more details on the requirements for this type of rollover.

When do expenses have to be incurred?

Only expenses incurred after you established your HSA are considered eligible expenses. Expense incurred before you establish your HSA are not qualified medical expenses. An account is deemed established once the account holder has opened the account and funds have been deposited into the account for the first time.

Whom can the money in my account be spent on?

Yourself, spouse, and anyone that can be claimed as a tax dependent on your tax return. The dependent does not have to actually be claimed on your tax return but only needs to be eligible.

How do I access HSA funds?

- You can request a HSA Debit Card from the HSA provider to swipe at provider facilities which withdraws the money directly from the HSA.
- You can request a HSA Check Book from the HSA provider which will allow you to pay bills and providers directly from your HSA.
- You can call the HSA provider and request a reimbursement check or direct deposit to reimburse out-of-pocket health expenses.

Will the HSA provider ask me for proof of my medical expenses when I take a distribution?

No, you will be required to hold on to receipts and Explanation of Benefits (EOBs) as supporting documentation for the distributions. The only time you will be asked to provide that documentation is by the IRS during an audit.

(continued)

HSA Frequently Asked Questions



Can I invest the money in my HSA?

Yes, once you have a minimum balance in the HSA, you will be allowed to transfer funds into a brokerage account with a variety of investment options. However, before you can access that money to pay for medical expenses, you will be required to sell your investments and transfer the money back to your money market account. HealthEquity's minimum balance is \$1,000.

Is it true, you can use money from your HSA for non-preferred providers?

Yes, money from your HSA can be used to pay for all qualified medical expense. However, if you use in-network providers, you will usually save money. See IRS Publication 502 for a list of eligible expenses.

Do I have to continue to pay health insurance premiums if I meet my deductible on my CDHP?

Yes, the health plan is a separate component from the HSA. You must continue to pay your premiums in order to remain eligible for health benefits and to continue contributing to your HSA.

Can the unused funds in my HSA be rolled over each year?

Yes, your funds will accumulate without a maximum cap. However, the annual limit you can contribute to the HSA may not exceed the maximum contribution amount set by the IRS, plus "catch-up" contributions for those individuals over age 55.

Can I take the money out of my HSA anytime I want?

Yes. You can take money out anytime, tax-free and without penalty, as long as it is used for qualified medical expense. If you withdraw funds for other purposes, you will be subject to income tax. If you are under 65 years old, an additional 20 percent tax penalty will apply to the amount withdrawn.

What happens to my HSA if I leave my employer with the ABHP?

All the money in your HSA is your money. This includes any contributions deposited by your employer on your behalf. These funds may continue to be used on qualified medical expenses listed in IRS Publication 502. Remember, you can only contribute to your HSA when you are enrolled in a CDHP.

If you enroll in a new health plan that has a High Deductible (\$1,300 for Employee only or \$2,600 for Employee and Family) then you may continue to contribute to your HSA account because you own the account.

Helpful Tips:

- Learn more about your plan by reading your plan documents carefully and/or ask HR or insurance carriers any questions you might have.
- Review past Explanations of Benefits (EOB) for ongoing medical issues that you will continue to receive care for once you are enrolled on the CDHP.
- Visit the carrier's website for in-network provider search.
- Inform your doctor's office that you are on a CDHP and ask for an estimate for the service(s) you may need.
- Check the IRS list of "qualifying healthcare expenses" to see what types of healthcare costs you can pay for with your HSA. (IRS Publication 502)
- Keep a record and copy of all your healthcare receipts and claims. This will help you keep track of your expense and know when you met your deductible.
- Get recommended preventive screenings and regular checkups and talk to your doctor about what you can do to stay healthy.

(continued)

Consumer Driven Health Plan with an HSA



What is an Consumer Driven Health Plan (CDHP)?

Consumer Driven Health Plan (CDHP) is a health plan product that combines a Health Savings Account (HSA) with High Deductible medical plan. It provides insurance coverage and a tax-advantage way to help save for future medical expenses.

What are the general features of an CDHP?

- For 2017, an CDHP has an annual deductible of \$1,500 for Self only coverage and \$3,000 for Self and Family coverage.*
- The annual out-of-pocket limits for 2017 are \$2,600 for Self Coverage and \$5,200 for Self and Family coverage under Kaiser. Anthem's annual out-of-pocket limit for 2017 are \$2,500 for Self Coverage and \$4,000 for Self and Family coverage.*
- Deductibles are included in the out-of-pocket maximum.
- In-network preventive care services are provided at no cost.

HSA \$\$

Coinsurance or Co-pays until Out-of-Pocket Maximum Is reached

HSA \$\$

Deductible

Free!

Preventive Care

What are the covered Preventive Care Benefits?

Preventive care includes, but is not limited to the following:

- Periodic health evaluations, including test and diagnostics procedures ordered in connection with routine examinations, such as annual physicals
- Routine prenatal and well-child care
- Child and adult immunizations
- Tobacco cessation programs
- Screening services (cancer, heart, mental health, pediatric, vision, etc.)

What will I have to pay?

After you meet your deductible, you still have to pay co-pays and/or co-insurance for covered medical services and prescriptions drugs up until you meet the out-of-pocket maximum cost.*

How does the payment process work when I am in an CDHP plan?

After your healthcare provider submits the claims to the insurance carrier for your visit, you will receive an Explanation of Benefits (EOB) in the mail. If there is an amount due, it will appear on your EOB and you will receive a bill from your healthcare provider for that amount.

How will I know when I meet my Deductible?

The Explanation of Benefits (EOB) that you receive after a service will show whether you have met your deductible or not.

*Remember that your plan may have different deductibles for single and family coverage. Also, your plan may have separate deductibles for different types of services, like in-network and out-of-network care. Before you visit the doctor, go to www.mycastlight.com/jpia, read through your plan documents, call the insurance company, or talk to HR so that you know exactly what is covered and what you will need to pay before and after you meet your deductible.

This Page
Intentionally
Left Blank

Resolution No. 2017-11**Resolution of the Humboldt Bay Municipal Water District Board of Directors for Quagga/Zebra Mussel Infestation Prevention Fee Grant Program Application and Funding Agreement**

WHEREAS, prior to the State of California, Department of Parks and Recreation, Division of Boating and Waterways' approval of an Application and execution of a Grant Agreement, said **Humboldt Bay Municipal Water District Board of Directors** is required to pass a resolution, authorizing a designated representative(s) to execute said Application, Grant Agreement, amendments, and certifications, designating a representative to approve claims for reimbursement, designating a representative to sign the Reimbursement Claim Form and Quarterly Progress Report, designating a representative to sign Project Completion Certification, and designating a representative to sign the Contractor's Release Form; and

WHEREAS, the **Humboldt Bay Municipal Water District** has the authority to construct, operate, and maintain the **Ruth Lake**; and make an application to the State of California, Department of Parks and Recreation, Division of Boating and Waterways for a grant in the amount of **\$7,480.00** under the Harbors and Watercraft Revolving Fund for the Quagga and Zebra Mussel Infestation Prevention Grant Program; and

WHEREAS, the **Humboldt Bay Municipal Water District** desires to enhance and continue enforcement of the Aquatic Invasive Species Prevention Plan for the prevention of an infestation of the quagga and zebra mussel; and

WHEREAS, by the **Humboldt Bay Municipal Water District's** accepted application the **Humboldt Bay Municipal Water District** will adopt a project budget totaling **\$7,480.00**; and

WHEREAS, by the **Humboldt Bay Municipal Water District Board of Directors** that, pursuant and subject to all of the terms and provisions of the Quagga and Zebra Mussel Infestation Prevention Grant program, application be made to the State of California, Department of Parks and Recreation, Division of Boating and Waterways for funding.

NOW THEREFORE BE IT RESOLVED that **Board of Directors of Humboldt Bay Municipal Water District** is hereby authorized and directed to cause the necessary data to be prepared and application to be signed and filed with the State of California, Department of Parks and Recreation, Division of Boating and Waterways; and;

BE IT FURTHER RESOLVED, that the **General Manager** is hereby authorized to sign the State of California, Department of Parks and Recreation, Division of Boating and Waterways, Quagga and Zebra Mussel Infestation Prevention Grant Agreement and any amendments thereto; and

BE IT FURTHER RESOLVED, that the **General Manager or Business Manager** is hereby authorized to approve Claims for Reimbursement under the State of California, Department of Parks and Recreation, Division of Boating and Waterways, Quagga and Zebra Mussel Infestation Prevention Grant Program; and

BE IT FURTHER RESOLVED, that the **General Manager or Business Manager** is hereby authorized to execute the Budget and Expenditure Summary for the State of California, Department of Parks and Recreation, Division of Boating and Waterways, Quagga and Zebra Mussel Infestation Prevention Grant Program; and

BE IT FURTHER RESOLVED, that the **General Manager** is hereby authorized to sign the Contractor's Release Form for the State of California, Department of Parks and Recreation, Division of Boating and Waterways, Quagga and Zebra Mussel Infestation Prevention Grant Program; and

BE IT FURTHER RESOLVED, that the **General Manager** is hereby authorized to certify that the project is complete and ready for final inspection.

Adopted and approved this 12th day of October 2017 by the following roll call vote:

AYES:

NOES:

ABSENT:

Attest:

Sheri Woo, President

J. Bruce Rupp, Secretary/Treasurer

From: ACWA <acwabox@acwa.com>
Sent: Friday, September 22, 2017 4:05 PM
To: Sherrie Sobol
Subject: Outreach Alert: Letters Requesting Governor's Signature on AB 313 Needed



[Click here to view it in your browser.](#)

OUTREACH ALERT

Sept. 22, 2017

Letters Requesting Governor's Signature on AB 313 Needed

Bill Would Provide Fairness, Objectivity and Due Process in Water Rights Proceedings

ACWA-supported AB 313, a bill that would improve the management and administration of water within the State Water Resources Control Board, was passed by the Legislature last week and sent to Gov. Jerry Brown for signature.

ACWA is urging its members to submit letters to the governor requesting his signature on this important measure. A sample letter is provided below.

The governor has until Oct. 15 to either sign or veto AB 313.

Background

AB 313, by Assembly Member Adam Gray (D-Merced), will help local agencies navigate complicated regulatory processes with the State Water Board by providing to stakeholders a neutral legal forum subject to California's Administrative Procedures Act for various water rights proceedings.

The new division would conduct water rights enforcement hearings objectively through administrative law judges who have at least 8 years of experience practicing water law and are

appointed by the executive director of the State Water Board.

Currently, the State Water Board is authorized to issue cease-and-desist orders and administrative civil liability complaints to persons or entities that have allegedly violated certain requirements relating to water use and then adjudicate those alleged violations in subsequent proceedings. AB 313, however, would authorize the new Water Rights Division to issue a cease-and-desist order, after the State Water Board files a complaint with the division. Similarly, for specified administrative civil liability complaints, instead of allowing the State Water Board to issue orders directly, as currently practiced, AB 313 would authorize the California Department of Water Resources to issue a complaint and the new Water Rights Division to hear it.

AB 313 is unique in that it balances these new procedures with current administrative authorities by providing that the administrative law judge's adjudication only results in a recommendation to the State Water Board, instead of a final decision. The State Water Board would then review the recommendation and could either adopt, modify, or reject, as necessary, for the matter's final administrative determination, which may be appealed to a superior court.

ACWA's State Legislative Committee adopted a "support" position on AB 313 at its June 9 meeting, and ACWA's staff has since been advocating for the bill.

Sample Letter

ACWA is urging its members to submit letters to the governor requesting his signature on AB 313. This sample letter is available.

Please also be sure to send a copy of your final letter to ACWA Executive Assistant Michaela Martinez.

Questions

For questions about AB 313 and ACWA's position, please contact ACWA Senior Legislative Advocate Whitnie Wiley at (916) 441-4545.

CONTACT
Whitnie Wiley
ACWA Senior Legislative Advocate
(916) 441-4545

[GET MORE INFO](#)

[FIND YOUR LEGISLATOR](#)

[OUTREACH CENTER](#)

[STATE LEG COMMITTEE](#)

[REGULATORY ISSUES](#)

[ACWA POLICY PRINCIPLES](#)





SECTION 14 PAGE NO. 3
HUMBOLDT BAY MUNICIPAL WATER DISTRICT

828 SEVENTH STREET, PO BOX 95 • EUREKA, CALIFORNIA 95502-0095

OFFICE 707-443-5018 ESSEX 707-822-2918

FAX 707-443-5731 707-822-8245

EMAIL OFFICE@HBMWD.COM

Website: www.hbmwd.com

BOARD OF DIRECTORS

SHERI WOO, PRESIDENT

NEAL LATT, VICE-PRESIDENT

J. BRUCE RUPP, SECRETARY-TREASURER

BARBARA HECATHORN, DIRECTOR

MICHELLE FULLER, DIRECTOR

GENERAL MANAGER

JOHN FRIEDENBACH

October 12, 2017

The Honorable Jerry Brown, Governor
State Capitol, Suite 1173
Sacramento, CA 95814

RE: Request for Signature on Assembly Bill 313 (Gray) – Water Rights Fairness

Dear Governor Brown:

On behalf of Humboldt Bay Municipal Water District, I write in support of AB 313, landmark water rights fairness legislation introduced by Assemblyman Adam Gray (D-Merced). This good governance bill will restore fundamental fairness currently lacking in California's water rights management. AB 313 passed the Legislature with strong bipartisan support and awaits your signature. We urge you to sign it into law without delay.

AB 313 ensures water rights holders are afforded the same basic objectivity and due process our justice system promises *all* – nothing more, nothing less. The bill establishes a new water rights management structure, requiring that specially trained administrative law judges conduct water rights enforcement hearings. This intermediate transfer of power ensures a neutral body will efficiently adjudicate complex, often controversial, and critically important water rights matters.

Currently, the State Water Resources Control Board (SWRCB) writes regulations, initiates enforcement actions, and conducts water rights hearings. As a result, many water rights holders feel coerced to settle administrative actions initiated by the SWRCB, rather than seek a resolution in the present process.

AB 313 establishes a Water Rights Division in the Office of Administrative Hearings (OAH) to handle all water rights enforcement matters. Specially trained administrative law judges will conduct hearings and submit a decision to the full SWRCB for adoption or amendment, a shift ensuring everyone is treated with the level of fairness our Constitution requires. The Senate Judiciary Committee recognized that the bill improves existing law while making no impact on environmental protections. AB 313 removes conflicts and inefficiencies, and guarantees hearings are run with requisite legal expertise.

The bill received overwhelming bipartisan support through the Assembly and Senate, a clear sign that the issue resonates across the state. The procedural structure it creates is similar to that recently adopted for the Board of Equalization. Nothing in AB 313 guarantees a better outcome for the water rights holder. It doesn't pick winners or losers, nor does it favor one constituency over the other. It simply allows for the constitutional protection of due process to be afforded to the state's water users.

I urge you to act immediately to sign AB 313 to make our water rights administration function more effectively, efficiently and fairly.

Sincerely,

John Friedenbach
General Manager

cc: Michaela Martinez, ACWA



ENGINEERING

Collectors 1 & 1A Rehabilitation Project

HBMWD Board Meeting – October 12, 2017



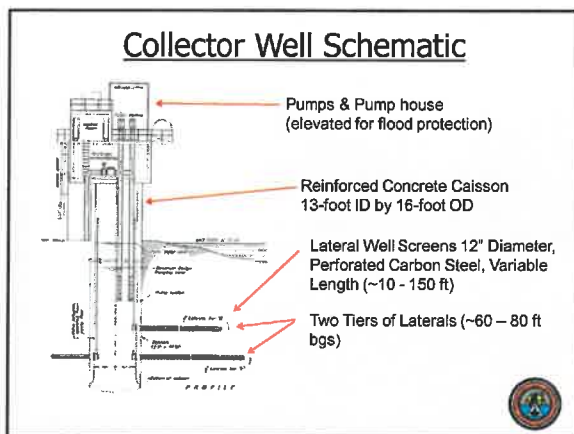
Presented By: Nathan Stevens, PE

Owner: Humboldt Bay Municipal Water District
 Engineer of Record: Pat Kaspari, PE
 Contractor: Layne Christensen (Ranney Collector Wells)

Collectors 1 & 1A Rehabilitation Project

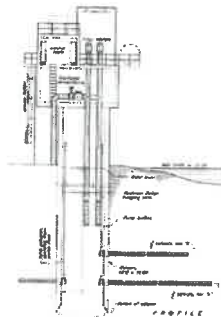

- ❖ **History**
- ❖ **Lateral Project**
- ❖ **Results**
- ❖ **Next Steps**

Ranney Collector Rehabilitation



One of highest priority areas:

- 50 years old and "worn"
- Essential for service mission: high quality, reliable drinking water
- Summer demands approaching capacity of 4 Collectors

Summary of *Assessment* Work



- 1996** – Video Inspection of Caissons (Aqua Video)
- 2002** – Collector 2 Video Inspection of laterals and Pump Test (Reynolds, Inc.)
- 2003** – Ranney Collector Rehabilitation Feasibility Report (Winzler & Kelly)
- 2006** – Inspection and flow tests of laterals in Collectors 1, 1A, 3 and 4 (Collector Wells International)

Summary of *Rehabilitation* Work

District decided to start with **Cleaning/Rehab Project:**



- 2005** – Collector 2 lateral cleaning and rehabilitation (Collector Wells International)
- 2006** – Collector 2 Evaluation Final Report (Winzler & Kelly)

Summary of Rehabilitation Work

Results & Conclusions from Collector 2 Cleaning:

1. Provided valuable information re: condition of laterals
2. Increased specific capacity (yield) to limited extent
3. Based on economics, cleaning not recommended for other Collectors
 - i. Specific Capacity increased by 13%
 - ii. Drawdown decreased by 1.8 feet
 - iii. Cost savings <\$1,000/year
 - iv. Project cost was ~ \$270,000
4. Cleaning does not increase longevity - laterals will still be 50-plus years old

Summary of Rehabilitation Work

Given results, District decided to pursue lateral replacement



2006 - development of groundwater model, geotech analysis and groundwater study (funded by DWR Local Groundwater Assistance Grant)

2008 - additional groundwater modeling and geotech work to plan new laterals at Collector 3

2012 - Installed new Laterals in Collector 3

2014 - Geotech investigation around Collector 1

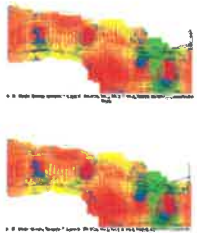
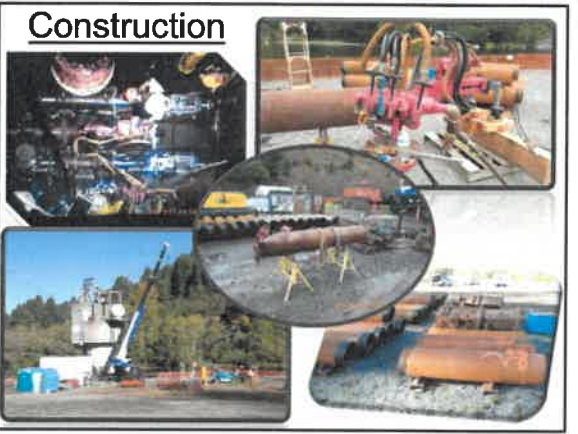
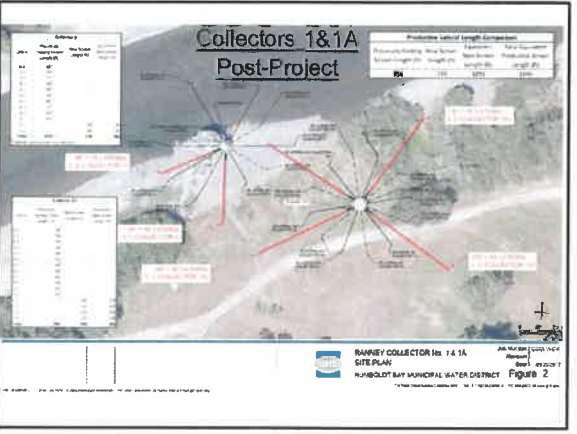
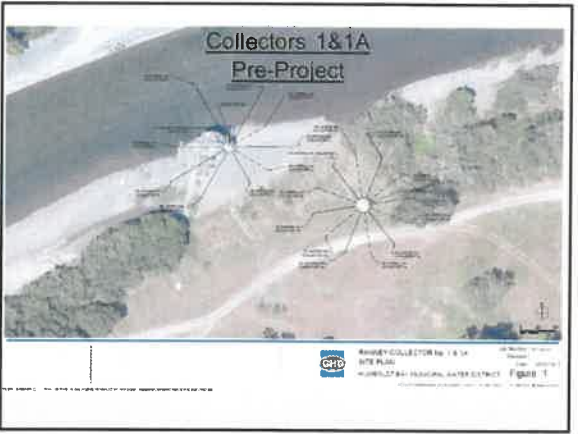
2017 - Installed new Laterals in Collector 1

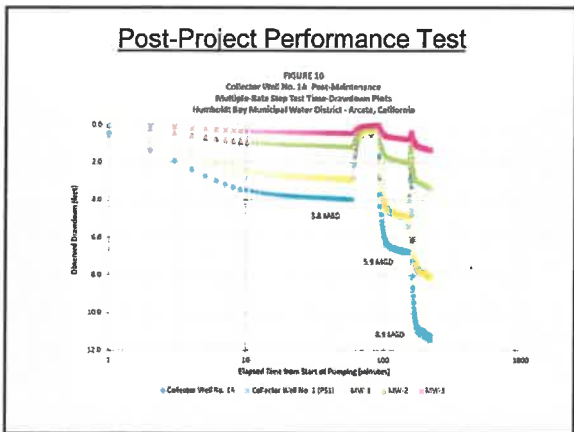
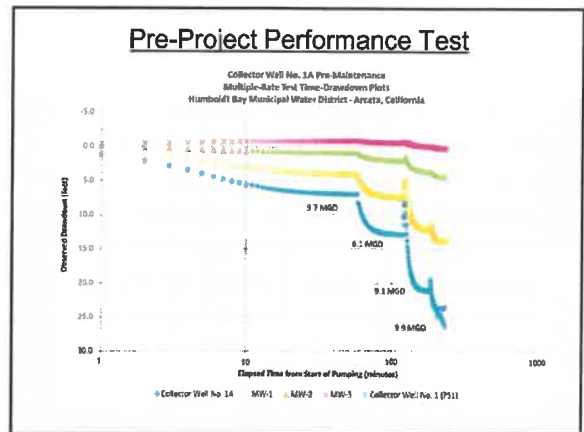



Why Collector 1/1A?

Recommend Collector 1&1A:

- Access - 1A is last "ground based" collector
- Very good producer with flexible pumping arrangement
- "Last chance" at water
- Higher reliability (dedicated, below-ground 12kv electric feed)



Pre- and Post-Project Comparison

Drawdown: Change in well level due to pumping

Specific Capacity: Sustainable discharge divided by drawdown

	Drawdown (ft, Collector 1A Only)	Specific Capacity (gpm/ft, Collector 1A Only)
Pre-Test Step 1 (3.7 MGD)	7.0	368
Post-Test Step 1 (3.8 MGD)	4.0	658
Pre-Test Step 2 (6.1 MGD)	12.9	328
Post-Test Step 2 (5.9 MGD)	6.7	609
Pre-Test Step 3 (9.1 MGD)	21.3	296
Post-Test Step 3 (8.9 MGD)	11.3	555

Pump Replacement

- **2017** – Two new pumps installed on Collector 1
 - Four existing pumps on Collector 1 (Pumps 1.1 - 1.4)
 - Two new pumps: 400 hp (Pump 1.1); 250 hp (Pump 1.4)

New Operational Data vs. Old Operational Data

Data Compilation in Progress

Financials

- Total Project Cost (includes preliminary evaluation, design, permitting, construction, construction management, and two new pumps): **\$ 2,485,000**
- Funding Sources:
 - IRWMP Prop 84 Grant (27%) \$ 666,600
 - Rate Payers ^{NSI} \$ 1,818,400
 - Pump 1.1 and Pump 1.4 replacement budgeted costs (FY '17/18): \$344,000 total



Next Steps

- Pumps and Motors (in process)
- Electrical Work
- Painting



Next Collector

- Collector 2 Lateral Replacement
 - \$2.5 Million
 - Scheduled in CIP for FY '23/24
- Underground dedicated electrical controls



Questions?



Humboldt Bay Municipal Water District

To: Board of Directors
From: John Friedenbach
Date: October 6, 2017
Re: Sheriff's Cove Dredging

The District received FEMA grant funding to assist with costs associated with the dredging required at Sheriff's Cove due to the past winter storms. As required when receiving federal grant funding, the District followed its Procurement Policy for Federally Funded Contracts. Option 2: "Competitive Sealed Bid" was selected to acquire construction services for the job. See excerpt from policy below:

2. Competitive Sealed Bid

The competitive sealed bid is the preferred method for procuring construction services. This method will lend itself to a firm, fixed price contract (lump sum or unit price) where the selection can be made principally on the basis of price.

- a. The HBMWD will advertise the Invitation for Bid (IFB) in publications of general circulation;
- b. The IFB will include complete and accurate specifications and pertinent attachments, and clearly define items or services needed, in sufficient detail for the bidders to properly respond;
- c. Bids will be opened publicly at the time and place stated in the IFB;
- d. The HBMWD will receive at least two or more responsible bids for each procurement transaction; and

If awarded, the contract will be given to the lowest responsive and responsible bidder. The HBMWD can, however, decide not to make the award to any of the bidders.

The bids are due on October 10, 2017 at 3:00 pm. Staff will review the bids for responsiveness and present them to the Board for consideration. Due to the limited streambed access permit conditions by CDFW, it is urgent that work begin as soon as possible prior to the winter rains. Staff will ask the Board to consider the lowest responsive bid; award the contract; and authorize the General Manager to enter in contract with the selected contractor.



September 19, 2017

Mr. John Friedenbach
Humboldt Bay Municipal Water District
828 Seventh Street
Eureka, CA 95502

Re: Humboldt Bay Municipal Water District Spillway Slab Investigation
Ruth, California

Dear Mr. Friedenbach:

Voss Laboratories, Inc. (VL) has completed site testing of the above referenced project regarding the visual inspection and non-destructive testing of the reinforced concrete spillway. The intent of the testing program was to delineate areas of delaminated concrete, characterize corrosion of reinforcing steel, scan reinforcement and determine if there is a loss of support (void) beneath the concrete spillway. This report includes a brief description of test methodology, field observations, testing results, and a brief summary.

TEST METHODOLOGY

Visual Inspection

The visual inspection consists of locating cracks, areas of distressed concrete and previously repaired areas. Inspectors are trained to recognize concrete conditions following the American Concrete Institute 201.1R-08, "Guide for Making a Condition Survey of Concrete in Service."

Hammer Sounding for Delaminated Concrete

Test sections were sounded with a hammer to locate delaminated areas of concrete caused primarily by reinforcing steel corrosion activity. Inspectors are trained to recognize delaminated areas of concrete by the sound of a hammer strike on the surface of the concrete. The concrete is sounded at nine to twelve-inch intervals with either a steel chain or hammer. Once a delamination is discovered, the interval is reduced to approximately three inches to delineate the extent of the area.

Reinforcement Steel Location and Cover Determination Utilizing Ground Penetrating Radar

Ground Penetrating Radar (GPR) works by sending a tiny pulse of energy into the concrete element and recording the strength and the time required for the return of any reflected signal. A series of pulses over a single area make up what is called a scan. Reflections are produced whenever the energy pulse enters into a material with different electrical conduction properties or dielectric permittivity from the material it left. Metals (reinforcing steel) are considered to be a complete reflector and do not allow any amount of signal to pass through. The bottom of concrete slab usually shows up as a change in the dielectric properties from the concrete to the air gap on the back side of the slab providing a reflection which is used to determine the

MR. John Friedenbach
SEPTEMBER 19, 2017
PAGE 2

thickness of the slab. Scans are collected and saved to determine spacing of reinforcement and clear concrete cover.

Corrosion Potentials of Reinforcing Steel

A half-cell potential survey provides information about the corrosion activity of the reinforcing steel. Testing shall be performed in accordance with ASTM C876 – *Standard Test Method for Corrosion Potentials of Uncoated Reinforcing Steel in Concrete*.

Impulse-Response

This technique utilizes an instrumented hammer and a velocity transducer (geophone). A triggered data acquisition system records waveforms from both the hammer and the geophone. In a plate-like structure (slab) the mobility factor is calculated as the ratio of the velocity amplitude at the test point to the force amplitude at a given frequency. The mobility is an indicator of the relative flexibility of the structure where an area of voiding (loss of subgrade) will have a higher mobility as compared to areas of sound support beneath the liner. Testing will be performed in accordance with ASTM C1740-*Standard Practice for Evaluating the Condition of Concrete Plates Using the Impulse-Response Method*.

Field Observations and Testing Results

Visual Inspection Observations

The spillway section inspected is approximately 90 feet wide by 370 feet long. The portion of the spillway that was inspected is comprised of the following elements:

1. Ogee – Reinforced concrete section of the sloped crest of spillway that is approximately 100 feet wide and approximately 39 feet long. Thickness of section varies throughout the Ogee.
2. Floor Slab of Chute Spillway – Reinforced concrete section that is approximately 90 to 100 feet wide and approximately 330 feet long. Thickness is typically one foot with a single mat of reinforcement. The slab is broken into 7 panels, each panel is divided by transverse joints, each panel is approximately 45 feet long. The panels are numbered from 1 to 7. Panel 1 is closest to downstream and panel 7 shares a construction joint with the Ogee.
3. Uphill/Downhill Wall Sections – The walls vary in height from 18 feet to 30 feet. The thickness of the walls vary from 10 inches (at top of wall) to 18 inches near the base.

Ogee

Visual inspection of the concrete on the Ogee showed that the overall condition of the concrete is in good condition. Surface erosion of the concrete was estimated to be 1/8 of an inch (see photo #1). A section of the concrete cover was removed on the crest near the middle where the

MR. John Friedenbach
SEPTEMBER 19, 2017
PAGE 3

reinforcement was exposed. Exposed reinforcement was observed to be #6 bars and were found to be relatively free of corrosion products (see photo #2). Cracking observed on the Ogee appeared to be typical associated with drying shrinkage with the exception a transverse construction joint along the crest which was most likely a cold joint between lift placements.

Floor Slab of Chute Spillway

Visual inspection of the concrete on the floor slab showed that the overall condition of the concrete is in good condition. Surface erosion of the concrete was estimated to be 1/8 of an inch (see photo #3). A section of the concrete cover was removed at the joint between panels 4 and 5. Exposed reinforcement was observed to be #6 bars and were found to have significant localized corrosion product near the joint with corrosion tapering as you move away from the joint (see photos #4 and #5). Cracking observed on the panels (except for panel #2) was typically drying shrinkage and found to be typically less than 0.015 inches in width. Panel #2 demonstrated cracking patterns most likely initiated by lack of curing or associated with the concrete mix. The cracks in panel #2 were found to typically be 0.040 inches in width (see photos #6 and #7).

Uphill/Downhill Wall Sections

Visual inspection of the concrete walls showed that the concrete was in sound condition. Some minor surface erosion that was typically less than 1/8 of an inch was observed in sections where water flow occurs. Localized repairs have been made at some of the joints (see photo #8). Accessible areas on the soil side for both the uphill/downhill walls were inspected for soil erosion. No significant erosion was observed.

Delamination Survey

Ogee

Approximately 4000 square feet of concrete was sounded for delaminations. Approximately 350 square feet of delaminated concrete was found on the Ogee or 9% of the surface area sounded. The opening exposing the reinforcing steel showed that the delamination is most likely occurring at a cold joint between lifts. See photos 9 through 11 for details.

Floor Slab

Each panel is approximately 4000 square feet in area. Delaminations were found primarily at joints between panels. Panel #3 has a delamination near panel #2 that is approximately 30 square feet in size (see photo #12). Panel #4 has a 10 square foot delamination near panel #3 (see photo #13). Panel #5 has 100 square feet in delaminated concrete. The two delaminations were located at the top and bottom of the panel with each delamination being approximately 50 square feet in size (see photo #14). Panel 7 has approximately 12 square feet of delaminated concrete.

Uphill/Downhill Wall Sections



MR. John Friedenbach
SEPTEMBER 19, 2017
PAGE 4

No delaminations were found on the wall sections.

Ground Penetrating Radar Survey

Elevens scans were collected throughout the structure. Reinforcement spacing was found to be typically twelve inches on centers both ways with clear concrete cover ranging from 1.5 inches to 8 inches. A summary scan report for each test location is reported in the appendix.

Corrosion Potential Survey

Measurements were made with a copper/copper sulfate electrode (CSE). Surveys were performed in two general areas:

1. Crest of Ogee
2. Joint between panels 4 & 5

Ogee

Thirty-six readings were taken on the crest near delaminated concrete. Potentials ranged from -0.080V CSE to -0.226V CSE. Ninety-five percent of the test locations had potentials more positive than -0.200V CSE which indicates that there is a 90% probability that no reinforcing steel corrosion is occurring at the time of measurement.

Slab Panel at Joint between 4 and 5

Twenty-six readings were taken on both sides of the joint near delaminated concrete. Potentials ranged from -0.010V CSE to -0.120V CSE. One hundred percent of the test locations had potentials more positive than -0.200V CSE which indicates that there is a 90% probability that no reinforcing steel corrosion is occurring at the time of measurement.

Impulse Response Survey

Forty-four scans were performed on the slab section on panels 1, 2, 6 and 7. Waveforms were collected and analyzed for potential loss of subgrade. No tests showed any signs of loss of subgrade. A sample scan is shown in photo #15.

Summary of Results

Inspection results are summarized as follows:

1. The delaminations on the Ogee are most likely the result of poor bonding between successive lifts during initial construction.
 2. Delaminations on the slab panels is most likely associated with the inability of the joints to accommodate movement causing localized fracturing at the joints.
 3. Corrosion activity in the fractured zones was negligible during the inspection.
-



VOSS LABORATORIES, INC.

SECTION J1C, PAGE NO. 5

MR. John Friedenbach
SEPTEMBER 19, 2017
PAGE 5

4. No loss of subgrade was found during the inspection.
5. No signs of soil erosion were observed on the back side of either the uphill/downhill walls.

If you have any questions, please call.

Very truly yours,

VOSS LABORATORIES, INC.

Thomas A. Voss
Civil Engineer



MR. John Friedenbach
SEPTEMBER 19, 2017
PAGE 6



Photo #1 – General view of Ogee crest. Slight scaling of 1/8 inch on surface of concrete.



Photo #2 – Exposed reinforcement on Ogee crest.



MR. John Friedenbach
SEPTEMBER 19, 2017
PAGE 7



Photo #3 – Typical concrete surface of slab panel.



Photo #4 – Section of delaminated concrete removed to expose reinforcing steel at intersection of panels 4 and 5.

MR. John Friedenbach
SEPTEMBER 19, 2017
PAGE 8



Photo #5 – Close-up of corroded reinforcing steel at intersection of panels 4 & 5.



Photo #6 – Concrete cracking pattern in panel #2.



MR. John Friedenbach
SEPTEMBER 19, 2017
PAGE 9



Photo #7 – Typical concrete crack width of 0.040 inches on panel #2.



Photo #8 – Repair on downhill wall at joint between panels 4 and 5.



MR. John Friedenbach
SEPTEMBER 19, 2017
PAGE 10



Photo #9 – Delaminated area on Ogee on downstream face near middle.



Photo #10 – Delaminated area on Ogee on downstream face near downhill wall.

MR. John Friedenbach
SEPTEMBER 19, 2017
PAGE 11



Photo #11 – Delaminated area on Ogee on crest face near middle.



Photo #12 – Delaminated area on panel #3 near panel #2.



MR. John Friedenbach
SEPTEMBER 19, 2017
PAGE 12



Photo #13 – Delamination in panel #4. Concrete cover was measured to be 2.5 inches.



Photo #14 – Delamination in panel #5. Delamination was approximately 50 square feet.

MR. John Friedenbach
SEPTEMBER 19, 2017
PAGE 13

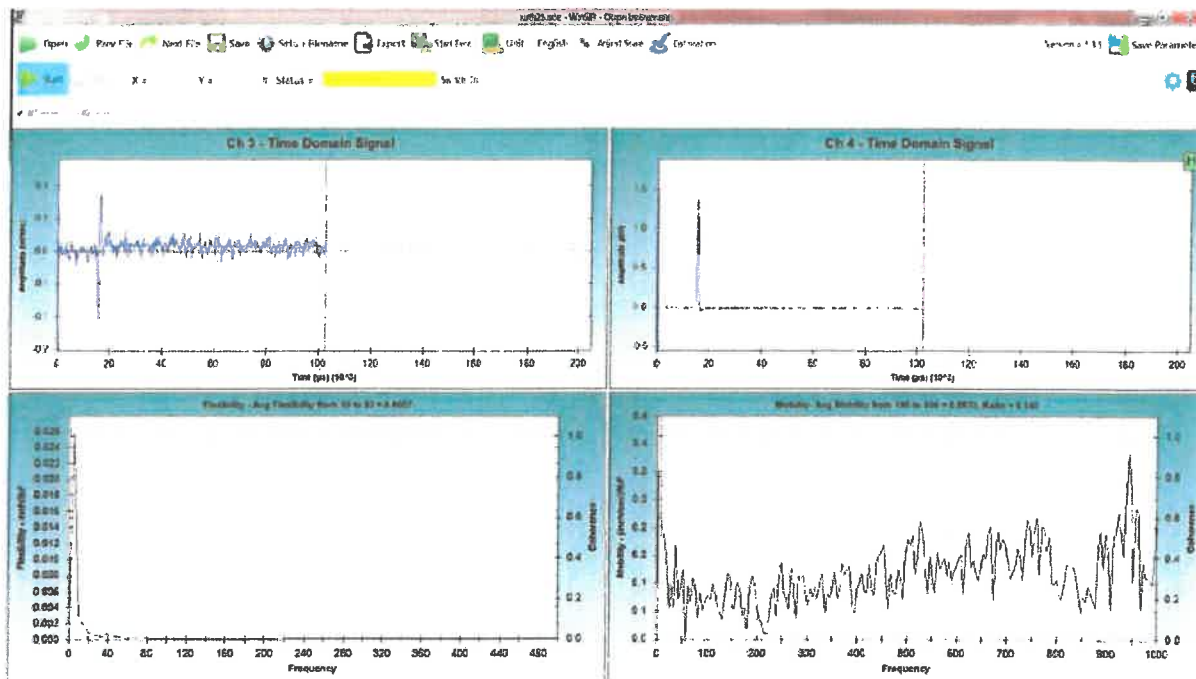


Photo #15 – Screen shot of Slab Impulse Response (SIR) analysis.



MR. John Friedenbach
SEPTEMBER 19, 2017
PAGE 14

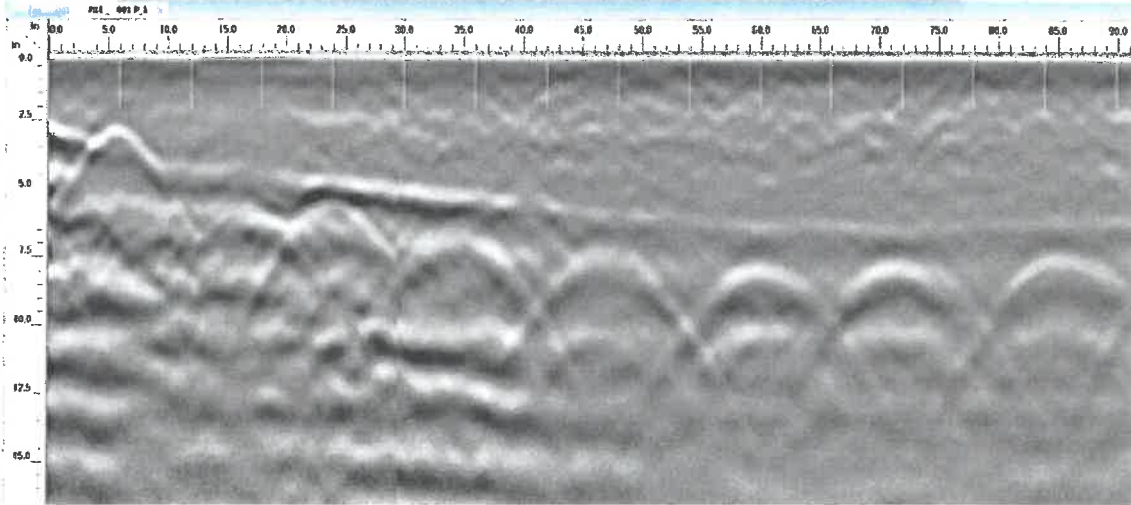
Appendix

GPR Summary Scan Report

GPR Reinforcing Steel Scan Report

Client Humboldt Bay MWD **VL Project #** 17034
Date 9/6/2017 **Scan #** 1

Location Scan was on panel 7 near delaminated concrete. Scan located longitudinal steel.



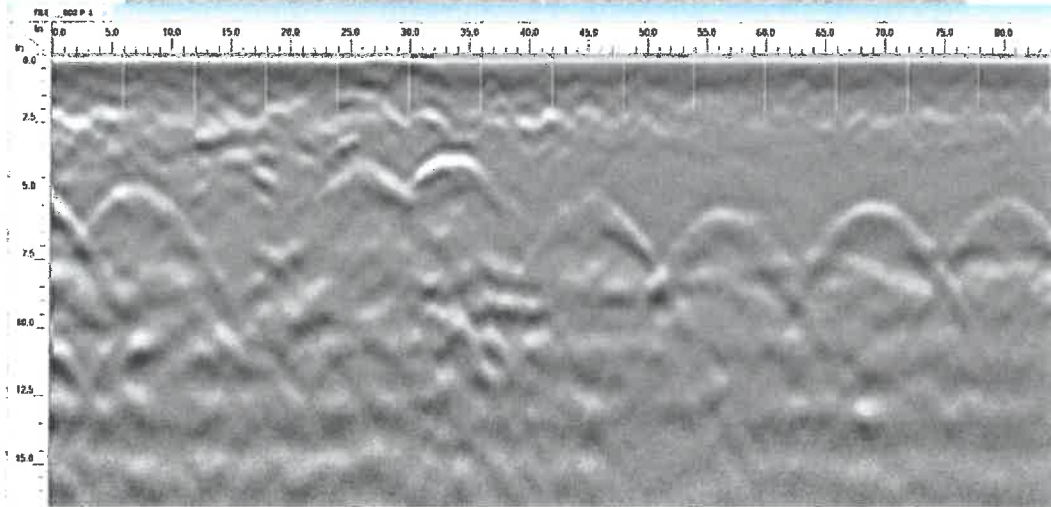
Summary:

The scan was performed on panel 7 from left to right in the picture. The scan detected reinforcing steel at approximately 12 inches on center. Clear concrete cover ranged from 2.5 inches to 8 inches.

Client Humboldt Bay MWD **VL Project #** 17034

Date 9/6/2017 **Scan #** 2

Location Scan was on panel 7 near delaminated concrete. Scan detected transverse steel.



Summary:

The scan was performed on panel 7 from bottom to top in the picture. The scan detected reinforcing steel at approximately 12 inches on center. Clear concrete cover ranged from 5 inches to 7 inches.

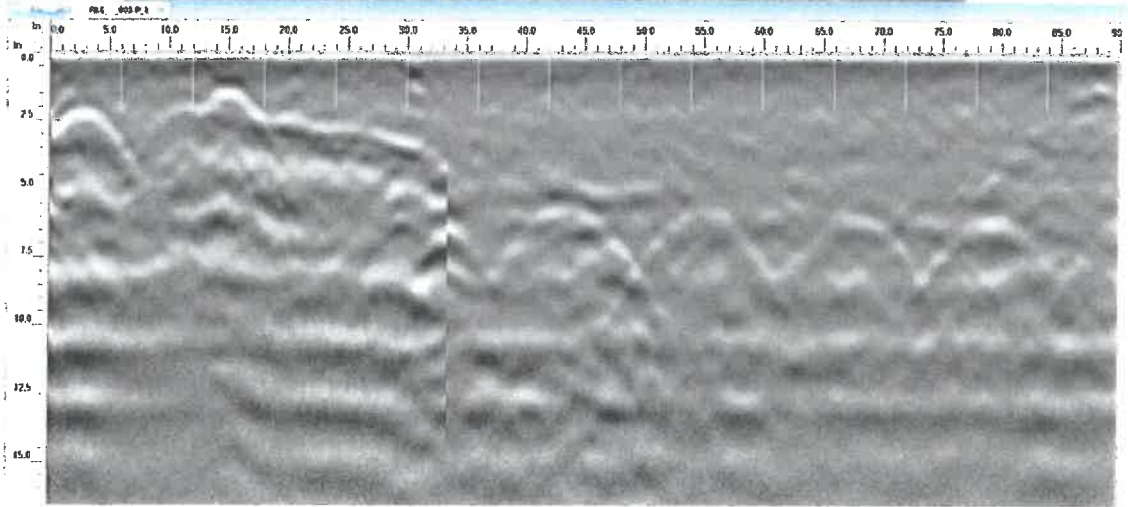


GPR Reinforcing Steel Scan Report

SECTION JIC, PAGE NO. 17

Client Humboldt Bay MWD **VL Project #** 17034
Date 9/6/2017 **Scan #** 3

Location Scan was on panel 7/ogee near delaminated concrete. Scan located transverse steel.



Summary:

The scan was performed on panel 7/ogee from bottom to top in the picture. The scan detected reinforcing steel at approximately 12 inches on center. Clear concrete cover ranged from 1.5 inches to 6.5 inches.



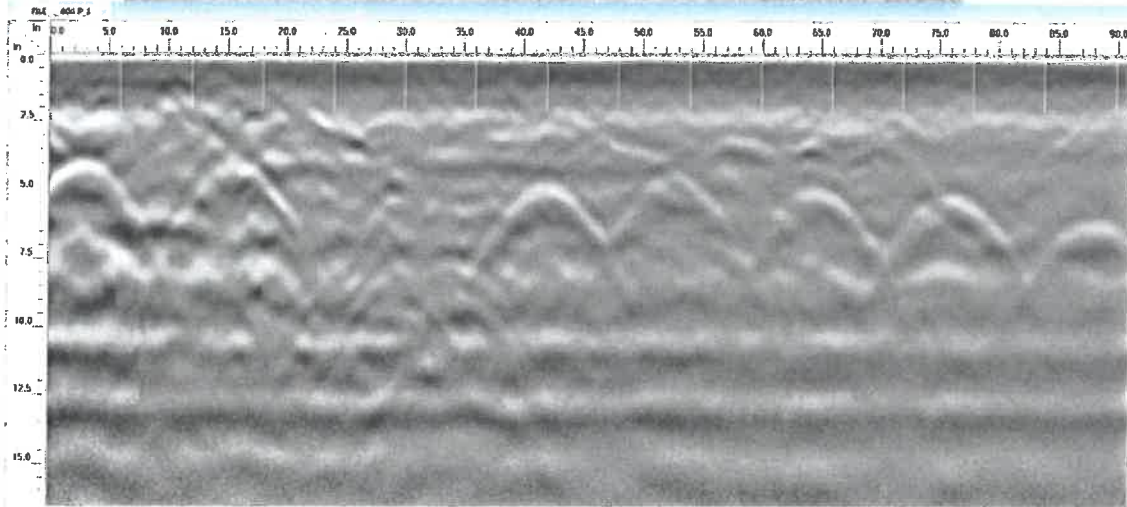
GPR Reinforcing Steel Scan Report

SECTION J1C, PAGE NO. 18

Client Humboldt Bay MWD **VL Project #** 17034

Date 9/6/2017 **Scan #** 4

Location Scan was on panel 7 near delaminated concrete. Scan located transverse steel.



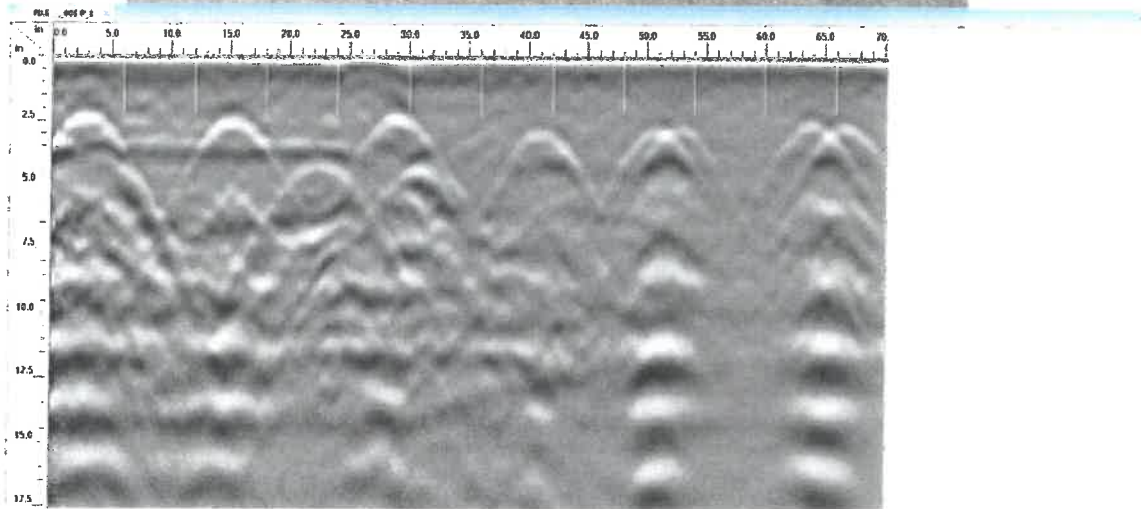
Summary:

The scan was performed on panel 7 and ogee from bottom to top in the picture. The scan detected reinforcing steel at approximately 12 inches on center. Clear concrete cover ranged from 4.0 inches to 5.5 inches.

Client Humboldt Bay MWD **VL Project #** 17034

Date 9/6/2017 **Scan #** 5

Location Scan was on panel 3/4 near delaminated concrete. Scan located transverse steel.

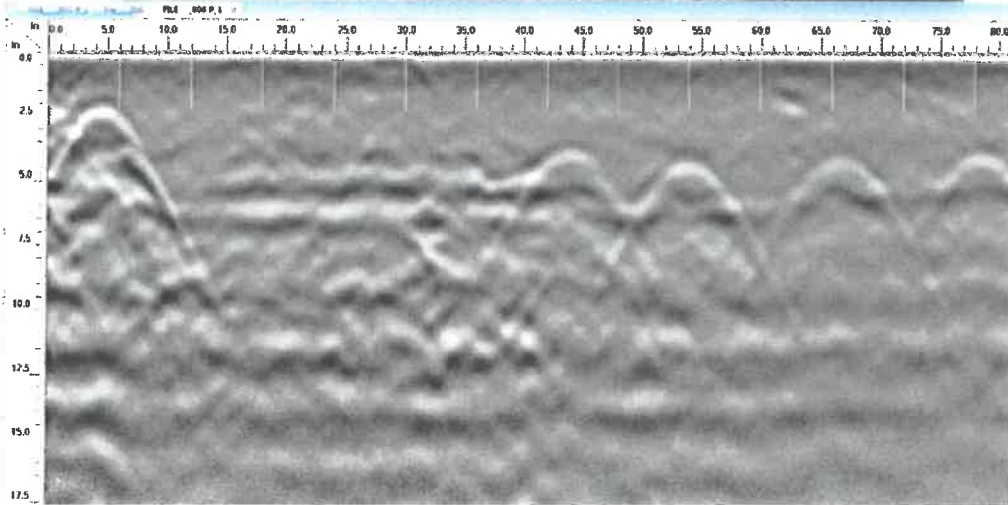


Summary:

The scan was performed on panel 3/4 from bottom to top in the picture. The scan detected reinforcing steel at approximately 12 inches on center. Clear concrete cover ranged from 2.5 inches to 3.0 inches.

Client Humboldt Bay MWD **VL Project #** 17034
Date 9/6/2017 **Scan #** 6

Location Scan was on panel 2/3 near delaminated concrete. Scan located transverse steel.



Summary:

The scan was performed on panel 2/3 from bottom to top in the picture. The scan detected reinforcing steel at approximately 12 inches on center. Clear concrete cover ranged from 2.0 inches to 4.5 inches.



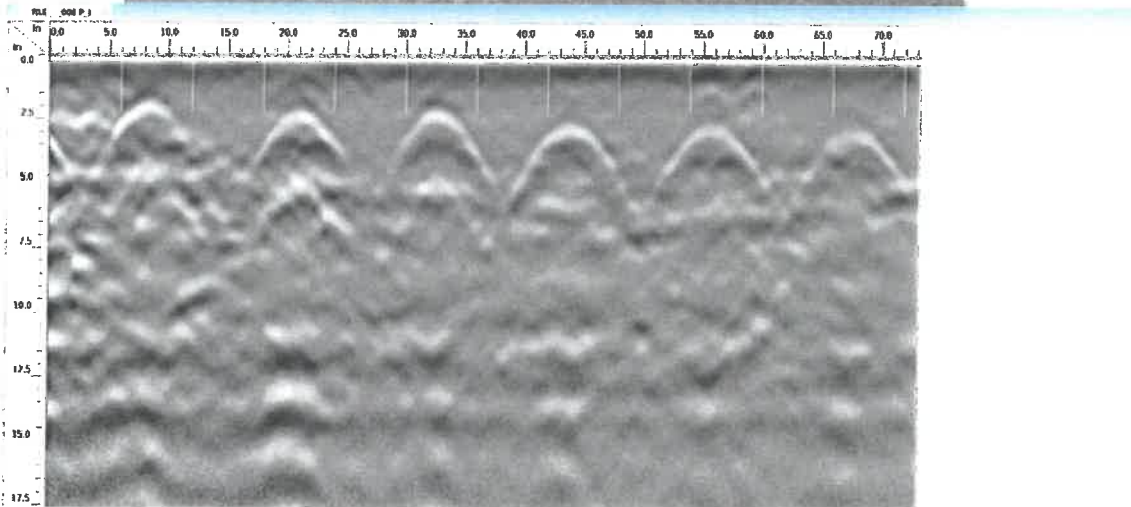
GPR Reinforcing Steel Scan Report

SECTION JIC PAGE NO. 21

Client Humboldt Bay MWD **VL Project #** 17034

Date 9/6/2017 **Scan #** 8

Location Scan was on panel 3 in the middle of the panel. Scan located longitudinal steel.



Summary:

The scan was performed on panel 3 from right to left in the picture. The scan detected reinforcing steel at approximately 12 inches on center. Clear concrete cover ranged from 2.0 inches to 3.0 inches.



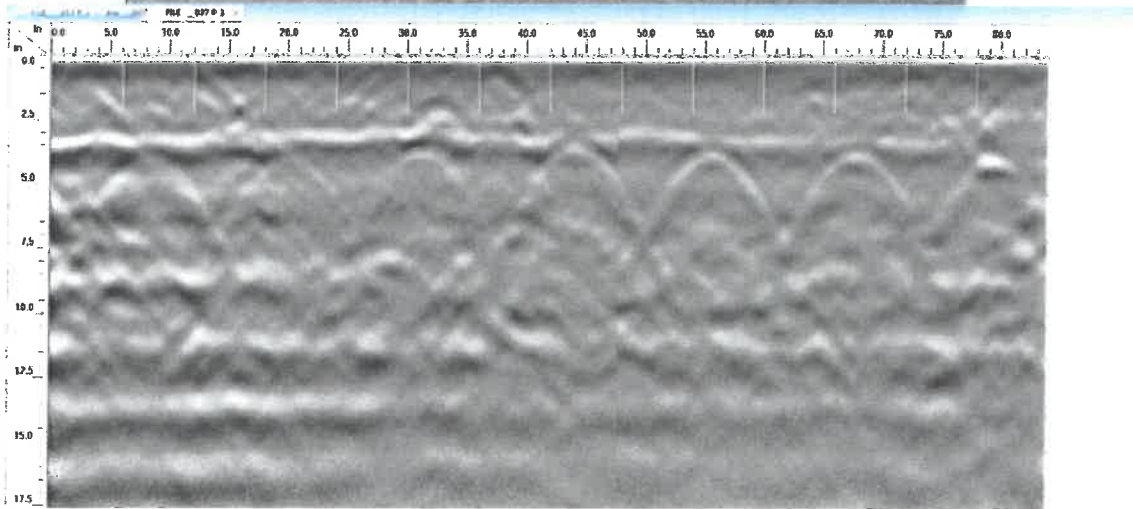
GPR Reinforcing Steel Scan Report

SECTION JIC, PAGE NO. 22

Client Humboldt Bay MWD **VL Project #** 17034

Date 9/6/2017 **Scan #** 9

Location Scan was on panel 3 in the middle of the panel. Scan located transverse steel.



Summary:

The scan was performed on panel 3 from bottom to top in the picture. The scan detected reinforcing steel at approximately 12 inches on center. Clear concrete cover ranged from 3.0 inches to 4.0 inches.

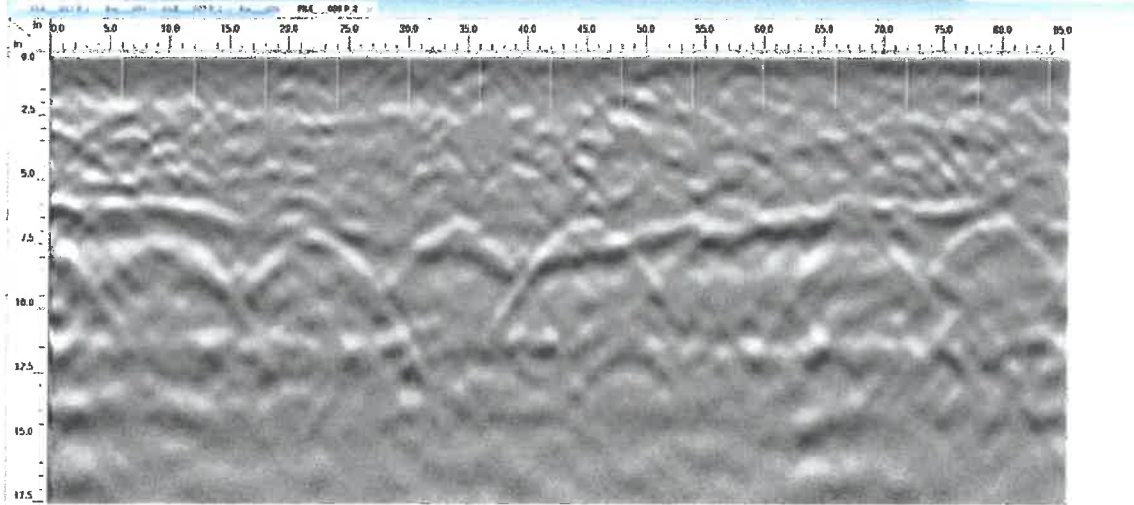


GPR Reinforcing Steel Scan Report

SECTION J1C, PAGE NO. 23

Client Humboldt Bay MWD **VL Project #** 17034
Date 9/6/2017 **Scan #** 10

Location Scan was on panel 2 in the middle of the panel. Scan located longitudinal steel.



Summary:

The scan was performed on panel 2 from right to left in the picture. The scan detected reinforcing steel at approximately 12 inches on center. Clear concrete cover ranged from 6.0inches to 7.0 inches.



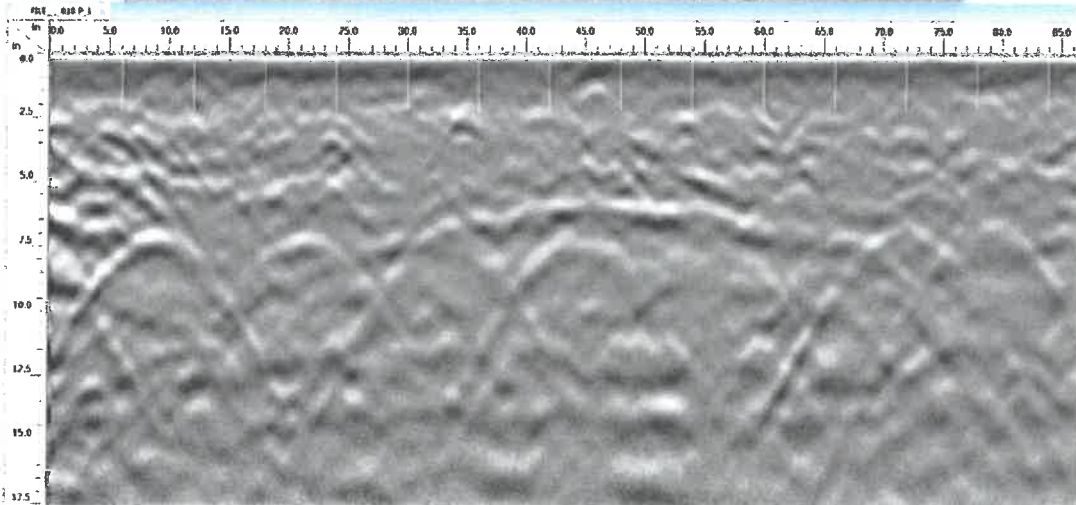
GPR Reinforcing Steel Scan Report

SECTION JTC, PAGE NO. 24

Client Humboldt Bay MWD **VL Project #** 17034

Date 9/6/2017 **Scan #** 11

Location Scan was on panel 2 in the middle of the panel. Scan located transverse steel.



Summary:

The scan was performed on panel 2 from bottom to top in the picture. The scan detected reinforcing steel at approximately 12 inches on center. Clear concrete cover ranged from 6.5 inches to 7.5 inches.



**Monthly Progress Payment Application
Invoice No. 002**

Contract: Humboldt Bay

Contractor: Paso Robles Tank - Brown Minneapolis Tank, Inc.

Subcontractor:

Period:	8/16/2017	to	9/15/2017	Contract No.:		
				Previous Total	This Month	Total To Date
Total Earnings for Work and Materials Installed.....				\$ 171,000	\$ 118,350	\$ 289,350
Less: 5 % Retainage				\$ 8,550	\$ 5,917	\$ 14,467
Net Earnings.....				\$ 162,450	\$ 112,432	\$ 274,882
Less: Previous Payments.....						\$ 162,450
Net Payment this Invoice.....						\$ 112,432
% Time Elapsed - As of :			94%	% Work Completed Based on Cost: 63%		
Contract Completion Data				Contract Budget Data		
Notice to Proceed Date.....			5/8/2017	Original Contract Amount..... \$460,837.50		
Original Contract Completion Time...			92	Change Order Amount..... \$ 3,965		
Approved Time Extensions.....			46	Total Contract Amount..... \$464,802.50		
Contract Completion Date.....			9/22/2017			
Certification of Contractor						
According to the best of my knowledge and belief, I certify that all items and amounts shown in this progress payment application are correct. All work has been performed and/or materials supplied in full accordance with the requirements of the referenced contract and/or additions, that the foregoing is a true statement of the contract amount up to and including the last day of the period covered in the progress payment application, that no part of the "balance" due this payment has been received.						
Contractor <u>Desiree Brumley</u> <small>DDE: c:\Desiree Brumley, on Paso Robles Tank, Inc., 04</small> Date				Owners Rep <u>Patrick Kaspari</u> Date <u>09/21/2017</u>		
<small>Date: 2017.09.21 08:59:22 -0700</small>						

Humboldt Bay MWD 1MG Reservoir Roof Replacement

APPLICATION NUMBER: 002
 APPLICATION DATE: 9-15-2017
 PERIOD TO: 9-15-2017
 PRT-BMT PROJECT # 41040

A	B	C	D	E	F	G	H	I	J	K
ITEM NO.	DESCRIPTION OF WORK	QTY	UNIT PRICE	UNIT	SCHEDULED VALUE	WORK COMPLETED FROM PREVIOUS APPLICATION	WORK COMPLETED THIS PERIOD	MATERIALS PRESENTLY STORED (NOT IN G OR H)	TOTAL COMPLETED & STORED TO DATE (G+H+I)	% COMP (J/F)
1.0	Bid Item No. 1 - Mobilization									
4-1	Mobilization	4	\$40,000	LS	\$40,000	\$40,000	\$0	\$0	\$40,000	100%
1.2	Demobilization	1	\$5,000	LS	\$5,000	\$0	\$0	\$0	\$0	0%
	Total Bid Item No. 1				\$45,000	\$40,000	\$0	\$0	\$40,000	89%
2.0	Bid Item No. 2 - Demolition & Disposal of Existing Roof									
2-1	Demo Existing Roof	4	\$50,000	LS	\$50,000	\$50,000	\$0	\$0	\$50,000	100%
2-2	Deposal	4	\$11,000	LS	\$11,000	\$11,000	\$0	\$0	\$11,000	100%
	Total Bid Item No. 2				\$61,000	\$61,000	\$0	\$0	\$61,000	100%
3.0	Bid Item No. 3 - Provide, Install and Paint New Roof									
3-1	Steel Material	4	\$40,000	LS	\$40,000	\$40,000	\$0	\$0	\$40,000	100%
3-2	Shop Fabrication/Coating	4	\$30,000	LS	\$30,000	\$30,000	\$0	\$0	\$30,000	100%
3-3	Field Install New Roof	1	\$82,147.50	LS	\$82,147.50	\$0	\$82,147.50	\$0	\$82,148	100%
3-4	Field Coatings New Roof	1	\$34,475	LS	\$34,475	\$0	\$17,237	\$0	\$17,237	50%
	Total Bid Item No. 3				\$186,622.50	\$70,000	\$99,384.50	\$0	\$169,384.50	91%
4.0	Bid Item No. 4 - Tank Coatings									
4-1	Interior Coatings - Surface Prep Roof & Shell	1	\$30,000	LS	\$30,000	\$0	\$15,000	\$0	\$15,000	50%
4-2	Interior Coatings - Coat Roof & Shell	1	\$25,000	LS	\$25,000	\$0	\$0	\$0	\$0	0%
4-3	Interior Coatings - Surface Prep Tank Floor	1	\$25,000	LS	\$25,000	\$0	\$0	\$0	\$0	0%
4-4	Interior Coatings - Coat Tank Floor	1	\$20,000	LS	\$20,000	\$0	\$0	\$0	\$0	0%
4-5	Exterior Coatings - Spot Prep	1	\$5,000	LS	\$5,000	\$0	\$0	\$0	\$0	0%
4-6	Exterior Coatings - Coat Roof & Shell	1	\$5,165	LS	\$5,165	\$0	\$0	\$0	\$0	0%
	Total Bid Item No. 4				\$110,165	\$0	\$15,000	\$0	\$15,000	14%

Humboldt Bay MWD 1MG Reservoir Roof Replacement

APPLICATION NUMBER: 002
 APPLICATION DATE: 9-15-2017
 PERIOD TO: 9-15-2017
 PRT-BMT PROJECT # 41040

A	B	C	D	E	F	G	H	I	J	K
ITEM NO.	DESCRIPTION OF WORK	QTY	UNIT PRICE	UNIT	SCHEDULED VALUE	WORK COMPLETED FROM PREVIOUS APPLICATION	WORK COMPLETED THIS PERIOD	MATERIALS PRESENTLY STORED (NOT IN G OR H)	TOTAL COMPLETED & STORED TO DATE (G+H+I)	% COMP (J/F)
5.0	Bid Item No. 5 - Washdown / Disinfect Tank									
5.1	Disinfection and Testing	1	\$5,500	LS	\$5,500	\$0	\$0	\$0	\$0	0%
	Total Bid Item No. 5				\$5,500	\$0	\$0	\$0	\$0	0%
6.0	Bid Item No. 6 - Remove & Replace Misc. Electrical Boxes									
6.1	Misc. Electrical	1	\$52,550	LS	\$52,550	\$0	\$0	\$0	\$0	0%
	Total Bid Item No. 7				\$52,550	\$0	\$0	\$0	\$0	0%
CO # 1	Change Order # 1									
	Time Extension	1	\$0	LS	\$0	\$0	\$0	\$0	\$0	
	Total for CO #1				\$0	\$0	\$0	\$0	\$0	
CO # 2	Change Order # 2									
	Sample Line Changes	1	\$3,965	LS	\$3,965	\$0	\$3,965	\$0	\$3,965	100%
	Total for CO # 2				\$3,965	\$0	\$3,965	\$0	\$3,965	
CO # 3	Change Order # 3									
	Total for CO # 3				\$0	\$0	\$0	\$0	\$0	
	Totals				\$460,837.50	\$171,000	\$118,350	\$0	\$289,350	63%

FINANCIAL

To: Board of Directors
From: Chris Harris
Date: October 12, 2017
Re: The Mystery of the Statement of Fund Balances - Explained

Background

Any entity conducting “business” of any kind has financial statements. Most people are unaware that depending on the *type* of entity, there are actually different types of financial statements. Traditional for-profit businesses follow standards set by the Financial Accounting Standards Board (FASB), while government entities follow standards set by the Governmental Accounting Standards Board (GASB). Differences between the two standard financial statements can be seen below:

Typical For-Profit Business

Balance Sheet (assets, liabilities, equity)
Profit & Loss Statement (income, expenses)

Typical Government Entity

Statement of Fund Balances (bank/investment accounts and fund/reserve balances)
Statement of Activities (receipts and expenses)

The financial statements are *not* the same and do not provide the same information. The differences in financial statements are based on the fundamental differences between a for-profit business and a government entity. A for-profit business is focused on wealth creation and business sustainability, so their financial statements need to show how well they are (or are not) performing. Government entities are tasked with providing/enhancing/maintaining specific services to the public, thus those financial statements need to show how they have allocated and are spending public funds.

A very simplified example of this is depreciation. While government entities track depreciation, it is not considered a part of their financial statements. Depreciation expense does not impact a government entity’s ability to provide services to the public. On the other hand, for-profit business typically uses depreciation expense as a key element to reduce tax liabilities on their Profit & Loss Statement and as a reduction of their assets on the Balance Sheet.

This memo is intended to help the reader understand the importance of the Statement of Fund Balances. This simplified explanation will not go into comprehensive detail, but will explain what can appear to be a jumble of always changing numbers and turn it into understanding and knowledge of where the money lives and how it will be utilized.

Where the Dollars Live

The top portion of the District’s Statement of Fund Balances lists the various bank and investment accounts where the District deposits money. The listing of accounts and their related balances shows where our dollars “live.” The total of all accounts is listed as **Total Cash**.

At the beginning of each fiscal year, the Board of Directors approves a budget comprised of revenue and expenditures. For HBMWD, a vast amount of our bank deposits come from the wholesale sales of water to Municipalities. These dollars are to be aligned with and spent according to the approved budget. To keep track of where these dollars are going, we assign them to a "fund."

Where the Dollars are Going

The middle and lower section of the Statement of Fund Balances shows where the dollars are going. These are "fund accounts" or "reserve accounts." There are several different types of funds/reserves.

Restricted Reserves (or Funds) are limited to being used for a particular purpose, created by a legal obligation. Some of our funds are restricted based on contracts that we have with each Municipality. Examples of Restricted Reserves are dollars owed back to Municipalities (Price Factor 2 credits) as well as dollars collected from the Municipalities for specific construction projects (Advance Charges). The total of all restricted funds is listed as **Subtotal Restricted Reserves**.

Unrestricted Reserves (or Funds) do not have the same legal or contractual limitations placed on them as restricted funds, but they can be designated by the Board of Directors as being intended for specific purposes. These are considered "Board Restricted Reserves."

At HBMWD, the *General Fund Reserve* is currently the largest of these unrestricted funds. The General Fund Reserve is governed by the District's Reserve Policy (Amended 04.21.09), with a set maximum of \$4 Million, which is allocated between three specific components:

General Fund Reserve

Working Capital – up to \$1 Million

Operations Reserves/Rate Stabilization – up to \$2 Million

Capital Improvement/Replacement – up to \$1 Million

For example, as the District pays for the budgeted daily operational expenses, using the General Fund Reserve is how those expenses are paid.

The total of all unrestricted funds is listed as **Subtotal Unrestricted Reserves**. The grand total of all the reserve/fund activity is called the **Total Net Position**.

What to look at

On the District's Statement, you will see the **Total Cash** and the **Total Net Position** equal each other.

As dollars are spent, a bank account balance decreases. As these dollars are spent on funded projects, the related Restricted Fund or Board Designated Fund balance will also decrease by the corresponding amount. For dollars that are spent on unrestricted expenses, the General Fund Reserve will decrease. When dollars are deposited at the bank, the bank account increases and either a restricted fund balance or the General Fund Reserve must increase by the corresponding amount.

Now when reviewing the Statement of Fund Balances the numbers will be un-jumbled and you can see very quickly how much cash the District currently has access to, and exactly where that cash is intended to be spent.

You can see where every dollar lives and where every dollar is going!

Attachment

Sample Statement of Fund Balances

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
Statement of Fund Balances at September 30, 2017

Account Fund Balance at Month End

AT 9-30-17

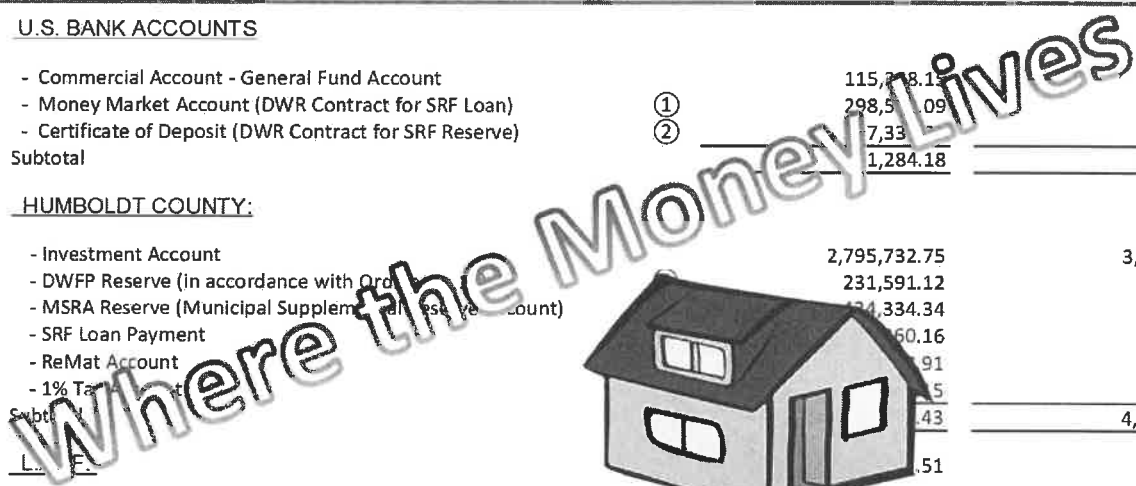
AT 9-30-16

U.S. BANK ACCOUNTS

- Commercial Account - General Fund Account	115,738.11	10,794.49
- Money Market Account (DWR Contract for SRF Loan)	① 298,510.09	297,062.90
- Certificate of Deposit (DWR Contract for SRF Reserve)	② 7,330.00	547,612.16
Subtotal	1,284.18	855,469.55

HUMBOLDT COUNTY:

- Investment Account	2,795,732.75	3,172,837.93
- DWFP Reserve (in accordance with Ord. 1000)	231,591.12	467,104.13
- MSRA Reserve (Municipal Supplemental Reserve Account)	424,334.34	418,322.64
- SRF Loan Payment	48,233.67	48,233.67
- ReMat Account	60.16	0.00
- 1% Tax Account	91.00	216.42
Subtotal	4.43	4,106,714.79
Land	51.00	1,602.56
Cash on Hand	650.00	650.00
TOTAL CASH	\$ 4,505,169.12	\$ 4,964,436.90



Less: Encumbrances & Reserves (Funds Dedicated for Specific Purposes and Projects)

RESTRICTED

Municipal Customers PF2 Prior Year Reconciliation	(325,866.75)	(458,735.93)
1% Tax Account	③ (1,013.15)	(216.42)
Municipal Customer Adv. Chrg. - Ranney Collector 1 & 1A Rehabilitation	0.00	(1,393,896.40)
Municipal Customer Adv. Chrg. - Collector 1 Pump Motors	0.00	0.00
Municipal Customer Adv. Chrg. - 1MG Domestic Reservoir Roof	11,613.00	(11,613.00)
Municipal Customer Adv. Chrg. - Replace Ruth Bunkhouse	(403,500.00)	(195,000.00)
Municipal Customer Adv. Chrg - SCADA System Upgrade	(159,664.21)	0.00
Municipal Customer Adv. Chrg. - Blue Lake/FGCSD Water Treatment Plant	(155,631.18)	0.00
Municipal Customer Adv. Chrg. - Surge Tank Replacement	0.00	0.00
DWR Reserve Fund	(547,336.94)	(547,612.16)
DWR Contract Payment for SRF Loan for DWFP (Drinking Water Filtration Plant - Charges from Munis)	① (298,559.09)	(297,062.90)
SUBTOTAL RESTRICTED RESERVES (Net Position)		(2,904,136.81)

UNRESTRICTED:

Board Restricted:

Paik-Nicely Development	(4,158.00)	(4,158.00)
Sequoia Investments X, LLC (Hog Island Project)	0.00	1,104.75
DWFP Reserve *	④ (231,591.12)	(467,104.13)
MSRA Reserve (Municipal Supplemental Reserve Account)	⑤ (424,334.34)	(418,322.64)
PG&E REMAT Deposit	(27,000.00)	0.00
PG&E REMAT Reserve (County Fund)	⑦ (39,988.91)	

Unrestricted Reserves

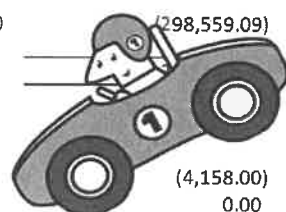
SRF Loan Payment	⑥ (48,960.16)	(48,233.67)
Municipal Customer Accumulation for Debt Service for US Bank		
Ranney & Techite Project Loan Payment	51,570.92	51,581.43
General Fund Reserve	(1,559,407.95)	(1,175,167.83)

SUBTOTAL UNRESTRICTED RESERVES (Net Position)

(2,283,869.56) (2,060,300.09)

Total Net Position

(4,505,169.12) (4,964,436.90)



**HUMBOLDT BAY MUNICIPAL WATER DISTRICT
Statement of Fund Balances at September 30, 2017**

Account Fund Balance at Month End	AT 9-30-17	AT 9-30-16
<u>U.S. BANK ACCOUNTS</u>		
- Commercial Account - General Fund Account	115,388.15	10,794.49
- Money Market Account (DWR Contract for SRF Loan) ①	298,559.09	297,062.90
- Certificate of Deposit (DWR Contract for SRF Reserve) ②	547,336.94	547,612.16
Subtotal	961,284.18	855,469.55
<u>HUMBOLDT COUNTY:</u>		
- Investment Account	2,795,732.75	3,172,837.93
- DWFP Reserve (in accordance with Ordinance 16) ④	231,591.12	467,104.13
- MSRA Reserve (Municipal Supplemental Reserve Account) ⑤	424,334.34	418,322.64
- SRF Loan Payment ⑥	48,960.16	48,233.67
- ReMat Account ⑦	39,988.91	0.00
- 1% Tax Account ③	1,013.15	216.42
Subtotal	3,541,620.43	4,106,714.79
<u>L.A.I.F.</u>	1,614.51	1,602.56
Cash on Hand	650.00	650.00
TOTAL CASH	\$ 4,505,169.12	\$ 4,964,436.90
Less: Encumbrances & Reserves (Funds Dedicated for Specific Purposes and Projects)		
<u>RESTRICTED</u>		
Municipal Customers PF2 Prior Year Reconciliation	(325,866.75)	(458,735.93)
1% Tax Account ③	(1,013.15)	(216.42)
Municipal Customer Adv. Chrg. - Ranney Collector 1 & 1A Rehabilitation	0.00	(1,393,896.40)
Municipal Customer Adv. Chrg. - Collector 1 Pump Motors	0.00	0.00
Municipal Customer Adv. Chrg. - 1MG Domestic Reservoir Roof	(329,728.24)	(11,613.00)
Municipal Customer Adv. Chrg. - Replace Ruth Bunkhouse	(403,500.00)	(195,000.00)
Municipal Customer Adv. Chrg. - SCADA System Upgrade	(159,664.21)	0.00
Municipal Customer Adv. Chrg. - Blue Lake/FGCSD River Crossing	(155,631.18)	0.00
Municipal Customer Adv. Chrg. - Surge Tower Replacement	0.00	0.00
DWR Reserve Fund for SRF Loan ②	(547,336.94)	(547,612.16)
DWR Contract Payment for SRF Loan for DWFP (Drinking Water Filtration Plant-PF1 Charges from Munis) ①	(298,559.09)	(297,062.90)
SUBTOTAL RESTRICTED RESERVES (Net Position)	(2,221,299.56)	(2,904,136.81)
<u>UNRESTRICTED:</u>		
<u>Board Restricted:</u>		
Paik-Nicely Development	(4,158.00)	(4,158.00)
Sequoia Investments X, LLC (Hog Island Project)	0.00	1,104.75
DWFP Reserve * ④	(231,591.12)	(467,104.13)
MSRA Reserve (Municipal Supplemental Reserve Account) ⑤	(424,334.34)	(418,322.64)
PG&E REMAT Deposit	(27,000.00)	0.00
PG&E REMAT Reserve (County Fund) ⑦	(39,988.91)	0.00
<u>Unrestricted Reserves</u>		
SRF Loan Payment ⑥	(48,960.16)	(48,233.67)
Municipal Customer Accumulation for Debt Service for US Bank	51,570.92	51,581.43
General Fund Reserve	(1,559,407.95)	(1,175,167.83)
SUBTOTAL UNRESTRICTED RESERVES (Net Position)	(2,283,869.56)	(2,060,300.09)
Total Net Position	(4,505,169.12)	(4,964,436.90)

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
 AT SEPTEMBER 30, 2017 (3 MONTH - 25%)

	SEPTEMBER RECEIPTS	YTD TOTAL AT 9-30-17	BUDGET	% OF BUDGET	YTD TOTAL AT 9-30-16
MISCELLANEOUS RECEIPTS (RETURNED TO CUSTOMERS VIA PF2)					
RETAIL WATER SALES	\$ 28,885.95	\$ 71,235.43	\$312,151	23%	\$ 107,350.69
SUBTOTAL RETAIL WATER SALES	\$ 28,885.95	\$ 71,235.43	\$312,151	23%	\$ 107,350.69
GENERAL REVENUES					
INTEREST (1)	8,172.35	8,176.06	\$12,000	68%	7,324.61
FCSD CONTRACT FOR MAINT. & OPERATIONS	0.00	54,137.14	175,000	31%	53,064.05
POWER SALES NET REMAT	4,592.07	18,893.02	197,000	10%	19,954.58
MISCELLANEOUS (SEE NEXT PAGE)					
SUBTOTAL GENERAL REVENUES	\$3,573.86	\$13,499.76	50,000	27%	\$ 11,720.25
	\$ 16,338.28	\$ 94,705.98	\$434,000	22%	\$ 92,063.49
TAX RECEIPTS					
1% TAXES (1)	1,013.15	43,488.68	775,000	6%	216.42
TOTAL PF 2 CREDIT	\$ 46,237.38	\$ 209,430.09	\$1,521,151	14%	\$ 199,630.60
WHOLESALE CONTRACT RECEIPTS					
INDUSTRIAL / HARBOR DISTRICT	\$0.00	\$0.00	\$10	0%	\$642.77
TOTAL INDUSTRIAL	\$0.00	\$0.00	\$10	0%	\$642.77
CITY OF ARCATA	\$ 91,137.27	\$ 277,451.59	\$1,162,728	24%	\$ 281,342.83
CITY OF EUREKA	435,500.47	662,358.55	2,758,065	24%	679,677.99
HUMBOLDT CSD	71,556.81	219,239.62	923,496	24%	227,503.17
MANILA CSD	4,740.47	16,805.61	74,513	23%	18,357.54
MCKINLEYVILLE CSD	73,728.47	222,730.39	935,846	24%	229,242.40
FIELDBROOK CSD	12,287.02	36,792.97	151,117	24%	37,346.06
BLUE LAKE	12,967.54	39,260.66	164,116	24%	39,902.79
TOTAL MUNIS	\$ 701,918.05	\$ 1,474,639.39	\$6,169,881	24%	\$ 1,513,372.78
REMAT REVENUE less Consultant fee	9,077.63	32,322.77	300,000	11%	0
TOTAL RECEIPTS	\$ 757,233.06	\$ 1,716,392.25	\$7,691,042	22%	\$ 1,713,646.15

(1) Humboldt County Accounts Investment Account \$8,172.35 & 1% Taxes Account \$1,013.15 Interest for April - June 2017

MISCELLANEOUS RECEIPTS

	SEPTEMBER	YEAR TO DATE
Administrative		
<i>Parking Lot Rent</i>	\$50.00	\$100.00
<i>Employee Telephone</i>	2.10	25.06
<i>Employee Gas</i>	167.67	244.79
<i>Retirees' Reimbursement of Health Insurance Premium</i>	2,427.78	6,325.14
<i>COBRA Vision Ins & Admin Fee - Retiree</i>	18.93	37.86
<i>COBRA Dental Ins & Admin Fee - Retiree</i>	108.24	216.48
<i>Water Processing Fees</i>	60.00	180.00
<i>Hydrant Rental Deposit</i>	0.00	0.00
<i>Meter Installations</i>	0.00	0.00
<i>Retail Connection Charge</i>	0.00	0.00
<i>Mainline Connection Charge</i>	0.00	0.00
<i>Right of Way Fees</i>	0.00	0.00
<i>Special Event Liability Insurance</i>	514.75	514.75
<i>ACWA/JPIA Retrospective Premium Adjustment</i>	0.00	0.00
<i>ACWA/JPIA Insurance Claim</i>	0.00	0.00
<i>Dividend Check (Principal Life)</i>	0.00	245.64
<i>Bad Debt Recovery</i>	0.00	0.00
<i>Miscellaneous Payments for Copies &/or Postage Costs</i>	27.00	57.65
<i>Diesel Fuel Tax Refund</i>	0.00	0.00
<i>Park Use Fees</i>	0.00	25.00
<i>Sale of Surplus Equipment</i>	0.00	4,950.00
<i>Reimbursement for District Coffee Mugs</i>	97.39	97.39
<i>Reimbursement for personal charge on District credit card</i>	70.00	70.00
Ruth Area		
<i>Use of Ruth Cabin</i>	30.00	210.00
<i>RLCSD-Water System Permit Fees</i>	0.00	0.00
<i>Ruth Area Water Use Permit</i>	0.00	100.00
<i>Buffer Strip Right of Way License Fee</i>	0.00	0.00
<i>Ruth Buffer Strip PG&E Right of Way Fees</i>	0.00	100.00
<i>Ruth Sale of Merchantable Timber</i>	0.00	0.00
<i>Ruth Sale of Surplus Gravel</i>	0.00	0.00
<i>Don Bridge Lease</i>	0.00	0.00
Miscellaneous		
<i>Other</i>	0.00	0.00
Total Miscellaneous Receipts	\$3,573.86	\$13,499.76
OTHER RECEIPTS or GRANTS		
<i>Prop 84 - Ranney Collector 1</i>	0.00	0.00
<i>CalEMA Blue Lake/Fieldbrook Pipeline Crossing</i>	0.00	0.00
<i>Quagga Grant 2015/16 on behalf of RLCSD*</i>	0.00	915.00

* Not included in PF2 Credits. No charges were expended by HBMWD.
Claim for expenditures was submitted by HBMWD on behalf of RLCSD.

-4-
HUMBOLDT BAY MUNICIPAL WATER DISTRICT SECTION J2b, PAGE NO. 4
TOTAL EXPENDITURES
AT SEPTEMBER 30, 2017 (3 MONTHS - 25%)

	SEPTEMBER EXPENSES	YTD TOTAL 9/30/2017	BUDGET	% OF BUDGET	TOTAL 9/30/2016
PAYROLL: See next page for detail					
Total Compensation	\$184,136.27	\$553,938.56	\$2,273,365	24%	\$517,699.94
Taxes/Benefits	121,588.40	350,181.05	1,468,911	24%	437,158.09
TOTAL PAYROLL	\$305,724.67	\$904,119.61	\$ 3,742,276	24%	\$954,858.03
SERVICE & SUPPLY					
O & M					
Engineering	\$0.00	\$9,508.25	\$75,000	13%	\$10,179.75
Maint., Repairs, Supplies	9,372.30	24,073.25	115,000	21%	23,710.19
TRF Maint, Repairs, Supplies	1,120.99	1,848.05	62,000	3%	1,116.40
Lab	620.00	1,290.00	13,000	10%	1,475.00
Auto Maintenance	2,354.02	6,704.40	46,000	15%	7,863.48
Radio Maintenance	512.65	1,537.95	10,500	15%	1,522.89
USGS Meter Station	0.00	0.00	7,800	0%	0.00
Ruth Lake License	0.00	1,500.00	1,500	100%	1,500.00
A&G					
Accounting Services	0.00	0.00	\$25,000	0%	0.00
Legal	0.00	139.50	28,000	0%	1,006.00
Professional Services	2,168.10	2,618.10	20,000	13%	1,291.88
Insurance	60,046.00	60,046.00	105,000	57%	55,980.50
Telephone/Internet	4,607.15	14,329.88	51,000	28%	12,014.42
Office Building Maintenance	2,097.46	6,148.74	18,500	33%	3,777.42
Office Expense	3,099.63	10,658.80	54,000	20%	17,930.47
Travel & Conference	1,561.11	1,597.36	22,000	7%	1,284.01
Dues & Subscriptions	0.00	959.78	11,300	8%	564.40
CSDA Dues	0.00	5,188.00	5,200	100%	0.00
Technical Training	0.00	510.00	14,500	4%	976.40
General Manager Training	0.00	917.08	5,000	18%	0.00
Safety Apparel	0.00	0.00	3,000	0%	0.00
County Tax Fee	0.00	0.00	21,000	0%	0.00
County Property Taxes	53.60	53.60	1,100	5%	53.60
LAFCO	0.00	0.00	7,000	0%	0.00
Regulatory Agency Fees	700.00	6,332.80	76,000	8%	4,194.29
Ruth Lake Programs	0.00	0.00	5,000	0%	0.00
Miscellaneous	1,746.39	2,372.04	11,500	21%	2,647.60
TOTAL SERVICE/SUPPLIES W/OUT POWER	\$90,059.40	\$160,045.01	\$814,900	20%	\$149,088.70
POWER					
Essex Pacific Gas & Electric	\$34,434.24	\$145,790.06			\$170,068.32
Fuel For 2 MW Generator	0.00	0.00			0.00
Subtotal Essex Pumping	\$34,434.24	\$145,790.06	\$595,803	24%	\$170,068.32
All Other Pacific Gas & Electric	6,258.40	15,558.98	71,662		17,620.01
POWER EXPENSE SUBTOTAL	\$40,692.64	\$161,349.04	\$667,465	24%	\$187,688.33
TOTAL SERVICE/SUPPLIES WITH POWER	\$130,752.04	\$321,394.05	\$1,482,365.00	22%	\$336,777.03
PROJECTS, FIXED ASSETS & CONSULTING SERVICES					
	\$697,104.50	\$975,702.54	\$7,563,490.00	13%	\$641,089.27
TOTAL OPERATING	\$1,133,581.21	\$2,201,216.20	\$12,788,131.00	17%	\$1,932,724.33
DEBT SERVICE - SRF LOAN (1)					
	\$0.00	\$0.00	\$547,337.00	0%	\$0.00
TOTAL EXPENDITURES	\$1,133,581.21	\$2,201,216.20	\$13,335,468.00	17%	\$1,932,724.33
DEBT SERVICE - US Bank					
	\$0.00	\$81,094.05	\$162,200.00	50%	\$81,094.05

Humboldt Bay Municipal Water District

Salary & Employee Benefit Expenditures

September 2017

Ordinary Income/Expense	Sep 17	Budget	% of Budget	Jul - Sep 17	YTD Budget	% of Budget	Annual Bud...
Expense							
SALARIES & EMPLOYEE BENEFITS							
00 · PAYROLL EXPENSE							
11 · Salaries & Wages							
01 · Wages-Regular	166,613.11	165,993.50	100.4%	485,549.07	497,980.50	97.5%	1,991,922.00
02 · Wages-Part-time	2,874.45	4,238.88	67.8%	13,090.50	14,538.88	90.0%	53,600.00
03 · Wages-Overtime	3,159.67	2,966.70	106.5%	7,896.75	7,800.00	101.2%	24,000.00
04 · Wages-Standby	6,887.26	7,500.00	91.8%	20,344.93	22,500.00	90.4%	90,000.00
05 · Wages-Holiday	1,222.80	1,000.00	122.3%	2,077.52	2,000.00	103.9%	11,000.00
07 · Shift Differential	796.48	1,000.00	79.6%	2,355.76	3,000.00	78.5%	12,000.00
08 · Director Compensation	2,320.00	2,170.83	106.9%	6,000.00	6,512.53	92.1%	26,050.00
09 · Secretarial Fees	262.50	262.50	100.0%	787.50	787.50	100.0%	3,150.00
Total 11 · Salaries & Wages	184,136.27	185,132.41	99.5%	538,102.03	555,119.41	96.9%	2,211,722.00
220 · Employer P/R Tax Expense	14,425.75	14,913.59	96.7%	42,127.25	44,464.69	94.7%	177,137.00
Total 00 · PAYROLL EXPENSE	198,562.02	200,046.00	99.3%	580,229.28	599,584.10	96.8%	2,388,859.00
158 · EMPLOYEE BENEFITS							
E.B. - Medical & Life							
162 · Employee Medical & Li...	55,191.35	56,231.33	98.2%	155,750.66	168,694.03	92.3%	674,776.00
173 · HSA	8.85	416.67	2.1%	161.71	1,249.97	12.9%	5,000.00
162a · Retiree Medical	6,580.45	5,825.67	113.0%	20,445.21	17,476.97	117.0%	69,908.00
Total E.B. - Medical & Life	61,780.65	62,473.67	98.9%	176,357.58	187,420.97	94.1%	749,684.00
E. B. - Dental	2,661.32	3,370.50	79.0%	7,941.77	10,111.50	78.5%	40,446.00
E. B. - Vision	593.17	631.00	94.0%	1,743.51	1,893.00	92.1%	7,572.00
E. B. - Retirement Benefits							
164 · 457b District Contribu...	2,600.00	2,550.00	102.0%	7,550.00	7,650.00	98.7%	30,600.00
164a · PERS Expenses	36,759.22	36,345.83	101.1%	87,337.29	109,037.53	80.1%	436,150.00
Total E. B. - Retirement Benefits	39,359.22	38,895.83	101.2%	94,887.29	116,687.53	81.3%	466,750.00

Humboldt Bay Municipal Water District

Salary & Employee Benefit Expenditures

September 2017

	Sep 17	Budget	% of Budget	Jul - Sep 17	YTD Budget	% of Budget	Annual Bud...
E. B. - Other Benefits							
159 · Workers' Comp. Ins.	0.00	0.00	0.0%	10,911.92	17,643.00	61.8%	70,572.00
168 · Long-Term Disability I...	2,690.38	1,442.92	186.5%	4,028.33	4,328.72	93.1%	17,315.00
172 · Employee EAP	77.55	89.83	86.3%	220.89	269.53	82.0%	1,078.00
Total E. B. - Other Benefits	2,767.93	1,532.75	180.6%	15,161.14	22,241.25	68.2%	88,965.00
Total 158 · EMPLOYEE BENEFITS	107,162.29	106,903.75	100.2%	296,091.29	338,354.25	87.5%	1,353,417.00
Total SALARIES & EMPLOYEE BEN...	305,724.31	306,949.75	99.6%	876,320.57	937,938.35	93.4%	3,742,276.00
Total Expense	305,724.31	306,949.75	99.6%	876,320.57	937,938.35	93.4%	3,742,276.00
Net Ordinary Income	-305,724.31	-306,949.75	99.6%	-876,320.57	-937,938.35	93.4%	-3,742,276.00

Humboldt Bay Municipal Water District
 Overtime Pay
 September 2017

	52		54		55		56		58		TOTAL	
	Hours	Sep 17	Hours	Sep 17	Hours	Sep 17	Hours	Sep 17	Hours	Sep 17	Hours	Sep 17
Employee Wages, Taxes and Adjustm...												
Gross Pay	8.75	559.65		0.00		0.00		0.00		0.00	8.75	559.65
Double Time	35.5	1,706.79	5.5	243.23	1	49.56	2.75	131.05	8.75	469.39	53.50	2,600.02
Overtime	44.25	2,266.44	5.5	243.23	1	49.56	2.75	131.05	8.75	469.39	62.25	3,159.67
Total Gross Pay	44.25	2,266.44	5.5	243.23	1	49.56	2.75	131.05	8.75	469.39	62.25	3,159.67
Adjusted Gross Pay	44.25	2,266.44	5.5	243.23	1	49.56	2.75	131.05	8.75	469.39	62.25	3,159.67
Net Pay												
Employer Taxes and Contributions		0.00		0.00		0.00		0.00		0.00		0.00

51 - Ruth
 52 - Pumping & Control
 53 - Water Treatment
 54 - Maintenance & Operations
 55 - Customer Service
 56 - Administration
 58 - Ruth Hydro

I. FIXED ASSETS		SEPTEMBER	YTD TOTAL	% OF
A. Projects Charged to All Customers via Price Factor 2 (BWF)		EXPENSES	9/30/2017	BUDGET
Essex- Replace Two Administrative Computers		\$0.00	\$0.00	0%
Spare Bottles for SCBAs		0.00	0.00	0%
Wall Mounted EyeWash Station		0.00	0.00	0%
Fall Protection Equipment		0.00	0.00	0%
Electrical Safety Equipment		0.00	0.00	0%
Control System Computer Backup Devices		0.00	0.00	0%
Customer Service - Metal Detector		0.00	0.00	0%
Customer Service - Dewatering Equipment		0.00	0.00	0%
Replace Unit 7		0.00	0.00	0%
Replace Unit 9		0.00	0.00	0%
Replace District Portable Radios		4,352.03	4,352.03	92%
Parts Cleaner - NonToxic Environmental Safe		0.00	0.00	0%
Purchase Drone		0.00	0.00	0%
Chlorine System PLC		0.00	0.00	0%
AED Ruth Hydro		0.00	0.00	0%
Eureka - Replace Computer		0.00	0.00	0%
Replace Business Manager Desk		0.00	0.00	0%
Replace/Upgrade Eureka Computer Main Server		0.00	0.00	0%
Screens for Board of Directors		0.00	0.00	0%
SUBTOTAL A:		\$4,352.03	\$4,352.03	2%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)				
TRF Spare Parts Inventory		\$2,878.40	\$2,878.40	64%
Chemical Transfer Pump		0.00	0.00	0%
SUBTOTAL B:		\$2,878.40	\$2,878.40	48%
TOTAL FIXED ASSETS PROJECTS:		\$7,230.43	\$7,230.43	3%

II. MAINTENANCE PROJECTS		SEPTEMBER	YTD TOTAL	% OF
A. Charged to All Customers via Price Factor 2 (BWF)		EXPENSES	9/30/2017	BUDGET
Collector 2 Meter Calibration		\$0.00	\$0.00	0%
Pipeline Maintenance		0.00	0.00	0%
12KV Electric System Maintenance		0.00	0.00	0%
Mainline Meter Flow Calibration		0.00	0.00	0%
Replace HCSD Meter		0.00	0.00	0%
Technical Support & Software Updates to Include Control System		1,676.74	6,923.87	33%
Generator Service		0.00	0.00	0%
Hazard & Diseased Tree Removal		0.00	0.00	0%
Catholic Protection		0.00	0.00	0%
Maintenance Emergency Repair		553.16	4,801.92	10%
Fleet Paint Repairs		0.00	0.00	0%
Lead Free Brass Inventory		0.00	0.00	0%
Essex Fire Alarm System Upgrade		0.00	0.00	0%
Essex Office Single Pane Windows Replacement		0.00	0.00	0%
Samoa Booster Pump Station Expansion Joint Replacement		0.00	0.00	0%
Construction Equipment Tire Replacement		0.00	0.00	0%
Asphalt Repair		3,375.56	3,375.56	48%
Ruth Lake - Brush Abatement		0.00	0.00	0%
Licensed Timber Operator		0.00	3,102.45	62%
Picketts Peak Radio System Modifications		0.00	0.00	0%
Ruth Spillway Review & Improvement		191.98	3,322.79	7%
Ruth Hydro - Repair PRV Discharge Pipe		0.00	0.00	0%
SUBTOTAL A:		\$5,797.44	\$21,526.59	9%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)				
TRF - Generator Service		\$0.00	\$0.00	0%
TRF Limitorque Valve Retrofit Supplies - Phase 1		0.00	0.00	0%
TRF- Removal of Sodium Hydroxide and waste Aluminum Sulfate		0.00	0.00	0%
SUBTOTAL B:		\$0.00	\$0.00	0%
TOTAL MAINTENANCE PROJECTS:		\$5,797.44	\$21,526.59	8%

TOTAL MAINTENANCE PROJECTS:

III. PROFESSIONAL & CONSULTING SERVICES	SEPTEMBER		YTD TOTAL		% OF BUDGET
	EXPENSES	9/30/2017	BUDGET	BUDGET	
A. Charged to All Customers via Price Factor 2 (BWF)					
Collector 2 Underground Power & Fiber Optic Line	\$0.00	\$0.00	\$24,000		0%
Collector 1 Transformer & Electrical Evaluation	0.00	0.00	5,000		0%
Collector 1 Pump & Motor Upgrades	0.00	0.00	6,000		0%
Essex Control Building Expansion Plans & Specifications	0.00	0.00	44,000		0%
Crane Testing/Certification	0.00	0.00	7,500		0%
Control/SCADA Software Training	1,415.55	4,513.18	30,250		15%
Technical Training	367.62	2,265.62	7,500		30%
Backflow Tester Training	0.00	0.00	2,000		0%
HazMat Training	0.00	0.00	5,500		0%
Transformer Oil Testing	0.00	0.00	4,500		0%
GIS/Facilities Information System	0.00	0.00	12,000		0%
GIS/Facilities Information System - Ruth	0.00	0.00	4,750		0%
Essex Mad River Cross-Sectional Survey	0.00	0.00	10,000		0%
Essex Protective Relay Testing	0.00	0.00	12,000		0%
Mad River Watershed Regulatory Compliance	0.00	0.00	50,000		1%
Dune Monitoring Program - Component of Coastal Conservancy Climate Ready Grant	0.00	2,000.00	2,000		100%
Grant Applications	0.00	3,085.50	20,000		15%
Public Education	0.00	0.00	5,000		0%
Water Resources Planning	0.00	340.50	5,000		7%
Ruth Protective Relay Testing	0.00	0.00	12,000		0%
FERC Dam Safety Surveillance & Monitoring Report(DSSMR)/FERC Dam Safety Review (Part 12)	0.00	0.00	3,000		0%
FERC Chief Dam Safety Engineer	0.00	0.00	10,000		0%
FERC Matthews Dam Monument Survey	0.00	0.00	9,000		0%
FERC Matthews Dam Spillway Wall Survey	0.00	0.00	11,000		0%
FERC Matthews Dam Left Abutment Monitoring Survey	0.00	0.00	11,000		0%
Matthews Dam River Cross-Sectional Survey	0.00	0.00	5,000		0%
SUBTOTAL A:	\$1,783.17	\$12,704.80	\$ 318,000		4%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)					
Chlorine System Maintenance	\$0.00	\$0.00	\$16,100		0%
SUBTOTAL B:	\$0.00	\$0.00	\$ 16,100		0%
C. Projects Funded by Other Sources (BWF)					
Quagga Grant/RLCSD] CA Dept of Boating & Waterways	\$0.00	\$0.00	9,150		0%
Industrial System Single Line Mad River Slough Assessment] District Reserves	0.00	0.00	24,000		0%
Industrial & Domestic System Intertie] District Reserves	0.00	0.00	11,000		0%
SUBTOTAL C:	\$0.00	\$0.00	44,150		0%
TOTAL PROFESSIONAL & CONSULTING SERVICES	\$1,783.17	\$12,704.80	\$ 378,250		3%

IV. INDUSTRIAL SYSTEM PROJECTS		SEPTEMBER	YTD TOTAL	% OF	
A. Charged to All Customers via Price Factor 2 (BWF)		EXPENSES	9/30/2017	BUDGET	
- Maintain Water Supply to Industrial Pump Station (Pump Station 6) During Low-Flow Months		\$0.00	\$0.00	\$13,250	0%
SUBTOTAL A.		\$0.00	\$0.00	\$ 13,250	0%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)					
SUBTOTAL B.		\$0.00	\$0.00	0	0%
C. Projects Funded by Other Sources (BWF)					
Industrial Reservoir Painting, Specs, Bidding & Construction Management		\$0.00	\$0.00	\$64,000	0%
SUBTOTAL C.		\$0.00	\$0.00	64,000	0%
TOTAL INDUSTRIAL SYSTEM PROJECTS:		\$0.00	\$0.00	\$ 77,250.00	0%

CARRY-OVER PROJECTS FROM 2016/17		SEPTEMBER	YTD TOTAL	% OF	
I. CAPITAL PROJECTS		EXPENSES	9/30/2017	BUDGET	
A. Charged to All Customers via Price Factor 2 (BWF)					
Mainline Valve Replacement		\$0.00	\$0.00	\$100,000	0%
New Valve below 1 Mg Domestic Reservoir		0.00	0.00	30,000	0%
SUBTOTAL A:		\$0.00	\$0.00	130,000	0%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)					
SUBTOTAL B:		\$0.00	\$0.00	0	0%
C. Projects Funded by Other Sources (BWF)					
SCADA System Upgrade - Phase 2] Advanced Charges		\$240,433.79	\$241,225.79	\$301,000	80%
Replace Ruth Bunkhouse] Advanced Charges		0.00	0.00	403,500	0%
SUBTOTAL C:		\$240,433.79	\$241,225.79	704,500	34%
C. Projects Funded by Other Sources (DWTF)					
TRF SCADA System Upgrade - Phase 2] Advanced Charges		\$0.00	\$110.00	\$100,000	0%
SUBTOTAL C:		\$0.00	\$110.00	100,000	0%
TOTAL CAPITAL PROJECTS		\$240,433.79	\$241,335.79	934,500	26%

Carryover Projects continued				
I. FIXED ASSETS				
A. Projects Charged to All Customers via Price Factor 2 (BWF)				
Purchase Shop Manual & Diagnostic Equipment to service Heavy Fleet Vehicles	\$0.00	\$0.00	\$5,000	0%
SUBTOTAL A:	\$0.00	\$0.00	5,000	0%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)				
SUBTOTAL B:	\$0.00	\$0.00	0	0%
TOTAL FIXED ASSETS	\$0.00	\$0.00	5,000	0%
II. MAINTENANCE PROJECTS				
A. Charged to All Customers via Price Factor 2 (BWF)				
Repair/Upgrade Line Shed 6	\$16.54	\$3,170.82	\$15,000	21%
SUBTOTAL A:	\$16.54	\$3,170.82	15,000	21%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)				
SUBTOTAL B:	\$0.00	\$0.00	0	0%
TOTAL MAINTENANCE PROJECTS	\$16.54	\$3,170.82	15,000	21%
III. PROFESSIONAL & CONSULTING SERVICES				
A. Charged to All Customers via Price Factor 2 (BWF)				
CIP Financial Plan Update	\$1,902.31	\$3,379.81	\$7,500	45%
SUBTOTAL A:	\$1,902.31	\$3,379.81	7,500	45%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)				
SUBTOTAL B:	\$0.00	\$0.00	0	0%
TOTAL PROFESSIONAL & CONSULTING SERVICES	\$1,902.31	\$3,379.81	7,500	45%
IV. INDUSTRIAL SYSTEM PROJECTS				
A. Charged to All Customers via Price Factor 2 (BWF)				
- Maintain Water Supply to Industrial Pump Station (Pump Station 6) During Low-Flow Months	\$262.86	\$2,088.11	\$5,200	40%
SUBTOTAL A:	\$262.86	\$2,088.11	5,200	40%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)				
SUBTOTAL B:	\$0.00	\$0.00	0	0%
TOTAL INDUSTRIAL SYSTEM PROJECTS:	\$262.86	\$2,088.11	5,200	40%
2015/16 CARRYOVER PROJECTS TOTAL	\$242,615.50	\$249,974.53	967,200	26%
PROJECTS GRAND TOTAL:	\$697,104.50	\$975,702.54	\$7,563,490	13%
Less Projects Funded from Other Sources (Grants/Loans/Advanced Charges/Reserves)				
PF2 Project Total Charged to Customers excluding Debt Service (US Bank)	\$479,785.08	\$725,275.31	\$6,174,745	12%
PF2 Project Total Charged to Customers excluding Debt Service (US Bank)	\$217,319.42	\$250,427.23	\$1,388,745	18%

Calculation of PG&E ReMat & Muni Funds FY2017/18
August 1-31, 2017

PERIOD	KWH	\$/KWH	ReMat Payment Received	Muni PG&E Base Rate	Rebate To Muni's	JTN Energy	Henwood Assoc., Inc.	Balance To ReMat Fund (County)
DAY/PEAK	39,075.20	0.13197117	5,156.80	0.02943	4,592.07	\$ 436.89	\$ 436.89	\$ 9,077.63
SHOULDER/MID-DAY	45,418.90	0.0538949	2,447.85					
NIGHT	71,539.60	0.09699301	6,938.84					
	156,033.70		\$ 14,543.49		\$ 4,592.07	\$ 436.89	\$ 436.89	\$ 9,077.63

Professional Services related to ReMat Contract \$0.0056 Contract is split 50/50*

Current Blended Rate Per Kwh \$ 0.09

*Separate checks are issued to JTN Energy & Henwood Associates, Inc. AFTER payment for month is received from PG & E G/Accounting/ReMat Analysis/ReMat Revenue & Payment

Humboldt Bay Municipal Water District
Expenses by Vendor Detail

10/03/17

September 2017

Memo	Amount
101Netlink	
Ruth Data Link/Internet	-170.00
Total 101Netlink	-170.00
ACWA/JPIA	
Auto and General Liability Program 10/1/2017 - 2018	-42,726.93
Auto and General Liability Program 10/1/2017 - 2018	-2,307.57
Auto and General Liability Program 10/1/2017 - 2018	-15,011.50
Total ACWA/JPIA	-60,046.00
Advanced Security Systems	
TRF Security System Motion Detector/	-190.00
Essex Quarterly Alarm System Monitoring	-73.50
Total Advanced Security Systems	-263.50
AirGas NCN	
fall protection harness maintenance	-74.82
Total AirGas NCN	-74.82
Almquist Lumber	
repair and upgrade Line Shed 6	-16.54
Total Almquist Lumber	-16.54
Altec Industries, Inc	
chipper maintenance	-494.62
Total Altec Industries, Inc	-494.62
Asbury Environmental Services	
waste oil disposal	-75.00
waste fuel disposal	-310.76
contaminated soil disposal	-556.33
Total Asbury Environmental Services	-942.09
AT & T	
Ruth HQ	
TRF	
Essex office	
Eureka office	-126.42
Ruth Hydro	
Valve Building Samoa	
Ruth HQ	-21.29
TRF	-9.27
Essex office	-204.65
Eureka office	-6.41
Ruth Hydro	-421.14
Valve Building Samoa	-96.44
Total AT & T	-885.62
AT&T	
Eureka/Essex Landline	-34.95
Arcata/Essex Landline	-34.95
Samoa/Essex Landline	-234.36
Blue Lake Meter Signal	-60.34
Eureka Office Modem	-133.99
Eureka Office Alarm	-39.46
Samoa Booster Pump	-79.96
Valve Building	-133.99
Eureka Office	-326.47
Essex Office	-859.11
TRF	-130.80
Ruth Dataline	-129.80
Total AT&T	-2,198.18
AT&T Advertising Solutions	

Humboldt Bay Municipal Water District
Expenses by Vendor Detail

10/03/17

September 2017

Memo	Amount
white page listing	-21.00
Total AT&T Advertising Solutions	-21.00
ATS Communications	
Essex Control System Firewall Support Renewal	-1,676.74
Total ATS Communications	-1,676.74
Bartle Wells Associates	
Professional Services related to CIP	-1,902.31
Total Bartle Wells Associates	-1,902.31
Campton Electric Supply	
Park 1 BBQ area electrical repair	-149.73
Eureka office lighting maintenance	-161.99
TRF sump pump repair	-97.22
Hypochlorite tank repair	-240.99
Total Campton Electric Supply	-649.93
Chris Merz	
expense reimbursement High Voltage training in McClellan, California	-367.62
Total Chris Merz	-367.62
Citi Cards	
Eureka office supplies	-83.52
Total Citi Cards	-83.52
City of Eureka	
Eureka office water/sewer	-66.98
Total City of Eureka	-66.98
Coastal Business Systems Inc.	
Eureka office copy and fax machine	-879.00
Total Coastal Business Systems Inc.	-879.00
Design Air - Heating & Sheetmetal	
Replace Thermostat Control	-356.66
Total Design Air - Heating & Sheetmetal	-356.66
Desiree Tullos	
Ruth Lake Bathymetry study	-585.45
Total Desiree Tullos	-585.45
Durable Trailers, Inc	
Replace Collector 1, Pump 1.1	-808.13
Total Durable Trailers, Inc	-808.13
Eureka-Humboldt Fire Ext.,Co, Inc	
service/update Ruth HQ fire extinguishers	-171.42
service/update Ruth Hydro fire extinguishers	-98.75
Total Eureka-Humboldt Fire Ext.,Co, Inc	-270.17
Eureka Oxygen	
cylinder rental	-107.30
Total Eureka Oxygen	-107.30
FEDEX	
return ACWA/JPIA safety training tape	-7.94
ship SCBA eyeglass inserts	-13.10
Total FEDEX	-21.04
FleetPride	

Humboldt Bay Municipal Water District
Expenses by Vendor Detail

10/03/17

September 2017

Memo	Amount
sand blaster repair	-11.54
Total FleetPride	-11.54
Frontier Communications	
Ruth HQ	-50.80
Ruth Hydro/Ruth Dataline	-161.77
Total Frontier Communications	-212.57
GHD	
(87219) Surge Tower Replacement	-16,790.50
(87532) 1 MG Reservoir Roof Replacement	-7,858.75
Total GHD	-24,649.25
GR Sundberg, Inc	
permit charge to move excavator from Ruth to Essex	-553.16
Total GR Sundberg, Inc	-553.16
Hensel Hardware	
TRF maintenance	-95.32
maintenance supplies	-101.98
Total Hensel Hardware	-197.30
Hensell Materials	
sandblast sand	-342.07
Total Hensell Materials	-342.07
Henwood Associates, Inc	
Consultant Services Agreement	-424.89
Total Henwood Associates, Inc	-424.89
Humboldt County Clerk-Recorder	
CDFW Fee	-2,216.25
Humboldt County Clerk Fee	-50.00
Total Humboldt County Clerk-Recorder	-2,266.25
Humboldt County Tax Collector	
Property Taxes 2017-18	-53.60
Total Humboldt County Tax Collector	-53.60
Humboldt Fasteners	
maintenance supplies	-30.80
safety supplies	-28.85
purchase new grinder	-86.99
Total Humboldt Fasteners	-146.64
Humboldt Redwood Company, LLC	
Mt Pierce Lease site	-262.65
Total Humboldt Redwood Company, LLC	-262.65
Industrial Electric	
repair TRF hypochlorite tank/	-30.82
TRF maintenance	-35.28
TRF server cabinet repair	-156.76
Total Industrial Electric	-222.86
J. Bruce Rupp	
expense reimbursement for attending ACWA Region 1 meeting in Sacramento	-174.53
Total J. Bruce Rupp	-174.53
Jasson Klingonsmith	
expense reimbursement for customer service phone case and charger	-130.18

Humboldt Bay Municipal Water District
Expenses by Vendor Detail

10/03/17

September 2017

Memo	Amount
Total Jasson Klingonsmith	-130.18
JTN Energy, LLC Consultant Services Agreement	-424.89
Total JTN Energy, LLC	-424.89
Kernen Construction repair Essex asphalt	-1,644.35
Total Kernen Construction	-1,644.35
Lui Ahmad expense reimbursement for SCADA/Control Software Training in Stockton	-643.51
Total Lui Ahmad	-643.51
Mario Palmero expense reimbursement to attend Rockwell SCADA training in Stockton	-738.81
Total Mario Palmero	-738.81
McMaster-Carr Supply Replace Collector 1, Pump 1.4 repair sand blaster	-33.46 -192.09
Total McMaster-Carr Supply	-225.55
Mercer-Fraser Company Essex asphalt repair Essex asphalt repair	-774.04 -957.17
Total Mercer-Fraser Company	-1,731.21
Mission Linen maintenance supplies Uniform Rental	-175.50 -675.37
Total Mission Linen	-850.87
Munnell & Sherrill, Inc. Fairhaven blow-off fire hose adapter and cap air compressor maintenance	-53.77 -48.17
Total Munnell & Sherrill, Inc.	-101.94
Napa Auto Parts Collector Lube Oil maintenance vehicle maintenance shop supplies	-24.67 -21.68 -44.49
Total Napa Auto Parts	-90.84
Network Management Services Essential Care Computer Support Service for Eureka office Guard-IT Security Service for Eureka office Recover-IT Backup Solution Domain Management Umbrella Security Eureka office computer assistance	-342.00 -139.99 -124.99 -3.00 -30.00 -682.65
Total Network Management Services	-1,322.63
North Coast Cleaning Services, Inc Eureka office building maintenance	-545.00
Total North Coast Cleaning Services, Inc	-545.00
North Coast Laboratories lab tests	-620.00
Total North Coast Laboratories	-620.00
North Valley Labor Compliance	

Humboldt Bay Municipal Water District
Expenses by Vendor Detail

10/03/17

September 2017

Memo	Amount
Collectors 1 & 1A Lateral Replacement	-900.00
Total North Valley Labor Compliance	-900.00
Northern California Safety Consortium membership fee	-50.00
Total Northern California Safety Consortium	-50.00
O&M Industries	
Essex battery room door maintenance	-138.47
Total O&M Industries	-138.47
Occupational Health Services of Mad River Pre-Employment Physical	-460.00
Total Occupational Health Services of Mad River	-460.00
Pacific Gas & Electric Co.	
Eureka Office	-617.55
Jackson Ranch Rectifier	-19.83
299 Rectifier	-106.02
West End Rd. Rectifier	-129.80
TRF	-2,724.79
Ruth Valve Control	-27.29
Ruth Hydro	-25.99
Samoa Booster Pump Station	-2,510.92
Ruth Bunkhouse	-67.43
Essex Pumping 8/1/2017 to 8/31/2017	-34,434.24
Samoa Dial Station	-28.78
Total Pacific Gas & Electric Co.	-40,692.64
Pacific Paper Co.	
Eureka office supplies	-325.16
Total Pacific Paper Co.	-325.16
Pacific Water Resources	
Replace Collector 1 Pump 1-1 Motor	-161,394.81
Replace Collector 1 Pump 1-4 Motor	-137,828.61
Total Pacific Water Resources	-299,223.42
PasoRoblesTank-Brown-Minneapolis Tank,Inc	
1 MG D/W Reservoir Roof & Painting - Progress Payment 2	-112,432.00
Total PasoRoblesTank-Brown-Minneapolis Tank,Inc	-112,432.00
PERS	
GASB-68 Report & Schedules	-700.00
Total PERS	-700.00
Pitney Bowes	
refill postage meter	-500.00
postage meter lease	-209.54
Total Pitney Bowes	-709.54
Platt Electric Supply	
maintenance supplies	-501.85
Total Platt Electric Supply	-501.85
PPG Architectural Coatings	
Replace Collector 1, Pump 1.4	-141.05
Total PPG Architectural Coatings	-141.05
Recology Arcata	
Essex Garbage Service	-642.51

Humboldt Bay Municipal Water District
Expenses by Vendor Detail

September 2017

10/03/17

Memo	Amount
Total Recology Arcata	-642.51
Recology Humboldt County	
Eureka office garbage/recycling service	-88.55
Total Recology Humboldt County	-88.55
Renner Petroleum	
cardlock fuel - Pumping & Control	-406.12
cardlock fuel - Water Quality	-406.12
cardlock fuel - Maintenance	-406.11
cardlock fuel - Customer Service	-406.11
Ruth HQ shop heater	-554.02
Ruth HQ bulk fuel	-332.54
Ruth Hydro bulk fuel	-332.55
Total Renner Petroleum	-2,843.57
Rosemount Analytical, Inc	
purchase TRF spare parts inventory	-2,878.40
Total Rosemount Analytical, Inc	-2,878.40
Ruth Lake C.S.D.	
Quagga Grant expense reimbursement	-915.00
Boat rental for illegal water use inspection	-160.00
Total Ruth Lake C.S.D.	-1,075.00
Ryan Chairez	
expense reimbursement for Rockwell SCADA training in Stockton	-33.23
Total Ryan Chairez	-33.23
Scrapper's Edge	
Laminate FERC EAP Flow Charts	-11.39
Total Scrapper's Edge	-11.39
SHN Consulting Engineers & Geologists	
Aerial Photos for trench monitoring report	-262.86
Total SHN Consulting Engineers & Geologists	-262.86
Sierra Chemical Company	
replenish chlorine	-1,720.29
Total Sierra Chemical Company	-1,720.29
Sitestar Nationwide Internet	
Essex Internet	-52.90
Total Sitestar Nationwide Internet	-52.90
Six Rivers Communications	
replace portable radios	-4,352.03
Total Six Rivers Communications	-4,352.03
Staples	
Essex office supplies	-129.79
Total Staples	-129.79
Stewart Telecommunications	
setup voice mail box	-65.00
Total Stewart Telecommunications	-65.00
Sudden Link	
TRF Internet	-105.38
Eureka office internet	-204.95
Fieldbrook-Glendale CSD Internet	-271.02

Humboldt Bay Municipal Water District
Expenses by Vendor Detail

10/03/17

September 2017

Memo	Amount
Total Sudden Link	-581.35
Telstar Instruments, Inc	
SCADA Upgrade - Phase 2 - Progress Payment 4	-27,187.10
SCADA Upgrade - Phase 2 - Progress Payment 5	-213,246.69
Total Telstar Instruments, Inc	-240,433.79
The Mill Yard	
TRF filter lid inspection hatch maintenance	-21.66
Fieldbrook-Glendale CSD meter box maintenance	-95.48
shop supplies	-120.39
materials for oil containment	-293.07
Particle analysis sample apparatus maintenance	-27.73
Total The Mill Yard	-558.33
Thrifty Supply	
Collector 1 Pump 1-4 replacement	-154.07
Fieldbrook-Glendale CSD meter installation	-811.59
emergency fire hydrant repair	-62.66
replace plumbing fittings inventory	-384.07
TRF maintenance supplies	-252.94
Fieldbrook-Glendale CSD fire hydrant repair	-14.48
Total Thrifty Supply	-1,679.81
Trinity County General Services	
Pickett Peak site lease	-250.00
Total Trinity County General Services	-250.00
Trinity County Solid Waste	
Ruth HQ dump fees	-11.90
Ruth Hydro dump fees	-11.90
Total Trinity County Solid Waste	-23.80
U.S. Bank Corporate Payment System	
Conference call 1 MG D/W Reservoir Roof & Painting	-3.79
Travel for ACWA/JPIA Human Resources Meeting in Anderson	-204.60
General Manager business meeting	-28.93
General Manager travel to ACWA Fall Conf	-426.63
ACWA Fall Conference registration	-699.00
District business cards/mugs	-144.29
new employee jacket	-82.93
new employee jacket	-82.94
Essex safety signs	-365.06
Ruth Hydro safety signs	-34.21
ACWA/JPIA Insurance Inspection	-32.30
Ruth Dam Log Boom safety signs	-75.93
Essex office supplies	-89.02
Travel for ACWA/JPIA Human Resources Meeting in Anderson	-56.35
Eureka office printer connection	-43.39
maintenance shop tools	-170.08
Total U.S. Bank Corporate Payment System	-2,539.45
United Rentals, Inc	
rental of jackhammer for Spillway Repair	-191.98
Total United Rentals, Inc	-191.98
USTI, Inc	
Humboldt Bay eBilling Utility Billing System	-3.12
Fieldbrook-Glendale CSD eBilling Utility Billing System	-16.88
Total USTI, Inc	-20.00
Verizon Wireless	
Operations 1	-0.86
Superintendent	-116.81
Unit 3	-13.45

10/03/17

Humboldt Bay Municipal Water District
Expenses by Vendor Detail

SECTION J2b, PAGE NO. 24

September 2017

Memo	Amount
Electrician	-0.22
Operations 2	-1.04
Water Operations Supervisor - Unit 11	-33.70
Maintenance Supervisor	-39.23
Electrician	-2.00
Unit 6	-5.04
Unit 6	-5.05
Assistant Water Operations Supervisor	-53.59
Spare Operations	-0.22
General Manager	-40.14
<hr/>	
Total Verizon Wireless	-311.35
William B. Newell	
Unit 6 service	-21.39
Unit 6 service	-21.40
Ruth HQ maintenance	-14.74
Ruth Hydro maintenance	-40.59
Ruth HQ office supplies	-3.24
Ruth Hydro office supplies	-3.25
<hr/>	
Total William B. Newell	-104.61
<hr/>	
TOTAL	<u>-828,598.43</u>



COUNTY OF HUMBOLDT

JOHN BARTHOLOMEW
TREASURER-TAX COLLECTOR

825 FIFTH STREET ROOM 125
EUREKA, CALIFORNIA 95501

PHONE: 707-476-2450

FAX: 707-445-7608

TOLL FREE: 877-448-6829

EMAIL: taxinfo@co.humboldt.ca.us

Subject: Interest Apportionment Rate and Other Considerations

September 21, 2017

Honorable Board Members,

Your fund balances in the County Treasury from April through June 2017 (Fiscal 16/17 4th Quarter) earned an annualized interest rate of 1.29%. For comparison purposes, the LAIF (Local Agency Investment Fund) rate was 0.92%.

The Federal Open Market Committee met yesterday and decided again to not raise the federal funds rate. Their minutes indicate the labor market continued to strengthen and economic activity rose moderately so far this year. Areas of moderate growth cited include job gains, household spending and business investment. While the unemployment rate has stayed low so has overall inflation. Those facts, coupled with the Committee's accommodative policy led them to their decision to maintain current rates.

In October the Committee will initiate their balance sheet normalization program. Meaning they will stop reinvesting principal from matured securities from their portfolio back into agency debt. Economists generally do not believe they will sell any bonds, but instead just gradually reduce the size of their balance sheet from \$4.5 trillion to around \$2-\$2.5 trillion as securities mature. The market has been prepared for this normalization process to begin so it should not cause any significant reactions. One interesting piece of information is that the Fed is projecting seven rate hikes between now and the end of 2019 while many analysts interpret that the financial markets low volatility indicates that only 2 rate hikes have been priced into current support levels. Time will tell how the future unfolds.

As always our goals are Safety, Liquidity and Yield.

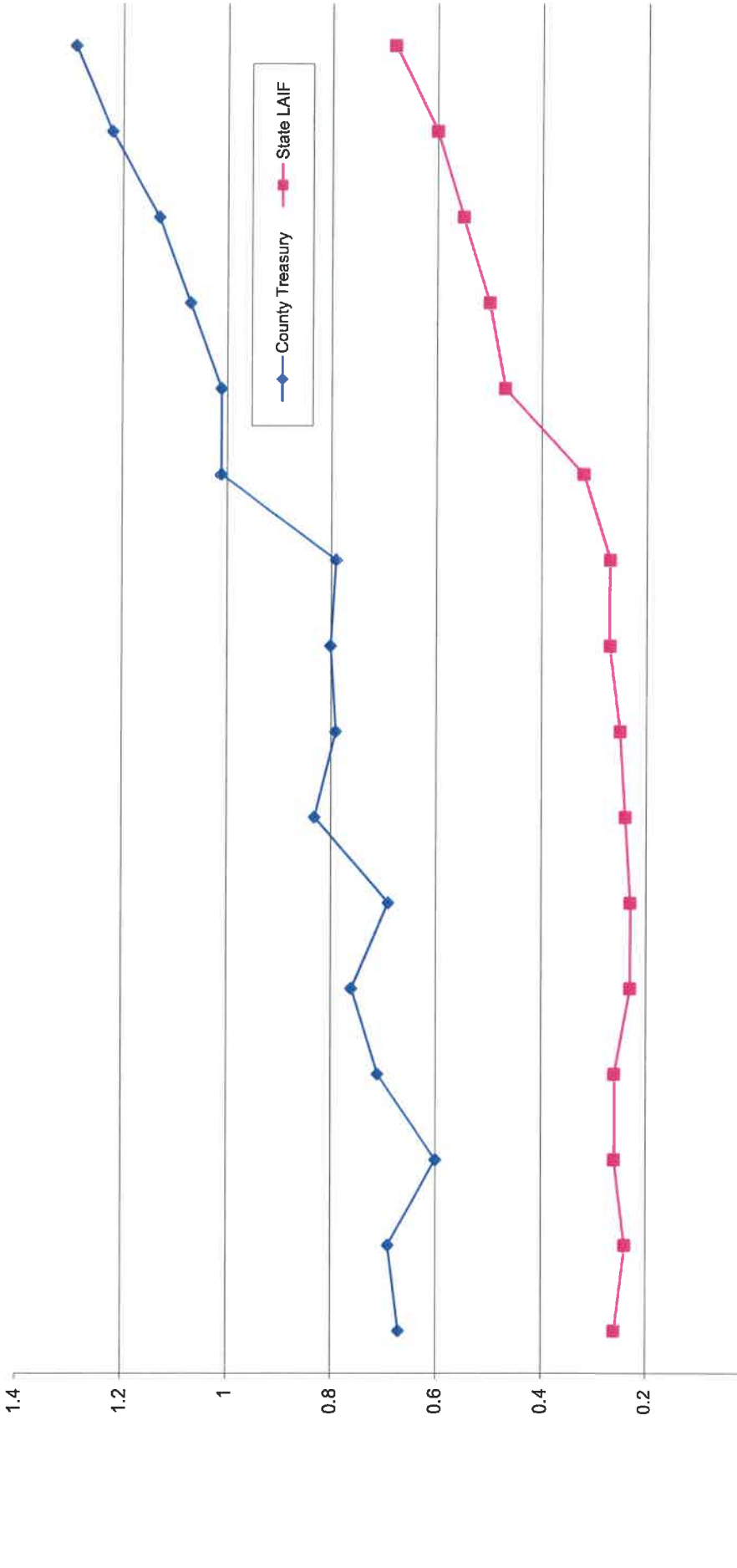
Let us know how we may be of service.

Sincerely,

Amy Christensen
Senior Treasury Assistant

Humboldt County Treasury Team:
John Bartholomew – Treasurer Tax Collector
Whitney Morgan – Treasury Assistant

Comparison of County Treasury and State LAIF Investment Earning Rates
July 2013 - June 2017



Month	County Treasury	State LAIF
Jul - Sept 2013	0.67	0.26
Oct - Dec 2013	0.69	0.24
Jan - Mar 2014	0.60	0.26
Apr - Jun 2014	0.71	0.26
July - Sept 2014	0.76	0.23
Oct - Dec 2014	0.69	0.23
Jan - Mar 2015	0.83	0.24
Apr - Jun 2015	0.79	0.25
July - Sept 2015	0.80	0.27
Oct - Dec 2015	0.79	0.27
Jan - Mar 2016	1.01	0.32
Apr - Jun 2016	1.01	0.47
Jul - Sep 2016	1.07	0.5
Oct - Dec 2016	1.13	0.55
Jan - Mar 2017	1.22	0.6
Apr - Jun 2017	1.29	0.68

FUND BALANCES
Allocation Account Activity
July 1, 2017 - July 1, 2017

Interest April - June 2017

Account	Fund	Security ID	Current Transaction Date	Receipt	Trans. Type	Contributions / Transfer In	Disbursements / Transfer Out / Fees	Allocated Earnings	Balance
2710	2710	SYS	07/01/2017		Alloc/Fee			1,013.15	42,475.53
<i>10% Taxes</i>									49,488.68
		Subtotal and Ending Balance				0.00	0.00	1,013.15	43,488.68
2711	2711	2711	07/01/2017		Alloc/Fee			1,358.06	422,976.28
<i>MSRA</i>									424,334.34
		Subtotal and Ending Balance				0.00	0.00	1,358.06	424,334.34
3873	3873	3873	07/01/2017		Alloc/Fee			8,172.35	2,545,334.00
<i>Investment Account</i>									2,553,506.35
		Subtotal and Ending Balance				0.00	0.00	8,172.35	2,553,506.35
3874	3874	3874	07/01/2017		Alloc/Fee			1,516.43	472,301.09
<i>DWFP</i>									473,817.52
		Subtotal and Ending Balance				0.00	0.00	1,516.43	473,817.52
3876	3876	3876	07/01/2017		Alloc/Fee			205.09	3,203.64
<i>SRF Payment</i>									3,408.73
		Subtotal and Ending Balance				0.00	0.00	205.09	3,408.73

OPERATIONS

Upper Mad River, Ruth Lake, and Hydro Plant

1. The flow at Mad River above Ruth Reservoir (Zenia Bridge) was 0.0 cfs for the entire month of September.
2. The conditions at Ruth Lake for the month of September were as follows:
 - a. The lake level on September 30th was 2639.54 feet which is:
 1. 3.24 feet lower than August 31th, 2017
 2. 1.57 feet lower than September 30st, 2016
 3. 1.35 feet lower than the ten year average
 4. 14.46 feet below the spillway
3. There was 0.44 inches of recorded rainfall for September 2017 at Ruth Headquarters.
4. Ruth hydro power production was 144000 kWh for the month of September with 0 shutdowns and 0 kWh lost power.
5. The high discharge flow from the lake for the month was 48.0 cfs on September 6 and the low release flow from the lake was 44.0 cfs on September 7.

Lower Mad River, Winzler Control, and TRF

6. The river at Winzler Control Center reached a high recorded flow of 84.1 cfs and a level of 21.3 feet on September 21. The low river flow was on September 5 with a flow of 49.5 cfs and a level of 21.0 feet.
7. The domestic water conditions were as follows:
 - a. The monthly turbidity average was 0.18 NTU, which meets Public Health Secondary Standards.
 - b. We metered 279.5 million gallons at an average of 9.316 MGD.
 - c. The maximum metered daily municipal customer use was 12.32 MGD on September 2.
8. The Turbidity Reduction Facility was offline in September.
9. Sept. 6th – Inspected spillway with Voss laboratory and GHD
10. Sept 10th-15th – 4 people attended Rockwell SCADA system training in Stockton.
11. Sept 12th – I took a crew to Ruth for spillway repair prep work.
12. Sept 18th – 29th Maintenance crew installed pumps 1-1 and 1-4 on Collector 1.
13. Sept 19th & 20th – 2 people attended High voltage electrical safety training.
14. Sept 20th – Mario held an Operators meeting

15. Sept 26th

- a. RESA Power was on-site to do transformer oil testing
- b. Collector 2 transformer failed and needed to be removed from the collector.

16. Sept 27th – I took a crew to Ruth to work on spillway repair prep.

17. Sept 29th – Operations started watering up the TRF to test and debug the new SCADA system.

18. Current Projects

- a. SCADA upgrade – There are a lot of small items to clean up and corrections to make and bugs to work out, but we are progressing. See invoice attached.
- b. Collector 1 pump replacement – pump 1-1 is installed. Pump 1-4 has a minor line-up issue and needed some additional machine work.

TELSTAR INSTRUMENTS

1717 SOLANO WAY, UNIT 34
CONCORD, CA 94520
(925) 671-2888 Fax (925) 671-9507

SECTION J3a, PAGE NO. 3

CUSTOMER #: HUMWD

INVOICE #: 91469

INVOICE DATE: 09/29/17

DUE DATE: 11/01/17

BILL TO:

HUMBOLDT BAY MUNICIPAL WATER DIS
ATTN: ACCOUNTS PAYABLE
828 7TH STREET
EUREKA, CA 95501

JOB: 30285

HUMBOLDT BAY/SCADA SYS UPG
828 SEVENTH STREET
EUREKA, CA 95501

YOUR P.O. #

DESCRIPTION	QUANTITY	PRICE	AMOUNT
-------------	----------	-------	--------

PROGRESS BILLING #6			37,936.38
---------------------	--	--	-----------

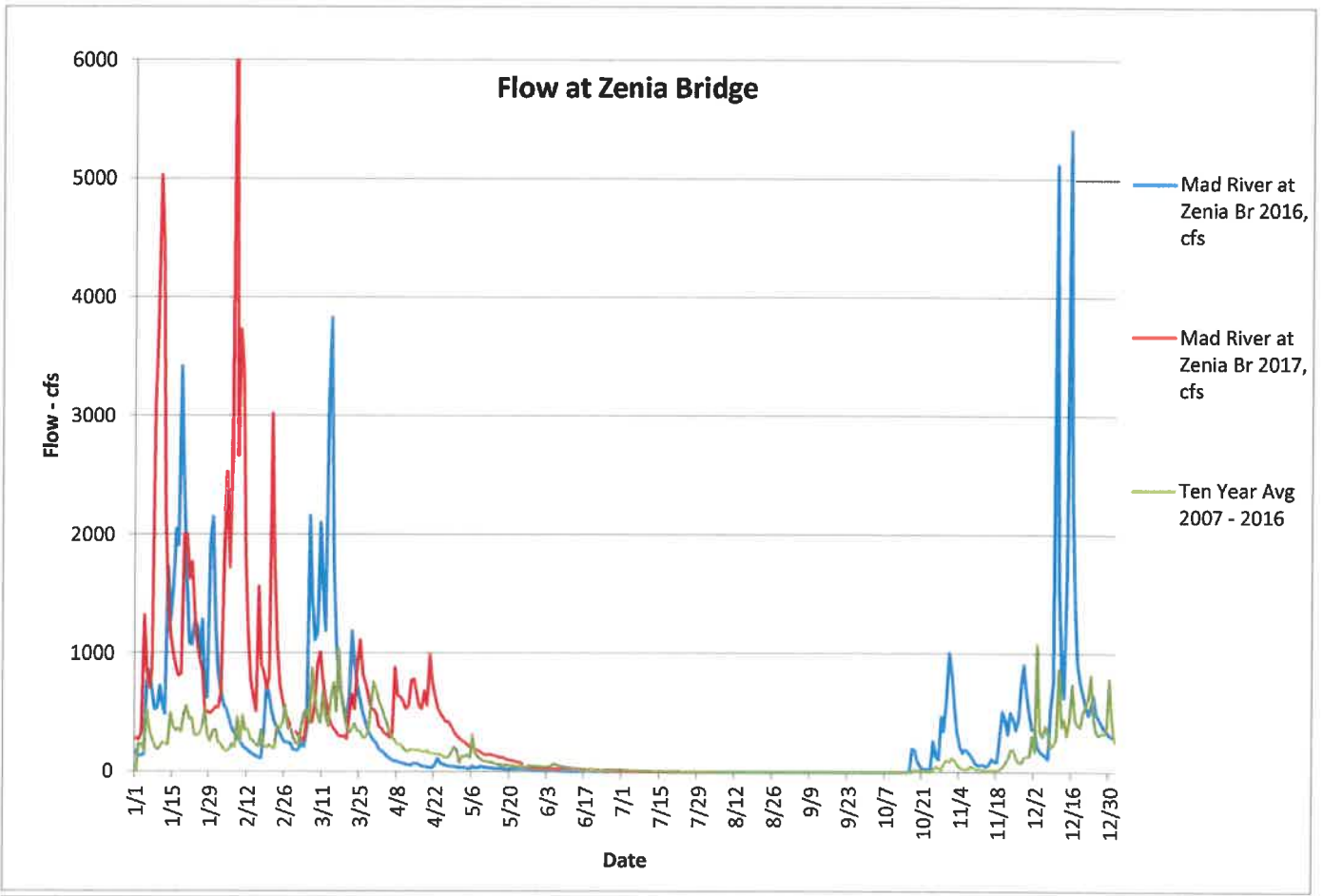
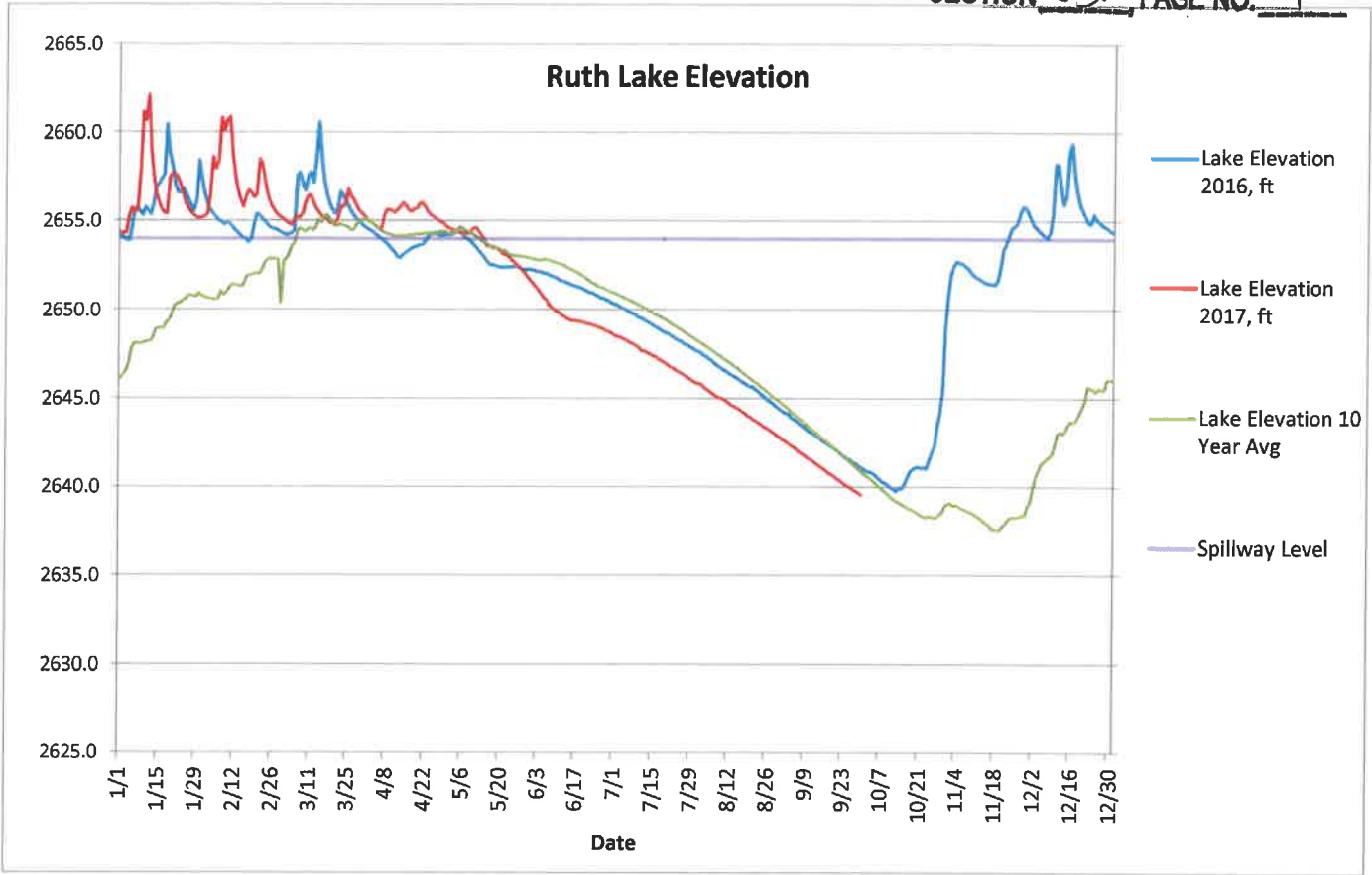
REFERENCE: PROGRESS BILLING #6 FOR SEPTEMBER 2017
AS PER ATTACHED SCHEDULE OF VALUES

PROJECT: SCADA SYSTEM UPGRADE

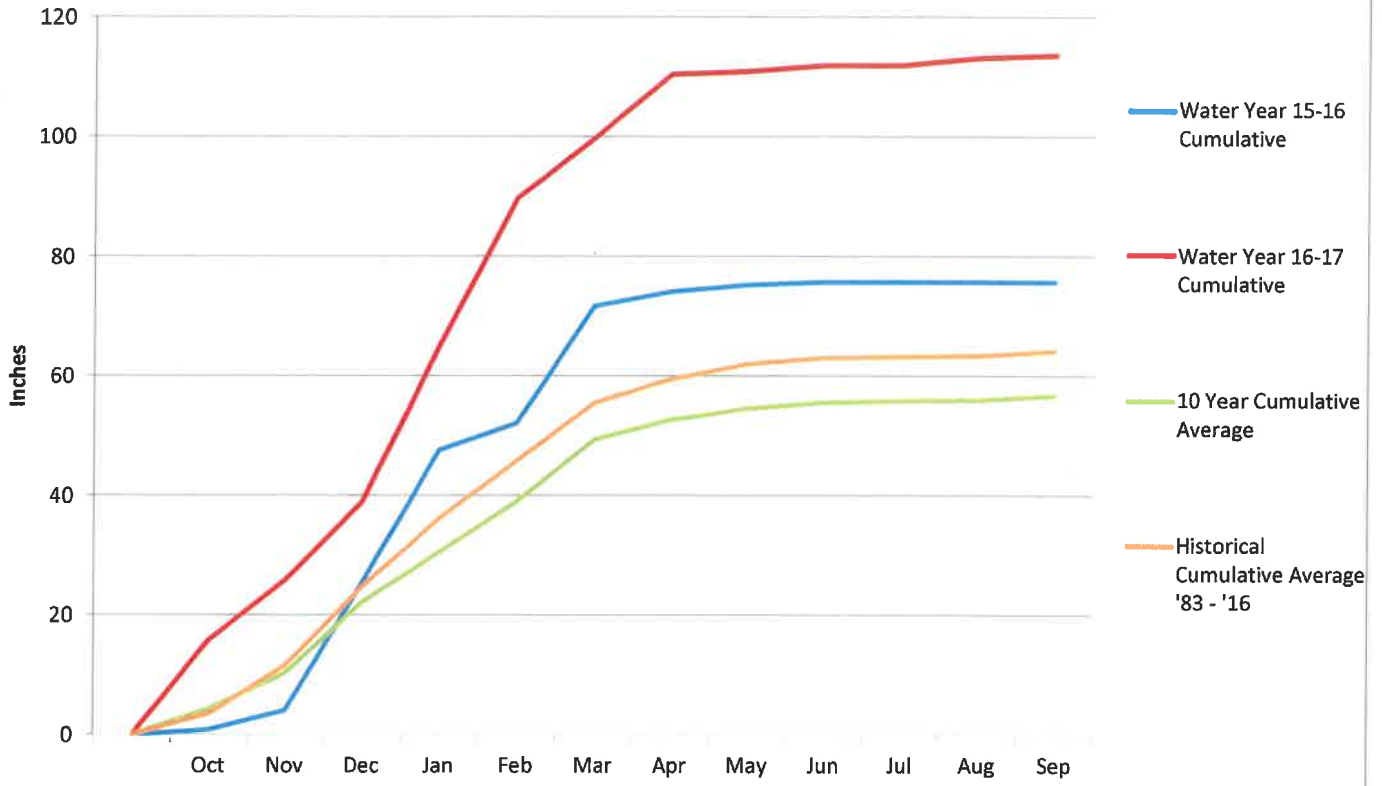
TELSTAR JOB NO. 30285

SUBTOTAL	37,936.38
LESS RETENTION:	-1,896.82
NET DUE:	36,039.56

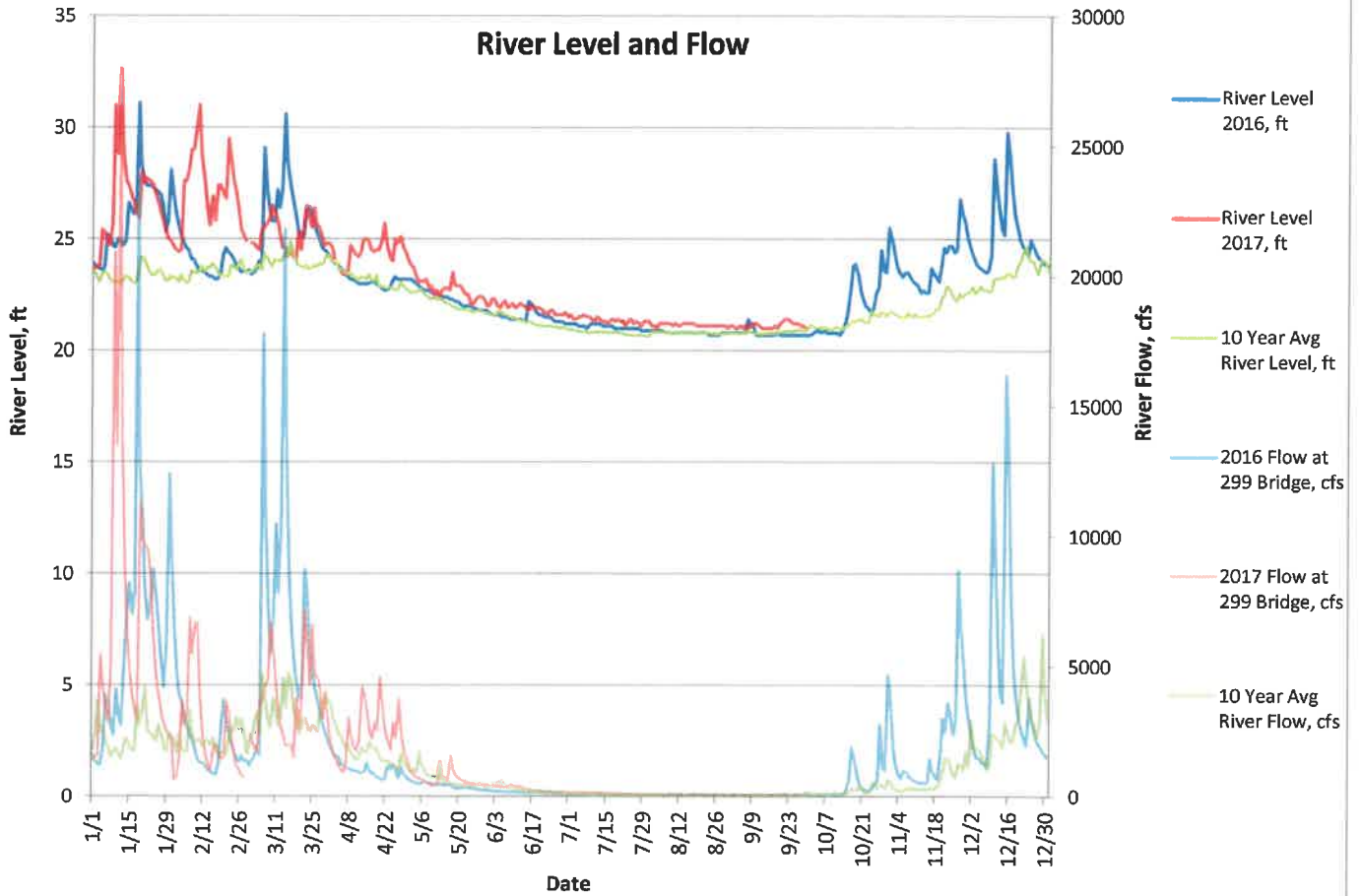
Thank you for your business!



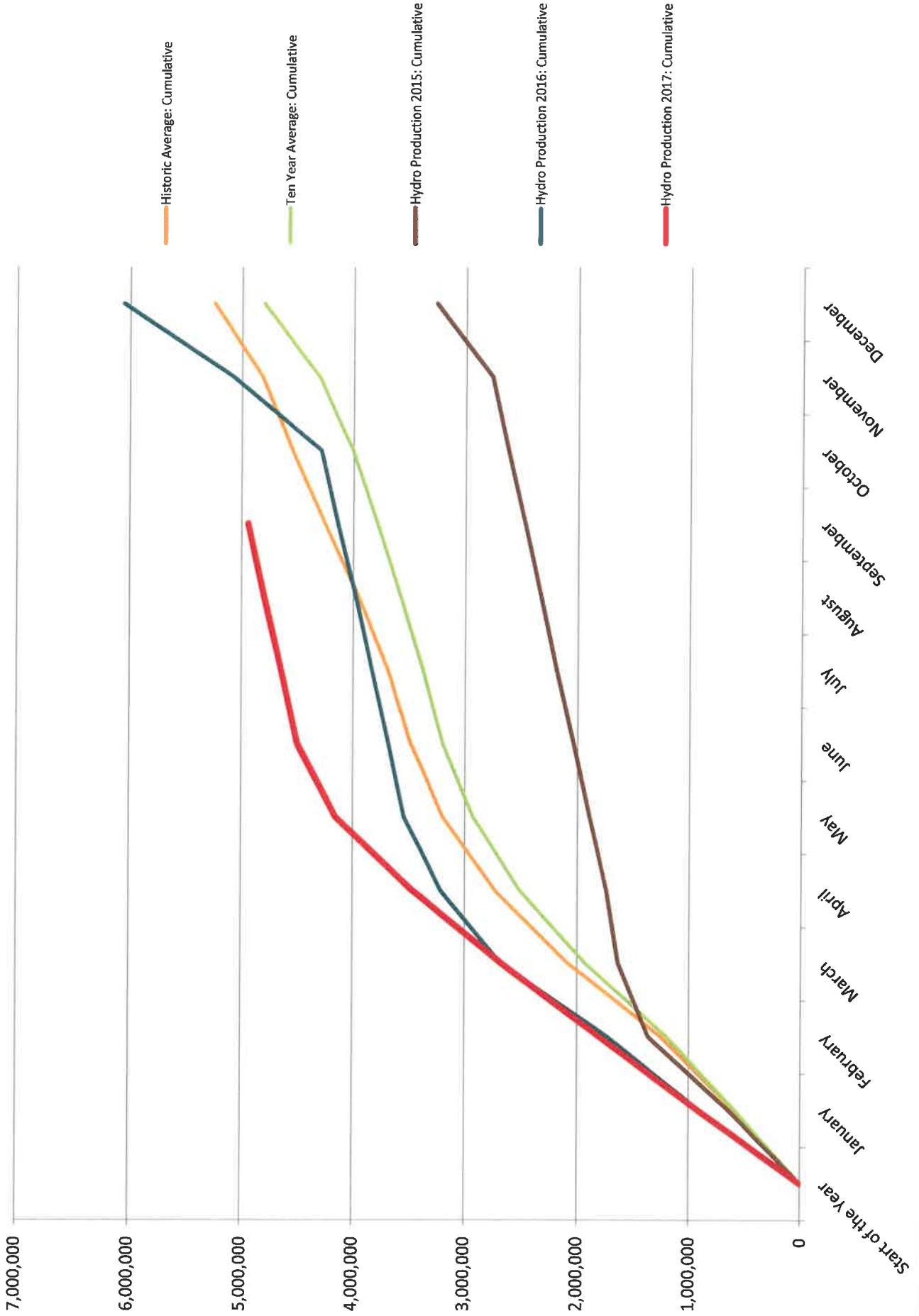
Ruth Rainfall - Water Year 2016-2017



River Level and Flow



Ruth Hydro Production: kW per Month





**Humboldt Bay Municipal Water District
Ruth Hydro Production Report – Since June 1983**

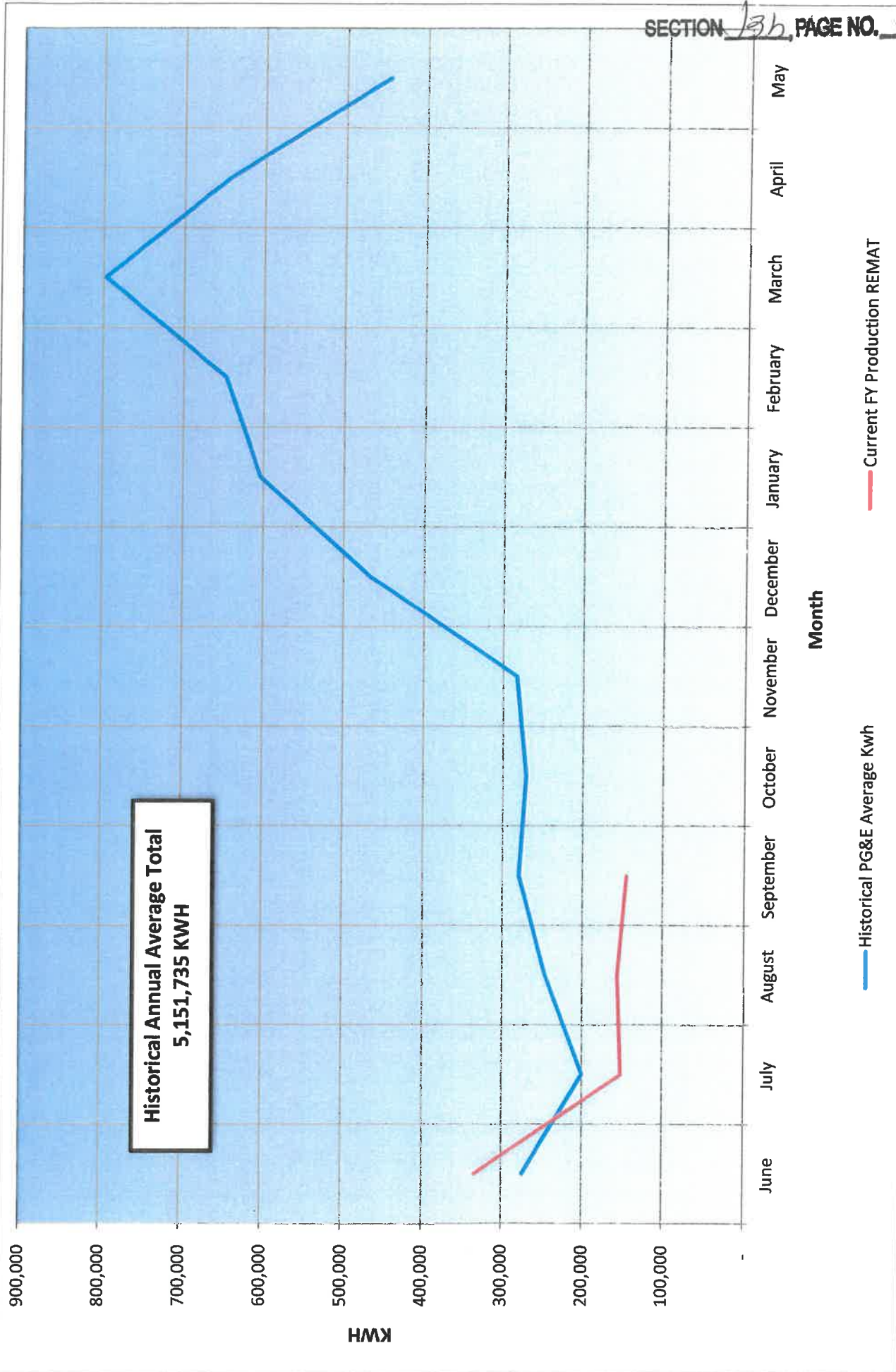
PG&E June 1983 through May 14, 2017

	Total Kwh Production	Average Monthly KWH Production
On Peak	11,630,086	28,575
Part Peak	58,575,072	143,919
Off Peak	83,856,378	206,035
Super Off Peak	26,796,680	65,840
Grand Total	180,858,216	444,369
	Pre REMAT Total Revenues	\$ 8,790,377.99
	No. of Months of Operation	407.5
	Average \$/Kwh	\$ 0.0486

**REMAT
May 15, 2017 to September 2017**

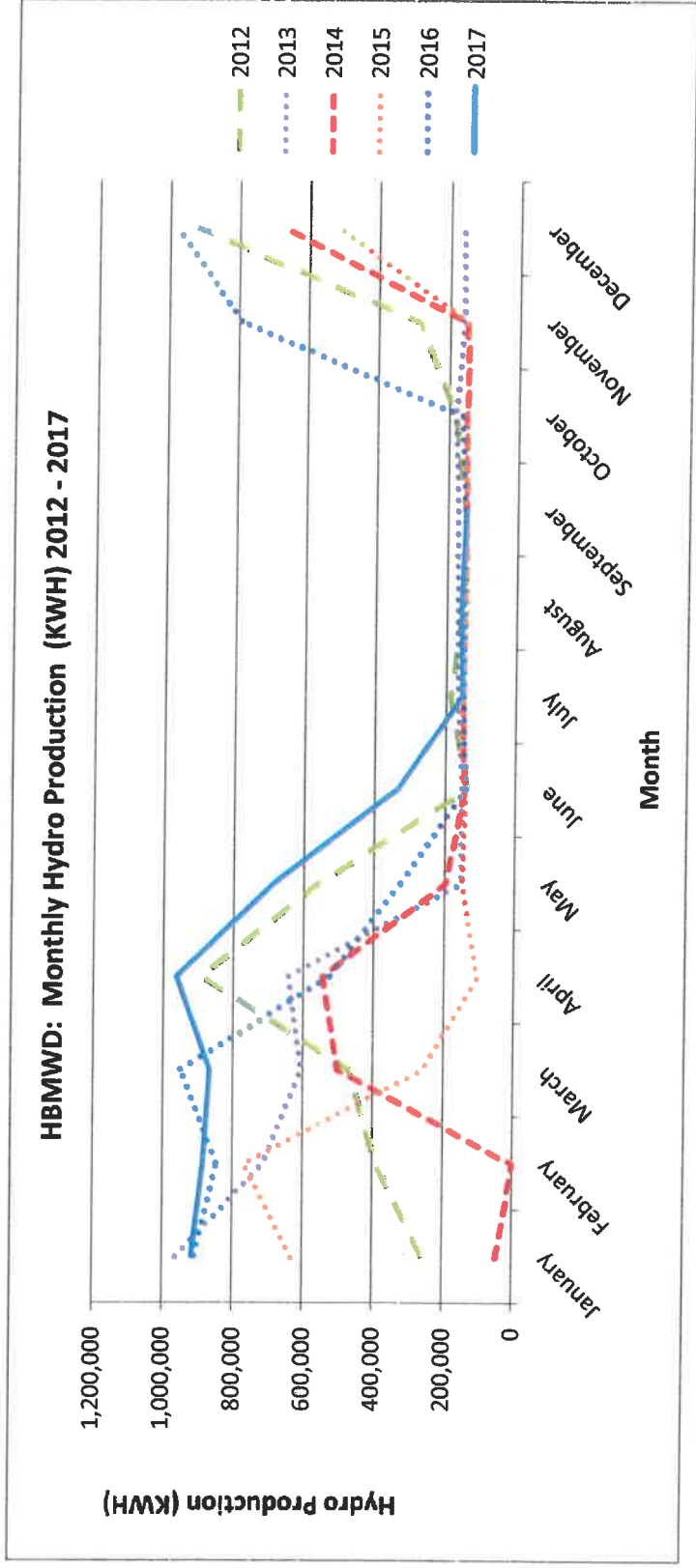
2017/2018 Month	Production KWH			Totals		REMAT #of Mos	Total No. of Months of Operation	Cumulative REMAT Revenues	Grand Total Revenues to Date	Avg \$/Kwh REMAT
	Day	Shoulder	Night	Total KWH	Monthly Revenues					
May	96,070.1	113,974.6	179,458.6	389,503.3	\$ 30,388.07	0.5	407.5	\$ 30,388.07	\$ 8,820,766.06	\$ 0.0932
June	81,535.2	96,802.0	155,848.2	334,185.4	\$ 26,120.87	1	408	\$ 56,508.94	\$ 8,846,886.93	\$ 0.0932
July	37,839.9	43,978.6	69,926.9	151,745.4	\$ 14,146.42	2	409	\$ 70,655.36	\$ 8,861,033.35	\$ 0.0932
August	39,075.2	45,418.9	71,539.6	156,033.7	\$ 14,543.49	3	410	\$ 85,198.85	\$ 8,875,576.84	\$ 0.0932
September	36,363.2	42,226.0	66,220.2	144,809.4	\$ 13,497.57	4	411	\$ 98,696.42	\$ 8,889,074.41	\$ 0.0932
October										
November										
December										
January										
February										
March										
April										

**Historical vs. Actual Cumulative Production
Gosselin Hydroelectric Plant at Ruth lake
All Data in Kilowatt Hours**



**Humboldt Bay Municipal Water District
Monthly Hydro Electric Production (KWH) for CY2012 - 2017**

Month	2012	2013	2014	2015	2016	2017
January	255,300	962,724	47,002	632,611	907,103	916,562
February	390,898	713,055	0	769,170	848,575	884,477
March	470,351	605,327	501,812	261,555	950,250	866,400
April	892,452	642,402	545,893	106,258	523,573	962,033
May	553,888	152,795	196,968	151,803	323,636	682,547
June	138,181	152,044	147,630	143,055	142,248	334,185
July	186,027	164,775	149,503	150,599	147,564	151,745
August	151,424	168,428	148,220	140,977	147,531	156,034
September	147,850	169,768	145,020	145,468	148,770	144,809
October	179,706	178,812	148,715	147,574	159,930	
November	282,768	157,195	148,816	145,196	793,097	
December	923,766	160,936	665,823	510,915	978,889	
Total Annual	4,572,611	4,228,261	2,845,402	3,305,181	6,071,166	1,801,039



FILE COPY**Electric Statement**

SELLER:
 Humboldt Bay Municipal Water District
 828 7th Street
 Eureka, CA 95501
 Attention: General Manager

Invoice prepared	2017-10-03 19:53:20
Invoice period	2017-09
Contract reference	33R403RM
Executed	2016-10-16
Payment due	2017-10-30
Meter id	LOWGAP_7_QFUNTS
Channel	WH3_REC
Project	Matthews Dam Hydro

PURCHASER:
 Pacific Gas and Electric Company
 P.O. Box 770000
 Mail Code N12E
 San Francisco, CA 94177
 Attention: Azmat Mukhtar
 (ASM3@pge.com), Mgr. Bilateral
 Settlements

Summary Invoice

Charge	Gen (kWh)	Sold (kWh)	TOD factor	TOD \$/kWh	Energy (\$)
Day	36,363.2	36,363.2	1.479	0.13197117	4,798.90
Shoulder	42,226.0	42,226.0	0.604	0.05389492	2,275.77
Night	66,220.2	66,220.2	1.087	0.09699301	6,422.90
Totals	144,809.5	144,809.5	1.045	0.09320913	13,497.57

Calculation of PG&E ReMat & Muni Funds FY2017/18
 September 1-30, 2017

PERIOD	KWH	\$/KWH	ReMat Payment Received	Muni PG&E Base Rate	Rebate To Muni's	JTN Energy	Henwood Assoc., Inc.	Balance To ReMat Fund (County)
DAY/PEAK	36,363.20	0.13197117	4,798.89	0.02943	\$ 4,261.74	\$ 405.47	\$ 405.47	\$ 8,424.89
SHOULDER/MID-DAY	42,226.00	0.05389492	2,275.77					
NIGHT	66,220.30	0.09699301	6,422.91					
	144,809.50		\$ 13,497.57					

Verify

Professional Services related to ReMat Contract \$0.0056 Contract is split 50/50*

Current Blended Rate Per Kwh \$ 0.09

*Separate checks are issued to JTN Energy & Henwood Associates, Inc. AFTER payment for month is received from PG & E G/Accounting/ReMat Analysis/ReMat Revenue & Payment

MANAGEMENT

Resolution No. 2017-12

**Resolution of the Humboldt Bay Municipal Water District Board of Directors
Acknowledging and Supporting the 1st Annual California Water Professionals Appreciation Week**

WHEREAS, Water Professionals Appreciation Week was established in the State of California by Senate Concurrent Resolution (SCR) 80, approved by the Legislature on September 13, 2017 and chaptered on September 19, 2017; and

WHEREAS, Our District provides high quality, safe, reliable drinking water for 88,000 residents within our service area; and

WHEREAS, Our District operates 24 hours a day, seven days a week, 365 days per year; and

WHEREAS, Our District facilities include: the Gosselin Hydro-Electric Plant, the R.W. Matthews Dam, the Lloyd L. Hecathorn Turbidity Reduction Facility and the John R. Winzler Operations and Control Center; and

WHEREAS, Our Board of Directors wishes to communicate their appreciation and praise for all the employees who do an excellent job and ensure the safety and reliability of the facilities, infrastructure and administrative processes.

NOW THEREFORE BE IT RESOLVED that the Board of Directors of Humboldt Bay Municipal Water District expresses their appreciation and praise for our District employees during the first annual Water Professionals week: **October 7-15, 2017**; and,

BE IT FURTHER RESOLVED, the following employees are greatly appreciated for the excellent job they do **each and every day** to ensure the success of our District:

Lui Ahmad	Water Operations Specialist	Jasson Klingonsmith	Operations/Customer Service Specialist
Corey Borghino	Customer Service & Accounting Asst.	Steve Marshall	Operations & Maintenance Tech
Bruce Brashear	Maintenance Worker	Carol McKibben	Operations & Maintenance Tech
Ryan Chairez	Maintenance Supervisor	Chris Merz	Asst. Maint. & Electrical Supervisor
David Corral	Electrician	Becky Moyle	Accounting & HR Specialist
Keith Daggs	Maintenance Mechanic	Brian Newell	Hydro Plant Operator/Ruth Area Rep.
Dale Davidsen	Superintendent	Lisa Newell	Water Works Helper/Relief Hydro Operator
Ken Davis	Operations & Maintenance Tech	Mario Palmero	Water Operations Supervisor
Lee Dedini	Electrician	David Perkins	Relief Hydro Operator
Dave Deskins	Maintenance Mechanic	Larry Raschein	Asst. Water Operations Supervisor
Tim Farrell	Operations & Maintenance Tech	Brandon Ryan	Water Works Helper
John Friedenbach	General Manager	Samantha Ryan	Program & Regulatory Analyst
Chris Harris	Business Manager	Dee Dee Simpson- Glenn	Accounting/HR Assistant
Ian Ivey	Operations & Maintenance Tech	Sherrie Sobol	Executive Assistant/Board Secretary
Paul Jorgensen	Electrician	Seth Stone	Maintenance Worker
		Bill Wardrip	Operations & Maintenance Tech.

Adopted and approved this 12th day of October 2017 by the following roll call vote:



AYES:
NOES:
ABSENT:

Attest:

Sheri Woo, President

J. Bruce Rupp, Secretary/Treasurer

PROCLAMATION**of the
Board of Supervisors
County of Humboldt**

WHEREAS, water is our most valuable natural resource and is the lifeblood of Humboldt County; and

WHEREAS, without safe and reliable water, no community or sector of the economy, from agriculture to manufacturing, can thrive or expand; and

WHEREAS, public water systems, the single most important aspect of public health – clean drinking water, actively serve California residents, delivering six billion gallons of safe drinking water each day through an extensive network of pipes and distribution systems; and

WHEREAS, water professionals at local public water and wastewater agencies work 24 hours a day, seven days a week, 365 days per year, to maintain, operate, and upgrade their systems, and improve the safety and resiliency of local water supplies; and

WHEREAS, recent labor studies estimate there are 60,000 people who work in the water industry in California and 6,000 new employees will be needed each year due to turnover; and

WHEREAS, thanks to technological advances by water professionals and the dedication of thousands of water industry professionals in the state, Humboldt County drinking water and treated wastewater meet some of the most stringent water quality standards in the nation; and

WHEREAS, we are all stewards of the water infrastructure upon which future generations depend including the operation of a dam, reservoir, hydro-electric plant, turbidity reduction facility, water and waste water treatment facilities, distribution and pumping facilities; and

WHEREAS, each resident of our County is called upon to help protect our source water from pollution, to practice water conservation as needed, and get involved in local water issues by getting to know their water provider.

NOW THEREFORE, the Humboldt County Board of Supervisors, in recognition of the first annual California Water Professionals Appreciation Week, hereby proclaim the week of

October 7-15, 2017 as Humboldt County Water Professionals Appreciation Week in Humboldt County

Dated: October 3, 2017

Virginia Bass
Virginia Bass, Chair

HUMBOLDT BAY MUNICIPAL WATER DISTRICT

To: Board of Directors

From: John Friedenbach

Date: October 6, 2017

Subject: CSDA Annual Conference Report Out

.....

On September 26th and 27th I attended the California Special District Association's annual conference. The Key Note speakers were: former NFL football player: Eric Boles the author of: "Moving to Great, Unleashing Your Best in Life and Work" and Manley Feinberg the author of "Reaching Your Next Summit! 9 Vertical Lessons to Lead with More Impact".

I attended the following educational sessions:

- Building a Solid Financial Foundation: Financial Policies and Internal Controls
- What's New in California Prevailing Wage Updates
- One Toke Over the Line: The Growing Specter of Marijuana in the Workplace
- CEQA Basics and Hot Topics for Board Members and Staff
- Before You Press Send: Public Records and Brown Act Considerations
- Watch Out! Dangerous Condition of Public Property



California Special
Districts Association
Districts Stronger Together

e-News



New Video Demonstrates Special District Impact on Rural Community

CSDA's public outreach campaign, Districts Make the Difference, just released a new video that aims to increase understanding and awareness about California special districts.

Today's video features the McKinleyville

Community Services District (MCSD) and showcases how the special district positively impacts nearly all aspects of life in the rural, unincorporated town of McKinleyville, CA.

In the video, available here, viewers travel to McKinleyville, the third largest community in Humboldt County – Eureka and Arcata are the largest respectively. However, unlike the City of Eureka and the City of Arcata, McKinleyville is unincorporated territory, meaning there is no city government to provide basic services to its more than 17,000 residents. Like all independent special districts, MCSD was created by residents. In 1970, voters established the special district and originally gave it the authority to serve water and treat sewer waste. Voters subsequently added street lighting powers in 1972, recreational powers in 1985, and authorized construction of the McKinleyville Library in 1995.

"The McKinleyville Community Services District provides safe and reliable water, wastewater, lighting, open space, parks and recreation, and library services to approximately 17,000 residents in an environmentally and fiscally responsible way," said Greg Orsini, General Manager of McKinleyville Community Service District. "It's not about making a profit, it's about enriching the lives of the residents through meaningful, affordable, and accessible services."

"We are lucky to have a Board of Directors that understands the importance of maintaining our facilities and looking ahead to ensure we utilize new technology to comply with upcoming regulations," Orsini said.

The video gives an exclusive look at MCSD's state-of-the-art wastewater treatment facility that, when completed, will exceed existing environmental regulations for years to come. The video also shows how the district is making a difference in their community by providing meaningful programs for youth, including for new Kids Camp Director Mary Elise Conzelmann, who was once an attendee of Kids Camp herself.

Adding to the numerous ways this special district serves and protects its community, MCSD is in the process of creating a District-wide Integrated Pest Management Plan - a strategy that focuses on the long-term prevention of pests and their damage through a combination of biological, mechanical, cultural, physical, and chemical control methods.

This video is one in a series of videos created by Districts Make the Difference, CSDA's public outreach campaign that aims at increasing understanding and awareness of California's special districts. To view the McKinleyville Community Services District video and learn more about all special districts, visit www.DistrictsMakeTheDifference.org.

Please email CSDA Public Affairs Specialist Tatiana Stewart if you have any questions or comments about the Districts Make the Difference campaign at TatianaS@CSDA.net.

[California Special Districts Association](http://CaliforniaSpecialDistrictsAssociation.org) | 1112 I Street | Suite 200 | Sacramento, CA 95814 | 877.924.CSDA (2732)



A Proud California Special Districts Alliance Partner



**Reserve now for
upcoming sessions**

Four in-person sessions

**1 1/2 days each
plus monthly webinars
between sessions**

**Costa Mesa & Roseville
Fall 2017**

**"This is an amazing value
for what you get from this
program."** 2016 graduate

**Limited seats;
cost includes all in-person
and webinar sessions
(50+ hours of training),
all materials, assessments
and meals.**

**Details at www.acwajpia.com
or 800.231.JPIA x3145**



YOUR BEST PROTECTION

Leadership Essentials for the Water Industry:

A Leadership Development Program from ACWA/JPIA

Today's workplace is drastically different from what it was just a few years ago. Such dynamic change calls for an equally dynamic response to develop new leaders with the skills needed for tomorrow.

That's where JPIA's Leadership Development Program for General Managers and other senior staff comes in.

Leadership Essentials for the Water Industry

is a one-year, robust series focused on developing critical leadership skills for a positive, engaged workforce. It is designed to facilitate growth across three spectrums:

Self Leadership ♦ Team Leadership ♦ Agency Leadership

The success of this program is due to its unique structure:

*Small class size ♦ Personalized assessments
Interaction with water industry peers
Practical, on-the-job application of concepts*

Listen to what current senior management participants say:

"The JPIA Program has helped me become a more focused leader in my organization...an invaluable experience"

"The Program has revolutionized my approach to leadership."

"What I have found most valuable...is the direct applicability of the lessons and assignments to my current leadership position. The cohort is a great team comprised of dedicated professionals committed to each other's success."

Apply today to join this exciting program!

Investment Amount:

**\$1,995 - JPIA members
(additional \$500 discount if
member of Liability Program)
\$2,295 - non-members**



If your actions inspire others to dream more, learn more, do more and become more, you are a leader.

John Quincy Adams

"Leadership and learning are indispensable to each other." John F. Kennedy

Leadership Essentials for the Water Industry

A New Leadership Development Program from ACWA JPIA

Curriculum Synopsis 2016/2017 Session

Today's workplace is drastically different from what it was just a few years ago. Such dynamic and fluid change calls for an equally dynamic response in developing additional leadership and management skills. Through surveys, research and discussions, JPIA has determined that water industry leaders need to enhance existing skills in order to lead in this new paradigm.

Without effective leadership, organizations do not operate at their potential, employees are not engaged, on the job accidents increase and employee issues erupt. Therefore, in keeping with the mission of dedication to the water industry's insurance and related needs, JPIA is pleased to announce a new Leadership Development Program for General Managers and other senior leaders of member agencies.

The curriculum runs for one year and participants are required to attend three on-site sessions, along with follow-up webinars between the sessions. This is a comprehensive program, specific to the water industry, where attendees must commit to attending all sessions in order to leave with a better understanding of themselves as a leader, and how to leverage their leadership style to achieve improved and sustainable results.

Peer interaction along with practical, on-the-job application of concepts learned, are the cornerstones of this successful program. Applying these new skills back at the workplace will enable leaders to adapt to the ever-changing world of work, foster innovation and successfully lead the water workforce of tomorrow.

Description

The *Leadership Essentials for the Water Industry* is designed as a 1-year, robust program that focuses on providing senior leaders with expanded skills who create a positive, engaged workplace.

The program is specifically formulated to help participants lead effectively across three leadership spectrums: Self, Team, and Agency.

Delivery

The program's method of delivery is "blended," i.e., in-person (classroom) and virtual (webinar). Both methods are instructor-led with practical application tied to proven theories, guided discussions, experiential activities, and back-at-work action to transfer what is learned to the workplace. Basic delivery elements include:

- Performance-based curriculum: Instructor-led training will incorporate elements such as guided discussions, experiential exercises, case studies, small group activities, and back-at-work action planning. Participant engagement is maximized.



- **Personal Assessments:** Participants complete four (4) separate online personal assessment tools to provide them insight and feedback on their leadership style, strengths, and challenges.

Schedule/Agenda

The program consists of 50 academic hours of learning divided into three sessions. Each session is four months long and consists of 1½ day classroom event (afternoon presentation and dinner discussion plus a full day), followed by three monthly 90 minute webinars. Each session has specific back-at-work actions and assignments for participants to transfer what they have learned to the workplace. The final session is a half day recap and graduation.

The following gives a general outline of the content covered in each in-person session. This is the same, no matter the location – only the dates will change.

Session One – Self Leadership

	October	November	December	January	
	October 13, 2016	October 14, 2016	November 10, 2016	December 9, 2016	January 13, 2017
8-9am	Travel In	Connecting With Others (Continued)			
9-10am		Multidimensional Leadership			
10-11am		Values-Based Leadership			
11am-12					
12-1pm	Welcome Lunch	Lunch	30-Day Check-In Webinar	60-Day Check-In Webinar	90-Day Check-In Webinar
1-2pm	Why Leadership Matters	Values-Based Leadership			
2-3pm	Know Yourself First	Wrap Up/BAWAP/Critiques			
3-4pm	Connecting With Others	Travel Out			
4-5pm					
5-6pm					
6pm-?	Working Dinner				

Reading Assignments: *The Great Connection and The 8 Dimensions of Leadership Books*

Assessment Profiles: Everything DiSC Workplace and 8 Dimensions of Leadership



Why Leadership Matters

This introductory module is presented during a “working dinner” the evening before the start of Session One. Its purpose is to engage and energize participants, initiate networking as they begin the program, and set a cornerstone for understanding and appreciating why leadership matters in an organization.

Welcome & Overview

This module welcomes participants, provides a brief overview of the program, and gives each participant an opportunity to introduce themselves.

What is Leadership?

What is leadership? How is it defined? What must we all fundamentally know about leadership?

This module introduces participants to the concept of leadership; establishes a working definition for leadership; and explores the scientific elements that fundamentally impact a person’s leadership.

After completing this module and the associated back-at-work action, participants will better understand and appreciate what leadership is, how it is defined, and what is fundamentally “at play” regarding their own leadership.

Know Yourself First

Although it is one of the least discussed leadership competencies, knowing yourself (self-awareness) is one of the most valuable. How can we expect to effectively lead others when we do not know who we are and what we bring to the leadership environment?

This module helps participants understand and appreciate the importance of knowing themselves as an essential leadership competency. It introduces them to the concept of knowing themselves as a developed skill, and offers a tool for better understanding themselves through their relationships with others.

After completing this module and the associated back-at-work action, participants will better understand and appreciate how knowing themselves first will enhance their relationships with others and their personal leadership effectiveness.

Connecting With Others

We all need to connect with others to grow relationships, be happy, and succeed in life. For a leader, however, connecting well with others is essential to inspiring others to do their best. Hence, connecting well with others is an essential leadership skill that all leaders should understand, appreciate, and work hard to develop.

This module helps participants understand and appreciate the need for connecting well with others by



introducing them to the elements of human behavior; the important role needs and values play in their behavior; the four primary dimensions of behavior [DiSC]; the steps for identifying the behavior styles and needs of others; and the techniques for adapting their behavior to better connect with others.

After completing this module and the associated back-at-work action, participants will better understand and appreciate how their nature, nurture, values, and behavior impact their results and leadership effectiveness. In addition, participants will discover their primary behavioral style, along with their natural strengths and challenges. Participants will further be able to identify the behavioral style and needs of others, and adapt their behavior to better connect with others.

Values-Based Leadership

How does an organization create an environment where people do the right thing, do their best, and treat each other with dignity and respect? The answer is Values-Based Leadership.

This module helps participants understand and appreciate the need for values-based leadership by introducing them to the concept of values-based leadership; the characteristics of a values-based leader; the core and enabling values of values-based leadership; and the value it creates in an organization.

After completing this module and the associated back-at-work action, participants will better understand and appreciate values-based leadership as a personal leadership philosophy that inspires others to do their best.

Session Two – Team Leadership

	February		March	April	May
	February 2, 2017	February 3, 2017	March 3, 2017	April 14, 2017	May 12, 2017
8-9am	Travel In	The Five Behaviors of a Cohesive Team™ (Continued)	30-Day Check-In Webinar	60-Day Check-In Webinar	90-Day Check-In Webinar
9-10am					
10-11am		Team Dimensions			
11am-12					
12-1pm		Lunch			
1-2pm	Session One Review	Team Project			
2-3pm	The Five Behaviors of a Cohesive Team™	Wrap-Up/BAWAP/Critiques			
3-4pm		Travel Out			
4-5pm					
5-6pm					





Reading Assignment: *The Five Behaviors of a Cohesive Team*
Assessment Profiles: Team Dimensions

Why Good Teams Matter

This introductory module is presented during a “working dinner” the evening before the start of Session Two. Its purpose is to entertain and energize participants as they begin the Session Two and gain an appreciation for having good teams in an organization.

Developing & Leading Teams

Teams play a significant role in the ever changing world of water delivery, and are essential to an organization performing at its potential.

This module helps participants understand and appreciate the need for developing and leading teams by introducing them to the importance of teams in an organization; the characteristics of good teams; the attributes of good team players; the stages of team development; and the strategies for developing and leading teams. It additionally emphasizes the importance of using teams to innovate, along with tips for managing change. It ends with ways leaders can effectively manage conflict within a team.

After completing this module and the associated back-at-work action, participants will better understand and appreciate the need for good teams, will know their preferred role as a team player, and be able to develop and lead a good team in the workplace.

The 8 Dimensions of Leadership

To be an effective leader, we need to know our strengths—but that is only part of the story. We also need a broad perspective on all the behaviors needed to effectively inspire others.

This module helps participants understand how their leadership style and priorities are a result of their DiSC-based behavioral style. It introduces participants to the eight (8) leadership dimensions that are used to inspire others. It helps participants identify their primary leadership dimension, their leadership strengths and challenges, and how to identify and appreciate the leadership style and priorities of others.

After completing this module and the associated back-at-work action, participants will better understand and appreciate how their behavior impacts their leadership effectiveness, along with their leadership strengths and challenges; and identify how to adapt their leadership behavior to be more effective.

Session Three – Agency Leadership



	June		July	August	September
	June 8, 2017	June 9, 2017	July 17, 2017	August 11, 2017	September 15, 2017
8-9am	Travel In	Enterprise Risk Management (ERM)			
9-10am		Building Alignment			
10-11am		Championing Execution			
11am-12		Lunch			
12-1pm		(Continued)			
1-2pm	Team Project Presentations	Wrap Up/BAWAP/Critiques	30-Day Check-In Webinar	60-Day Check-In Webinar	90-Day Check-In Webinar
2-3pm	The Strategic Leader				
3-4pm	The Work of Leaders (VAE Process)				
4-5pm	Crafting a Vision	Travel Out			
5-6pm					
6pm-?	Working Dinner				

Reading Assignment: *The Work of Leaders Book*
 Assessment Profile: Everything DiSC Work of Leaders

Why Strategic Leadership Matters

This introductory module is presented during a “working dinner” the evening before the start of Session Three. Its purpose is to entertain and energize participants as they begin the third session, and establish an appreciation for strategic leadership throughout all levels of an organization.

The Strategic Leader

In an aligned organization, every employee—from the General Manager to the Ditch Tender—understands not only the strategy and goals of the business, but also how his or her work contributes to them.

This lesson module is designed to help leaders at all levels gain a deeper understanding and appreciation of the work they do in helping their organizing achieve its mission.

Using a three-part framework, participants learn how to apply the strategic drivers of Vision, Alignment,



and Execution (VAE) to achieve a desired future state. They also discover, through a personal assessment, their personal VAE strengths and challenges. Armed with this new knowledge, understanding, and self-awareness, participants then implement a plan for personal improvement and back-at-work action.

After completing this module, participants will be able to craft a vision for their area of responsibility that supports their organization’s goals and objectives; build alignment to ensure everyone on their team understands and is committed to the vision; and champion execution to turn their vision into reality.

Final Session & Graduation

October
October 12, 2017
Pulling It All Together
Participant Presentations <i>(My Leadership Journey)</i>
Graduation Activity
Welcome Lunch <i>(With New Class)</i>
Travel Out

The final session is a wrap-up of the concepts covered over the prior year and an opportunity to share how the course has impacted leaders back at work. Individuals will be recognized for their dedication and accomplishment with a special plaque. Lunch with the incoming cohort is provided to allow networking and encouragement for those new to the program.



How to Participate

SECTION J4c, PAGE NO. 9

Senior leaders in member agencies must complete an application to take part in this program. Class size is limited to 16 maximum, therefore it is possible that you will be placed on a waiting list if the class is full. Once you apply, you will be notified of your status as soon as possible.

The fee for the one-year series of coursework is \$1,395 for members (\$1,995 for non-members), which includes all in-person and webinar sessions, materials, personal assessments and food. You will be hard pressed to find a more robust leadership program at this attractive price. Plus it has the added value of being water-industry specific. This is open to senior leaders in the agency, especially General Managers and Assistant General Managers, and only one representative per agency will be accepted for each series, unless room allows. This is a small investment to make today in order to develop a successful agency for tomorrow.

Access the application and the announcement flyer [here](#).



Leadership Essentials for the Water Industry:

A Leadership Development Program from ACWA/JPIA

Application for Participation - 2017 Cohorts

Name _____

Title _____

District _____ Email: _____

Which series do you wish to attend?

- Southern California - Costa Mesa (beginning Fall 2017)
- Northern California - Roseville (beginning November 2017)

This application is submitted for participation in the Leadership Development Program from JPIA. To take part in this series, I understand it requires attending three 1 1/2 day live training sessions along with several follow-up webinars between each session. I know that to be successful, I will have to be committed to applying the concepts learned at the workplace and engage with the materials presented.

I understand the expectations of this coursework and can produce the necessary fee should I be chosen as part of the next cohort of participants. (Fee: \$1,995 for JPIA members; Liability program members get \$500 discount; non-members \$2,295).

Type your name again as verification

Date

Class size is limited to 16 participants. You will be notified of the status of your application as soon as possible. Once accepted, you will have to submit the entire fee to hold your seat.

The Leadership Development Program is targeted to General Managers and other senior managers at JPIA member districts; others who apply will be allowed to attend if space permits.

Please return completed application one of three ways:

By email to Training@acwajpia.com, or
 By mail to PO Box 619082, Roseville 95661, ATTN: Patricia Slaven or
 By fax to 916.774.7040, ATTN: Patricia Slaven



**Leadership Essentials for the Water Industry
Schedule-at-a-Glance 2017/2018**



Training Dates 2017/18		
Session	Costa Mesa	Roseville
In Person Session 1	Oct 12-13	Nov 2-3
Webinar-1a	Nov 9 - 8AM	Dec 15 – 10AM
Webinar-1b	Dec 15	Jan 12 2018
Webinar-1c	Jan 12 2018	Feb 9
In Person Session 2	Feb 1-2	Mar 1-2
Webinar-2a	Mar 9	Apr 13
Webinar-2b	Apr 13	May 11
Webinar-2c	May 11	Jun 15
In Person Session 3	Jun 7-8	Jul 12-13
Webinar-3a	Jul 20	Aug 10
Webinar-3b	Aug 10	Sep 14
Webinar-3c	Sep 14	Oct 19
In Person Graduation	Oct 11	Nov 1

ACWA

ACWA Region 1 Board 2016-2017 Term**Chair:**

**Dennis Mayo, McKinleyville
Community Services District**
1656 Sutter Road
McKinleyville, CA 95519
Agency Phone: 707.839.3251
Cell: 707.832.9334
Email: caveboy_m@yahoo.com
CC Email: bschutte@mckinleyvillecsd.com
Position: Director

Vice Chair:

Michael Ban, Marin Municipal Water District
220 Nellen Ave.
Corte Madera, CA 94925
Agency Phone: 415.945.1455
Direct Phone: 415.945.1435
Email: mban@marinwater.org
Position: Environmental & Engineering Services
Manager

Board Members:

David Bentley, North Marin Water District
999 Rush Creek Place
Novato, CA 94945
Agency Phone: 415.897.4133
Direct Phone: 415.761.8909
Email: dbentley@nmwd.com
Position: Auditor Controller

Jennifer Burke, City of Santa Rosa
69 Stony Circle
Santa Rosa, CA 95401
Agency Phone: 707.543-4200
Direct Phone: 707.543.3359
Email: jburke@srcity.org
Position: Deputy Director – Water & Engineering
Resources

**Judy Mirbegian, Hidden Valley Lake Community
Services District**

19400 Hartman Road
Hidden Valley Lake, CA 95467
District Phone: 707.987.9201
Direct Phone: 707.987.3646
Cell: 707-472-7090
Email: judymirbegian@gmail.com
Position: Director

Brad Sherwood, Sonoma County Water Agency

404 Aviation Blvd.
Santa Rosa, CA 95403
Agency Phone: 707.547.1927
Direct Phone: 707.322.8192
Email: brad.sherwood@scwa.ca.gov
Position: Community & Government Affairs Manager

Marvin Talso, Redwood Valley County Water District

P.O. Box 350
Redwood Valley, CA 95470
Agency Phone: 707.489.0679
Direct Phone: 707.621.0155
Email: talsofam@pacific.net
Position: Director

OFFICIAL
REGION 1 Board Ballot

2018-2019
 TERM



**Please return completed ballot
 by September 29, 2017**

E-mail: anaj@acwa.com
 Mail: ACWA
 910 K Street, Suite 100
 Sacramento, CA 95814

**General Voting
 Instructions:**

- 1 You may either vote for the slate recommended by the Region 1 Nominating Committee or vote for individual region board members. Please mark the appropriate box to indicate your decision.
- 2 Please complete your agency information. The authorized representative is determined by your agency in accordance with your agency's policies and procedures.

1 Nominating Committee's Recommended Slate

I concur with the Region 1 Nominating Committee's recommended slate below.

CHAIR:

- **Brad Sherwood**, Community & Government Affairs Manager, Sonoma County Water Agency

VICE CHAIR:

- **Dennis Mayo**, Board President, McKinleyville Community Services District

BOARD MEMBERS:

- **David L. Bentley**, Auditor-Controller, North Marin Water District
- **Jennifer Burke**, Deputy Director of Water and Engineering Resources, City of Santa Rosa
- **Matthew D. Froneberger**, General Manager, Forestville Water District
- **Marvin Talso**, Director, Redwood Valley County Water District
- **Vacant**

OR

Individual Board Candidate Nominations

I do not concur with the Region 1 Nominating Committee's recommended slate. I will vote for individual candidates below as indicated.

CANDIDATES FOR CHAIR: (CHOOSE ONE)

Brad Sherwood, Community & Government Affairs Manager, Sonoma County Water Agency

CANDIDATES FOR VICE CHAIR: (CHOOSE ONE)

Dennis Mayo, Board President, McKinleyville Community Services District

Brad Sherwood, Community & Government Affairs Manager, Sonoma County Water Agency

CANDIDATES FOR BOARD MEMBERS: (MAX OF 5 CHOICES)

David L. Bentley, Auditor-Controller, North Marin Water District

Jennifer Burke, Deputy Director of Water and Engineering Resources, City of Santa Rosa

Matthew D. Froneberger, General Manager, Forestville Water District

Marvin Talso, Director, Redwood Valley County Water District

Brad Sherwood, Community & Government Affairs Manager, Sonoma County Water Agency

2
 Humboldt Bay Municipal Water District

 NAME

 DATE



[Click here to view it in your browser.](#)



Oct. 5, 2017

ACWA Region Elections Results Are In

The polls have closed, the ballots have been counted and the 2017 ACWA Region Elections results are in. The following newly-elected region officers and board members will begin their term of service on Jan. 1, 2018, and serve until Dec. 31, 2019.

Region 1

Chair: Brad Sherwood, Community & Government Affairs Manager, Sonoma County Water Agency

Vice Chair: Dennis Mayo, Board President, McKinleyville Community Services District

Board Members:

- David L. Bentley, Auditor-Controller, North Marin Water District
- Jennifer Burke, Deputy Director, Water and Engineering Resources, City of Santa Rosa
- Matthew D. Froneberger, General Manager, Forestville Water District
- Marvin Talso, Director, Redwood Valley County Water District

Region 2

Chair: Eric Larrabee, Director, Western Canal Water District

Vice Chair: David Coxey, General Manager, Bella Vista Water District

Board Members:

- Sean Earley, General Manager, Richvale Irrigation District
- Kevin Phillips, Interim District Manager, Paradise Irrigation District
- Brad Mattson, General Manager, Reclamation District #1500
- Josh Watkins, Water Utility Manager, City of Redding

Region 3

Chair: Joshua Alpine, Vice Chair, Placer County Water Agency

Vice Chair: Shannon Cotulla, Assistant General Manager, South Tahoe Public Utility District

Board Members:

- Dave Eggerton General Manager, Calaveras County Water District
- Patrick A. Hayes, General Manager, Mammoth Community Water District
- Gene Mancebo, General Manager, Amador Water Agency
- Michael Minkler, General Manager, Utica Water and Power Authority
- Remleh Scherzinger, General Manager, Nevada Irrigation District

Region 4

Chair: Pamela Tobin, Director, San Juan Water District

Vice Chair: Mark Emmerson, Director, Carmichael Water District

Board Members:

- Bryan Busch, General Manager, Reclamation District No. 2068
- Thomas McGurk, Board President, Stockton East Water District
- John Mensinger, Director, Modesto Irrigation District
- Kristin Sicke, Assistant General Manager, Yolo County Flood Control & Water Conservation District
- Dan York, Assistant General Manager, Sacramento Suburban Water District

Region 5

Chair: Bill Rosen, Director, Goleta Water District

Vice Chair: David T. Hodgin, Director, Scotts Valley Water District

Board Members:

- Polly Holcombe, President, Carpinteria Valley Water District
- Frank Mellon, Director, East Bay Municipal Utility District
- Anson B. Moran, President, San Francisco Public Utilities Commission
- Sarah Palmer, Director, Zone 7 Water Agency
- John L. Varela, Board Chair, Santa Clara Valley Water District

Region 6

Chair: Bill Diedrich, Chair, San Luis Water District

Vice Chair: Palmer A. McCoy, Executive Assistant, Henry Miller Reclamation District #2131

Board Members:

- David Cehrs, Director, Kings River Conservation District

- Brian Davis, Director, Madera Irrigation District
- Deanna Jackson, Deputy General Manager, Angiola Water District

Region 7

Chair: William A. Taube, Consultant, Wheeler Ridge-Maricopa Water Storage District (Kern County)

Vice Chair: J. Paul Hendrix, General Manager, Tulare Irrigation District (Tulare County)

Board Members:

- Eric Averett, General Manger, Rosedale – Rio Bravo Water Storage District
- Tom Barcellos, Board Member, Lower Tule River Irrigation District
- David Bixler, Vice Chair, Kaweah River Power Authority
- Byron Glennan, Director, Rosamond Community Services District

Region 8

Chair: Steve Blois, Board Member, Calleguas Municipal Water District

Vice Chair: Gloria Gray, Board Director, West Basin Municipal Water District

Board Members:

- Brian Bowcock, Director, Three Valleys Municipal Water District
- William Cooper, Director, Castaic Lake Water Agency
- Anthony R. Fellow, Ph.D., Board Member, Upper San Gabriel Valley Municipal Water District
- Melvin L. Matthews, Director, Foothill Municipal Water District
- Leonard (Len) Polan, Director, Las Virgenes Municipal Water District

Region 9

Chair: Joseph J. Kuebler, Director, Eastern Municipal Water District (Western)

Vice Chair: G. Patrick O'Dowd, Board Member, Coachella Valley Water District (Arid)

Board Members:

- Luis Cetina, Vice President, Cucamonga Valley Water District
- Carl P. Coleman, Board Secretary, Mojave Water Agency
- James Morales Jr., Governing Board Member, East Valley Water District
- Phil Rosentrater, General Manager, Salton Sea Authority
- Harvey R. Ryan, Board Member, Elsinore Valley Municipal Water District

Region 10

Chair: Cathy Green, Director, Orange County Water District

Vice Chair: DeAna Verbeke, Board Member, Helix Water District

Board Members:

- Jim Atkinson, Director, Mesa Water District
- Charles T. Gibson, Board President, Santa Margarita Water District
- James B. Murtland, President, Rincon del Diablo MWD
- Richard L. Vasquez, Director, Vista Irrigation District

Questions

Information about the Region Election process is available on ACWA's website here.

If you have questions about the 2017 Region Elections, please call (916) 441-4545 or contact your ACWA regional affairs representative:

- Regions 1, 3 & 5: Brian Sanders
- Regions 2, 6 & 7: Michael Cervantes
- Region 4: Ana Javaid
- Regions 8, 9 & 10: Brandon Ida

GET MORE INFO FIND YOUR LEGISLATOR OUTREACH CENTER

STATE LEG COMMITTEE REGULATORY ISSUES ACWA POLICY PRINCIPLES



Find Water Industry-Related Products & Services at ACWA Marketplace.

SEARCH NOW

Professional Services / Consultants Water Industry Products & Services Wastewater Industry Products & Services

© 2017 Association of California Water Agencies. All Rights Reserved.

910 K Street, Suite 100, Sacramento, CA 95814

We hope you enjoy receiving email notices and updates from ACWA. At any time you can click here to unsubscribe or to change your subscription preferences.

RREDC/RCEA



Redwood Coast Energy Authority

SECTION K4, PAGE NO. 1

633 3rd Street, Eureka, CA 95501

Phone: (707) 269-1700 Toll-Free (800) 931-RCEA Fax: (707) 269-1777

E-mail: info@redwoodenergy.org Web: www.redwoodenergy.org

MEETING AGENDA

**Humboldt Bay Municipal Water District Office
828 7th St, Eureka, CA 95501**

**September 18, 2017
Monday, 3:15 p.m.**

RCEA will accommodate those with special needs. Arrangements for people with disabilities who attend RCEA meetings can be made in advance by contacting Barbara Garcia at 269-1700 by noon the day of the meeting.

OPEN SESSION Call to Order

1. REPORTS FROM MEMBER ENTITIES

2. ORAL COMMUNICATIONS

This time is provided for people to address the Board or submit written communications on matters not on the agenda. At the conclusion of all oral & written communications, the Board may respond to statements. Any request that requires Board action will be set by the Board for a future agenda or referred to staff.

3. CONSENT CALENDAR

All matters on the Consent Calendar are considered to be routine by the Board and are enacted on one motion. There is no separate discussion of any of these items. If discussion is required, that item is removed from the Consent Calendar and considered separately. At the end of the reading of the Consent Calendar, Board members or members of the public can request that an item be removed for separate discussion.

3.1 Approve Minutes of August 21, 2017 Regular Board Meeting.

3.2 Approve attached Warrants.

3.3 Accept attached Financial Reports.

4. REMOVED FROM CONSENT CALENDAR ITEMS

Items removed from the Consent Calendar will be heard under this section.

5. OLD BUSINESS

5.1. Financial Report Template

Review and provide feedback on draft structure of public financial reports

6. NEW BUSINESS

6.1. California Energy Commission Micro-Grid Grant

Part I: Approve partnering with the Schatz Energy Research Center, PG&E, and County of Humboldt on a response to CEC Grant Funding Opportunity GFO-17-302

Part II: Approve issuance of a request for proposals for engineering, procurement and construction of the solar+storage system to be included in the grant proposal with RCEA as client, with any potential contract contingent upon award of EPIC grant

COMMUNITY CHOICE ENERGY (CCE) BUSINESS (Confirm CCE Quorum)

Items under this section of the agenda relate to CCE-specific business matters that fall under RCEA's CCE voting provisions, with only CCE-participating jurisdictions voting on these matters with weighting voting as established in the RCEA joint powers agreement.

7. OLD CCE BUSINESS

7.1. DG Fairhaven negotiations update

Provide direction to staff on next steps for negotiations with DG Fairhaven

8. NEW CCE BUSINESS

8.1. Principle Power Presentation

8.2. CCE Program Update

9. STAFF REPORTS

9.1. Director of Operations- Update on Information Technology Infrastructure Upgrades

10. ADJOURNMENT

NEXT REGULAR MEETING

October 16, 2017 3:15 p.m.

Humboldt Bay Municipal Water District Office
828 7th St, Eureka, CA 95501



REDWOOD REGION ECONOMIC DEVELOPMENT COMMISSION
Regular meeting of the Board of Directors
At the Prosperity Center 520 E Street, Eureka
September 25, 2017 at 6:30 pm
AGENDA

- I. Call to Order & Flag Salute**
- II. Approval of Agenda and Minutes**
 - A. Approval of Agenda for September 25, 2017
 - B. Approval of Minutes of the Board of Directors for August 28, 2017
- III. Public Input for non-agenda items**
- IV. Program – Hog Island Oyster Company – Cultivating Growth in Humboldt Bay – Terry Sawyer, co-founder and Vice President**
- V. Consent Calendar**
 - A. Acceptance of Agency-wide Financial Reports: August 31, 2017
- VI. Reports – No Action Required**
 - A. Loan Portfolio Reports: August 2017
 - B. Executive Director’s Report
- VII. Old Business**
 - A. Update and Discussion on Providing Support for Digital 299 Broadband Project via California IBank Program
- VIII. New Business**
 - A. Discussion of State of California’s Community Development Block Grant (CDBG) Redesign Process
- IX. Member Reports**
- X. Agenda/Program Requests for future Board of Directors Meetings**
- XI. Adjourn**

The Redwood Region Economic Development Commission will, on request, make agendas available in appropriate alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and the federal rules and regulations adopted in implementation thereof. Individuals who need this agenda in an alternative format or who need a disability-related modification or accommodation in order to participate in the meeting should contact the Board Secretary at (707) 445-9651. Notification 48 hours prior to the meeting will enable the Commission to make reasonable arrangements for accommodations.



Cities Arcata · Blue Lake · Eureka · Ferndale · Fortuna · Rio Dell · Trinidad
Community Services Districts Humboldt · Manila · McKinleyville · Orick · Orleans · Redway · Willow Creek
Humboldt Bay Harbor, Recreation and Conservation District · Humboldt Bay Municipal Water District
County of Humboldt · Hoopa Valley Tribe · Redwoods Community College District