

**Humboldt Bay Municipal Water District
828 7th Street, Eureka**



**Agenda for Regular Meeting of the Board of Directors
Meeting Start Time: 9:00 a.m.**

**DUE TO COVID-19 THE DISTRICT WILL BE HOLDING THE MEETING VIA ZOOM
September 9, 2021**

District Mission

Reliably deliver high quality drinking water to the communities and customers we serve in the greater Humboldt Bay Area at a reasonable cost. Reliably deliver untreated water to our wholesale industrial customer(s) at a reasonable cost. Protect the long-term water supply and water quality interests of the District in the Mad River watershed.

COVID-19 Notice

Consistent with Cal/OSHA, the California Department of Public Health, and the Humboldt County Public Health Officer's June 18, 2021 COVID-19 Workplace Rules, the Board members will be participating via Zoom. The Board room at 828 7th street will be open to the public and social distancing and wearing of face coverings will be enforced. **Members of the public may also join the meeting online at:**

<https://us02web.zoom.us/j/84939478874?pwd=MnFSMWdpRUU3Y05TRm56WHNaVjJlUT09>

Or Participate by phone: 1-669-900-9128 Enter meeting ID: 849 3947 8874 Enter password: 837234

If you are participating via phone and would like to comment, please press *9 to raise your hand.

How to Submit Public Comment: Members of the public may provide public comment via email until 5 pm. the day before the Board Meeting by sending comments to office@hbmwd.com. Email comments must identify the agenda item in the subject line of the email. Written comments may also be mailed to 828 7th Street, Eureka, CA 95501. Written comments should identify the agenda item number. Comments received prior to the meeting will be read during the meeting. Comments received after the deadline will be included in the record but not read during the meeting. If participating in the meeting, public comment will also be received during the meeting.

Time Set Items:	8.1d McNamara & Peepe Glendale Property	9:15 am
	9.4 New Business-LIDAR discussion	10:00 am
	10.2b Financial-Review of Workers' Comp Claims	10:30 am
	10.1 Engineering	11:00 am

The Board will take a scheduled lunch break from 12:00 pm to 1:00 pm

1. ROLL CALL

2. FLAG SALUTE

3. ACCEPT AGENDA

4. PUBLIC COMMENT

Members of the public are invited to address the Board on items not listed on the agenda that are within the scope and jurisdiction of the District. At the discretion of the President, comments may be limited to three minutes per person. The public will be given the opportunity to address items that are on the agenda at the time the Board takes up that item. Pursuant to the Brown Act, the Board may not take action on any item that does not appear on the agenda.

5. MINUTES

5.1 Minutes of the August 12, 2021 Regular Meeting – discuss and possibly approve*

5.2 Minutes of the August 17, 2021 Special Meeting -discuss and possibly approve*

6. CONSENT AGENDA-These matters are routine in nature and are usually approved by a combined single vote

6.1 Media articles of local/water interest*

7. CORRESPONDENCE

7.1 Surface Transportation notification regarding Annie & Mary Railroad*-discuss

7.2 Notice from DWR re: Quagga mussel discovery at Castaic Lake*- discuss

8. CONTINUING BUSINESS

8.1 Water Resource Planning-status report on water use options under consideration

a. Local Sales

i. Nordic Aquafarms update* - discuss

ii. Trinidad Rancheria Mainline Extension -discuss

b. Transport -Letter to California representatives*-discuss

c. Instream Flow – discuss

d. McNamara and Peepe* – discuss **(Time Set 9:15 am)**

8.2 Ruth Lake Emergency Declaration – update

a. Letter from Leaseholder R. Petrusha*-discuss

8.3 Humboldt Coastal Resiliency Project and Climate Ready Project*-discuss

8.4 2021 Guidelines for the Small Community Drought Relief*-discuss

8.5 3-Acre Conversion*- discuss and possibly approve contracts

9. NEW BUSINESS

9.1 Quagga/Zebra Mussel Infestation Prevention Grant Program* - discuss and possibly approve entering into grant agreement in the amount of \$82,915 and approving Resolution 2021-17

9.2 CalFire-Climate Change Investments Healthy Forest Grant *– discuss and possibly approve entering into grant agreement in the amount of \$4,998,475, and approve Resolution 2021-18

9.3 Gate request from TRF neighbor*-discuss and possibly approve

9.4 District participation in LIDAR proposal with NCRP & WRTC* -discuss and possibly approve **(Time Set 10:00 am)**

9.5 Status of Peninsula CSD – discuss

10. REPORTS (from Staff)

10.1 Engineering (Time set 11:00 am)

a. 12kV Switchgear Replacement (\$755,832 District Match) -status report

b. Appeal of FEMA Funding Denial for Collector 4 Emergency Restoration Work-status report

c. R.W. Matthews Dam & Spillway seismic Stability Analysis and Design HMGP Advance Assistance Project – Revised Match Commitment Letter*-consider and possibly ratify

d. Status report re: other engineering work in progress

10.2 Financial

a. Financial Report* -approve August 2021 financial statement & vendor detail report

b. Review of District Workers' Compensation claims*-discuss **(Time Set for 10:30 am)**

c. COVID-19 State Water Arrearages Survey-discuss

10.3 Operations

Monthly report on projects and operations– discuss*

11. MANAGEMENT

11.1 Brown Act Meetings-in person/virtual/hybrid* -discuss

11.2 Labor Shortage*-discuss

12. DIRECTOR REPORTS & DISCUSSION

12.1 General -comments or reports from Directors

12.2 ACWA

- a. Region 1 ballot* – discuss and possibly approve ballot choice*

12.3 ACWA – JPIA

12.4 Organizations on which HBMWD Serves

- a. RCEA* - status report
- b. RREDC* -status report

ADJOURNMENT

ADA compliance statement: In compliance with the Americans with Disability Act, if you need special assistance to participate in this meeting, please contact the District office at (707) 443-5018. Notification 48 hours prior to the meeting will enable the District to make reasonable arrangements to ensure accessibility to this meeting. (Posted and mailed September 3, 2021)



HUMBOLDT BAY MUNICIPAL WATER DISTRICT

Board of Directors Meeting

September 2021



Lease Lot 39H

MINUTES



HUMBOLDT BAY MUNICIPAL WATER DISTRICT
828 7th Street, Eureka



Minutes for Meeting of Board of Directors
August 12, 2021

1. **ROLL CALL**

President Woo called the meeting to order at 9:00 am. Director Rupp conducted roll call. Directors Fuller, Latt, Lindberg, Rupp and Woo were present. General Manager John Friedenbach, Superintendent Dale Davidsen, Business Manager Chris Harris, IT Manager Dee Dee Simpson-Glenn and Board Secretary Heather Bitner were present. Nathan Stevens and Steve McHaney of GHD were present for a portion of the meeting.

2. **FLAG SALUTE**

President Woo led the flag salute.

3. **ACCEPT AGENDA**

On motion by Director Latt seconded by Director Fuller, the Board voted 5-0 by roll call vote to accept the agenda.

4. **PUBLIC COMMENT**

Mr. Rick Petrusha, a Ruth Lake leaseholder, addressed the Board to express concern with the progress of the clean-up at his lease site. Specifically, he complained about the amount of slash wood debris that was left on his lease site. He claimed that his site was used as a log landing and processing area for all of the logs harvested at Lonesome Way. Staff will speak to Mr. Petrusha after the meeting to attempt to work out a mutually agreeable solution, and noted that the property was used as the landing site for clean-up efforts.

5. **MINUTES**

5.1 **Minutes of July 8, 2021 Regular Meeting**

On motion by Director Rupp, seconded by Director Latt, the Board voted 5-0 by roll call vote to approve the minutes for the July 8, 2021 Regular meeting, as amended to correct/clarify statements.

5.2 **Minutes of July 9, 2021 Special Joint Board Meeting with RLCSD**

On motion by Director Rupp, seconded by Director Latt, the Board voted 5-0 by roll call vote to approve the minutes for the July 9, 2021 Special Joint Board Meeting with RLCSD.

6. **CONSENT AGENDA**

On motion by Director Fuller seconded by Director Latt the Board voted 5-0 by roll call vote to approve the Consent Agenda.

7. **CORRESPONDENCE**

7.1 **FERC letter to HBMWD Re: 2021 Dam Safety Inspection Follow-up dated 7/13/21**

Mr. Friedenbach stated there were no deficiencies, violations or safety concerns raised in the dam safety inspection report. He commented that credit goes to Mr. Davidsen and the maintenance staff that continually maintain those structures.

7.3 **HBMWD letter to NCRA RE: NCRA Commercial License Amendment**

Mr. Friedenbach discussed the letter sent to the NCRA regarding an amendment to our current license agreement on the Annie & Mary railroad grade. He shared that NCRA staff has received the letter, and we are waiting for a response from NCRA. Staff expects to be scheduling a discussion in the near future.



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7.4 HBMWD letter RE: Nordic Aquafarms and the Mad River Flows

Staff addressed the issues of misinformation in the public regarding water usage needs by the proposed Nordic Aquafarms project in relation to the District's ability to provide adequate water for the project. The District does have the capacity to provide both domestic and industrial water to the Nordic Aquafarms project on the Samoa Peninsula.

7.5 HBMWD letter to loggers RE: solicitation for work at TRF

Staff reported they received two letters of interest from loggers in response to the solicitation for the three-acre timber conversion at the TRF. The logging is necessary to make buildable space near the TRF for the larger backup generator and TESLA battery bank projects. In addition, the timber conversion will create defensible space for adjacent neighbors' structures.

7.6 HBMWD letter in support of Mad River August Complex Restoration Project #60286

Staff provided comment to the US Forest Service Mad River August Complex Restoration Project requesting inclusion of a plan for mitigation of long-term woody debris infiltration into and subsequent removal from the lake to protect the dam.

7.7 CalOES letter to HBMWD RE: timelines for COVID grant updates

The District has incurred nearly \$7,000 in COVID related expenses to date.

7.8 City of Arcata 2020 Urban Water Management Plan

Staff shared the letter received from Arcata regarding their UWMP. There was no comment by the Board.

7.9 HBMWD Quagga Progress Report dated 7-19-21

Large logs from the District Headquarters site have been moved into place to try to prevent unauthorized entry at the Old Ruth site to Ruth Lake as a temporary fix. The District received grant funding for placement of large boulders to prevent unauthorized lake access at Old Ruth and other locations as a more permanent solution.

7.10 HBMWD letter to RLCSD RE: California Quagga Infestation map

Staff shared the letter sent to RLCSD, per our Board's request, to inform their Quagga Prevention Plan inspectors of the various lake locations throughout California where Quagga mussels have been detected. This was done to increase inspector awareness and to alert them as to which lakes pose a threat to our Ruth Lake. Staff noted that this letter was included in the Ruth Lake CSD Board packet.

8. CONTINUING BUSINESS

8.1 Water Resource Planning-status report on water use options under consideration

Staff reviewed its WRP memo with the Board.

a) Local Sales

i. Nordic Aquafarm Update:

Staff met with the Humboldt County Planning staff to answer questions regarding the District's domestic and industrial water transmission systems to the Samoa Peninsula. Mr. Friedenbach requested clarification of specific water sources; domestic, industrial, and salt, be included in the EIR documents so the public would not be confused about the water source.



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The Local Sales Committee met with staff from Nordic Aquafarms and the Humboldt Bay Harbor, Recreation and Conservation District (HBHRCD) and reported out that HBHRCD understands that HBMWD shouldn't have any costs associated with new water distribution. HBHRCD staff suggested granting easements to HBMWD in order to provide maintenance access to a distribution grid. HBMWD staff suggested a possible agreement that clarifies HBHRCD would be responsible for the cost of infrastructure past the current water meter, and HBMWD could contract to maintain the grid on HBHRCD property. Nordic previously offered a site tour, but due to COVID restrictions, tours have been cancelled.

ii. Trinidad Rancheria Feasibility Study update

1. Correspondence to Trinidad Rancheria RE: Water Mainline Extension Analysis
District staff communicated the preliminary design and capacity calculations for
2. Mainline Extension Agreement (MEA)

Staff met with the Trinidad Water Advisory Committee (WAC), and the Trinidad City Manager to discuss their request to consider the City of Trinidad (City) potentially joining the Mainline Extension Agreement (MEA). Twice, the City has voted not to participate in the Water Mainline Feasibility Study. The WAC asked the City to reconsider its position at a regular City Council meeting on August 10, 2021. The City Council passed a motion to request an extension of the MEA decision by HBMWD.

Several members of the public provided comment to the Board:

Mr. Clompus, Trinidad City Councilmember, and member of the WAC, addressed the Board. There has been continuing opposition to connecting to HBMWD for domestic water due to the perception that it would induce unwanted growth. Of the individuals who submitted public comment to the City Council, those originating from within the City limits, there is a majority of residents in support of connecting to the water mainline. The majority of commentors in opposition live outside the city limits. Trinidad City Council authorized a study by GHD to review the possibility of connecting to the HBMWD regional water system. The City also wants a study of the health of the Luffenholtz watershed. Mr. Clompus stated that by October, there would be adequate data from both studies to make a decision in the best interest of the City.

Mr. Grover, Trinidad City Councilmember, addressed the Board to comment that he is disappointed that science-based information is not enough to prevail in the issue.

Ms. Jacque Hostler-Carmesin of the Trinidad Rancheria commented there are concerns about pipe size and connectivity issues. They would like to continue moving forward with the Mainline Extension Agreement for an October meeting, and would support the City of Trinidad becoming a partner on the water mainline extension provided they do not delay the Rancheria's waterline project. The Rancheria received grant funding for an engineering feasibility study and design of the water mainline extension.

The Board expressed its desire to move forward on the project at the October meeting, and thanked all parties for their transparency.



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Ms. Elaine Weinraub asked where the Trinidad Rancheria storage tanks will be located. Staff responded that the tank location will be on the West side of Hwy 101 on Rancheria property.

Staff recommends the Board approve the draft MEA in order to finalize content of the agreement with Rancheria Tribal Council and legal counsel. If the City of Trinidad wants to join the MEA, there could be an amendment to add the City as a partner at the October board meeting, maintaining the Trinidad Rancheria as the project lead agency.

On motion by Director Rupp seconded by Director Latt the Board voted 5-0 by roll call vote to authorize the General Manager to finalize the MEA with the Trinidad Rancheria and return the document at the October meeting for consideration and approval. If the City of Trinidad wishes to join in the project, then the Board will consider an amendment to the MEA at that time.

3. Correspondence sent to City of Trinidad's Water Advisory Committee
This item was discussed in section 2 above

b) Transport

The Board suggested it is time to raise the issue of infrastructure for transport again. Sonoma and Mendocino counties need water and if the District can get state or federal funding for the infrastructure it will reduce costs of transport. They recommended the Transport Committee meet with legislators Huffman, McGuire, and Wood, and members of ACWA Region 1 to look at funding for infrastructure. The Board concurred.

c) Instream Flow Committee

i. NMFS meeting report

The Committee met with National Marine Fisheries Service (NMFS) regarding a proposed amendment to the District's Habitat Conservation Plan (HCP). The discussion was generally favorable for an amendment. NMFS staff requested that the District's water dedication be quantified and the project description be better defined.

ii. CDFW meeting report

The committee met with California Department of Fish and Wildlife (CDFW) regarding an amendment to the Habitat Conservation Plan (HCP). A quantification of the District's ability to meet water needs after several years of drought may need to be included in the HCP in the future. Additional engagement from CDFW is needed. There was no perceived push back to the concept of amending the HCP versus submitting a new HCP.

iii. Public outreach with Institute of Local Governments

The Institute for Local Governments submitted a proposal to provide public outreach for the instream flow petition of change to the District's water rights. Public outreach was listed under the District's match requirement for the Wildlife Conservation Board grant. The Board suggested reaching out to Mary Gelinas who is local for a proposal prior to voting on an outreach consultant. Discussion of utilizing the Citizen's Advisory Committee occurred.



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d) McNamara and Peepe

Director Woo recused herself due to a remote potential conflict. Director Woo is employed by SHN Engineers and Geologists, which performs work at the McNamara and Peepe site.

i. Acknowledgement of Document submission to Envirostar

Staff has not received any response from DTSC regarding the District's correspondence submission.

ii. Ground water sampling results

Staff introduced the draft ground water test results (prepared by SHN) showing the presence of dioxins, which is extremely unusual in water. The contamination was found outside of the cap that was put in place by the Department of Toxic Substance Control (DTSC) to contain contamination from the former mill site. The test results were discussed prior to the Board meeting with Mr. Hagemann of Soil/Water/Air Protection Enterprise (SWAPE), and indicate an increase in contamination levels during the last ten years.

Discussion of the findings in the report for DTSC prompted the Board to direct staff to provide a response letter to DTSC, similar to the letter for surface water findings, and in consultation with Mr. Hagemann. The letter is to include the timeline for remediation that had been offered previously by DTSC; a request for the timeline of the bench study; and a request for DTSC to hold a public meeting, per their agreement. The Board suggested staff draft a letter with input from Director Fuller and Mr. Hagemann. The Directors also suggested inviting State representatives to hear about the concerns with DTSC first-hand. Mr. Friedenbach stated Erin Dunn from Jim Wood's office was present at the previous meeting with DTSC.

Ms. Kalt, of Humboldt Baykeeper, provided suggestions for the final draft report. She agrees that preventing contamination from migrating further, and potentially getting to the river is paramount.

8.2 Ruth Lake Emergency Declaration

a. Extension request for Natural Resource Conservation Service (NCRS) - Ruth Lake Emergency Watershed Program (EWP) Project

The extension request has been approved for implementation of the erosion control measures authorized under the grant in the amount of \$1.3M.

b. Cal Fire Notice of Inspection

Morris Logging received an inspection by Cal Fire and they were found to have been doing a good job.

Separately, the District received notice that funding from the Climate Change Investments grant in the amount of \$5M has been approved for reforestation efforts around Ruth Lake and in the headwaters area of the Mad River Watershed. The District partnered with two private land owners adjacent to District property and with the US Forest Service through the Watershed Center in Hayfork on this grant.



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8.3 Drought

a. Humboldt County Supervisors declare drought emergency

Mr. Friedenbach gave an update on information that has been in the news related to the drought in Humboldt County. Areas outside our service area are experiencing drought and potential options to help those communities in need of water were discussed.

b. Local articles regarding drought

Mr. Friedenbach gave a presentation on current drought conditions to the Mad River Rotary.

9. NEW BUSINESS

9.1 Ruth Lake CSD request for financial support for Quagga Prevention Plan costs

Staff drafted a letter in response to the RLCSD request to share costs to implement the Quagga Protection Plan, which communicates that the responsibility for recreational activities lies exclusively with Trinity County and Ruth Lake CSD (RLCSD) as stated in the Master Lease. The Board requested an edit to the letter to include all funding the District has expended to support the Quagga Prevention Plan since its inception.

RLCSD General Manager, Caitlin Canale, referenced the Quagga Prevention Plan, and asked whether a long-term maintenance plan could be added to the Prevention Plan. The Board clarified that there is a lease agreement between the two districts, and that Quagga prevention is the obligation of RLCSD since they are the entity that administers recreation. It is understood that expenses continually increase. Revenue has to increase to match those expenses, and the rate payers of Humboldt Bay contributed at the onset of the program. Long term maintenance for the Quagga Prevention Plan is solely the responsibility of RLCSD.

Jordan Emery, RLCSD Director addressed the Board. He felt costs related to the prevention plan and additional costs that are incurred for maintenance, should be shared by HBMWD. Mr. Emery asked whether the Plan needs to continue if the water chemistry doesn't support the introduction of an infestation. The Board responded that since there is recreation on the lake, the state requires a Quagga Prevention Plan with annual reporting requirements by HBMWD. Although there is relative low risk of quagga infestation due to the lake's chemistry, there is not zero risk and the potential impacts are so high that the Plan must continue. The Board recommended RLCSD contact the Trinity County Economic Development staff to work with them for funding as Ruth Lake recreation brings in tax revenue to Trinity County.

On motion by Director Latt seconded by Director Rupp the Board voted 5-0 by roll call vote to approve sending the letter to RLCSD regarding no financial support for the Quagga Prevention Plan, with edits.

10. REPORTS (from staff)

10.1 Engineering

Mr. Nathan Stevens, of GHD, provided updates to each of the following items.

a. 12kV Switchgear Replacement (\$755,832 District Match)

i. Change Order #5

A change-order is needed for additional relay test switches for the 12kV Project.

ii. GHD credit for test switch change order

GHD is contributing \$16,807.88 towards the cost increase. Change order #5 is in the amount



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of \$42,281.07, with \$25,473.19 being the increase to the District. Mr. Friedenbach has signed the change order, no need for additional approval.

- b. Collector 2 Communications Underground – NCRA License
Staff provided an update during the Correspondence section of the meeting.
- c. Collector Mainline Redundancy Hazard Mitigation Grant (\$790,570 District Match)
FEMA approved Phase I which includes Geotech investigation to facilitate a preliminary engineering design. It will also include documentation and research.
- d. Reservoir Structural Retrofit Hazard Mitigation Grant (\$914,250 District Match)
A list of Phase 1 deliverables sent to CalOES was included in the Board packet. The Phase 2 approval timeline is not currently available.
- e. TRF Generator Hazard Mitigation Grant (\$460,431 District Match)
There was nothing new to report.
- f. Appeal of FEMA Funding Denial for Collector 4 Emergency Restoration Work
There is nothing new to report. The Board suggested that Senator McGuire's office be contacted to find out the status, as it has been more than a year since there has been contact from FEMA regarding this appeal.
- g. R.W. Matthews Dam Spillway Retrofit Scoping Project HMG Advance Assistance Program
Cal OES has accepted the District's RFI response letter.
- h. Status report re: other engineering work in progress
There was nothing to report.

10.2 Financial

a. Financial Report

Ms. Harris presented the July 2021 Financial Report. The PARS account is over \$1M, and includes the annual \$50,000 contribution. There is over \$5M in the Cal TRUST accounts.

The Redundant Pipeline Phase 1 grant has recently been approved, and will require increased advance charges over the next couple of years. Long-term financing is an option as well.

Director Woo reviewed the bills for July and did not have any questions. All were in order.

On motion by Director Rupp seconded by Director Lindberg the Board voted 5-0 to approve the July 2021 financial statements and vendor detail report in the amount of \$860,537.07.

b. Review revised Project Budget Reallocation FY21

The Project Budget Reallocation was revised with \$11,600 returned to the final 20/21 Project Budget Expense Report.

On motion by Director Rupp seconded by Director Fuller, the Board voted 5-0 by a roll call vote to approve the FY 20-21 Project Reallocation revision in the amount of \$11,600.



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c. HBMWD letter to Municipal Customers RE: Estimated Wholesale Water Charges and Price Factor 2 Reconciliation for FY21

Reconciliation of the Municipal flat rate billing vs. actual expenses is calculated annually. For FY21, this reconciliation resulted in a credit to the Munis of \$3,589 which was apportioned to the individual Muni's using their moving five-year average.

d. Hydro Plant Financial Analysis

Ms. Harris presented a financial analysis of operating the hydro plant. Over time the expenses have increased mostly due to professional services and regulatory requirements. The revenue generated from the sale of power is directly related to the amount of precipitation received during the winter months. Although there are years that the expenses to operate the hydro plant exceed the income generated through the sale of power, these expenses for state regulatory fees, professional consultants and operational costs would be on-going, regardless of whether the District sells power. Staff analysis supported that it is still in the District's best interest to operate the hydro plant. Mr. Friedenbach also added that the dam would be subject to State regulatory requirements, and the hydro license can be sold by FERC to an outside entity, which would not be in the District's best interest.

The Board noted that the hydro dam operations are layered into the Instream Flow calculations and water rights.

10.3 Operations

a. Monthly report on projects and operations

Superintendent Davidsen provided his report to the Board. PG&E requested a plant shutdown at Ruth Hydro which created 81 lost production hours. Staff training included safety meetings on the topics of Traffic Control and Asbestos/Silica.

b. Surplus District computers

The Superintendent proposed to surplus eight computers and one printer that have already been replaced. This equipment has been determined to be obsolete.

On motion by Director Fuller seconded by Director Rupp, the Board voted 5-0 by roll call vote to approve the surplus of the eight computers and one printer.

c. Maintenance Supervisor Report

Mr. Ryan Chairez presented a very informative Power Point presentation on staff's Pipeline Inspections and Maintenance.

11. MANAGEMENT

11.1 ACWA

a. Fall Conference 2021

On motion by Director Rupp seconded by Director Lindberg, the Board voted 5-0 by roll call vote to approve Board and Staff attendance at the ACWA Fall 2021 Conference.

b. National Special Districts Coalition letter in support of H.R. 3534, the Wildfire Emergency Act

On motion by Director Rupp seconded by Director Lindberg the Board voted 5-0 by roll call vote to approve the District joining the National Special Districts Coalition letter in support of H.R. 3534, the Wildfire Emergency Act.



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c. ACWA comment letter on US Department of Treasury's Coronavirus State and Local Fiscal Recovery Funds Interim Final Rule (TREAS-DO-2021-0008-0002)

Following Board discussion, they are in support of the Local Fiscal Recovery Funds Interim Final Rule.

d. Coalition letter in opposition to H.R. 2467, the PFAS Action Act of 2021

This legislation would run counter to the important "polluter pays" principal that guides superfund clean-ups. Staff recommends opposition to the legislation, and joining the coalition. On motion by Director Rupp seconded by Director Lindberg the Board voted 5-0 by roll call vote to approve the District joining the coalition letter in opposition of H.R. 2467.

11.2 **CSDA**

a. Humboldt Area Chapter participation in the State Seal of Civic Engagement

The Humboldt Area Chapter wishes to provide civic engagement opportunities for students in support of the State Seal of Civic Engagement. Our District support would be specifically for Eureka-centric high schools (Eureka High School, St. Bernard's and charter schools).

On motion by Director Rupp seconded by Director Fuller, the Board voted 5-0 by roll call vote to approve participation and support of the State Seal of Civic Engagement.

11.3 Annie and Mary Trail Connectivity Project

Staff participated on a proposal review panel for the City of Arcata regarding the Annie and Mary Trail Connectivity Project which goes from Arcata and ends at District Park 1. The selected contractors were GHD as the lead, with SHN as a co-partner in the project. Mr. Friedenbach participated in the scoring and selection for the RFP (request for proposal).

12. **DIRECTORS REPORTS & DISCUSSION**

12.1 **General -comments or reports from Directors**

Director Fuller has been asked to speak at the Humboldt Bay Symposium, virtually, on the District's Instream Flow Project.

Director Rupp asked that the Ruth Lake cabin policy be brought back to the Board for review. Additionally, he requested a review of injuries over the last two years (days lost and injuries) as the Workers Comp costs have increased dramatically.

12.2 **ACWA**

a. Nomination of J. Bruce Rupp to Finance Committee

On motion by Director Latt seconded by Director Lindberg, the Board voted 5-0 by roll call vote to approve nomination of J. Bruce Rupp to the ACWA Finance Committee and approval of Resolution 2021-15, as amended with corrections.

b. Nomination of J. Bruce Rupp to Membership Committee

On motion by Director Latt seconded by Director Lindberg, the Board voted 5-0 by roll call vote to approve nomination of J. Bruce Rupp to the ACWA Membership Committee and approval of Resolution 2021-16, as amended with corrections.

12.3 **ACWA – JPIA**

Director Rupp reported out on the Employee Benefits Committee meeting. They have expanded employee health coverage under the JPIA, expanded services in the area of mental



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health beyond what is available under the Employee Assistance Program, effective September 1, 2021.

JPIA PPO program rates will be decreasing by 5%. Anthem HMO rates will go up 3.7% generally, the northern CA rates will go up 2.18% effective January 1, 2022. For the retirees effective January 1, 2022, the JPIA will be going to a Medicare Advantage type program through United Health which means the first provider of care will be United Health and should not cause a disruption to the retirees. There may be cost savings to the District and JPIA. Our retirees will receive better medical benefits through this program.

Director Rupp stated the Executive Committee adopted the changes in the medical plans and rates as discussed in the Benefits Committee report.

12.4 Organizations on which HBMWD Serves:

a. RCEA

The Secretary of the Interior visited Humboldt to discuss the wind farm initiative. RCEA revenues are going up slightly, but it is anticipated to be a tight year financially.

b. RREDC

The board did not meet this month.

Adjournment

The meeting adjourned at 4:15pm.

Attest:

Sheri Woo, President

J. Bruce Rupp, Secretary/Treasurer

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Minutes for Special Meeting of Board of Directors
August 17, 2021

1. **ROLL CALL**

President Woo called the meeting to order at 5:00 pm. Director Rupp conducted the roll call. Directors Latt, Lindberg, Rupp and Woo were present. Director Fuller was absent. General Manger John Friedenbach, Superintendent Dale Davidsen, Business Manager Chris Harris, Tech Manager Dee Dee Simpson-Glenn, and Board Secretary Heather Bitner were also present. Chief Kurt McCray of Cal Fire was also present.

2. **FLAG SALUTE**

President Woo led the flag salute.

3. **ACCEPT AGENDA**

On motion by Director Rupp, seconded by Director Latt, the Board voted 4-0 by roll call vote to accept the agenda.

4. **PUBLIC COMMENT**

No public comment was received.

5. **NEW BUSINESS**

5.1 **Cal Fire Fuel Reduction Contract**

The Board authorized the General Manager to enter into a revised contract with Cal Fire for fuel reduction in the amount of \$500,000.

On motion by Director Rupp, seconded by Director Latt, the Board voted 4-0 by roll call vote to approve entering into the Cal Fire Fuel Reduction contract in the amount of \$500,000 to conduct fuel reduction activities as defined in the contract scope and rescind the authorization of February 11, 2021 to enter into a \$200,000 contract for fuel reduction.

ADJOURNMENT

The meeting adjourned at 5:30 pm.

Attest:

Sheri Woo, President

J. Bruce Rupp, Secretary/Treasurer

CONSENT

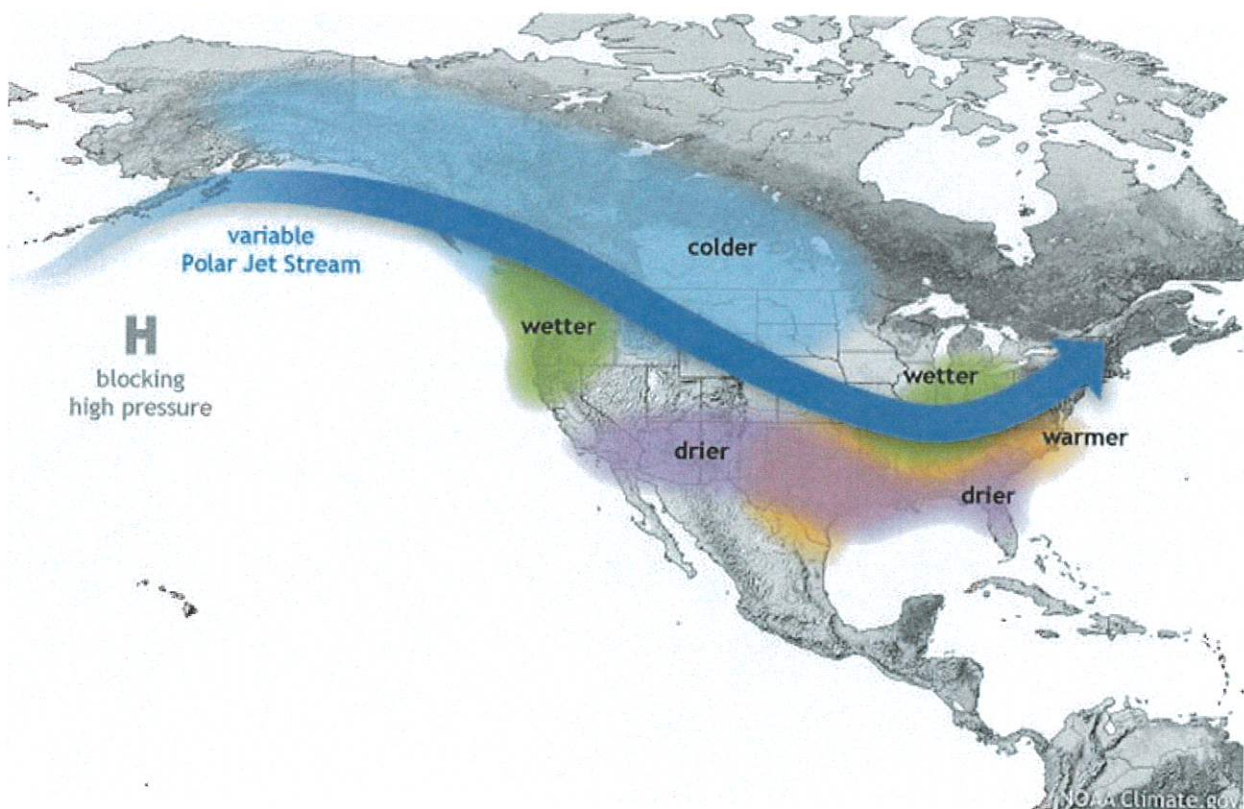
JOHN ROSS FERRARA / 08/26/2021 / @ 11:50 A.M. / LOST COAST OUTPOST / HOW 'BOUT THAT WEATHER

NOAA Predicts 70 Percent Chance of Rainy La Niña Weather Across the Pacific Northwest This Fall, Winter

The drought-stricken Pacific Northwest is expected to see heavy rainfall in the coming months, scientists say.

The National Oceanic and Atmospheric Administration announced earlier this month that the region has a 70 percent chance of receiving La Niña weather between November and January.

WINTER LA NIÑA PATTERN

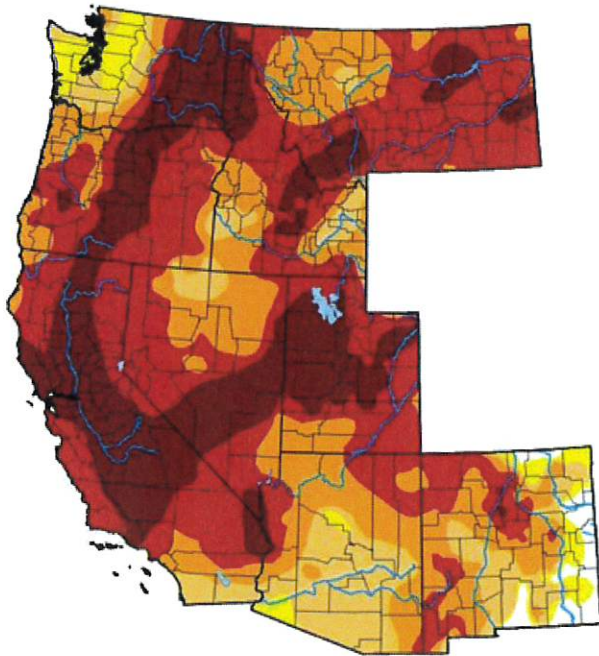


The winter La Niña weather pattern. | NOAA

La Niña is a shift in weather patterns that occurs every two to seven years, caused by strong westerly trade winds that upwell cooler ocean waters in the eastern Pacific. The cool ocean waters push the polar jet stream north, bringing colder temperatures, heavy rains and flooding to the Pacific Northwest. This shift can also spell drought for America's Southwest and severe hurricanes for the East Coast.

The NOAA predicts that the La Niña weather pattern could emerge as early as August, and have the potential to dump heavy rainfall across Pacific Northwest throughout the 2022 winter season.

The storms will likely provide relief for much of America's Northwest, which is currently experiencing various stages of intense drought.



Map released: Thurs. August 26, 2021

Data valid: August 24, 2021 at 8 a.m. EDT

Intensity

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

Authors

United States and Puerto Rico Author(s):
Curtis Riganti, National Drought Mitigation Center

Pacific Islands and Virgin Islands Author(s):
Brad Rippey, U.S. Department of Agriculture

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Current drought conditions across the Western United States. | National Drought Mitigation Center

KPIX – 5

Drought Emergency: Santa Clara Water Officials Issue Dire Warning As Reservoirs Dip To Historic Lows

August 25, 2021 at 6:02 pm

Filed Under: [Drought](#), [Reservoir Levels](#), [Santa Clara County](#), [Santa Clara Valley Water District](#)

SAN JOSE (CBS SF) — With the state in the grips of a historic drought, reservoirs in Santa Clara County are at extremely low levels, as seen in a new video from the county's water provider.

Santa Clara Valley Water, which provides for and manages the water needs of two million people in the county, [released a new video Wednesday](#) illustrating the dire state of the county's reservoirs.

"The situation has been the most dire we've seen in our county, probably ever," says Water District Director Gary Kremen.

After 2017, when the state saw reservoirs in the county were full, Valley Water said reservoirs are currently at just 12.5% of capacity. The video compares each of the county's reservoirs from 2017 and 2021.

The district's largest reservoir — Anderson — is nearly completely empty at 3% capacity [as it undergoes a seismic retrofit](#). The \$575 million project will reduce the risk of flooding and help the reservoir withstand a major earthquake.

Meanwhile, the district's remaining nine reservoirs aren't in much better shape. Stevens Creek and Guadalupe reservoirs are at 14% capacity. Uvas is slightly better at 18% but dropping quickly.



Uvas Reservoir (Santa Clara Valley Water District)

"This is sad. I mean I'll bet you we're going to go on a two or three year drought," said water customer Brett Barclay.

The entire Bay Area and most of California is in either extreme or exceptional drought conditions, [according to the U.S. Drought Monitor](#).

Statewide, reservoirs are also reaching historic lows, the agency said. Oroville Reservoir is at just 23% of capacity and San Luis Reservoir is at 15%, which will result in drastic reductions to the amount of water Valley Water will import this year from each reservoir.

In June, the Valley Water's Board of Directors [declared a water shortage emergency](#) and implemented a 15% mandatory water-use reduction compared to 2019 for all of Santa Clara County.

However, the call to conserve has not been heeded. The water district says they had a net savings of zero in the month of June compared to 2019.

Officials said it's time for people to make changes to their behavior and start saving now.

"When I take a shower, I'll take a bucket and run the water, so that the water collects in the bucket. And when it starts to get warm, I'll take the bucket and throw the water into the laundry," said Mona Schorow during a break on his bike ride around Lexington Reservoir.

Devin Fehely contributed to this report.

**Daniel Mintz
Mad River Union**

HUMBOLDT – As drought intensifies, Humboldt County is stepping up enforcement on unpermitted cannabis grows, and new regulations on wells and water deliveries are being discussed.

During an August 10 presentation by the county's Drought Task Force, the Board of Supervisors was told drought conditions that are "substantial and harmful both to human health and the natural environment" are being observed.

When the Task Force gave its first presentation last month, a moratorium on new wells and curtailment of cannabis planting were on the table but supervisors held off on them.

But at last week's meeting, supervisors were told that the county's coastal region has gone from a moderate drought rating to severe drought and the county's interior region is now in extreme drought.

Water use controls are becoming more likely and potential targeting of the cannabis industry was referred to when Planning Director John Ford answered questions from supervisors.

Supervisor Michelle Bushnell said that all agricultural uses are the same "when it comes to water use" and "I hope that we're looking at the big picture and not targeting certain entities or industries."

Ford noted that there's "a subtle perceptual issue here" in that a measure like curtailment of planting would only affect permitted cannabis farm operators. "And then the illegal industry gets a pass – that sends a very wrong message," he said.

But Supervisor Mike Wilson said that "not all agricultural uses are necessarily the same" regarding water use and location. He added that "even within agriculture there may have to be some prioritization."

Supervisor Steve Madrone noted that Ruth Lake, the reservoir for the Humboldt Bay Municipal Water District, is still mostly full. That covers the domestic water for much of the county's population.

But residents in most of the county's geographical area rely on groundwater and surface water. "And wells are drying out, springs are drying out and creeks are drying out," Madrone said.

Madrone has long advocated for a voluntary, incentive-driven approach to meeting environmental goals. But he said he's "a little bit concerned" about not implementing curtailment and other measures that are listed as options in the county's commercial cannabis ordinance.

Wilson expressed support for new regulations on trucked water deliveries. Ford acknowledged that water delivery is an issue being mulled.

"We have discussed the possibility of – and have not presented this to the board yet and so I say this with some trepidation – but we have discussed trying to figure out a way to require some reporting of water hauling," he said.

That would entail identification of water sources and delivery destinations.

"We recognize that that too will be extremely unpopular," Ford said.

"Unpopular to water haulers," Wilson rejoined. "It may not be unpopular to the population of people who are concerned about the issue of illegal water hauling."

The scale of well water use in cannabis operations was noted during a public comment session. Wilson suggested adding water storage and forbearance requirements to well permitting.

But Ford has doubts about it. "I'm not convinced that all locations are so connected to surface flow that forbearance has a benefit," he said, adding that "if it's not connected to surface water than it doesn't matter when you withdraw the water."

Wilson asked if there's a requirement to have a hydrologist review those factors when wells are located in "impacted" watersheds.

Ford said there are no such requirements in place now and "that could be something that we need to do."

"Put me on the list for supporting, at least conceptually, the idea of having some hydrologic review for new well applications within impacted watersheds," said Wilson.

The task force also reported on illegal cannabis enforcement. The county's Marijuana Enforcement Team has served warrants on 23 unpermitted grows in four watersheds.

Violations included illegal water diversions and water pollution.

Supervisors were also told that low flows in local rivers, including the Mad River, are causing harmful algal blooms.

The board approved the only recommendation up for consideration, to allow the Task Force to expand its membership as needed.

The Task Force consists of leaders of relevant county departments but there may be need to include representatives of state agencies, local community services districts, tribes and stakeholder groups.

Business Insider

HOME SCIENCE 8/17/2021

Local officials are reportedly worried chlorine suppliers are prioritizing swimming pools over drinking water in several US states

- **Officials worry chlorine suppliers are prioritizing swimming pools over drinking water, Bloomberg says.**
 - **Amid chlorine shortages, some drinking water plants are running low on vital treatment chemicals.**
 - **Pool construction increased by 23% last year, contributing to a shortage of chlorine tablets.**
-

Oceanside Water Utilities in California was days away from running out of bleach for its waste- and drinking-water treatment plants last month, Bloomberg Law reported on Monday. If chemical shipments didn't return in time, the water supply for 170,000 people would be at risk.

The Oceanside plant was one of 10 local systems from California, Utah, New Mexico, and New York that requested help from the US Environmental Protection Agency this week, according to Bloomberg.

This led both private and public water plants to apply for federal assistance as their chemical shipments dwindled amid regional chlorine shortages. Requests were filed through section 1441 of the 1974 Safe Drinking Water Act, something the EPA said they've never seen before.

In a Federal Register notice published Friday, the EPA said all 10 applicants cited "the unavailability of treatment chemical via normal procurement channels" due to chlorine shortages.

"Each of these utilities tried to identify alternate treatment chemical suppliers with no success," the EPA wrote.

Local water officials told Bloomberg's Bobby Magill that they are concerned chlorine suppliers are prioritizing shipments to swimming pools over water plant deliveries.

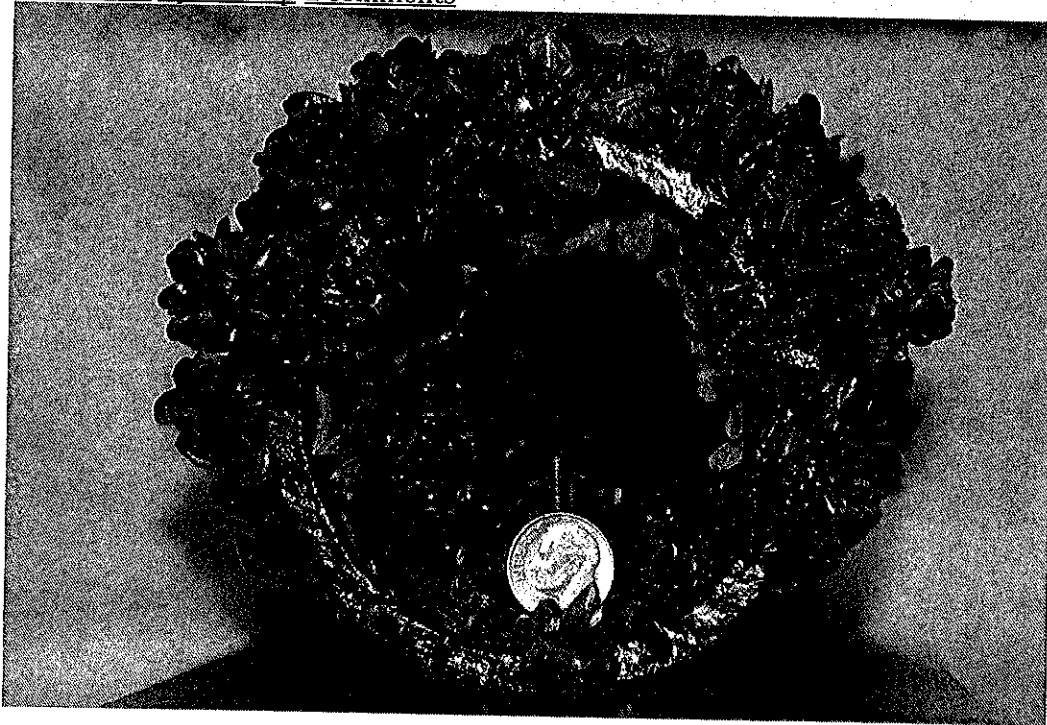
As the pandemic forced families to stay at home, swimming pool demand surged while chlorine production sank. In 2020, pool construction increased by 23% year-over-year with 96,000 pools being built across the US, according to Goldman Sachs.

The supply of chlorine is still being limited by a Louisiana chlorine plant that caught fire last summer, cutting off a large percentage of the nation's chlorine tablet supply.

BioLab Westlake is currently working to repair the plant — estimated to cost around \$170 million. The Chlorine Institute said in a statement that the Louisiana plant will be out of order until 2022.

BOATERS CAN HELP FIGHT SPREAD OF INVASIVE MUSSELS OVER LABOR DAY WEEKEND

September 2, 2021 [Kym Kemp](#) 2 comments



Manmade item encrusted with mussels. [Photo from CDFW]

Press release from the CDFW:

California agencies combatting the spread of invasive quagga and zebra mussels are reminding boaters to remain cautious over Labor Day weekend.

Quagga and zebra mussels are invasive freshwater mussels native to Europe and Asia. They multiply quickly, encrust watercraft and infrastructure, alter water quality and the aquatic food web and ultimately impact native and sport fish communities. These mussels spread from one waterbody to another by attaching to watercraft, equipment and nearly anything that has been in an infested waterbody.

To prevent the spread of these mussels and other aquatic invasive species, people launching vessels at any waterbody are subject to watercraft inspections and are strongly encouraged to clean, drain and dry their motorized and non-motorized boats, including personal watercraft, and any equipment that contacts the water before and after use.

“Adult quagga mussels were discovered in Castaic Lake in Los Angeles County in August 2021. This detection is a reminder of how important it is to clean, drain, and dry your watercraft and equipment after every use to avoid spreading invasive species and help conserve California’s irreplaceable plant, fish and wildlife resources,” said California Department of Fish and Wildlife (CDFW) Invasive Species Program Manager Martha Volkoff.

Take the following steps both before traveling to and before leaving a waterbody to prevent spreading invasive mussels, improve the efficiency of your inspection experience, and safeguard California waterways:

- Clean – inspect exposed surfaces and remove all plants and organisms
- Drain – all water, including water contained in lower outboard units, live-wells and bait buckets, and
- Dry – allow the watercraft to thoroughly dry between launches. Watercraft should be kept dry for at least five days in warm weather and up to 30 days in cool weather.

CDFW has developed a brief video demonstrating the ease of implementing the clean, drain and dry prevention method. Additional information is available on the Division of Boating and Waterways website.

CORRESPONDENCE

Humboldt Bay Municipal Water District

To: Board of Directors
From: John Friedenbach
Date: September 2, 2021

Re: Surface Transportation Board (STB) ruling on Annie & Mary Railroad Line Abandonment

Discussion

Staff has received the attached August 26, 2021 Decision Docket No. AB 1305X issued by the federal Surface Transportation Board regarding possible abandonment of the railroad line between Korblex and Korbel (Annie & Mary line). As mentioned last month, this issue of the status of the railroad's easement near our property at Essex has the potential to affect our License Agreement and proposed Amendment with the North Coast Rail Authority (NCRA) for the new location of our 12kV Switchgear.

The STB has reviewed its documentation and has requested any further documentation relating to this issue from the NCRA. It appears from the ruling that the STB is leaning toward accepting an official abandonment of this railroad line effective 1985. If this is their ultimate ruling, then there will be a legal issue of whether the NCRA had the legal right to request and enter into a license agreement with the District for the new location of the 12kV Switchgear.

Comments on the STB decision are due by September 15, 2021 and replies are due by October 5, 2021.

Recommendation

Staff seeks Board direction on use of special counsel with experience in STB transactions and railroad line abandonments to advise the District on this issue if the STB rules that the Korblex to Korbel portion of the railroad line was in fact abandon in the 1980's to determine the status of the existing License Agreement with the NCRA for the 12kV Switchgear and to assist with the determination does the District own the property in question.

50868
EB

SERVICE DATE – AUGUST 26, 2021

SURFACE TRANSPORTATION BOARD

DECISION

Docket No. AB 1305X

NORTH COAST RAILROAD AUTHORITY
—ABANDONMENT EXEMPTION—
IN MENDOCINO, TRINITY, AND HUMBOLDT COUNTIES, CAL.

Digest:¹ Before taking further action on a notice of exemption for abandonment filed by North Coast Railroad Authority, the Board requests comment on two rail segments related to the line at issue. The Board also denies a request to lift the abeyance and stay orders previously imposed in this proceeding.

Decided: August 25, 2021

On May 14, 2021, North Coast Railroad Authority (NCRA) filed a verified notice of exemption under 49 C.F.R. part 1152 subpart F—Exempt Abandonments and Discontinuances of Service to abandon 175.84 miles of rail line from milepost 139.5 at Commercial Street in Willits, Cal., to milepost 284.1 near Eureka, Cal., including appurtenant branch lines extending to milepost 267.72 near Carlotta, Cal., milepost 295.57 near Korblex, Cal., milepost 300.5 near Samoa, Cal., and milepost 301.8 near Korbel, Cal., in Mendocino, Trinity, and Humboldt Counties, Cal. (the Line).² By decision served on June 9, 2021, the Board held this proceeding in

¹ The digest constitutes no part of the decision of the Board but has been prepared for the convenience of the reader. It may not be cited to or relied upon as precedent. Pol’y Statement on Plain Language Digs. in Decisions, EP 696 (STB served Sept. 2, 2010).

² In a separate docket, NCRA filed a petition seeking exemptions from certain statutory provisions and waivers of certain regulatory requirements regarding a proposed third-party, or “adverse,” application for discontinuance over a portion of the Line. See N. Coast R.R. Auth.—Adverse Discontinuance of Lease & Operating Auth.—Nw. Pac. Ry., Docket No. AB 1313. There, NCRA states that it intends to ask the Board to terminate the operating rights of Northwestern Pacific Railway Company (NWPY) over the portion extending from milepost 142.5, at Outlet Station, to the end of the line at milepost 302.86, at Fairhaven, on the Samoa Branch, including the entireties of the Korblex/Korbel Branch (also referred to as the Arcata & Mad River subsidiary) and the Carlotta Branch. NCRA Pet. 2, N. Coast R.R., AB 1313. Additionally, Northwestern Pacific Railroad Company filed a verified notice of exemption to discontinue service over an approximately 53.5-mile rail line, including an approximately three-mile segment of the Line between milepost 139.5 and milepost 142.5. See Nw. Pac. R.R.—Discontinuance of Service Exemption—in Mendocino Cnty., Cal., AB 1310 (Sub-No. 1X) (STB served Aug. 2, 2021).

Docket No. AB 1305X

abeyance pending further Board order to permit the consideration of whether the Board retains jurisdiction over the portion of line between Korblex and Korbel (the Arcata & Mad River subsidiary). N. Coast R.R. Auth.—Aban. Exemption—in Mendocino, Trinity, & Humboldt Cntys., Cal., AB 1305X (STB served June 9, 2021).³

On June 28, 2021, NCRA filed a request that the Board lift the “abeyances” served on June 9, 2021, and June 11, 2021. On July 6, 2021, Mendocino Railway filed a reply opposing NCRA’s request to lift the abeyances.⁴ For the reasons discussed below, the Board will deny NCRA’s request to lift the abeyance and stay orders imposed in this proceeding and will direct NCRA to provide further comment on the issue related to the Arcata & Mad River subsidiary, as well as on an issue that the Board has identified related to the Samoa branch.

BACKGROUND

NCRA originally acquired the Line in 1992 from the Eureka Southern Railroad (Eureka Southern). See N. Coast R.R. Auth.—Acquis. & Operation Exemption—Eureka S. R.R., FD 32052 (ICC served Apr. 23, 1992).⁵ NCRA now seeks to abandon the Line in its entirety, noting that not only has no local or overhead traffic moved over the Line within the past two years, but also that, since 1998, the Line has been subject to a safety-related emergency order imposed by the Federal Railroad Administration prohibiting railroad operations on the Line. (Verified Notice 1-2.) NCRA simultaneously filed with its verified notice a request for issuance of a notice of interim trail use or abandonment (NITU) to establish interim trail use/rail banking on the Line under the National Trails System Act (Trails Act), 16 U.S.C. § 1247(d). (See Trails Use Request, May 14, 2021.) NCRA states that it intends to preserve the Line for possible future rail reactivation and for use as part of the Great Redwood Trail. (Verified Notice 2.)

NCRA’s proposed abandonment encompasses the Arcata & Mad River subsidiary, which NCRA asserts extends from milepost 295.57 near Korblex to milepost 301.8 near Korbel, a distance of approximately 6.23 miles. (Id. at 1 n.1.) NCRA, however, acknowledges uncertainty about whether that subsidiary is an active line of railroad, and therefore has raised a question about the Board’s jurisdiction over that portion of line. (Id. at 1 n.1; id. Ex. B, Arcata & Mad River Jurisdictional Issue.) NCRA states that the Board’s predecessor, the Interstate Commerce Commission (ICC), authorized abandonment of the Arcata & Mad River subsidiary in 1985. (Verified Notice, Ex. B, Arcata & Mad River Jurisdictional Issue 1); see also Arcata & Mad

³ Consistent with the Board’s June 9, 2021 decision, the Board’s Office of Environmental Analysis served a decision on June 11, 2021, noting that the Draft Environmental Assessment comment period would be stayed until further Board order. N. Coast R.R. Auth.—Aban. Exemption—in Mendocino, Trinity, & Humboldt Cntys., Cal., AB 1305X (STB served June 11, 2021).

⁴ On July 26, 2021, U.S. Representative Jared Huffman filed a letter supporting NCRA’s request that the Board lift the abeyances imposed in this proceeding.

⁵ It does not appear that the Arcata & Mad River subsidiary was included in the acquisition and operation authority sought and granted in 1992 in North Coast Railroad Authority, Docket No. FD 32052.

Docket No. AB 1305X

River R.R.—Aban. Exemption—in Humboldt Cnty. Cal., AB 241X (ICC served Apr. 23, 1985). NCRA argues that, at that time, Eureka Southern expressed interest in, and subsequently purchased, the subsidiary from the Simpson Timber Company. (Verified Notice, Ex. B, Arcata & Mad River Jurisdictional Issue 1.) NCRA states that, thereafter, it purchased Eureka Southern out of bankruptcy in 1992 and that both entities operated the subsidiary for freight rail purposes until 1994. (*Id.* Ex. B, Arcata & Mad River Jurisdictional Issue 1-2.) Accordingly, NCRA argues that evidence concerning the Arcata & Mad River subsidiary is consistent with a determination that the Simpson Timber Company never consummated its abandonment authority, but rather transferred its interests in the Line to Eureka Southern for continued rail operations, which continued under NCRA. (*Id.* Ex. B, Arcata & Mad River Jurisdictional Issue 4.) Thus, NCRA argues that the Board continues to have jurisdiction over this rail segment. (*Id.* Ex. B, Arcata & Mad River Jurisdictional Issue 4-5.) Nevertheless, NCRA asserts that, should the Board “view its jurisdiction as lapsed,” NCRA will seek “private” railbanking. (*Id.* at 5 (citing S. Pac. Trans. Co.—Exemption—Aban. of Serv. in San Mateo Cnty., Cal., AB 12 (Sub-No. 118X) (ICC served Mar. 8, 1991)).)

The Board notes that there appears to be a discrepancy regarding the endpoint of the Line on the Samoa branch. Here, NCRA indicates that it received acquisition and operation authority (and now seeks abandonment authority) on the Samoa branch extending to milepost 300.5. (See NCRA Verified Notice 1, 3); see also N. Coast R.R. Auth., FD 32052, slip op. at 1. However, in North Coast Railroad Authority—Adverse Discontinuance of Lease & Operating Authority—Northwestern Pacific Railway, Docket No. AB 1313, in which NCRA intends to file a petition for “adverse” discontinuance of NWPY’s operating authority on the Line, NCRA’s petition notes that the endpoint of the Samoa branch is milepost 302.86. NCRA Pet. 2, N. Coast R.R., AB 1313. As discussed below, this discrepancy raises the question of whether abandonment of the Line would isolate a segment of track from the interstate rail network, leaving a “stranded segment” between milepost 300.5 and milepost 302.86.

Lastly, in its request to lift the abeyances in this proceeding, NCRA states that Humboldt County and the City of Eureka have requested that the abeyance orders be lifted to avoid the delay of major infrastructure projects of importance to those local jurisdictions. (NCRA Motion 1, June 28, 2021.) NCRA suggests, among other things, that the Board could continue its consideration of its jurisdiction over the roughly 6.23 miles encompassed by the Arcata & Mad River subsidiary, while allowing the notice of exemption and NITU process to take effect for the remainder of the 168.71 miles of rail line. (*Id.* at 7.)

As noted above, Mendocino Railway filed a reply opposing NCRA’s request to lift the abeyances in this proceeding. Mendocino Railway argues that NCRA is seeking to circumvent the offer of financial assistance (OFA) process under 49 U.S.C. § 10904 and 49 C.F.R. § 1152.27(c)(2), noting NCRA’s statement that it “reserves the right to seek dismissal of any OFA which it[] regards as inappropriate.” (Mendocino Ry. Reply 2 (quoting NCRA Verified Notice, Cover Letter 2, May 14, 2021).) Mendocino Railway notes, however, that despite such an assertion, NCRA did not seek waiver from the OFA process and did not elaborate on why an OFA may be inappropriate. (Mendocino Ry. Reply 3.) As such, Mendocino Railway argues that no waiver of the OFA process should be granted. (*Id.*) Mendocino Railway also states that it

anticipates bringing an OFA for all, or a portion, of the rail line proposed for abandonment.⁶ (Id.)

DISCUSSION AND CONCLUSIONS

Jurisdictional Issue: Arcata & Mad River Subsidiary

When a rail carrier that has received authority to abandon a rail line exercises, or “consummates,” that authority, the line is removed from the interstate rail network, and the Board’s jurisdiction over the line terminates. See Hayfield N. R.R. v. Chi. & N.W. Transp. Co., 467 U.S. 622, 633-34 (1984) (consummation of abandonment terminates the agency’s jurisdiction); Baros v. Tex. Mexican Ry., 400 F.3d 228, 234 (5th Cir. 2005) (“Once a rail carrier abandons a line, the line is no longer part of the national transportation system, and the [Board’s] jurisdiction terminates.”).⁷ Invocation of the Trails Act, however, keeps a rail line that has been authorized for abandonment within the Board’s jurisdiction and within the interstate rail network by allowing it to be rail banked and used as an interim trail. See 16 U.S.C. § 1247(d) (providing that rail banked lines “shall not be treated, for purposes of any law or rule of law, as an abandonment of the use of such rights-of-way for railroad purposes”). However, where an abandonment has been consummated, the Board no longer has jurisdiction over a line and cannot consider requests for interim trail use/rail banking under the Trails Act. See, e.g., Iowa Traction Ry.—Discontinuance of Serv. Exemption—in Cerro Gordo Cnty., Iowa, AB 1269 (Sub-No. 1X), slip op. at 3 (STB served Apr. 6, 2020) (finding no jurisdiction to authorize interim trail use/rail banking over an abandoned line); Ill. Cent. Gulf R.R., 5 I.C.C.2d at 1062-63 (same).

Before the Board can act on NCRA’s request for abandonment authority, it must determine whether the Board has jurisdiction over the Arcata & Mad River subsidiary. As noted above, on April 9, 1985, the ICC authorized the Arcata & Mad River Railroad (A&MR) to abandon the Arcata & Mad River subsidiary, which was described as a 7.5-mile line of rail, in Docket No. AB 241X. See Arcata & Mad River R.R., AB 241X, slip op. at 1. NCRA asserts, however, that Eureka Southern subsequently purchased the Arcata & Mad River subsidiary from the Simpson Timber Company, and that NCRA, in turn, acquired the subsidiary when it

⁶ On July 26, 2021, NCRA filed a motion for exemption from the OFA provisions in this proceeding. Mendocino Railway and North Coast Railroad Company, L.L.C. filed replies on August 16, 2021. The Board will address the merits of NCRA’s request in a subsequent decision.

⁷ Prior to a 1996 rule change, in order to determine if a rail carrier had consummated an abandonment, the agency employed a case-by-case evaluation of the facts and circumstances to ascertain whether a rail carrier showed a clear intention to remove the line from the interstate rail network, or if instead the record indicated an intent to preserve the right-of-way for future reactivation of rail service. See, e.g., Ill. Cent. Gulf R.R.—Aban.—in Dewitt & Piatt Cntys., Ill., 5 I.C.C.2d 1054, 1061 (1988) (citing Black v. ICC, 762 F.2d 106, 112-13 (D.C. Cir. 1985)). Since 1996, Board regulations have required that a rail carrier file a notice of consummation with the Board. 49 C.F.R. § 1152.29(e)(2). This consummation notice is now the only definitive, legally recognizable way for a rail carrier to consummate an abandonment. Honey Creek R.R.—Pet. for Declaratory Order, FD 34869 et al., slip op. at 4-5 (STB served June 4, 2008).

Docket No. AB 1305X

purchased Eureka Southern out of bankruptcy. (Verified Notice, Ex. B, Arcata & Mad River Jurisdictional Issue 1.) Thus, NCRA argues that this evidence, coupled with the fact that both it and Eureka Southern operated the subsidiary for freight purposes until 1994, is consistent with a determination that the abandonment was never consummated. (*Id.* Ex. B, Arcata & Mad River Jurisdictional Issue 1-2, 4.)

However, the Board has located a document in its own records that would suggest that abandonment of the Arcata & Mad River subsidiary was consummated. In Arcata & Mad River Railroad, Docket No. AB 241X, in which A&MR received authority to abandon the Arcata & Mad River subsidiary, counsel for A&MR notified the ICC in a letter dated June 6, 1985, that the “applicant railroad has been abandoned.” A&MR Letter 1, June 6, 1985, Arcata & Mad River R.R., AB 241X. The letter further noted that “[i]nstructions have been issued to the tariff publishing agents to cancel the [A&MR’s] participation and to the Association of American Railroads to withdraw the carrier from the interchange and other agreements to which it had been a party.” *Id.* Finally, the letter pointed out that, pursuant to the public use condition imposed by the ICC, “no disposition of the right-of-way . . . will be made before October 23, 1985, unless . . . in the meantime properties were sold to an operating railroad.” *Id.*

This letter from A&MR’s counsel demonstrates A&MR’s clear intention to consummate the abandonment of the Arcata & Mad River subsidiary upon expiration of the public use condition in October 1985.⁸ Although NCRA states that Eureka Southern purchased the Arcata & Mad River subsidiary (and that NCRA, thereafter, purchased Eureka Southern out of bankruptcy), there is no evidence in the current record that sale of the Arcata & Mad River subsidiary to Eureka Southern was ever finalized. Nor has the Board located any records indicating that Eureka Southern, or NCRA, filed for acquisition authority with the ICC for the Arcata & Mad River subsidiary. The Board seeks comment on the June 6, 1985 letter, which is attached to this decision as an Appendix—specifically, why this letter does not constitute conclusive evidence of A&MR’s clear intention to consummate the abandonment of the Arcata & Mad River subsidiary upon the expiration of the public use condition, thereby removing that branch from the interstate rail network and the Board’s jurisdiction. Additionally, the Board requests that the parties submit any documentation showing whether and, if so, when the sale of the Arcata & Mad River subsidiary to Eureka Southern was finalized.

Ownership Issue: Samoa Branch

As described above, there appears to be a discrepancy regarding the endpoint of the Line on the Samoa branch. Therefore, it is unclear who owns the portion of line on the Samoa branch between milepost 300.5 and milepost 302.86 and whether it is part of the interstate rail network. It is well settled that the Board will not allow track to which a common carrier obligation is attached to become isolated from the rail system as a result of the abandonment of an adjoining segment. See Cent. Or. & Pac. R.R.—Aban. & Discontinuance of Serv.—in Coos, Douglas, &

⁸ An outstanding public use condition constitutes a regulatory barrier to consummation. See Providence & Worcester R.R.—Aban. Exemption—in Providence Cnty., R.I., AB 254 (Sub-No. 8X), slip op. at 1-2 (STB served Apr. 28, 2006).

Lane Cnty., Or., AB 515 (Sub-No. 2), slip op. at 12 (STB served Oct. 31, 2008). Thus, the Board requests comment on the status of the rail segment between milepost 300.5 and milepost 302.86, including whether NCRA owns that portion of line, whether it is part of the interstate rail network, and any other relevant information.⁹

Request to Lift the Abeyance Orders:

Finally, the Board will deny NCRA's request that the Board lift the abeyance and stay orders imposed on June 9, 2021, and June 11, 2021. The Board will deny this request in order to receive comment on the issues identified above and avoid potentially authorizing abandonment over a portion of line not within the interstate rail network and therefore outside of the Board's jurisdiction (the Arcata & Mad River subsidiary) or potentially stranding an active segment of rail line or failing to fulfill the Board's environmental and historic review responsibilities (the Samoa branch).¹⁰ Therefore, the Board invites the filing of comments (and any relevant supporting evidence) concerning the issues and information discussed above by September 15, 2021, and replies are due by October 5, 2021.

⁹ In North Coast Railroad Authority, Docket No. AB 1313, NCRA asserts that environmental and historic review is unnecessary because NCRA has no intention of salvaging the Line or disrupting any potentially historic structures on the Line. NCRA Pet. 10, N. Coast R.R., AB 1313. NCRA also notes in its adverse discontinuance petition that it circulated an environmental and historic report in this proceeding for its rail lines extending from milepost 139.5 in Willits to the end of the Line at Samoa, including the Korplex/Korbel and Carlotta branches. NCRA Pet. 2 n.1, N. Coast R.R., AB 1313. Because environmental review would occur during any subsequent abandonment proceeding, the Board does not typically require such a review for discontinuance proceedings. See 49 C.F.R. §§ 1105.6(c)(5), 1105.8(b); see also Mission Mountain R.R.—Discontinuance of Serv. Exemption—in Flathead Cnty., Mont., AB 1009 (Sub-No. 2X), slip op. at 1 (STB served Apr. 21, 2020). However, in cases where a discontinuance would leave no underlying rail carrier subject to the Board's jurisdiction on the line, the Board will typically conduct an environmental and historic review. See e.g., Cincinnati, New Orleans & Tex. Pac. Ry.—Discontinuance of Serv. Exemption—in Scott Cnty., Tenn., AB 290 (Sub-No. 354X), slip op. at 2 (STB served June 12, 2015). In addition to addressing the issue with the stranded segment between milepost 300.5 and milepost 302.86, the Board must ascertain the owner of that segment to ensure that the Board is fulfilling its environmental and historic review responsibilities.

¹⁰ Further, having the Board continue to consider its jurisdiction over the Arcata & Mad River subsidiary, while otherwise allowing the notice of exemption to take effect for the remainder of the Line, as NCRA has suggested, would not resolve the potential stranding and environmental issues on the Samoa branch. Moreover, authorizing abandonment of the Line, other than the Arcata & Mad River subsidiary, could potentially strand the Arcata & Mad River subsidiary itself to the extent it has not already been abandoned.

It is ordered:

1. Comments on the issues discussed and information contained in this decision are due by September 15, 2021, and replies are due by October 5, 2021.

2. NCRA's request to lift the abeyance and stay orders served on June 9, 2021, and June 11, 2021, is denied.

3. This decision is effective on its service date.

By the Board, Board Members Begeman, Fuchs, Oberman, Primus, and Schultz.

Appendix

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RICHARD L. SCHAEFFER

June 6, 1986

WRITER'S DIRECT DIAL NUMBER
(202) 775-1084

NOT ADMITTED IN THE DISTRICT OF COLUMBIA
PRACTICE LIMITED TO FEDERAL MATTERS

Hon. James H. Bayne
Secretary
Room 1312
Interstate Commerce Commission
Washington, D.C. 20423

Dear Secretary Bayne:

With reference to the decisions of the Interstate Commerce Commission in Docket No. AB-241X Arcata and Mad River Rail Road Company--Abandonment Exemption--In Humboldt County, CA, served April 23 and June 4, 1985, please be advised that the applicant railroad has been abandoned.

Instructions have been issued to the tariff publishing agents to cancel the AMR's participation and to the Association of American Railroads to withdraw the carrier from the interchange and other agreements to which it had been party.

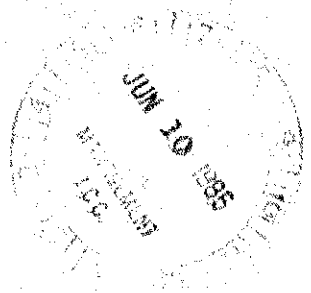
Pursuant to the public use condition imposed by the Commission, no disposition of the right-of-way within Blue Lake, California will be made before October 23, 1985, unless, of course, in the meantime the properties were sold to an operating railroad.

If you have any question concerning the foregoing advice or if I otherwise can be of assistance, please let me know.

Sincerely yours,

Fritz R. Kahn
Fritz R. Kahn

cc: Joseph Breed, Esq.
Counsel for all parties



Quagga Mussel Discovery at Castaic Lake: Boating Requirements Implemented

Published: Aug 30, 2021

SACRAMENTO, Calif. – The California Department of Water Resources (DWR) will begin implementing additional boating requirements at Castaic Lake in Los Angeles County due to the recent discovery of invasive quagga mussels.

The discovery of quagga mussels means DWR must implement measures to prevent their spread, including requiring boats to be inspected and drained upon leaving Castaic Lake and Castaic Lagoon. While mussels have not been detected to date in Castaic Lagoon, they are presumed to be present since the lagoon receives water from Castaic Lake.

DWR and California Department of Fish and Wildlife (CDFW) staff discovered two quagga mussel shells on August 17, 2021, at Castaic Lake. Earlier in the month, a park visitor reported finding a live mussel in the lake. DWR and CDFW have not detected larval “veliger” stage mussels in Castaic Lake during routine monitoring. CDFW and DWR plan to continue monitoring Castaic Lake and Lagoon, and plan to increase monitoring in the Lagoon and Castaic Creek.

Quagga mussels, which are small, non-native freshwater mollusks, were first discovered in the Colorado River and in California in 2007. In 2016, they were found in Pyramid Lake, the Angeles Tunnel, and Elderberry Forebay. The mussels can be a threat to California’s native species and can clog water systems, colonize hard surfaces, alter food webs in ecosystems, and damage boat engines.

Boats are required to be inspected by the Los Angeles County Department of Parks and Recreation before leaving Castaic Lake and all water must be drained from outboards, bilges, live-wells, ballast tanks, bait buckets and any other areas containing lake water. Boats must still pass an entrance inspection and be clean, drained, and dry to be allowed to launch. Entrance inspections are still required because they prevent additional invasive species introductions.

Boats departing Castaic Lake will receive a tag indicating they were last used in a waterbody containing mussels. Tags will allow entry of boats at Pyramid and Castaic lakes without having to be reinspected since both lakes are classified as infested with quagga mussels. After boating in an infested lake, boat owners may experience restrictions or extended dry out periods before visiting another waterbody. Boaters are advised to contact the waterbody destination to be informed of any inspection requirements before their arrival.

Transportation or possession of live or dead quagga mussels, including water that may contain their microscopic larvae, is a violation of Fish and Game Code 2301 and CDFW has authority to take enforcement action.

For additional boat cleaning guidelines, go to [A Guide to Cleaning Boats \(ca.gov\)](#) or [DWR's Quagga Mussels: Clean, Drain, and Dry video](#).

Contact:

Maggie Macias, Information Officer, Public Affairs, Department of Water Resources
(916) 820-7662 | maggie.macias@water.ca.gov

###

CONTINUING BUSINESS

HUMBOLDT BAY MUNICIPAL WATER DISTRICT

To: Board of Directors
From: John Friedenbach
Date: September 1, 2021
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**

i) Nordic Aquafarms – They are moving forward with permitting. District Staff received a request to modify our “will serve” letter that we had submitted to the Humboldt County Planning Department. Nordic requested that we analyze the following water demands for their project. Domestic demand increase from 300,000 gallons per day to 502,000 gallons per day and Industrial water demand decrease from 3 MGD to 2.0 MGD. Staff requested GHD utilize the revised domestic water demand through their water model for our transmission system on the Samoa Peninsula. GHD confirmed that our domestic system does have the capacity to deliver the requested 502,000 gpd. The industrial system decrease is also within that system’s delivery capacity. See the attached August 14th letter to Humboldt County Planning Department.

ii) Trinidad Rancheria mainline extension. Staff met with the Rancheria staff and the Indian Health Services Senior Environmental Engineer to discuss the planning grant that was awarded by IHS for the mainline extension agreement. Staff will update the Board if any other news develops.

b) Transport

Per the Board's request at the August meeting, staff drafted and sent a letter to our local federal and state elected officials regarding the District's transport option.

c) Instream Flow Dedication

Director Fuller has been invited to present our instream flow project status to the Humboldt Bay Symposium on September 28th and 29th. The committee has been working on the presentation content.



SECTION 8.1a PAGE NO. 1
HUMBOLDT BAY MUNICIPAL WATER DISTRICT

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GENERAL MANAGER

JOHN FRIEDENBACH

August 14, 2021

VIA EMAIL: asuarez@co.humboldt.ca.us

Alyssa Suarez

Planner

Humboldt County Planning Department

3015 H Street

Eureka CA 95501

Re: Project #: Update

PLN-2020-16698

Nordic Aquafarms California, LLC

APN: 401-112-021

Dear Ms. Suarez,

I am writing regarding the above referenced project application by Nordic Aquafarms. This letter is to inform your department that an updated water analysis has been performed by our agency, Humboldt Bay Municipal Water District, the domestic and industrial water provider to the above referenced project parcel.

Although a specific project analysis was not conducted as part of our District's 2015 Urban Water Management Plan, as stated in our plan:

"Overall, water supply and demand are projected to be of low to moderate vulnerability of climate change in the north coast region in general, and even less so in the Mad River watershed. The Mad River watershed is rainfall-dominated (little to no snowpack), and annual demand on water supplies available from the watershed are typically well below 10% of mean runoff. As noted in Section 3.3.1, HBMWD has estimated that demand up to 36 MGD (compared to a current annual average usage of 10 MGD) could be met reliably, even if the unprecedented condition of continuous hydrology similar to the 1976-77 drought occurred."

Nordic Aquafarms has informed us that their updated peak domestic potable water demand is 300,000 502,000 gallons per day. This volume is within our available capacity to reliably deliver domestic potable water to their project.

In addition to domestic water, Nordic Aquafarms has requested industrial (non-treated) water from our District. Nordic has informed us that their updated industrial water maximum demand will be 3.2 million gallons per day. Our industrial system is designed to deliver a maximum capacity of 75 million gallons per day and consistently delivered 65 million gallons per day while the two former pulp mills resided on the Samoa Peninsula (both of which have closed). Consequently, our District has sufficient capacity and ability to provide Nordic Aquaculture's project with 2 million gallons per day of industrial water. (3.1 % of previous volume supplied).

Therefore, we confirm Humboldt Bay Municipal Water District's ability to provide domestic potable water of 502,000 gallons per day and industrial non-potable water of 2 million gallons per day to the Nordic Aquafarms California, LLC project located on APN 401-112-021.

If you have any questions or need any additional information please do not hesitate to contact us.

Respectfully,

A handwritten signature in blue ink that reads "John Friedenbach". The signature is fluid and cursive, with the first name "John" being particularly prominent and stylized.

John Friedenbach
General Manager

Cc: David Noyes, Nordic
Scott Thompson, Nordic
Nathan Stevens, GHD



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GENERAL MANAGER

JOHN FRIEDENBACH

September 2, 2021

Congressman Jared Huffman
317 Third Street, Suite 1
Eureka, CA 95501

State Senator Mike McGuire
1036 5th Street, Suite D
Eureka, CA 95501

Assembly Member Jim Wood
1036 5th Street, Suite D
Eureka, CA 95501

Re: Available Water Supply

Gentlemen,

Our board of directors has requested that I write to you during this time of drought to remind you of our water district's unique water supply and their support for water transfer. Given the current discussions at the federal and state legislatures regarding infrastructure and the need for additional water throughout the state of California, we want to remind you of our local water supply situation.

HBMWD is a regional water supplier that provides drinking water on a wholesale basis to seven municipal agencies located in and around Eureka, California. HBMWD's current average annual municipal demand is approximately 10 million gallons per day (MGD). Up until 2010, HBMWD also supplied up to 60 MGD of untreated water to two large industrial customers – pulp mills who converted wood waste generated by the timber industry into a useful product.

The District owns and operates Ruth Lake, located in the upper watershed on the Mad River. Ruth Lake was designed to provide 75 MGD, and the District maintains water rights which support that amount. The water supply is of high quality and is very reliable given the region's abundant rainfall.

The District finds itself in a somewhat unique situation among California water agencies. Our Ruth Lake reservoir has once again filled to capacity during the winter and we have excess water supply. However, we are isolated from both the federal and state water systems and our excess water goes to the Pacific Ocean. We respectfully request that you keep these facts in mind when you are discussing possible infrastructure and water supply solutions to your constituents in California.

You may recall from previous conversations that our district was one of the first water districts in California to have an approved Habitat Conservation Plan (HCP) for our operations on the Mad River. Our HCP has been in place since 2004. In addition, as a component of our Water Resource Planning efforts, we are currently pursuing an Instream Flow dedication for a portion of our water rights to maintain and enhance the environmental habitat along the Mad River.

Our directors respectfully request a meeting to discuss our unique situation with you at your convenience. Attached for your reference is our "term sheet" for our transport utilization of our excess water rights.

If you have any questions, please do not hesitate to contact us.

Respectfully,



John Friedenbach
General Manager

Term Sheet
Transfer of Water
by
Humboldt Bay Municipal Water District

1. *Term*

The District is contemplating a long-term (30-40 years) transfer of water. The District proposes two periods. An initial period (5-10 years) would be spent conducting necessary studies, obtaining all necessary regulatory approvals, performing the needed environmental review under NEPA and CEQA, and constructing required infrastructure. The main term of the agreement (25-30 years) would allow the parties to finance and amortize any infrastructure needed for the proposed transfer. The District is also willing to consider a limited number of subsequent terms (perhaps 5-10 years each), subject to the demand for water within Humboldt County and other factors.

2. *Price and Quantity of Water*

The District is exploring transferring up to 30 to 40 million gallons per day (MGD) (34,000 to 45,000 acre-feet per year) of raw water in 5 MGD increments. External factors may limit the maximum amount of water that may be transferred. The quantity of water could vary with hydrologic conditions and/or demands within the purchasing agency or within the District.

The purchasing agency will need to pay a per unit price that at least covers: (i) the District's fixed and variable costs to provide that water through its Surface Water System, (ii) a contribution to the cost of the District's regional water systems in Trinity and Humboldt Counties which supplies water to and directly supports the Surface Water System, and (iii) an additional increment to compensate the District for use of the water outside Humboldt County. The purchasing agency will also need to pay the costs of transporting water from Eureka to its service area. Finally, the parties will need to negotiate an initial payment to the District and an allocation of the costs of regulatory compliance and permitting.

3. *Other Considerations*

The District will give preference to working with agencies that: (i) do not intend to use the transfer water as "base load" to support new development, and (ii) are in compliance with the provisions of SB 7x7. If multiple proposals are received, the District may also consider and give preference to agencies that seek to use the transferred water, either directly or via an exchange, to address problems of groundwater overdraft or to provide water for instream flows/environmental enhancement.



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GENERAL MANAGER

JOHN FRIEDENBACH

September 3, 2021

Ms. Meredith Williams

Ms. Nicole Yuen

Department of Toxic Substances Control

700 Heinz Avenue

Berkeley, CA 94710

RE: McNamara & Peepe Lumber Mill Site Investigations and Remediation

Dear Ms. Williams and Ms. Yuen,

We are writing to provide comments regarding SHN's groundwater analytical results from samples taken on March 5, 2021 in the Draft report provided to the District. The District appreciates your providing the Draft Report while we wait for it to be finalized, and your consideration of its concerns related to the potential for contamination arising from the former McNamara and Peepe Lumber Mill Site (Site) to migrate into the Mad River and contaminate the District's water supply for 88,000 people in Humboldt County. The Report documents the collection of groundwater samples from eight locations on and off the Site. The results of the sampling were tabulated in the Report (Table 2) as follow.

**Table 2. Groundwater Analytical Results, March 5, 2021
Former McNamara and Peepe Lumber Mill, Arcata, California**

Sample Location	2,3,7,8-TCDD ^a (pg/L) ^b	2005 WHO TEQ ^c (pg/L)	PCP ^d (ug/L) ^e	TCP ^d (ug/L)
MW-1	<0.941 ^f	93.6	460	5.6
MW-5	<0.622	0.0361	18	0.81 J ^g
MW-7	NA ^h	NA	<0.30	<1.0
MW-8	NA	NA	<0.30	<1.0
MW-9	NA	NA	<0.30	<1.0
MW-10	<0.539	0.0438	<0.30	<1.0
MW-11	NA	NA	<0.30	<1.0
MW-12	<0.542	0.0284	120	<1.0
Dup (MW-10)	<0.601	0.0396	<0.30	<1.0
MCLⁱ	30	NR^j	1.0	NR
PHGs^k	0.05	NR	0.3	NR

^a 2,3,7,8-TCDD: 2,3,7,8-Tetrachlorodibenzodioxin was analyzed in general accordance with EPA Method 8290

^b pg/L: picograms per Liter

^c 2005 WHO TEQ: 2005 World Health Organization's Toxic Equivalency Factor

^d Pentachlorophenol (PCP) and 2,3,4,6-Tetrachlorophenol (TCP) were analyzed in general accordance with National Council for Air and Stream Improvement, Inc. Method 86.07.

^e ug/L: micrograms per liter

^f <: "less than" the stated method detection limit

^g J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

^h NA: not analyzed

ⁱ MCL: maximum contaminant level, State Water Resources Control Board (March 13, 2019).

^j NR: no reference

^k PHGs: California public health goals, Office of Environmental Health Hazard Assessment (March 13, 2019).

The results were summarized in the Report as follow.

5.0 Summary of Results

The results of the March 5, 2021 groundwater monitoring event at the former McNamarra and Peepe mill are summarized below.

- 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD) was not detected at concentrations above laboratory detection limits in any samples collected during the sampling event.
- Chlorinated Phenols:
 - PCP was detected at concentrations exceeding the state maximum contaminant level (MCL) of 1 ug/L in MW-1, MW-5, and MW-12.
 - The maximum concentration of PCP detected in groundwater was in well MW-1 at a concentration of 460 µg/L.
 - TCP was detected in well MW-1 at a concentration of 5.6 µg/L and in well MW-5 at 0.81 µg/L (estimated concentration below the laboratory reporting limit, but above the method detection limit).
 - Chlorinated phenols were only detected in groundwater from wells directly adjacent to and downgradient from the cap. No chlorinated phenols were identified in wells located further downgradient of the cap (MW-10 and MW-11).

While 2,3,4,8-TCDD was not detected at concentrations above laboratory detection limits, there were significant findings of other dioxin compounds as shown in the results under the 2005 WHO TEQ column. MW-1 in particular, with a World Health Organization's Toxic Equivalency Factor of 93.6pg/L is alarming, especially with the recent surface water sampling results showing dioxins being transported off site. The report highlights the consistency of these findings with historical data, which is also extremely concerning as it shows a steady flow of contamination off Site, and years of inadequate action to address it.

With respect to investigation and remediation activities at the Site, the District understands that DTSC seeks to formulate a cost-effective remediation plan based on current contaminant levels in surface and ground water. While the District appreciates these efforts, we remain very concerned that contamination has potentially left the original Site and may be migrating into the Mad River. Given the continued findings of dioxin, TCP, and PCP in groundwater downgradient of McNamara and Peepe, additional sampling needs to be conducted by DTSC to fully characterize the extent of the contamination and ensure protection of HBMWD water supply wells, located in the floodplain of the Mad River approximately one mile downgradient, and to ensure protection of aquatic habitat.

Specifically, the District requests that DTSC conduct, at its expense, additional quarterly sampling until an effective rededication plan is formulated and successfully completed.

- Sampling needs to be conducted further downstream in both surface water and sediment to identify how far downgradient (and toward the Mad River) dioxins are moving. DTSC has a voluntary agreement with the owners of the McNord Lumber Mill site on the south side of Glendale Drive where the runoff is directed from McNamara and Peepe towards Hall Creek and then the Mad River. Sampling needs to be conducted quarterly to determine any seasonal variability.
- Sampling the water in wells that supply HBMWD customers should be conducted quarterly.
- Sampling sediment in both Hall Creek (away from power poles) and Mad River ought to be a priority - not just for protecting drinking water, but also for aquatic species. Sediment sampling should also be conducted on sediment recovered from the District's Turbidity Reduction Facility. Sediment sampling should be conducted on a quarterly basis.
- Environmental screening levels for aquatic species should be considered for comparison to the sampling results of water and sediment as well as the maximum contaminant levels and public health goals for drinking water.
- Have SHN include a map of both surface water and ground water sample and contamination locations in reports. Additionally, we request that you have SHN include TEQ's in all analytical result tables.

In our meeting with DTSC on March 19th, you committed to the following:

- You offered a timeline to conduct a benchtop study and pilot study this year. (**is this on track?**)
- Benchtop was to happen this summer. (**what is the status?**)
- Promised a public meeting about this matter. (**when will this be scheduled?**)
- Prioritizing the site for clean up if there was a release to surface water. (**which now has been documented**)
Have you prioritized the site for clean up?

The TEQ levels in MW-1 have been increasing dramatically since 2005. This clearly indicates that the contamination is migrating off the site and is at contamination levels that need to be remediated immediately.

Thank you for your time and attention to this matter. We invite your staff to attend our September 9th board meeting at 9:15 a.m. to discuss your plans for this site with our directors. Please do not hesitate to contact us with any questions or concerns.

Respectfully,

 COPY

Neal Latt,
Board Vice-President

CC: Meredith Williams, Director, DTSC
Humboldt County Board of Supervisors
Humboldt Baykeeper
Office of Governor Gavin Newsom
Jim Wood, Assemblymember, District 2

North Coast Regional Water Quality Control Board
John Ford, Director, Humboldt County Planning & Building
Grant Cope, Deputy Director, DTSC
Mike McGuire, Senator, District 2
California Department of Fish and Wildlife

Humboldt Bay Municipal Water District

To: Board of Directors
From: John Friedenbach
Date: September 2, 2021

Re: Correspondence from Lease Lot Holder 39H – Rick Petrusha

Discussion

At the August Board meeting, Lease Lot 39H holder, Rick Petrusha, requested that the District review the impact of the salvage logging operations on his lease lot at Lonesome Way. Subsequent to the meeting, Mr. Petrusha sent the attached email to me. District staff, General Manager, Business Manager, Emergency Watershed Restoration Supervisor, Ruth Area Representative all visited Lease Lot 39H to inspect it. Staff acknowledges that some of the logs that were removed from other lease lots in the vicinity were processed on Lease Lot 39H. There were some trees that were removed directly from other lease lots in the vicinity. In staff's estimation, 75% of the trees processed on Lease Lot 39H were from that lot.

Mr. Petrusha informed me that he would not be able to attend our September 9th meeting due to a scheduling conflict. Staff suggests that we continue this item until he can be present to participate.

Recommendation

Staff does not have a specific recommendation. However, we are guided by our District Mission and the primary purpose of Ruth Lake which is to impound water for domestic and industrial use in Humboldt County. As stated in the Master Lease with Trinity County / assigned to Ruth Lake CSD, recreational use of Ruth Lake is secondary.

John Friedenbach

From: Rick Petrusha <rick@advancedsecurity.us>
Sent: Monday, August 23, 2021 4:25 PM
To: friedenbach@hbmwd.com; Angela Petrusha
Subject: Lot 39H Petrusha Lease Lot
Attachments: 39H Petrusha lease lot photo of buried septic and power line.pdf; 39H Petrusha Lease lot photo of front yard area.pdf; 39H Petrusha lease lot photo of building site.pdf; 39H Petrusha lease lot photo of markings.pdf; 39H Petrusha lease lot photo of markings # 2.pdf

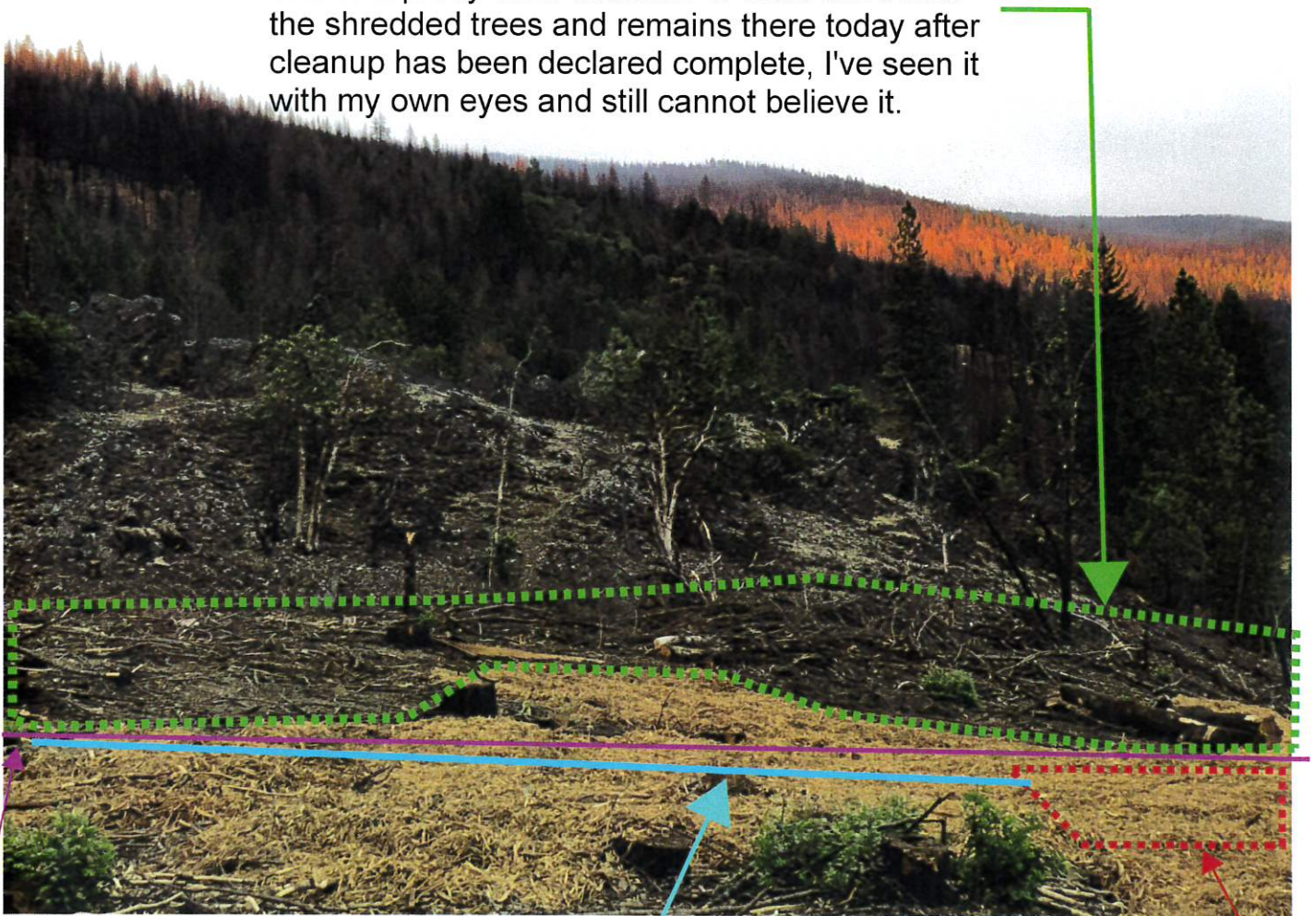
John,

Thanks for the conversation this morning, I have cc'd Angela on this email to keep her in the loop as well, we both love our spot at Ruth Lake. I am hopeful that the attached photographs and descriptions will be helpful in understanding our frustrations and encourage Humboldt Bay Municipal Water District to have our lot cleaned up properly. As mentioned, I believe the majority of the trees that were logged on Lonesome Way were skidded up to our lot and shredded. The skid roads that were made between our lot and the ones below us are pretty evident as well as the enormous amount of shredded trees on our lot and the lack of shredded trees on lots below us. When the trees were decked on our lot we were given the choice of having them removed or having them shredded, I let Adam know that we wanted them removed because we do not want shredded trees scattered around to deal with for the rest of our life. Adam agreed. We (Adam and I) were both quite shocked when I showed up two weeks later to find the massive amount of shredded trees and the total devastation of ALL of the underground utilities and septic tank that were clearly marked for protection. Furthermore, I find it humorous (not really funny) that I contacted your office to have the erosion control waived and the paperwork was filled out and sent in only to show up again this last weekend to find that they had applied the erosion control agent and one straw waddle on our building site. Not really a big deal, just another example of expecting one thing and having the outcome be the total opposite. It seems as if there is a total failure of communications to the contractors doing the work or the contractors just do not care. I don't see how anyone can look at our lot in good faith and say that the cleanup is complete. As you know we are coming up on the one year anniversary of losing our precious cabin, and we are very eager to begin the construction of our new cabin. It has been very troubling and expensive (paid in full lease lot fees, paid in full insurance coverage, paid in full property taxes) waiting for approval to rebuild. We currently have approval from Humboldt Bay Municipal Water District, Ruth Lake Community Services District, and Trinity County Building Department and we are ready to go. I would really appreciate having our lease lot cleared of all of the shredded trees and slash as soon as possible and I would also like to know who is responsible and how to proceed on getting all of our utilities and possible septic tank repaired. Sorry for the lengthy email but I feel that you and your board need to understand what the leaseholders are having to deal with. Please let me know soon if you have any questions or what actions are going to be taken to correct our situation.

Thanks for your help,

Rick Petrusha

This is a pretty clear indicator of what lies below the shredded trees and remains there today after cleanup has been declared complete, I've seen it with my own eyes and still cannot believe it.



Underground electrical service found ripped up and completely destroyed. After the fire and previous to any logging and cleanup activities, I located the underground electrical feed at the cabin site and down the hill at my power pole. The underground wiring would have been re-usable until it was completely ripped up.

Septic tank, which was clearly marked out, completely buried with 3-5 feet of slash and shredded trees. I will consider it lucky if septic tank is not completely destroyed.

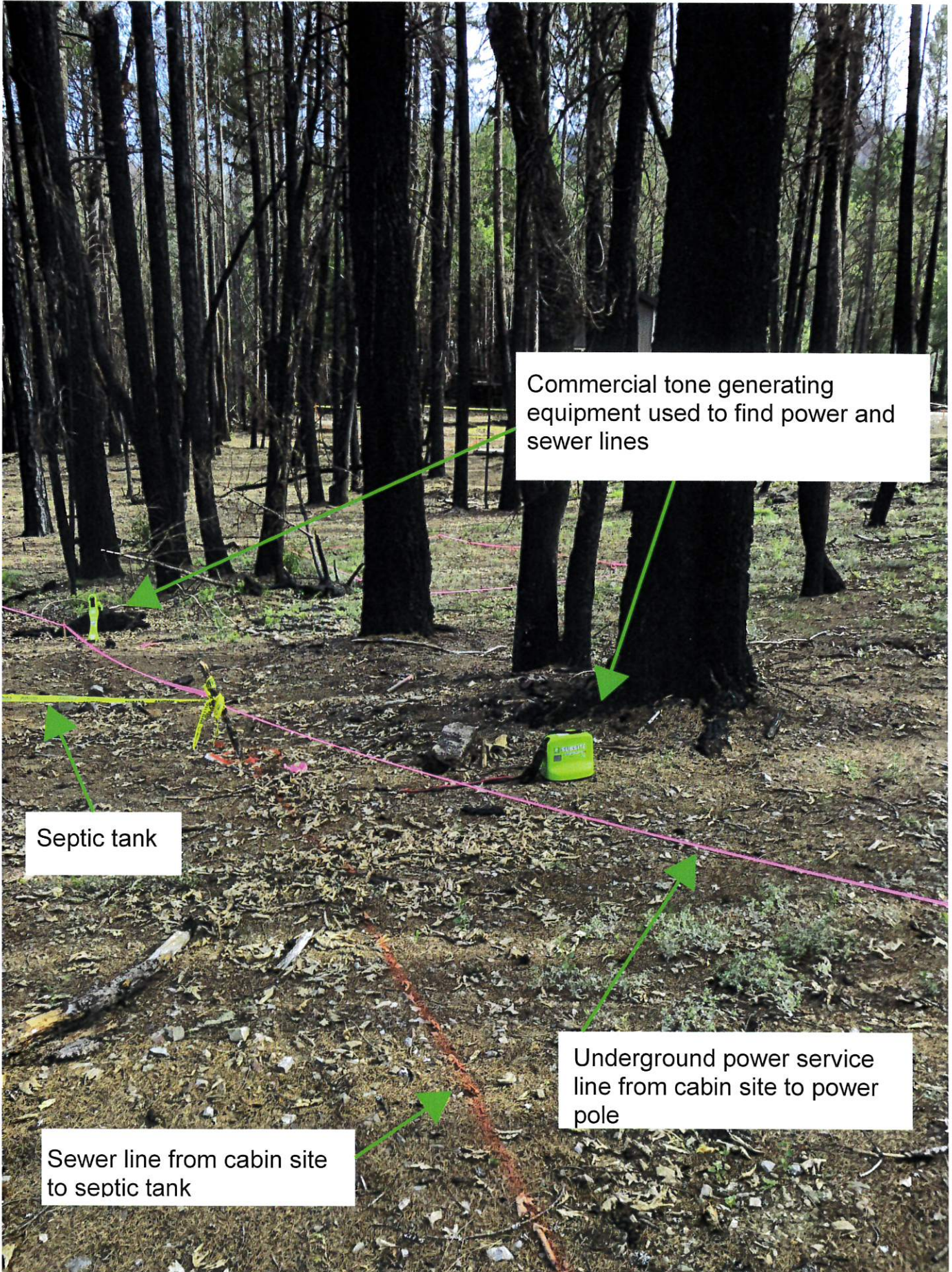
Sewer line from cabin site to septic system completely ripped out of ground and destroyed, I had it clearly marked post fire and before logging and cleanup activities.



At first glance one might think this looks OK, but in reality there is an average of 1-3 feet of shredded trees and under the shredded trees is the slash and stumps that were buried (major fire hazard). When the trees were cut, skidded to our lease, and in a huge pile, I was asked if I would prefer them hauled off or shredded? My response was very clear, please haul them off. This is the front yard of my lease which has always been raked and kept very clean, now you will break your ankle walking across it. Replacing the destroyed water line from our new cabin to our new water tank will require a new ditch under all of this mess. Installing a new water tank will require the removal of the shredded trees which were supposed to be hauled off in the first place.



This photograph is an example of what is buried under the shredded trees, slash that should have been cleaned up. I paid \$1000.00 dollars to a contractor to move the shredded trees from our building site in order for CAL OES to re-test and re-scrape if necessary. What a surprise I found under the shredded trees. Nothing should have been placed on the building site to begin with as CAL OES had not cleared the building site as "Clean".



Commercial tone generating equipment used to find power and sewer lines

Septic tank

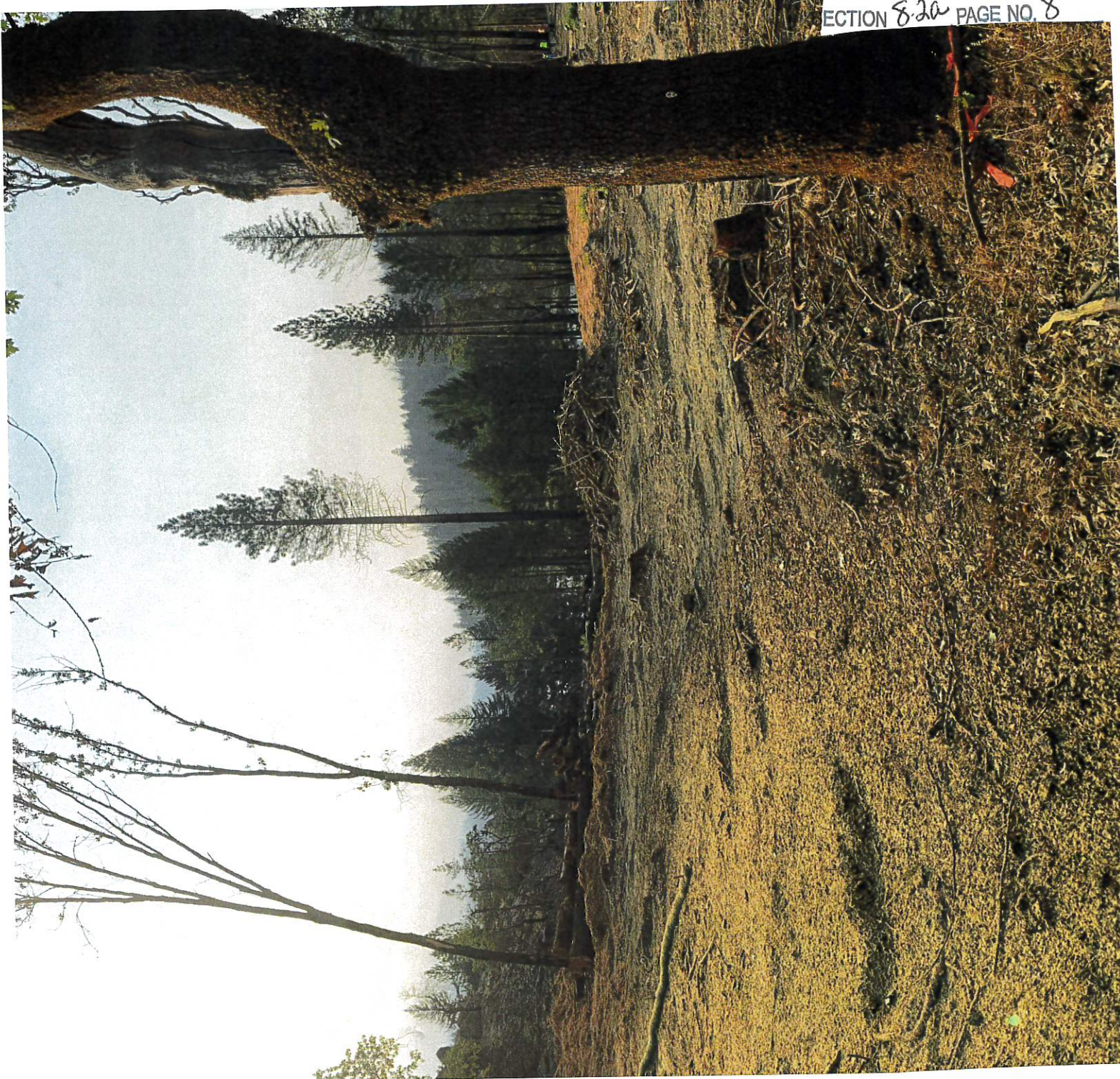
Underground power service line from cabin site to power pole

Sewer line from cabin site to septic tank



Septic tank markings

This is what the forest ground used to look like even after the fire.



HUMBOLDT COASTAL RESILIENCY PROJECT
AND
CLIMATE READY PROJECT



SUMMARY DATA FOR CROSS-SHORE TRANSECTS
WINTER 2016-SUMMER 2020

Andrea Pickart and Candace Reynolds, U.S. Fish and Wildlife Service,
and Ian Walker, U.C. Santa Barbara

July 2021

Full Report at: www.hbmwd.com/reports-resources

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Introduction

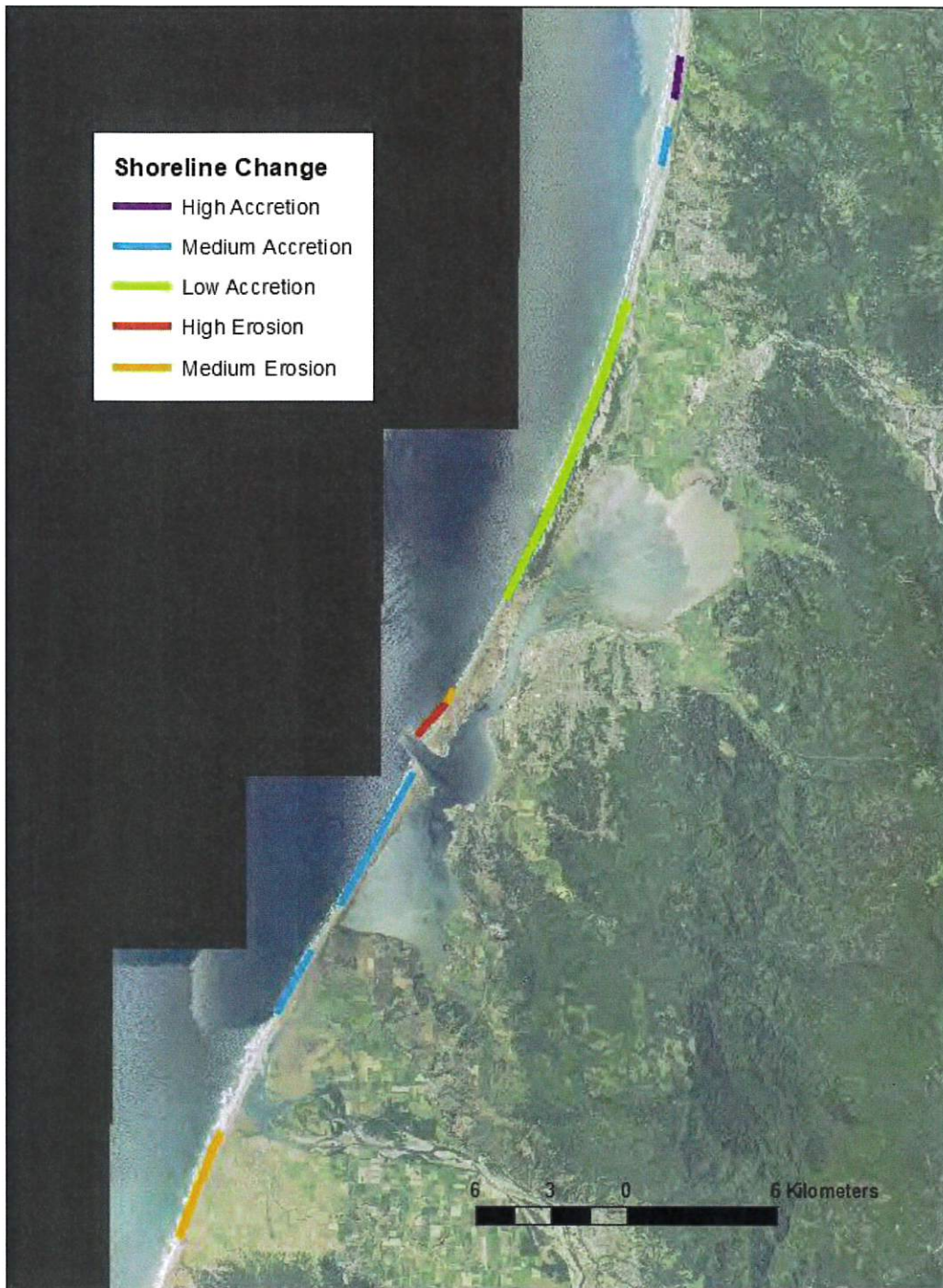
Sea level rise and/or extreme events are capable of causing excessive erosion on the beaches and foredunes that line the outer edges of the barriers enclosing Humboldt Bay and the Eel River delta within the Eureka littoral cell. Erosion of these protective barriers threatens the natural and cultural resources and infrastructure behind them in two significant estuaries. A major goal of the Climate Ready Project and the Humboldt Coastal Resilience Project was to quantify present day beach-dune morphodynamics, which could then be used to model the impacts of sea level rise and extreme events. For this purpose, a total of 73 cross-shore transects were established along the littoral cell. Elevation and vegetation data collected on transects will be used in a quantitative model to predict beach, dune and barrier responses to sea level rise and extreme events. The purpose of this report is to present raw data in the form of graphs of elevation change along transects as the basis of qualitative observations of response during the period of data collection, 2016-2020. The primary audience is property owners within the study site. Conclusions of this report are based on qualitative analysis and may change when modeling is completed.

Methods

Transects were located along the extent of the Eureka littoral cell, from Little River to Centerville. Transect sites were chosen to encompass variation in beach/dune morphology and dominant vegetation. Data collected along transects included elevation, dominant vegetation, and mean vegetation height. Benchmarks were established along the littoral cell, and transects were assigned a parent-child relationship with benchmarks, allowing missing benchmarks or transects to be relocated if needed. A base station was set up for each set of associated transects, and an RTK GPS was used to measure elevations at 2-4 m intervals. A vegetation sampler followed behind the GPS rover and took a vegetation sample surrounding the elevation point. Vegetation results are not covered in this report. Photopoints were taken at geomorphic landmarks including upper beach, foredune base, foredune crest, and scarps when they appeared. Transects were measured twice per year, in winter and summer, from winter 2016 through summer 2020. The Lanphere-Ma-le'l transects had begun earlier in 2012 and the start date transect is included in this report as it informs longer term trends.

Results by Site

This section contains graphs of all transects, organized by property ownership, which generally reflects consistent management. A map of transects is provided using NAIP 2016 imagery as a base map. Two graphs are shown for each site. The first (top) graph includes all dates of the surveys. The second (bottom) set shows only Summer 2016 and Summer 2020 as an indication of net changes in volume of sediment along the transect. All graphs have the same x axis range (0-14 m NAVD 88), but horizontal axes and therefore vertical exaggeration differs. Transects are presented from north to south. A summary of results is provided at the end of each site section. A map of long-term shoreline change for the littoral cell is presented below.



HISTORIC SHORELINE CHANGE MAP. This map illustrates historic change in shoreline position from 1939/1948 through 2016 based on McDonald (2017) and GHD (2017).

Ma-le'l South (BLM)



Friends of the Dunes



Manila Community Services District



Samoa Pacific



State of California
Natural Resources Agency
Department of Water Resources
Division of Regional Assistance

2021
GUIDELINES
for the
SMALL COMMUNITY DROUGHT RELIEF PROGRAM



Funded by:
GENERAL FUND PURSUANT TO THE BUDGET ACT OF 2021

Foreword

This document contains the California Department of Water Resources' (DWR's) Small Community Drought Relief Program Guidelines (Guidelines). The Program is funded by the Budget Act of 2021 (Stats. 2021, ch. 69, § 112). This document is a standalone document intended to provide the required information for grant applicants. Potential applicants are encouraged to read the entire document prior to submitting their application.

This document contains the procedures for submitting applications for grant funding. All qualified, and interested parties are encouraged to submit a grant proposal.

Contact

For questions about this document or its contents, please contact the Small Community Drought Relief Program at (559) 230-3309 or by email at SmallCommunityDrought@water.ca.gov.

Website

This document, as well as other pertinent information about the Small Community Drought Relief Program, can be found at <https://water.ca.gov/Water-Basics/Drought>.

Due Date and Application Submittal

There will be no formal proposal solicitation for this Program. Small communities impacted by the drought are encouraged to apply as soon as possible. Applications for funding will be accepted on a first come first served basis until all the funds are awarded, or until December 29, 2023, whichever comes first. **No applications will be accepted after December 29, 2023.**

All applicants are encouraged to submit their applications electronically to SmallCommunityDrought@water.ca.gov.

Hard copy application packages should be submitted to:

California Department of Water Resources
Division of Regional Assistance
South Central Region Office
3374 E. Shields Avenue
Fresno, CA 93726
Attn: Alena Misaghi

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SMALL COMMUNITY DROUGHT RELIEF PROGRAM GUIDELINES

I. PURPOSE AND USE

This document establishes the process, procedures, and criteria that the Department of Water Resources (DWR) will use to implement the Small Community Drought Relief Program. It provides both general information of the program and detailed information for submitting applications. Included is information about program requirements; eligible applicants and projects; submittal, and review of grant applications; and the grant funding award process.

II. INTRODUCTION AND OVERVIEW

Two hundred million dollars of General Fund monies have been appropriated for the Small Community Drought Relief Program in response to the 2021 drought. Funds will be available for encumbrance or expenditure until June 30, 2024.

In the first quarter of 2021, it became apparent that California was in a drought because of the prevailing hydrological conditions. Climate change-induced early warm temperatures and extremely dry soils had depleted the expected runoff water from the Sierra-Cascade snowpack, resulting in historic and unanticipated reductions in the amount of water flowing to the major rivers and reservoirs in the state, especially in Klamath River, Sacramento-San Joaquin Delta and Tulare Lake Watershed counties.

Governor Newsom proclaimed a state of emergency for drought on April 21, 2021 and May 10, 2021 to cover the counties most affected. On July 8, 2021, the drought emergency proclamation was expanded to cover 50 counties of the State as the drought worsened. The drought emergency proclamations directed state agencies to take immediate action to bolster drought resilience and prepare for impacts on communities, businesses and ecosystems if dry conditions extend to a third year.

A. Authority

The Small Community Drought Relief Program (Program) was authorized by the Legislature pursuant to the Budget Act of 2021 (Stats. 2021, ch. 69, §112) and its Trailer Bill, Assembly Bill 148 (Stats. 2021, ch. 115, § 97). The Trailer Bill authorized specified state agencies, defined as implementing agencies, to, subject to an appropriation for these purposes, to make grants and direct expenditures for interim or immediate relief in response to conditions arising from a drought scenario to address immediate impacts on human health and safety and on fish and wildlife resources and to provide water to persons or communities that lose or are threatened with the loss or contamination of water supplies.

The Trailer Bill defined drought scenario as when the Governor has issued a proclamation of a state of emergency pursuant to the California Emergency Services Act based on drought conditions or when the State Water Resources Control Board determines, subject to specified requirements, that drought conditions necessitate urgent and immediate action to ensure availability of safe drinking water, to protect public health and safety, or to avoid serious and irreparable harm to fish or wildlife.

The Program is authorized to fund "interim or immediate relief" as defined in Water Code section 13198(c). "Interim or immediate relief" means any of the following:

- (A) Hauled water.
- (B) Temporary community water tanks.
- (C) Bottled water.
- (D) Water vending machines.
- (E) Emergency water interties.
- (F) New wells or rehabilitation of existing wells.
- (G) Construction or installation of permanent connections to adjacent water systems, recycled water projects that provide immediate relief to potable water supplies, and other projects that support immediate drought response.

B. Intent and Objectives

The intent of the Small Community Drought Relief Program is to provide immediate and near-term financial and technical support to help small communities survive this and future droughts. Financial support includes grants for recipients to implement projects that satisfy program objectives. Technical support includes, but not limited to, DWR directly providing project management, engineering and construction management services to construct infrastructure for beneficiaries where it will best serve the program objectives.

The program aims to implement needed resiliency measures and infrastructure improvements for small water suppliers and rural communities. The Program will support projects and programs that provide immediate and near-term water supply reliability benefits and improve small communities' drought and water shortage resiliency and preparedness.

The specific objectives are to implement projects that provide reliable water supply sources, improve water system storage, replace aging and leaking pipelines, and provide alternative power sources for operation (emergency generators). Potential projects include emergency and permanent interties, well deepening, second well, fixing or replacing leaking water lines, construction or upgrade of intake structures, additional water storage facilities and tanks.

The Program will also provide funding for hauled water, temporary community water tanks, bottled water, water vending machines, and emergency water interties, as a bridge to more permanent and drought resilient solutions.

C. Coordination with Other Agencies

DWR is responsible for administering the Program, including soliciting proposals (where necessary), organizing application reviews, preparing and administering grant agreements, monitoring project progress, and program oversight through the terms of the grant agreement.

Proposals received by this Program will be coordinated with other DWR programs to ensure efficiency and avoid duplication. Furthermore, DWR will collaborate with the State Water Resources Control Board (SWRCB) Financial Assistance Program as well as the Safe and Affordable Funding for Equity and Resilience (SAFER) Program.

III. ELIGIBILITY REQUIREMENTS

A. Eligible Grant Applicants

Applicants applying to the Small Community Drought Relief Grant Program grants must meet all relevant eligibility criteria in order to be considered for funding. In addition, entities that are currently recipients of another grant from DWR must be in compliance with the terms of that grant, including up-to-date progress reports, at the time of award to be eligible to receive funds from this Program. Entities applicants include:

- Public agencies (e.g., Counties, cities)
- Public utilities
- Special districts (e.g., school districts, community service districts, irrigation districts, flood control districts, reclamation districts)
- Colleges and universities
- Mutual water companies
- Nonprofit organizations¹
- Federally recognized Indian tribes
- State Indian tribes listed on the Native American Heritage Commission's California Tribal Consultation List

DWR will also be considering projects referred from the SWRCB as well as projects developed through direct DWR engagement with communities via existing drought task forces and other existing local assistance programs.

B. Eligible Project Types

Eligible projects for the Small Community Drought Relief Program shall be in counties included in Governor Newsom's state of emergency proclamations for 2021. Any county or jurisdiction included in a future drought proclamation by the Governor or for circumstances for which the SWRCB determines that drought conditions necessitate urgent and immediate action to ensure availability of safe drinking water, to protect public health and safety, will also qualify for funding.

To be eligible for the Small Community Drought Relief Grant Program funding, projects must be designed to benefit small communities, and rural communities. Eligible projects must address one or more program objectives. Examples of projects that meet the intent of the program are provided below. This list is not exhaustive; other projects can be considered at the discretion of DWR as providing program benefits.

Table 1 - Examples of Eligible Projects	
Category	Project Examples
Hauled water	1. Transporting water via truck from source to beneficiary community. 2. Transporting water via rail from source to beneficiary community.
Temporary community water tanks	3. Installing temporary water tanks at locations for community use. 4. Installing temporary water tanks at private homes, if deemed feasible and necessary by program.

¹ "Non-profit organization" means an organization qualified to do business in California and qualified under Section 501(c)(3) of Title 26 of the United States Code.

Bottled water	5. Distribution of bottled water for drinking.
Water vending machines	6. Installing of potable water vending machines at public places for community consumption.
Emergency water interties	7. Constructing emergency water interties.
New wells or rehabilitation of existing wells	8. Drilling of new community wells. 9. Rehabilitation of existing water system wells. 10. Equipping of new wells. 11. Equipping of existing wells. 12. Installation of well-head treatment.
Construction or installation of permanent infrastructure	13. Connections to adjacent water systems. 14. Recycled water projects that provide immediate relief to potable water supplies. 15. Installation of water system pipelines. 16. Installation of booster pump stations. 17. Installation of water intake works. 18. Installation of water storage tanks. 19. Construction of other projects that support immediate and near-term drought response.

IV. PROGRAM REQUIREMENTS

For all projects awarded funding by DWR, the grantee will need to execute a funding agreement with the State. It is **HIGHLY** recommended that applicants review the grant agreement template prior to submission of their proposal. If applicants are not able to abide by the terms and conditions contained therein, applicants should not submit a proposal. The following is a partial list of requirements that will be contained within any funding agreement:

A. Conflict of Interest

All participants are subject to State conflict-of-interest laws. Failure to comply with these laws, including business and financial disclosure provisions, will result in the proposal being rejected and any agreement being declared void. Other legal action may also be taken. Applicable statutes include, but are not limited to, Government Code section 1090 and Public Contract Code sections 10410 and 10411.

As part of the conflict of interest requirements, individuals working on behalf of a funding recipient (grantee) may be required by the State to file a Statement of Economic Interests (Fair Political Practices Commission Form 700) if it is determined that an individual is a consultant for Political Reform Act purposes.

B. Confidentiality

Applicants should be aware that when submitting a proposal to the State, they will waive their rights to the confidentiality of the contents of the proposal. Once a decision on an application has been made by DWR, the proposal is subject to disclosure pursuant to the California Public Records Act (Gov. Code, § 6250 et seq.).

C. Labor Code Compliance

As part of the funding agreement, the funding recipient shall agree to be bound by all the provisions of the Labor Code regarding prevailing wages, and shall monitor all contracts subject to reimbursement from the funding agreement to assure that the prevailing wage provisions of the Labor Code are being met. Current Department of Industrial Relations (DIR) requirements may be found at: <http://www.dir.ca.gov/lcp.asp>. Before submitting an application, applicants are urged to consult with their legal counsel regarding Labor Code compliance. DWR will not advise applicants on Labor Code compliance. For more information, please refer to DIR's Public Works Manual at: <http://www.dir.ca.gov/dlse/PWManualCombined.pdf>. The funding recipient will also affirm that it is aware of the provisions of Section 3700 of the Labor Code, which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance.

D. Compliance with the CEQA and Other Environmental Laws

All activities funded pursuant to the Program must comply with the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.). Any work that is subject to CEQA and funded under a funding agreement shall not proceed until documents that satisfy the CEQA process are received by DWR, and DWR has completed its CEQA compliance. Alternatively, the grantee shall notify DWR if they believe their activities will not be considered a project under CEQA, or that their activities qualify for a CEQA exemption. DWR must ensure the adequacy of the CEQA documents before it can provide funding; therefore, early coordination between the lead agency and DWR during the preparation of the CEQA documents will help expedite DWR's review and approval process.

If CEQA compliance by the grantee or lead agency is not complete at the time a funding agreement is executed by the parties, once DWR has considered the environmental documents, it may decide to require changes, alterations, or other mitigation to the Project; or to not fund the Project. Should the State decide to not fund the Project, the funding agreement shall be terminated. Any work subject to CEQA that proceeds prior to DWR's review and approval process being completed, will not be reimbursed and the amount will be reduced from the award amount.

For general information about environmental compliance, refer to the website provided in Appendix A.

E. Greenhouse Gas Compliance

In 2005, California Governor Schwarzenegger's Executive Order S-3-05 committed the State to reduce greenhouse gas (GHG) emissions. One year later, the Governor signed the "Global Warming Solutions Act of 2006" (Assembly Bill [AB] 32), which legally obligates the state to reduce GHG emissions to 1990 levels by 2020. Analysis of GHG emissions was made a requirement in the CEQA Guidelines in December 2009, becoming effective March 18, 2010.

All CEQA documents must analyze potential project-related GHG emissions. As a Responsible Agency, DWR must also evaluate potential GHG emissions for the proposed project before exercising its discretion to give final approval for a grant. Applicants can refer to *Informal Guidance for DWR Grantees: GHG Assessment for CEQA Purposes*, which can be obtained at the link provided in Appendix A. This document provides an overview of how DWR approaches GHG emissions analysis in CEQA documents related to its grant-funded projects.

F. Competitive Bidding and Procurement

A grantee's contracts with other entities for the acquisition of goods, services, and construction of public works with funds provided by the State must be in writing and shall comply with all applicable laws and regulations regarding the securing of competitive bids and undertaking competitive negotiations. If a funding recipient does not have a written policy to award contracts through a competitive bidding or sole source process, Department of General Services' State Contracting Manual rules must be followed and are available at:

<https://www.dgs.ca.gov/OLS/Resources/Page-Content/Office-of-Legal-Services-Resources-List-Folder/State-Contracting>. Applicants with questions regarding competitive bidding requirements should be directed to their counsel. DWR will not advise applicants on competitive bidding requirements.

G. Signage or Acknowledgement of Credit

To the extent practicable, a project supported by funds from the Small Community Drought Relief Grant Program, will include signage and other relevant forms of acknowledgement informing the public that the project received funds from DWR and the Budget Act of 2021. Specific verbiage will be included in the final grant agreement.

H. Indemnify and Hold Harmless

As part of the funding agreement, grantees shall indemnify and hold harmless the State, its officers, agents, and employees from any and all liability from any claims and damages (including inverse condemnation) arising from the planning, design, construction, repair, replacement, rehabilitation, maintenance, and operation of the project, and any breach of the funding agreement.

V. FUNDING LIMITATIONS

A total of \$192 Million in funding from the General Fund is available for grants under this program.

A. Project Time Limit

Applicants should note that the time allotted for the expenditure or encumbrance of funds is only three years. All funds must be encumbered or expended by June 30, 2024.

B. Funding Match/Cost Share Requirements

No cost-share is required but encouraged. Grantees are required to provide details of all other costs and funding sources integral to the project that are not covered by grant funding. In addition, grantees are required to show cost share (e.g., federal, local, other funds, or in-kind services) if an awarded project costs more than the grant amount. Any project awarded grant funds must be completed and operational such that it alleviates drought conditions. Failure to complete the project by a grantee may result in required repayment of grant funds disbursed.

C. Eligible Costs for Reimbursement

Only costs incurred from the issuance of commitment letters issued to successful applicants will be eligible for reimbursement. Advance funds will not be provided except as allowed. Applicants that have demonstrated cashflow problems to the satisfaction of DWR may be provided advance payment of up to 25 percent of grant funds awarded.

Eligible project costs may include the reasonable costs of studies, engineering, design, project construction, and other work directly related to the scope of work. Reimbursable administrative expenses are the necessary incidental costs that are directly related to the project.

Costs associated with travel are eligible for reimbursement if the travel expenses are reasonable, justifiable, and necessary for the successful completion of the project. Allowable reimbursement rates for mileage, lodging, and per diem are limited to the requirements specified by the California Department of Human Resources (<http://www.calhr.ca.gov/employees/pages/travel-reimbursements.aspx>). No travel outside the State of California shall be reimbursed unless prior written authorization is obtained from the State.

Costs that are not eligible for reimbursement include but are not limited to:

- Costs incurred prior to the execution of the funding agreement or issuance of a commitment letter.
- Purchase of equipment that is not an integral part of the project.
- Purchase of water supplies that are not an integral part of the project.
- Establishing a reserve fund.
- Replacement of existing funding sources for ongoing programs.
- Support of existing punitive regulatory agency requirements and/or mandates in response to negligent behavior.
- Purchase of land in excess of the minimum required acreage necessary to operate as an integral part of the project, as set forth and detailed by engineering and feasibility studies, or land purchased prior to the execution of the grant agreement.
- Payment of principal or interest of existing indebtedness or any interest payments.
- Operation and maintenance costs.
- Costs incurred as part of any necessary response and cleanup activities required under the Comprehensive Environmental Response, Compensation, and Liability Act; Resource Conservation and Recovery Act; Hazardous Substances Account Act; or other applicable law.
- Any federal or state taxes.
- Expenses incurred in preparation of the proposal or an application for another program
- Any indirect costs. Indirect Costs means those costs that are incurred for a common or joint purpose benefiting more than one cost objective and are not readily assignable to the funded project (i.e., costs that are not directly related to the funded project).

Examples of Indirect Costs include, but are not limited to: central service costs; general administration of the Funding Recipient; non-project-specific accounting and personnel services performed within the Funding Recipient's organization; depreciation or use allowances on buildings and equipment; the costs of operating and maintaining non-project-specific facilities; tuition; conference fees; and, generic overhead or markup. This prohibition applies to the grantee and any subcontract or sub-agreement for work on the funded project that will be reimbursed with grant funds from DWR.

VI. PROPOSAL SOLICITATION

The following sections provide instructions on proposal submittal requirements, information about the selection process, and program schedule. There will be no formal proposal solicitation package. Applicants are therefore encouraged to apply as soon as possible.

Applications will be processed as they are received until funds are exhausted or until December 29, 2023, whichever comes first. Applications and supporting documentation received after this date will not be reviewed or considered for funding.

A. Publication of Guidelines

Publication of the Guidelines will be posted on: <https://water.ca.gov/Water-Basics/Drought>. Proposals and enquiries can be sent to SmallCommunityDrought@water.ca.gov.

VII. APPLICATION INSTRUCTIONS

A complete application package will include one (1) original complete application marked as "ORIGINAL," and four copies or (1) electronic copy (in MS Word or searchable pdf format) of the original application submitted via email.

A. How to Submit

Applicants must submit the items stated above. Electronic submission to SmallCommunityDrought@water.ca.gov is preferred. The address for mailing by U.S. mail, overnight courier, or hand delivery of hardcopy application components is as follows:

California Department of Water Resources
Division of Integrated Regional Water Management
South Central Region Office
3374 E. Shields Avenue
Fresno, CA 93726
Attn: Alena Misaghi

B. What to Submit – Required Application Components

This section presents the required elements of an application for a grant funded by the Small Community Drought Relief Program. Applicants must submit a complete application by the deadline of December 29, 2023.

A complete application consists of the items included in Appendix B, including:

Attachment 1 – Organizational, Financial, and Legal Information

- Part I: Application Cover Sheet
- Part II: Applicant's Representatives
- Part III: Summary of Project Costs
- Part IV: Authorizing Resolution

Attachment 2 – Project Proposal, Tasks, and Budget

Appendix B contains an application checklist, followed by application Attachments 1, and 2. For reviewing purposes, it is recommended that applicants use the form documents provided (Attachment 1) and the outline provided for project proposals (Attachment 2), though other

formats with at least the same information will be considered.

VIII. REVIEW

A. Completeness and Eligibility Review

All applications will undergo eligibility and completeness review for the required items listed in these Guidelines. If an application is determined to be ineligible, the application will not be reviewed or considered for funding. All eligible applications will be evaluated as described below. The application will be evaluated based on what is contained in the application. Applicants may be asked to provide additional information as needed to complete the application upon DWR's request.

B. Technical Evaluation

All eligible grant applications will undergo a technical evaluation. First, project proposals will be evaluated by program staff. Program staff will evaluate the proposals to determine if they meet program objectives. Each proposal will be reviewed by at least two qualified program staff.

Following the completion of the technical reviews by program staff, DWR supervisory-level staff will review and finalize evaluations, then develop funding recommendations for the Program Division Manager's approval. Following approval of the funding recommendations by the Program Division Manager, the funding recommendations will be communicated through the appropriate DWR chain-of-command. The applicant will then be notified.

IX. EVALUATION CRITERIA

The grant funding is non-competitive. Therefore, the proposals will not be scored. The proposals will only be evaluated against program objectives. Applicants must specify their eligibility in their proposals.

A. Standard Criteria

Projects must benefit communities not supplied by an urban water supplier as defined in California Water Code (CWC) Sec 10617. Urban water suppliers are those that provide drinking water with 3,000 connections or more or more than 3,000 acre-feet per year.

B. Modified Funding Amounts

DWR may recommend modified grant amounts from that requested in order to equitably distribute the limited funding available for this Program and/or to better meet program objectives.

X. AWARD AND AGREEMENT PROCESS**A. Funding Awards**

Once a funding recommendation is developed by program staff, and approved by DWR's management, the selected grant recipient/s will receive a commitment letter officially notifying them of their selection and the grant amount.

B. Grant Administration and Agreement Procedures

Following the funding commitment, DWR will execute a grant agreement with the grant recipient. Grant agreements are not executed until signed by the authorized representative of the grant recipient and DWR. For reference, Appendix C provides grantees with a summary of the minimum materials that will need to be maintained during the life of the grant agreement for State auditing purposes.

Humboldt Bay Municipal Water District

To: Board of Directors
From: John Friedenbach
Date: September 3, 2021

Re: 3-Acre Conversion Timber Harvest

Discussion

As discussed at the August Board meeting, staff solicited bid proposals from various logging contractors. See attached solicitation. The District only received initial response interest from two contractors and only one formal proposal. The single response proposal was from Steve Morris Logging & Contracting. They proposed to purchase logs on the stump at a price of \$600 per million board feet net scale. See section 15 of the contract. The forester has estimate approximately 400 MBF of redwood will be harvested. This would result in approximately \$240,000 revenue to the District.

In the negotiations staff agreed to split the timber yield tax equally (50/50) with the logger. See subparagraph 15 F of the contract. In addition, the logger will remove some hazard trees at no charge on two adjoining neighbor properties that have the potential to impact our infrastructure at the TRF. In addition, the logger has agreed to locate a landing pad and remove a cluster of old growth and second growth stumps in the area of the landing pad. The landing pad location is the future site of our back up generator and TESLA batter bank projects. The cost for this work was agreed at \$8,000. See the full paragraph following subparagraph 15 G.

Recommendation

Staff recommends that the Board approve the agreement and authorize the general manager to sign the contract. Time is of the essence to complete this work before the winter rains. Completion of this project will facilitate the beginning of the TESLA battery bank project for the TRF.



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

MICHELLE FULLER, DIRECTOR

DAVID LINDBERG, DIRECTOR

GENERAL MANAGER

JOHN FRIEDENBACH

July 22, 2021

Chambers Logging Co., Inc.

PO Box 874

Fortuna, CA 95540

Sent to attached list - HB

Our District is processing a 3-acre conversion timber harvest plan application with CalFire. The area that will be affected is located primarily on the north, east, and south property adjacent to our Turbidity Reduction Facility (TRF) located at the end of 440 Pipeline Road, Arcata, CA. We would like the harvest to occur this summer/fall. The purpose of this small timber harvest is to provide space for two infrastructure resiliency projects relating to our power system for the TRF.

The first project is to add a backup generator to provide power during PG&E PSPS (Public Safety Power Shutoff) events and during unplanned power outages caused by storms or other natural events. It is critical for us to be able to provide drinking water during these events to the nearly 90,000 residents in Humboldt County who rely on our water day in and day out. This project is being paid 75% by a FEMA Hazard Mitigation Grant.

The second project is to install a battery bank backup system for short duration power interruption and provide a mechanism to shave our power costs which continue to escalate from the rate increases by PG&E. This project is being paid for 100% with SGIP grant money.

Your business has been referred to us by our forester. Kindly see his attached solicitation. If you are interested, please contact me to discuss terms and timing.

Respectfully,

John Friedenbach
General Manager

Notice of Pending Timber Harvest and
Solicitation for Logging and Haul Cost Estimate

July 19, 2021

SALE NAME: HBMWD – TRF Timber Sale

Humboldt Bay Municipal Water District is planning a timber sale at its Turbidity Reduction Facility on Pipeline Road in Arcata.

A Structure Protection Exemption (0-150' zone) totaling ~ 6 acres and a Less Than 3 Acre Conversion Exemption totaling ~2.9 acres have been prepared. These areas contain an estimated 400 MBF of second-growth Redwood, 65 MBF of Sitka Spruce and ~ 10 MBF of western Hemlock; all NET volume Scribner Short Log Scale. Maps of the plan areas are attached. The entire area is tractor logging. A very small amount of winching logs for short distances may be required. One new temporary road is required, and one existing road is available for use. There are a couple overhead power lines to avoid.

Anticipated time of plan approval is August 15, 2021. The Water District desires to begin harvesting as soon as possible thereafter and desires that every possible effort be made to complete the entire project by October 15, 2021.

I remind you that the Structural Protection Exemption (0-150 foot zone) requires slash treatment/cleanup within 45 days from commencement of operations in that area. The Conversion Exemption allows more time, however the District desires cleanup of all areas before the winter period. Because of the urban setting, slash treatment should not include burning of slash. The preferred method of disposal is chipping, grinding, or removal from the site.

It is recognized that a logging bid may not be possible without more on-site knowledge, however this notice is being forwarded to solicit interest and availability for this pending harvest.

A show-me trip can be scheduled for August 9th, or shortly thereafter.

If you are interested, please call me at 707-442-3036 with any questions or to confirm a show-me trip.

William S. Dann, RPF
Agent for Landowner

A011667	Valid	CHAMBERS LOGGING CO INC	P O BOX 874	FORTUNA	CA	95540	707-725-5421
A012361	Valid	JACOB MORRIS LOGGING INC	1500 GLENDALE DRIVE	MCKINLEYVILLE	CA	95519	707-822-8537
A012437	Valid	SARGENT EXCAVATION	4996 FIELDBROOK ROAD	MCKINLEYVILLE	CA	95519	707-407-5137
A10435	Valid	GRAHAM WESTFALL LOGGING INC	PO BOX 1221	FERNDALE	CA	95536	707-540-5858
A10666	Valid	RICE LOGGING	P O BOX 612	HYDESVILLE	CA	95547	707-845-7423
A11143	Valid	PATRICK S MURPHY	1801 CECIL AVENUE	FORTUNA	CA	95540	707-496-3137
A1315	Valid	GARY JOHNSTON	P O BOX 922	BLUE LAKE	CA	95525	707-407-5544
A6067	Valid	DIAMOND R RANCH INC	100 PRICE CREEK ROAD	FERNDALE	CA	95536	707-498-5643
A659	Valid	FORD LOGGING INC DBA PACIFIC EARTHSCAPE	1225 CENTRAL AVE #11	MCKINLEYVILLE	CA	95519	707-840-9442
A8780	Valid	STEVE WILLS TRUCKING & LOGGING LLC	PO BOX 335	FORTUNA	CA	95540	707-768-3781
A9165	Valid	THOMAS KEVIN GRANT	930 PADDOCK RD	KNEELAND	CA	95549	707-496-3131

STUMPAGE LOG SALE/HARVEST AND LOG HAULING AGREEMENT BETWEEN
HUMBOLDT BAY MUNICIPAL WATER DISTRICT AND STEVE MORRIS
LOGGING & CONTRACTING

This agreement made on this 9th day of September 2021 between the Humboldt Bay Municipal Water District, a California municipal water district formed pursuant to Water Code section 71000 et seq. ("District"), and Steve Morris Logging & Contracting ("Operator").

The District agrees to sell and Operator agrees to purchase, harvest and haul a volume of approximately 400 MBF net SSLs (net scribner short log scale) manufactured logs from designated timber located on District property at 440 Pipeline Road, APN #504-192-012, (Property) to be delivered to Operator's log buyer between September 15, 2021 and November 15, 2021.

Effective until July 23, 2022 or if earlier terminated as provided herein, Operator shall enter upon the designated Timber Harvest Plan(s) #1-21EX-01035-HUM and # 1-21EX-01091-HUM attached hereto as Exhibits A and B respectively, cut and remove therefrom in a diligent and workmanlike manner all merchantable sawlogs suitable for lumber manufacture and, where applicable, chip logs (provided there is a market) in conifer and hardwood trees designated for cutting by District's forester to the Log Bucking specifications required by the designated end log purchaser (sawmill), and to the terms and conditions contained in the approved CAL FIRE Exemptions per 14 CCR § 1038.1(c) and 1104.1(a). Specific areas of operation are shown on respective maps in Exhibits A and B.

The tree removal, road work, slash treatment, erosion control or other completion work as required by the California Forest Practice Rules and Act shall be performed under the following conditions:

1. Prior to any activity or work performed under this contract, the Operator or his representative shall meet on-site with the District's representative (forester) to review and discuss contract terms and requirements herein and, additionally, Timber Harvest Exemption requirements and specifics. Also, prior to any cutting of timber, fallers and buckers for the Operator will meet on site with the Operator or his representative and the District's forester to discuss cutting specifications and/or THP Silviculture requirements.

2. Upon initiation of operations, it is District's desire that Operator pursue, weather permitting, in an uninterrupted workmanlike manner, all tree removal, Exemption related roadwork, slash disposal, and completion work activities. Accordingly, Operator, upon executing this agreement, stipulates that it will lend its individual best efforts to comply with District's desire and give the work under this agreement, until completed or otherwise terminated hereunder, a high priority. Once underway, no personnel or equipment will be transferred out of woods unless agreed to in writing or over the phone by District and Operator. It is further understood that it will be necessary for Operator to provide for a sufficient logging crew and log haul trucks to remove as much timber as is possible before November 15, 2021. District requests that Operator provides a sufficient number of active and functional pieces of skidding and yarding equipment onsite and dedicated to skidding and yarding operations, and that there be a designated representative in charge of operations present on-site at all times during the conduct of operations.

At least one tractor shall remain after skidding is completed to perform erosion work control or other activities that may be required under the forest practice regulations to permit operations that may be conducted during the extended wet weather period (Oct 15 – Nov 15 and April 1 – May 1) or before the winter period (Nov. 15 – April 1). For winter operations, Operator agrees to conform to 14 CCR § 1104.1 (E).

During the cleanup work, missed merchantable logs will be skidded to the appropriate landing or loading point for hauling. All refuse and trash will be removed daily and not placed in slash piles or left on-site.

3. District has made no representation as to the present or future condition of its property or the character of traffic on its roads and Operator assumes all risk of damage to property or injury to Operator arising from operations hereunder except as may result from the negligence of District or their agents and employees.

4. District or District's forester shall locate and mark all project boundary lines and cutting areas within the boundary lines. Provided Operator operates within the boundary and cutting lines designated by District, Districts agree to indemnify, defend and hold harmless Operator from any and all claims of trespass which may arise from the activities contemplated under this agreement including any costs, fines, assessments or penalties associated therewith.

5. Trees designated for retention within the Structure Protection Exemption area (1038) have been marked with an L at DBH and at the stump. Trees in the <3-acre conversion area are not marked. Timber fallers shall make every reasonable effort to fall all trees in close proximity to structures and facilities except those required to be retained by the respective timber harvest exemption regulations. In the event any question arises concerning the specific timber which is to be logged hereunder, District's forester shall flag or mark or otherwise designate such timber and Operator shall abide by such designation to the extent possible; except in the case of faller's safety.

6. Operator shall correct, or pay for, all damage to District's property resulting directly or indirectly from the negligent acts or omissions of Operator hereunder and shall reimburse District for all costs reasonably incurred for fighting fire resulting from operations except as may be caused by the negligent acts or omissions of District or District's agent and employees.

7. Operator shall maintain in good working order at the active landing, a fire box containing all fire tools and equipment required by state law, equip all machinery with appropriate fire tools and post the CAL FIRE rules. In addition, Operator shall observe all requirements of law relating to operations and fire protection, take reasonable precautions to prevent starting fires, make every reasonable effort to suppress fires started from any cause with immediate personnel and equipment resources and suspend operations when required by a public fire control agency or the District's forester due to hazardous conditions.

8. Each party shall indemnify, defend and save harmless the other for all loss, costs, claims, penalties, fines, suits (including attorney's fees) and judgments arising out of any negligent acts or omissions of the other party and its agents, contractors, subcontractors or employees.

9. Nothing herein contained shall be construed as making Operator an agent of District or to authorize Operator to obligate District or to constitute District and Operator as joint ventures. It is specifically understood that District realizes Operator and his employees control the process and means by which the timber is cut, removed and delivered. The purpose of the provisions of this agreement with respect to the manner in which logging and activities are performed is to make Operator aware of responsibilities of workmanship and performance requirements to District as previously described in Item 2 above.

10. Any notice to be given hereunder may be served personally or by registered mail addressed to the party to be served at his post office address as set forth herein.

11. Upon request of District, Operator agrees to furnish, in a reasonable form and manner satisfactory to District, evidence that Operator has paid and is currently paying all labor costs, payroll taxes, charges, assessments, and any and all other costs and charges incurred by Operator in his operations hereunder which might, unless paid, become a lien upon District's property.

12. A. Continuously, throughout the life of this agreement, Operator at Operator's expense shall carry and maintain comprehensive general bodily injury and property damage liability insurance. Property damage liability shall be written on the broad form "occurrence" basis. Property damage liability (other than automobile) is to be written to include Logger's third-party property damage liability. Such insurance shall afford protection to the limits of not less than \$1,000,000 in respect to bodily injury or death of a single person, and not less than \$2,000,000 for aggregate occurrences or in respect to bodily injury or death of more than one person in any one accident, and to the limit of not less than \$1,000,000 in respect to property damage. Such insurance shall be primary and any insurance, self-insurance or other coverage maintained by the Humboldt Bay Municipal Water District, its directors, officers, employees, or authorized volunteers shall not contribute to it. The general liability coverage shall give the Humboldt Bay Municipal Water District, its directors, officers, employees, and authorized volunteers insured status using ISO endorsement CG2010, CG2033, or equivalent. Coverage is to be placed with a carrier with an A.M. Best rating of no less than A-: VII, or equivalent, or as otherwise approved by the Humboldt Bay Municipal Water District. In the event that the Contractor employs other contractors (sub-contractors) as part of the work covered by this agreement, it shall be the Contractor's responsibility to require and confirm that each sub-contractor meets the minimum insurance requirements specified above. District and District's forester shall be provided a Certificate of Insurance named as an additional insured party. Insurance policies shall not be canceled nor the coverage modified nor the limits changed without first giving 10 days' written notice thereof to District. Evidence of such insurance shall be delivered to District before entering onto the premises depicted on Exhibits A and B.

B. By his/her signature hereunder, Operator certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and he/she will comply with such provisions before commencing the performance of the work of this agreement. Contractor and sub-contractors will keep workers' compensation insurance for their employees in effect during all work covered by this agreement.

C. Contractor hereby certifies that it and all subcontractors are registered with the State of California Department of Industrial Relations to: 1) bid on a public works project or 2) work on a public works project. Contractor shall provide proof of its valid registration as a condition of being awarded its contract with District. Contractor further agrees that it is responsible for any and all fines associated with non-registration or lapse in registration or non-compliance with prevailing wage requirements pursuant to Labor Code section 1725.5 et. al..

D. Payroll Records:

1. Pursuant to California Labor Code Section 1776, Contractor and each subcontractor shall keep accurate payroll records, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by him or her in connection with the work. Each payroll record shall contain or be verified by a written declaration that it is made under penalty of perjury, stating both of the following:

- a) The information contained in the payroll record is true and correct.
- b) The employer has complied with the requirements of Labor Code Sections 1771, 1811, and 1815 for any work performed by his or her employees on the public work project.

2. The payroll records enumerated under paragraph (a) shall be certified and shall be available for inspection at all reasonable hours at the principal office of the Operator on the following basis:

- a) A certified copy of an employee's payroll record shall be made available for inspection or furnished to the employee or his or her authorized representative on request.
- b) A certified copy of all payroll records enumerated on paragraph (a) shall be made available for inspection or furnished upon request to the District, the Division of Labor Standards Enforcement, and the

Division of Apprenticeship Standards of the Department of Industrial Relations.

- c) A certified copy of all payroll records enumerated in paragraph (a) shall be made available upon request by the public for inspection or for copies thereof. However, a request by the public shall be made through either the District, the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement. If the requested payroll records have not been provided pursuant to paragraph (b)(2), the requesting party shall, prior to being provided the records, reimburse the costs of preparation by the Operator, subcontractors, and the entity through which the request was made. The public shall not be given access to the records at the principal office of the Operator.

3. The certified payroll records shall be on forms provided by the Division of Labor Standards Enforcement or shall contain the same information as provided by the division.

4. The Operator or subcontractor shall file a certified copy of the records enumerated in paragraph (a) with the entity that requested the records within ten days after receipt of a written request.

d) Any copy of records made available for inspection as copies and furnished upon request to the public or any public agency by the District, the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement shall be marked or obliterated in such a manner as to prevent disclosure of an individual's name, address, and social security number. The name and address of the Operator awarded the contract or the subcontractor performing the contract shall not be marked or obliterated.

13. This agreement may be terminated without cause by either party upon notification in writing, termination to become effective 30 days after date of notification. Upon receipt of notice of District's intention to terminate, Operator shall immediately cease falling timber.

14 District's forester shall have the authority to inspect operations to determine compliance with the provisions of this agreement and with the Timber Harvest Plan. If District's forester believes that violation(s) have occurred, he may cause operations to cease until such violations are corrected. In the event Operator does not agree that such a violation or violations occurred, the parties agree that an appropriate representative of the California Department of Forestry shall determine whether or not a violation or violations occurred. It is understood that District's forester shall not have authority to supervise Operator's daily operations. As

necessary, District's forester shall make written reports to Operator within five (5) days of inspection in order to allow Operator the most convenient and cost-effective alternative to correct any alleged violation or violations.

If operations are suspended due to weather conditions, strike, firefighting, breakdown, acts of God, other causes beyond the control of the parties, or should District interrupt, suspend, delay, or otherwise prevent Operator from performing at its scheduled rate of production, the period of completion shall be extended for a like period of time and Operator shall not be held in breach of this agreement for failure to perform.

If legal action is necessary to enforce or interpret the terms of this agreement, or in any legal action arising out of the subject matter of this agreement, the prevailing party shall be entitled to reasonable attorney's fee.

District shall obtain all necessary county, state, and federal permits required for the commercial harvest of District's timber prior to the beginning of timber operations. The parties acknowledge that valid permits have been obtained from the Department of Forestry and Fire Protection are attached hereto as Exhibits A and B.

15. District and Operator have agreed to a modified "Stumpage Sale" arrangement, i.e., operator will pay a set amount per thousand board feet "net Scribner short log scale" to the District for merchantable logs by species as follows:

A. Redwood \$ 600 / MBF Net scale

~~Douglas fir~~ \$ 00 / MBF Net scale

~~Hemlock/Spruce~~ \$ 00 / MBF Net scale

B. Chip log grades (XP) and Special Cull grades (SC) inadvertently delivered with the above merchantable sawlog grades will be paid for only at the mill purchase value, if any. This includes trucking costs.

C. Operator is responsible for all costs of Falling, Bucking, Yarding, Loading and Hauling of logs to the mill of Operator's choosing. Operator understands and agrees that the logs from this sale cannot be exported out of the country.

D. Payment for logs – The Operator will pay the District at the rates designated in item 15. A. above for delivered logs as scaled by a third-party scaling bureau from the Operators log buyer (sawmill).

Operator shall require the log purchaser (sawmill) to assign payment from the sawmill directly to the District for net volume of timber. Payment shall be made to District at least monthly with log scale summaries provided directly from the sawmill to the District.

E. Trip tickets will be supplied by the Operator and will be filled out by Operator for each load. Trip tickets will identify the project (by name), date, logging method, # of logs on each load and trucker name. District will be provided with a copy of each trip ticket at a convenient location daily. District may at any time, at points that do not unnecessarily interfere with the trucking operations, examine any load of logs from the Property to check brands and examine load tickets. District will be provided with copies of daily summary scale tickets, semimonthly scale and linear feet summaries from the purchasing sawmill.

F. Operator and District are responsible for equal payments (50/50) of the California Timber Yield Tax at the rate of 2.9% of the values set by the California Department of Tax & Fee Administration for logs by species and size class using District's Timber Yield Tax account.

G. Operator shall furnish the District a performance bond or cashier's check equivalent to 10% of the estimated stumpage sale (\$24,000). The performance bond or cashier's check shall be returned upon completion of all work under this agreement.

In addition to the work under the District's harvest plan exemptions, the Operator agrees to remove approximately a dozen trees that pose a hazard to the District's TRF facilities from an approved harvest plan on a parcel immediately adjacent to the TRF property on the west side. Those trees have been marked by the District's forester. Additionally, a Sitka spruce tree on the north property line has been designated by the District's forester for removal as a part of this operation. Removal of the above-described trees will be at no extra cost to the District. Operator shall identify those loads separately on the trip tickets so that the land owner to the west may be paid for those logs at the same rate as the District. Operator shall coordinate directly with the respective property owners when performing said work.

Operator further agrees to create a log landing pad as located and depicted in Exhibit C and to remove the redwood trees and corresponding old growth and second growth stumps in the south west corner of said landing pad for a fixed fee of eight thousand dollars (\$8,000).

Any additional work beyond the scope of this Agreement will be based on hourly rates, where applicable, or a predetermined set rate and only when agreed to by both the Districts and the Operator prior to the work occurring. Invoices itemizing that extra work completed will be provided to the District.

16. This Agreement, including all Exhibits, constitutes the full agreement of the parties, there being no oral representations of agreements between the parties other than is set forth herein and there shall be no modifications, assigns, alteration, addition or deletion affecting these presents without being in writing and signed by both parties hereto. Operator acknowledges full understanding of this Timber Harvest Agreement, Performance Requirements and Work Standards and THP language associated with this Agreement.

LTO Additional Specific Instruction

17. The LTO shall adhere to the California Forest Practice Rules and following provisions for this operation:

- a. No trees when felled shall lie outside the District's Property.
- b. All property lines and corners and bearing trees shall be protected from damage.
- c. Tree falling shall not occur across property lines without approval by the District's forester or his designee.
- d. Stump height shall be no more than 12" above the ground surface.
- e. Trees damaged by logging operations may be removed only with prior approval of the District's forester or his designee.

18. Upon completion of its operations, Operator shall return all roads within the Property, including grade, back slope, ditch lines, and culverts to a condition at least as good as they were at the beginning of the operations.

19. Any existing waterbars/rolling dips affected by operations shall be reconstructed after operations to a condition similar to that which existed prior to operations.

20. Operator shall suspend its operations on the Property and on District's roads when:

- f. Use of unpaved roads shall cease when precipitation is sufficient to generate overland flow off the road surface, use of any portion of the road results in rutting of the road surface, or a stable operating surface cannot be maintained.
- g. Resumption of road use shall only occur when there is a stable operating surface, and resumption of road or landing construction or reconstruction, shall not occur until the soil conditions allow a stable operating surface to be developed.

21. Operator shall keep all ditches and culverts within the Property open and functional.

22. Operations shall be limited to 7:00 a.m. to 6:00 p.m. Monday-Friday.

23. All skidding shall be completed prior to November 15, 2021 and all other work prior to December 31, 2021, and no work will take place during periods of precipitation, unless extended in writing by District.

-the remainder of this page is intentionally left blank-

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the 9th day of September 2021.

Date

Humboldt Bay Municipal Water District
District

By: _____
John Friedenbach
Its: General Manager

Address: 828 7th Street
Eureka, CA 95501-1114

Date

Steve Morris Logging & Contracting
Operator

By: _____
Steve Morris, General Partner

Address: 1500 Glendale Drive
Arcata, CA 95519

Exhibit A

#1-21EX-01035-HUM



DEPARTMENT OF FORESTRY AND FIRE PROTECTION
 NORTHERN REGION HEADQUARTERS - SANTA ROSA
 135 Ridgway Avenue
 Santa Rosa, CA, 95401
 (707) 576-2959
 Website: www.fire.ca.gov



July 23, 2021

Humboldt Bay Municipal Water District
 828 7TH ST
 EUREKA, CA 95501

Structure Protection (0 to 150 feet) v2019
 No: 1-21EX-01035-HUM

Letter of Acceptance

This letter acknowledges acceptance of your "Notice of Exemption" per **Title 14, California Code of Regulations, Section 1038(a), (b), (c), (c)(6), (d), (e), (f), 1038.3, 1038.5, and 1038.6**, from plan preparation and submission requirements (PRC 4581) and from the completion and stocking report requirements (PRC 4585 and 4587).

This Exemption EXPIRES July 23, 2022. Timber operations shall comply with all operational provisions of the Forest Practice Act and District Forest Practice Rules. Note: in-lieu practices, exceptions to rules, and alternative practices are not allowed.

Regulatory rules may differ if the exemption is in a county with special rules or within a Special Treatment Area. The Timberland Owner and the Licensed Timber Operator are advised to be aware of the rules for the specific location of the exemption.

Other Agency Considerations:

- **Regional Water Quality Control Boards** (Regional Boards) regulate waste discharges from timber harvest activities. The Regional Boards may have special requirements for timber harvesting conducted under this exemption. Please contact your local Regional Water Control Board with any questions regarding compliance with the California Water Code.
- **Department of Fish and Wildlife** (DFW) may require notification if the timber operations will substantially divert or obstruct the natural flow of, or substantially change or use any material from the bed, channel, or bank of any river, stream, or lake. Information on the Lake and Streambed Alteration Program and other DFW programs can be found at the following internet address: <https://www.wildlife.ca.gov/Conservation/Environmental-Review>

On-site inspection will be conducted by local CAL FIRE Unit Forest Practice Inspectors to evaluate compliance with all the provisions of the Forest Practice Act and Rules. For questions regarding the above referenced exemption, please contact the appropriate regional office listed above or contact the local CAL FIRE Unit for your County.

Sincerely,

Dominik Schwab, RPF #2823
 Resource Manager – Coast

cc: Unit, BOE, RPF, TLO/TO, LTO, File

To view Exemption Notices, please visit: <https://caltreesplans.resources.ca.gov/caltrees/>

STRUCTURE PROTECTION EXEMPTION
Removal of fire hazard trees from 0 to 150 feet of an
Approved and Legally Permitted or (Habitable) Structure

CLV
FOR ADMIN. USE ONLY

EX. # 1-21EX-01035-HUM

Date of Receipt JUL 22 2021

Date Validation by CAL FIRE 7/23/21

Date Expires JUL 23 2022

STATE OF CALIFORNIA, DEPARTMENT OF FORESTRY AND FIRE PROTECTION
NOTICE OF TIMBER OPERATIONS THAT ARE EXEMPT
FROM TIMBER HARVESTING PLAN REQUIREMENTS RM-73 (1038c) (03/2019)

VALID FOR ONE YEAR FROM DATE RECEIPT BY CAL FIRE.

The Director of the Department of Forestry and Fire Protection (CAL FIRE) is hereby notified of timber operations under the requirements of 14 CCR § 1038(c) to cut or remove trees in compliance with Public Resources Code (PRC) Sections 4290 and 4291.

Timber Operations pursuant to the notice of exemption may not commence for five (5) working days from the date of the Directors receipt of the notice unless this delay is waived by the director. If the Director does not act within five (5) days working days of receipt of the notice of exemption, Timber Operations may commence. 14 CCR § 1038.1(c)(13)

1. LICENSED TIMBER OPERATOR(S): Steve Morris Logging Lic #: A8292 ✓ Date: 5/01/2021
Name: _____
Address 1500 Glendale Drive
City Arcata State CA Zip 95521 Phone 707-822-8537
EMAIL: (optional) _____

2. TIMBERLAND OWNER(S) OF RECORD: Name: Humboldt Bay Municipal Water District
Address ATTN: John Friedenbach, 828 7th Street
City Eureka State CA Zip 95501 Phone 707-443-5018
EMAIL: (optional) friedenbach@hbmwd.com

I certify, under penalty of perjury, that I have read and understand the information on this form and that I am the Timberland Owner of record. Humboldt Bay Municipal Water District
Signature: by John Friedenbach, General Manager Date: 7/20/21

3. TIMBER OWNER(S) OF RECORD: Name SAME AS ITEM #2
Address _____
City _____ State _____ Zip _____ Phone _____
EMAIL: (optional) _____

1.

TIMBER TAX NOTICE: The TIMBER OWNER is responsible for payment of a yield tax.

For timber yield tax information or for assistance with these questions call 1-800-400-7115, or write: Timber Tax Section, MIC: 60, California Department of Tax and Fee Administration, P.O. Box 942879, Sacramento, CA 94279-0060; or see the CDTFA Web Page on the Internet <http://www.cdtfa.ca.gov>.

TIMBER TAX INFORMATION: Some small or low value harvests may be exempt from the timber yield tax (Revenue and Taxation Code sec. 38116)

Timber Owners may be considered exempt if the value of the harvesting operations does not exceed \$3,000 dollars within a quarter, according to CDTFA Harvest Value Schedules, Rule 1024.

IF THE TIMBER OWNER BELIEVES HARVESTING MAY BE EXEMPT (see timber tax exemption language above for low value harvests) PLEASE CHECK BELOW:

FINAL DETERMINATION of tax exempt status will be made by the Timber Tax Section of the California Department of Tax and Fees Administration. If you think you are exempt based on the directions above please complete the below information so the Timber Tax Section can make the final determination.

IF YOU WOULD LIKE CDTFA TIMBER TAX SECTION TO CONSIDER A TAX EXEMPTION BASED ON PROJECTED HARVEST PLEASE COMPLETE THE INFORMATION BELOW.

A. Circle the option that most closely estimates the total volume for this harvest, in thousands of board feet (mbf - Net Scribner short log):

Under 8 mbf 8-15 mbf 16-25 mbf **Over 25 mbf**

B. Estimate what percentage of timber will be removed during this harvest: (percentages provided should equal 100%)

	%		%		%		%
Redwood	<u>85</u>	Ponderosa/Sugar Pine	_____	Douglas-Fir	_____	Fir	<u>5</u>
Cedar	_____	Port-Orford Cedar	_____	Other Conifer	<u>10</u>	Other Hardwoods	_____

C. Fuelwood over 150 cords? Yes No D. Christmas trees over 3,000 lineal feet? Yes No

4. 14 CCR § 1038.1(c)(15) - Is it anticipated that a tree existing before 1800 A.D. greater than 60 inches' diameter at stump height for Sierra or Coastal Redwoods or 48 inches in diameter at stump height for all other tree species will be harvested? YES NO (required)

NOTE: If "YES" please refer to 14 CCR § 1038.1(c)(15)(A-C). Have an RPF attach to the submitted notice of exemption a written explanation and justification for the harvest of these trees, refer to 14 CCR § 1038.1(c)(15)(B)(1-3)

5. 14 CCR § 1038.1(c)(12) NO timber harvesting is permitted within the standard width of a Watercourse or Lake Protection Zone (WLPZ) per 14 CCR § 916.4 [936.4, 956.4](b) (exceptions do apply see below) or within a WLPZ of a watershed identified as Anadromous Salmonids Planning watersheds (ASP) per 14 CCR § 916.9 [936.9, 956.9](s), unless the harvesting in an ASP WLPZ is recommended in writing by CDFW to address specifically identified forest conditions, 14 CCR § 916.9(s)(6) (optional)

Two exceptions permitted in WLPZs outside of an ASP watershed:

(Please indicate below if trees meeting the exception identified below are anticipated to be harvested. (if not then leave blank)

- SANITATION-SALVAGE harvesting per 14 CCR § 913.3 [933.3, 953.3] or
- for the removal of DEAD or DYING trees per 14 CCR § 916.4 [936.4, 956.4](b)

Exception in WLPZ of ASP Watersheds

- Will harvesting occur within a WLPZ of an ASP watershed based on written recommendation from CDFW?

If YES then provide a copy of the written recommendation from CDFW identifying the specific reason for the recommended harvesting.

NOTE: Trees to be harvested shall be marked by an RPF or a supervised designee of the RPF PRIOR TO TIMBER OPERATIONS.

6. 14 CCR § 1038.1(c)(3)(A-C) No Timber Operations on any site that satisfies the criteria listed in 14 CCR § 895.1 for a Significant Archaeological or Historical Site (information on some of these sites may be available from the Information Centers of the California Historical Resources Information System within the Department of Parks and Recreation), except under the following conditions:

Have significant archaeological sites been identified within the project area? (required) YES NO

- If yes will the site be preserved in place by capping or covering with a layer of soil prior to submission? YES NO
If yes please provide written concurrence from the Departments Archaeologist at the time of submission.

7. TENTATIVE COMMENCEMENT DATE OF TIMBER OPERATIONS: (required) 8/15/2021 14 CCR § 1038.1(a)(5)
Before beginning Timber Operations, the Timber Operator shall notify the Department of the actual commencement date of operations. The notification, by telephone, mail, or email, shall be directed to the appropriate CAL FIRE Unit Headquarters, Forest Practice Inspector or other designated personnel. If the notification is provided by mail, Timber Operations may not commence until three (3) days after the postmark date of notification. 14 CCR § 1038.1(c)(14)
8. 14 CCR 1038.2 - The submitted notice of exemption shall indicate if more than one Yarding system is to be used and identify the systems. CHECK EACH Yarding method to be utilized: If more than one method is selected these methods must be identified on the accompanying maps. (required)

YARDING SYSTEMS	
X	Tractor, including end/long lining
X	Rubber tired skidder, Forwarder
X	Feller Buncher
X	Shovel yarding
	Other:

9. 14 CCR § 1038.1(a)(4) - Designate the legal land description of the location of the timber operation. 14 CCR § 1038.2(a) attach a USGS 7.5-minute quadrangle map or equivalent map showing the location of:
- Boundaries of the Logging Area. 14 CCR § 1038.2(b)
 - Location of all Watercourses and Lakes with Class I, II, III, or IV waters. 14 CCR § 1038.2(j)
 - A larger scale map such as an assessors parcel map showing the location of Timber Operations SHALL be included. 14 CCR § 1038.2
- Additional maps, which may be topographic or planimetric, may be used to provide additional information, to show details, and improve map clarity. A legend shall be included indicating the meaning of the symbols used. It will be helpful to describe the access route to the timber operation so that it can be easily located, and/or include an assessor's parcel map for small areas. (required)

Base Meridian	Township	Range	Section	County	Logging area	
					Acreage (estimated)	Assessors Parcel # (optional)
HUM	6N	1E	16	HUM	2.7	504-192-012
HUM	6N	1E	16	HUM	1	504-192-013
HUM	6N	1E	16	HUM	2.8	507-383-003

The following are limitations or requirements for timber operations conducted under this Notice of Exemption for Fire Hazard Trees within 0-150 feet of a legally permitted structure that complies with the California Building Code:

1. This notice must be submitted to and received by CAL FIRE at the appropriate office listed below prior to the commencement of timber operations
- Coastal Special Treatment areas and Marin County the Director shall have ten calendar days from date of receipt to accept or reject the notice of timber operations.
2. 14 CCR § 1038(c) places certain limits on the harvesting of trees under this exemption. These limits need to be examined to assure compliance.
3. 14 CCR § 1038 Timber operations conducted under this notice shall comply with all operational provisions of the Forest Practice Act and District Forest Practice Rules applicable to "Timber Harvesting Plan," "THP," and "plan." Timber operations must conform to applicable city or county general plans, city or county implementing ordinances, and city or county zoning ordinances within which the exemption is located. The requirements to submit a completion and stocking report do not normally apply within the 0 to 150-foot zone.
4. Trees within 150 feet of an approved and legally permitted structure (§ 895.1) that complies with the California Building Code (includes only structures designed for human occupancy, garages, barns, stables and structures used to enclose fuel tanks). 14 CCR § 1038(c)(1)
5. Clearcutting, seed tree removal step or shelterwood removal step are not allowed under this Notice of Exemption. 14 CCR § 1038(c)(2)
6. All surface fuels created by Timber Operations, within 150 feet of an approved or legally permitted structure, that could promote the spread of wildfire, including slash and woody debris, exceeding one (1) inch in diameter, and brush, SHALL be chipped, burned, or removed within 45 days from the start of operations. 14 CCR § 1038(c)(3)
7. In addition to the surface fuel treatment described in 14 CCR § 1038(c)(3), the Harvest Area must meet the vegetation treatment standards in PRC § 4584(i)(1) to (2)(A) illustrated in Board Technical Rule Addendum No.4 within one (1) year from the receipt of issuance of notice of acceptance. 14 CCR § 1038(c)(4)
8. There are special requirements for timber operations conducted in Coastal Commission Special Treatment Areas and in counties with special rules adopted by the Board of Forestry and Fire Protection. Timber Operations shall comply with the rules associated with the specific Special Treatment

Area timber operations are within 14 CCR § 1038.1(c)(6). These rules should be reviewed prior to submitting this notice to CAL FIRE.

9. All timber operations conducted in the Lake Tahoe Region must have a valid Tahoe Basin Tree Removal Permit, as defined by TRPA, or shall be conducted under a valid TRPA memorandum of understanding, when such a permit is required by TRPA, 14 CCR § 1038.1(b)(1)
10. Timber Operations may not be conducted without a copy of the Directors notice of acceptance of the notice of exemption at the operating site, except where the Director has failed to act within the five (5) working day review period. 14 CCR § 1038.1(c)(13)(A)
11. No helicopter yarding shall be allowed 14 CCR § 1038.1(b)(3)
12. In-lieu practices within WLPZs as specified under Article 6 of these rules, exception to the rules, and alternative practices are not allowed 14 CCR § 1038.1
13. No Tractor or heavy equipment operations on slopes greater than 50%. 14 CCR § 1038.1(c)(5)
14. No construction of new tractor roads on slopes greater than 40%. 14 CCR § 1038.1(c)(5)
15. No Tractor or heavy equipment operations on known Unstable Areas. 14 CCR § 1038.1(c)(7)
16. No NEW road construction or reconstruction, as defined by 14 CCR § 895.1. 14 CCR § 1038.1(c)(8)
17. No heavy equipment operations within the standard width of a WLPZ, as defined in 14 CCR § 916.4[936.4, 956.4](b). 14 CCR § 1038.1(c)(9)
18. No timber harvesting within the standard width of a watercourse or lake protection zone, as defined in 14 CCR § 916.4 [936.4, 956.4](b), except sanitation-salvage harvesting, as defined in 14 CCR § 913.3 [933.3,953.3], where immediately after completion of operations, the area shall meet the stocking standards of 14 CCR § 912.7 [932.7,952.7](b)(2), or, except the removal of dead or dying trees where consistent with 14 CCR § 916.4 [936.4,956.4] (b). Trees to be harvested within a WLPZ shall be marked by, or under the supervision of, an RPF prior to timber operations. 14 CCR § 1038.1(c)(12)
19. ASP watersheds – No timber operations are allowed in a WLPZ, or within any ELZ or EEZ designated for watercourse or lake protection, under exemption notices except (1) Hauling on existing roads (2) Road maintenance (3) operations conducted for public safety (4) Construction or reconstruction of approved watercourse crossings (5) Temporary crossings of dry Class III watercourses that do not require notification under Fish and Game Code §1600 et seq. (6) Harvesting recommended in writing by CDFW to address specifically identified forest conditions.
20. Operations conducted under a notice of exemption are NOT permitted in known sites of rare, candidate, threatened or endangered plants and animals if the sites will be disturbed or damaged. NO timber operations may occur within a buffer zone of a listed, or sensitive species defined by 14 CCR § 895.1. 14 CCR § 1038.1(c)(10)(11)
21. If any activities related to timber operations, as defined by PRC 4527, are to include any of the following activities in any river, stream or lake, including episodic and perennial waterways, a notification to the California Department Fish and Wildlife is required pursuant to Fish and Game Code §1602: 1) A substantial alteration of the bed, bank, or channel; 2) A substantial diversion (i.e. water drafting) or obstruction of the natural flow; or 3) Use of material from or deposit of material into the watercourse. Information on the Lake and Streambed Alteration Program, as well as notification forms, may be found at the following link: <https://www.wildlife.ca.gov/conservation/lsa>.
22. The requirements to submit a completion and stocking report do not normally apply. However, Completion and Stocking reports are required for areas when operations occur within COAST, SPECIAL TREATMENT AREAS and / MARIN COUNTY. The landowner shall submit to CAL FIRE a RM-71 Completion and Stocking report. Per PRC 4585 and PRC 4587.
23. This Notice of Exemption is valid for one year from the date of receipt by CAL FIRE.
- Marin County the exemption is valid for the calendar year of acceptance.
24. A Timber Operator with a valid state license must be designated upon submission of this notice.

The following suggestions may help ensure your compliance with the Forest Practice Rules:

1. Timber Owners, Timberland owners and Timber Operators should obtain and review copies of the Forest Practice Rules pertaining to the Notice of Exemption. Copies may be obtained from BARCLAYS LAW PUBLISHERS, P.O. BOX 3086, SO. SAN FRANCISCO, CA. 94080, or from CAL FIRE, Forest Practice Section, P.O. BOX 944246, Sacramento, CA 94244-2460; or from CAL FIRE's Web Page on the Internet at <http://www.fire.ca.gov>. The Emergency rules for this exemption can be found on the Board of Forestry and Fire Protection Web page at: The CAL FIRE Web page at: http://calfire.ca.gov/resource_mgt/resource_mgt_forestpractice_pubsmemos_pubs.php

2. Contact the CAL FIRE office listed below for questions regarding the use of this notice.

FILE THIS NOTICE WITH THE CAL FIRE OFFICE BELOW FOR THE COUNTY IN WHICH THE OPERATION WILL OCCUR:

Alameda, Colusa, Contra Costa, Del Norte Humboldt, Lake, Marin, Mendocino, Napa, San Mateo, Santa Clara, Santa Cruz, Solano, Sonoma, western Trinity and Yolo Counties.	=> =>	Forest Practice Program Manager CAL FIRE 135 Ridgway Avenue Santa Rosa, CA 95401
Butte, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, eastern Trinity and Yuba Counties.	=> =>	Forest Practice Program Manager CAL FIRE §105 Airport Road Redding, CA 96002
Alpine, Amador, Calaveras, El Dorado, Fresno, Imperial, Inyo, Kern, Los Angeles, Madera, Mariposa, Merced, Mono, Monterey, Orange, Riverside, San Benito, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Stanislaus, Tuolumne, Tulare, and Ventura Counties.	=> => =>	Forest Practice Program Manager CAL FIRE 1234 East Shaw Avenue Fresno, CA 93710

CERTIFICATION OF COMPLIANCE: Timber operations conducted under this exemption subsection shall conform to the applicable city or county general plans, city or county zoning ordinances within the area the exemption is located. Must be completed by timberland owner or timber operator as listed on page one. I certify that the city or county within which this exemption is located has been contacted and the exemption is in conformance with all city and county regulatory requirements. 14 CGR § 1038(c)(5)

SIGNATURE OF THE TIMBER OWNER OR AGENT THEREOF: William S. Dann Date: 7/19/2021

Printed Name: William S Dann Title: RPF; Agent

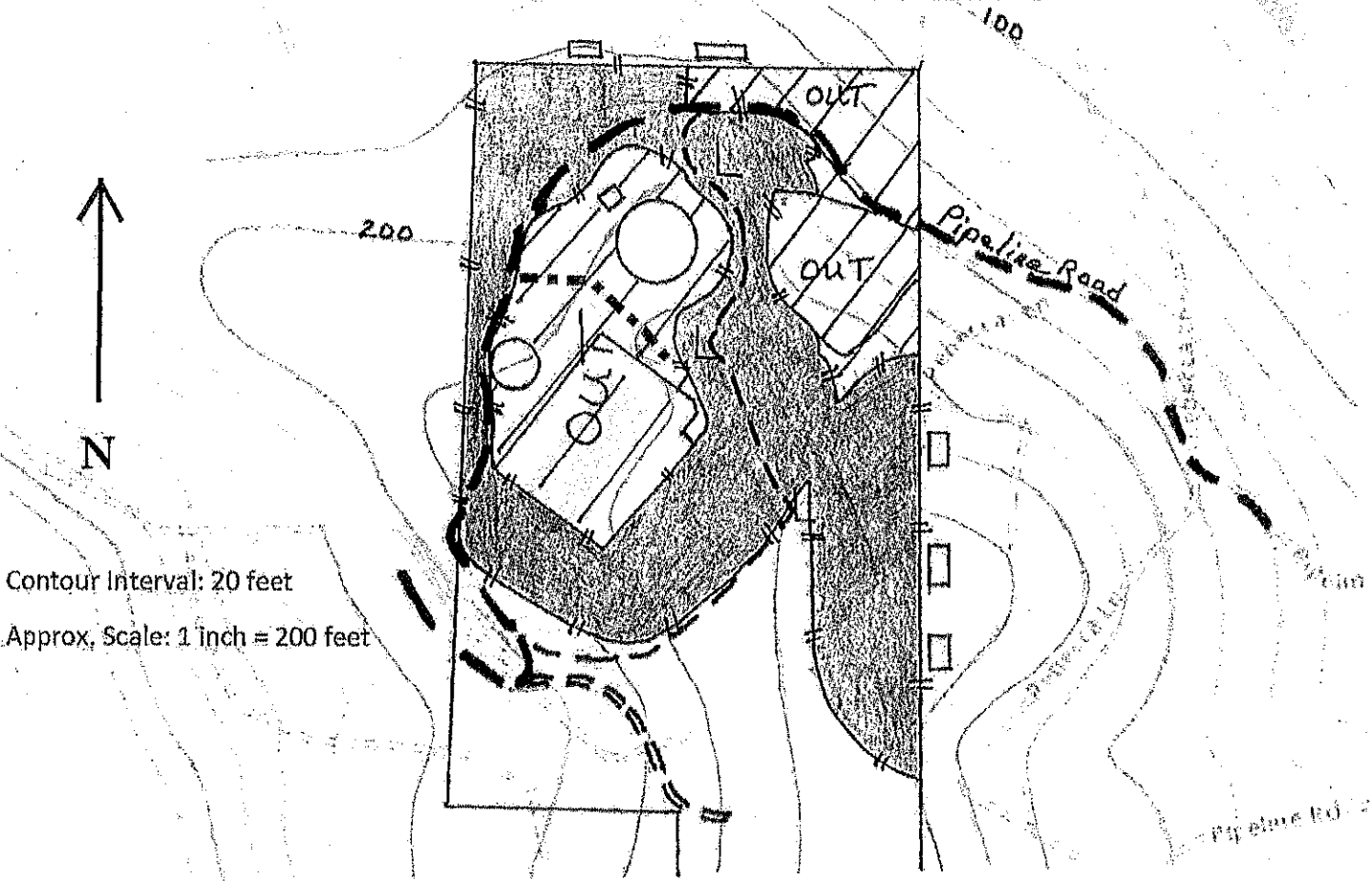
Address 2963 Pigeon Point Road

City Eureka State CA Zip 95503 Phone 707-442-3036

EMAIL: (optional) bdann5852@gmail.com

5

HBMWD - TRF
 STRUCTURE PROTECTION EXEMPTION 0-150'
 Ptn Sec 16, T6N, R1E, HB&M
 Arcata North 7.5' Quadrangle

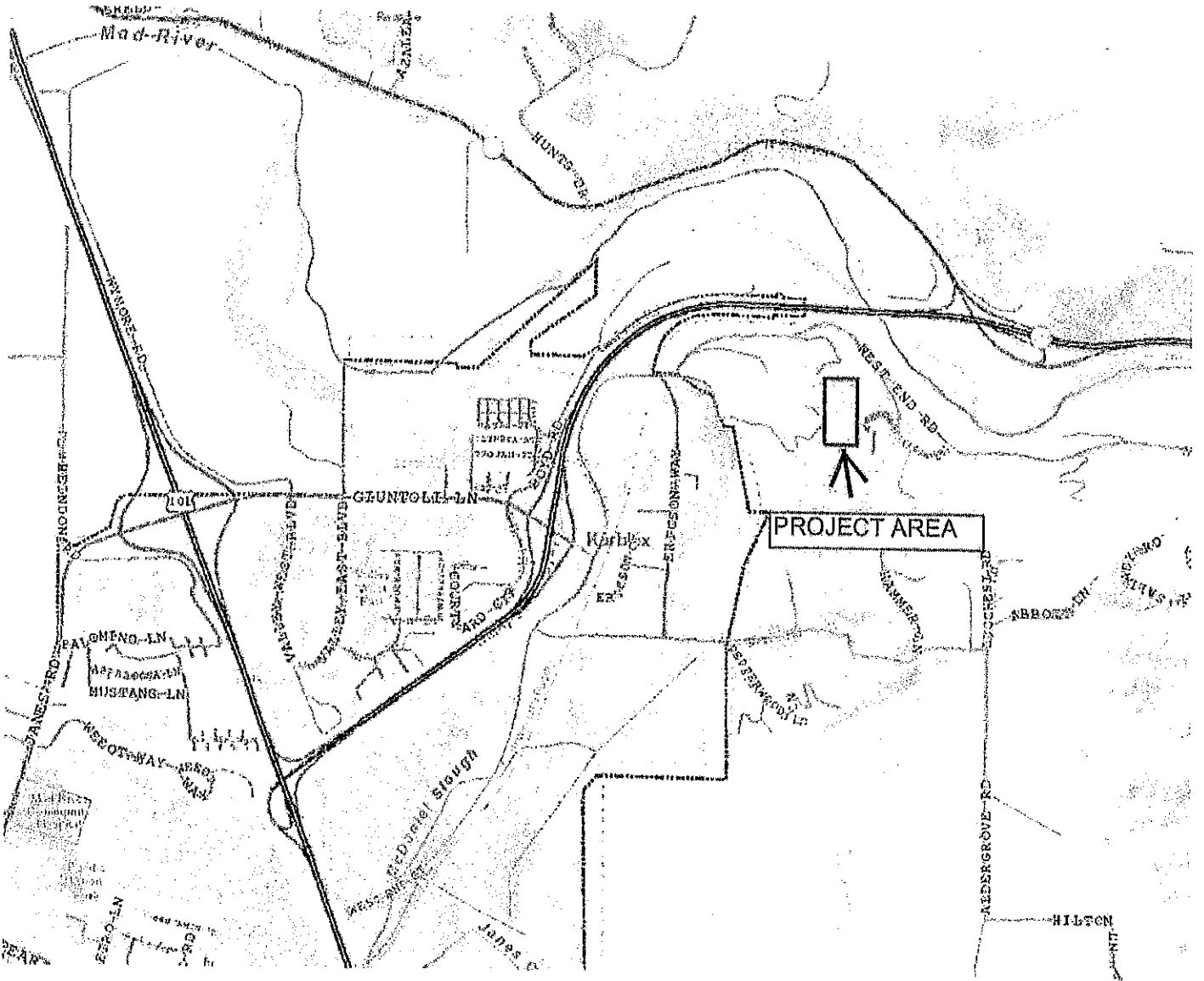


LEGEND

Property Bndy	— — — — —
Project Area	
Structures	□, ○
Permanent Road	— — — — —
Existing Seasonal Road	== == == == ==
Proposed Seasonal Road	- - - - -
Landing(s)	L

6.

HBMWD
STRUCTURE PROTECTION 0-150 FIRE SAFE EXEMPTION
VICINITY MAP
PTN. SEC 16, T6N, R1E HB&M; AP# 504-192-012
Arcata North 7.5' Quadrangle



*Attachment to 0 – 150 foot Structure Protection Exemption
for HBMWD AP # 504-192-012, 504-192-013, 507-383-003*

Treatment of Slash within the areas designated for 150 foot Exemption

Pursuant to 14CCR 1038 (c):

(c) The cutting or removal of trees in compliance with PRC §§ 4290 and 4291 which eliminates the vertical continuity of vegetative fuels and the horizontal continuity of tree crowns for the purpose of reducing flammable materials and maintaining a fuelbreak to reduce fire spread, duration, and intensity.

(1) Only trees within one-hundred-fifty (150) feet from any point of an approved and legally permitted structure that complies with the California Building Code may be harvested, except as specified in 14 CCR § 1038(c)(6).

(2) The following silvicultural methods may not be used: clearcutting, seed tree removal step, shelterwood removal step.

(3) All surface fuels created by timber operations, within 150 ft of an approved and legally permitted structure, which could promote the spread of wildfire, including logging slash and debris, deadwood, branches exceeding one (1) inch in diameter, and brush, shall be chipped, burned, or removed within forty-five (45) days from the start of timber operations. This paragraph does not apply to surface fuels created beyond 150 ft pursuant to 14 CCR § 1038 (c)(6).

(4) In addition to the slash treatment described in 14 CCR § 1038(c)(3), the areas of timber operations must meet the vegetation treatment standards in PRC 4584(1)(1) to (2)(A) illustrated in Technical Rule Addendum No.4 within one year from the receipt of issuance of notice of acceptance. This paragraph does not apply to surface fuels created beyond 150 ft pursuant to 14 CCR § 1038 (c)(6).

8.

1038 Exemption

Persons who conduct the following types of Timber Operations are exempt from the plan preparation and submission requirements (PRC § 4581) and from the completion report and stocking report requirements (PRC §§ 4585 and 4587) of the FFA with the following exceptions and requirements:

(i) no tree that existed before 1800 A.D and is greater than sixty (60) inches in diameter at stump height for Sierra or Coastal Redwoods, and forty-eight (48) inches in diameter at stump height for all other tree species shall be harvested unless done so under the conditions or criteria set forth in subsection 1038(h).

(ii) all timber operations conducted in the Lake Tahoe Region pursuant to 14 CCR § 1038 must have a valid Tahoe Basin Tree Removal Permit (as defined by the Tahoe Regional Planning Agency) or shall be conducted under a valid TRPA Memorandum of Understanding (MOU), when such a permit is required by TRPA.

(a) Harvesting Christmas trees.

(b) Harvesting dead, dying or diseased trees of any size, fuelwood or split products in amounts less than 10% of the average volume per acre when the following conditions are met:

(1) No tractor or heavy equipment operations on slopes greater than 50%.

(2) No construction of new tractor roads on slopes greater than 40%.

(3) Timber operations within any Special Treatment Area, as defined in 14 CCR 895.1, shall comply with the rules associated with that Special Treatment Area.

(4) No tractor or heavy equipment operations on known slides or unstable areas.

(5) No new road construction or reconstruction, as defined in 14 CCR 895.1.

(6) No heavy equipment operations within the standard width of a watercourse or lake protection zone, as defined in 14 CCR 916.4 [936.4, 956.4](b), except for maintenance of roads and drainage facilities or structures.

(7) No known sites of rare, threatened or endangered plants or animals will be disturbed, threatened or damaged.

(8) No timber operations within the buffer zone of a sensitive species, as defined in 14 CCR 895.1.

(9) No timber harvesting within the standard width of a watercourse or lake protection zone, as defined in 14 CCR 916.4 [936.4, 956.4](b), except sanitation-salvage harvesting, as defined in 14 CCR 913.3 [933.3, 953.3], where immediately after completion of operations, the area shall meet the stocking standards of 14 CCR 912.7 [932.7, 952.7](b)(2), or, except the removal of dead or dying trees where consistent with 14 CCR 916.4 [936.4, 956.4] (b). Trees to be harvested shall be marked by, or under the supervision of, an RPF prior to timber operations.

(10) No timber operations on any site that satisfies the criteria listed in 895.1 for a significant archaeological or historical site. Information on some of these sites may be available from the Information Centers of the California Historical Resources Information System within the Department of Parks and Recreation.

→ (c) The cutting or removal of trees in compliance with PRC §§ 4290 and 4291 which eliminates the vertical continuity of vegetative fuels and the horizontal continuity of tree crowns for the purpose of reducing flammable materials and maintaining a fuelbreak to reduce fire spread, duration, and intensity.

(1) Only trees within one-hundred-fifty (150) feet from any point of an approved and legally permitted structure that complies with the California Building Code may be harvested, except as specified in 14 CCR § 1038(c)(6).

(2) The following silvicultural methods may not be used: clearcutting, seed tree removal step, shelterwood removal step.

(3) All surface fuels created by timber operations, within 150 ft of an approved and legally permitted structure, which could promote the spread of wildfire, including logging slash and debris, deadwood, branches exceeding one (1) inch in diameter, and brush, shall be chipped, burned, or removed within forty-five (45) days from the start of timber operations. This paragraph does not apply to surface fuels

CALIFORNIA FOREST PRACTICE RULES

created beyond 150 ft pursuant to 14 CCR § 1038 (c)(6).

(4) In addition to the slash treatment described in 14 CCR § 1038(c)(3), the areas of timber operations must meet the vegetation treatment standards in PRC 4584(i)(1) to (2)(A) illustrated in Technical Rule Addendum No.4 within one year from the receipt of issuance of notice of acceptance. This paragraph does not apply to surface fuels created beyond 150 ft pursuant to 14 CCR § 1038 (c)(6).

(5) In addition to the limitations listed in 14 CCR § 1038(b)(1)-(10), the following apply:

(A) The timber operator, or if applicable the Registered Professional Forester (RPF), shall provide the Director the tentative commencement date of timber operations on the notice required in 14CCR 1038.2. Within a fifteen (15) day period before beginning timber operations, the timber operator shall notify the Department of the actual commencement date for the start of operations. The starting date shall be directed to the designated personnel at the appropriate CDF Ranger Unit Headquarters by telephone, email, or by mail.

(B) Timber operations conducted under this subsection shall conform to applicable city or county general plans, city or county implementing ordinances, and city or county zoning ordinances within which the exemption is located. The timber operator, timberland owner, or if applicable the RPF, shall certify that the city or county has been contacted and the exemption conforms with all city or county regulatory requirements.

(C) Timber operations may not be conducted without a copy of the Director's notice of acceptance of the exemption at the operating site, except where the Director has failed to act within the 5 working-day review period.

(6) Trees that are located from one-hundred-fifty (150) feet up to three-hundred (300) feet from any point of an Approved and Legally Permitted Habitable Structure that complies with the California Building Code may also be cut and removed for the purpose of reducing flammable materials and maintaining a fuelbreak provided the following conditions are met:

(A) The post-harvest stand shall be primarily comprised of healthy and vigorous dominant and codominant trees well distributed throughout the treated area and meet the stocking standards consistent with 14 CCR § 913.2 [933.2, 953.2].

(B) The Quadratic Mean Diameter (QMD) of trees greater than eight (8) inches dbh in the pre-harvest project area shall be increased in the post-harvest stand.

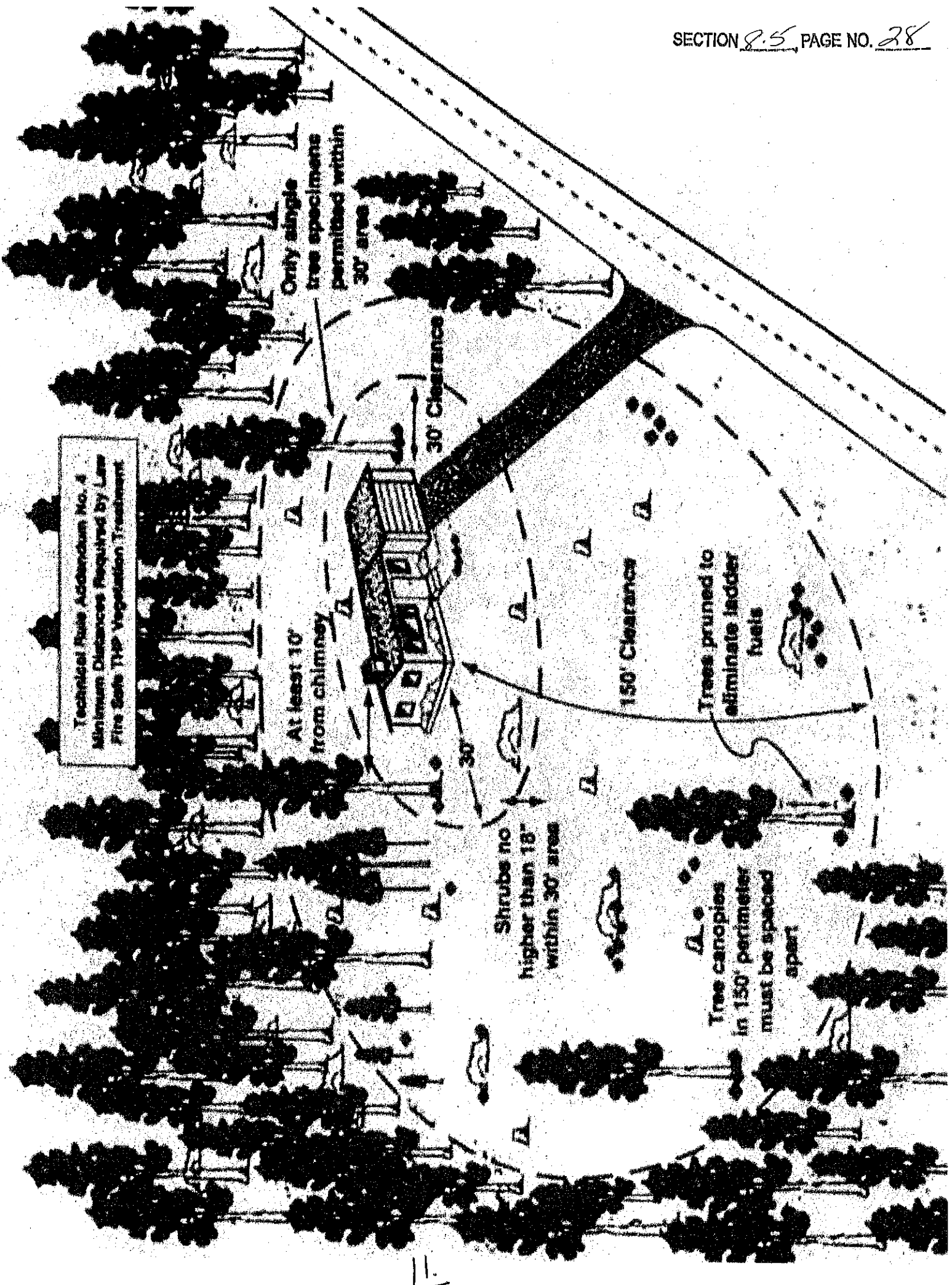
(C) All logging slash created by the timber operations shall be lopped, removed, chipped, piled and burned, or otherwise treated to achieve a maximum post-harvest depth of eighteen (18) inches above the ground within forty-five (45) days from the start of timber operations except for the burning of piles, which shall be accomplished not later than April 1 of the year following their creation, or for piles created on or after September 1, not later than April 1 of the second year following creation. Treatment of surface fuels by burning shall be exempt from the one year time limitations described under 14 CCR § 1038.1.

(D) The Notice of Exemption, pursuant to 14 CCR § 1038.2, shall be prepared, signed, and submitted to the Department by a RPF.

(E) The Notice of Exemption shall include site class, an estimate of pre and post-harvest QMD and certification by the RPF that, in their professional judgment, post-harvest slash treatment and stand conditions will lead to more moderate fire behavior.

(F) 14 CCR § 1038(c)(6) shall expire on January 1, 2019.

(G) The Department shall evaluate the effects of the exemption allowed under 14 CCR § 1038(c)(6) including frequency and state-wide distribution of use, acres treated, compliance, professional judgment regarding post-treatment stand conditions observed relative to moderating fire behavior and actual performance in the event of a wildfire. The Department shall, annually, report its findings, based on this evaluation, to the Board



Technical Rule Addendum No. 4
Minimum Distances Required by Law
Fire Safe The Vegetation Treatment

Only single
tree specimens
permitted within
30' area

At least 10'
from chimney

30' Clearance

150' Clearance

Shrubs no
higher than 18"
within 30' area

Trees pruned to
eliminate ladder
fuels

Tree canopies
in 150' perimeter
must be spaced
apart

11.

High Degree of Horizontal Continuity



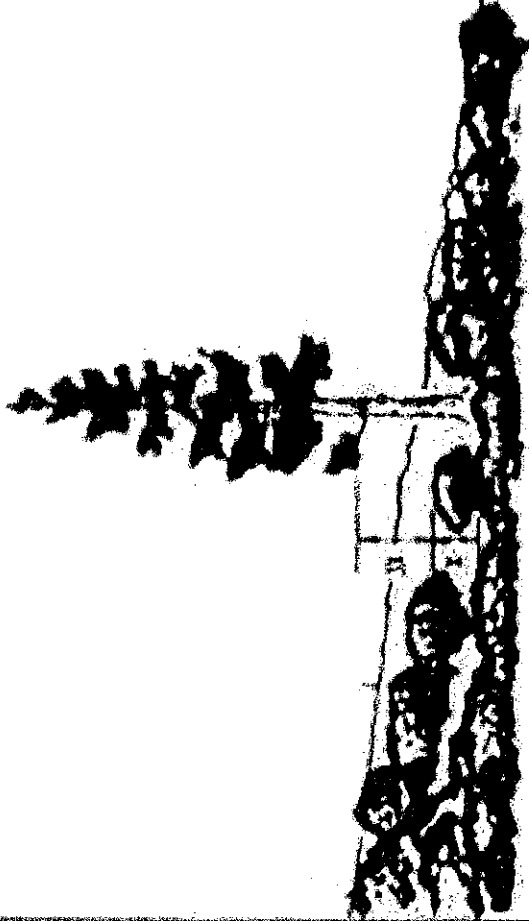
12.

Low Degree of Horizontal Continuity



HORIZONTAL CONTINUITY OF FUELS

REMOVAL OF LADDER FUELS

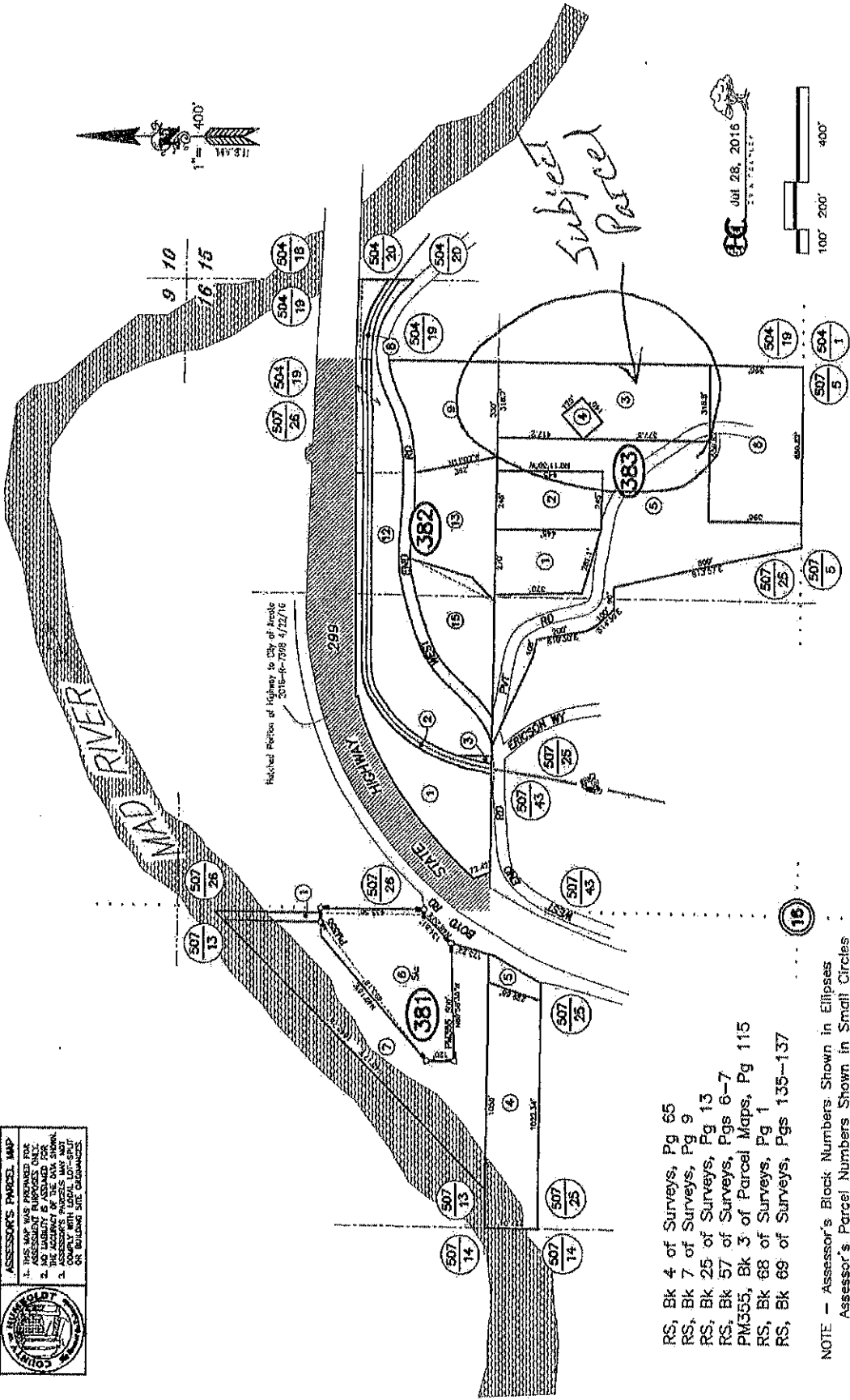
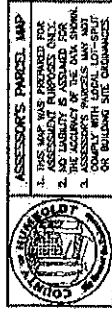


HBMWD - TRF 0-150' Structure Protection Exemption
 AP # 507-383-003

507-38

PTN SEC 16, T6N R1E, HB&M

Assessor's Map Bk. 507, Pg. 38
 County of Humboldt, CA



- RS, Bk 4 of Surveys, Pg 65
- RS, Bk 7 of Surveys, Pg 9
- RS, Bk 25 of Surveys, Pg 13
- RS, Bk 57 of Surveys, Pgs 6-7
- PM355, Bk 3 of Parcel Maps, Pg 115
- RS, Bk 68 of Surveys, Pg 1
- RS, Bk 69 of Surveys, Pgs 135-137

NOTE - Assessor's Black Numbers Shown in Ellipses
 Assessor's Parcel Numbers Shown in Small Circles

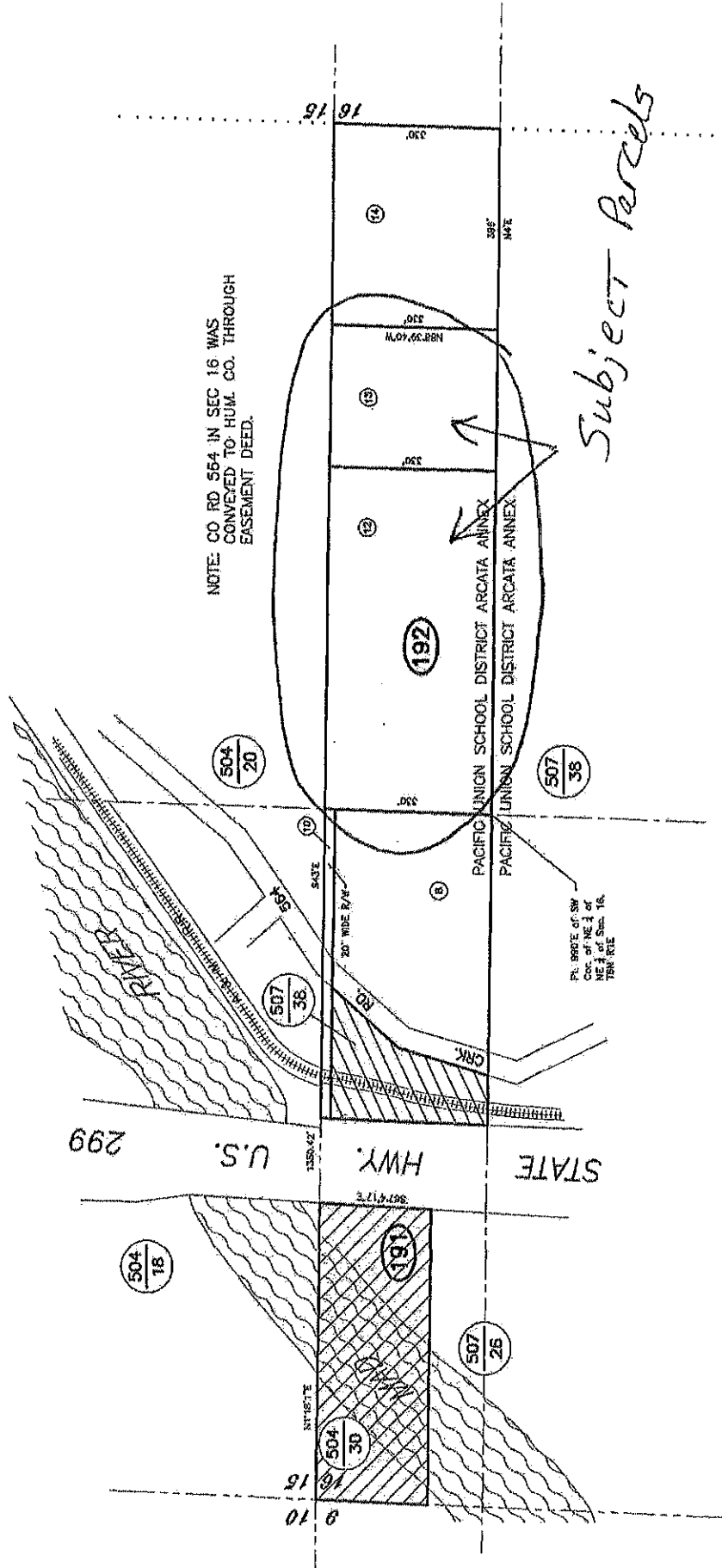
13.

*HBMWD - TRF 0-150' Structure Protection Exemption
 AP# 504-192-012 & 504-192-013*

Assessor's Map Bk.504, Pg.19
 County of Humboldt, CA.

PTN. NE 1/4 SEC 16 T6N R1E

504-19



Subject Parcels

SECTION 85, PAC NO. 31



ASSESSOR'S PARCEL MAP
 1. THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY.
 2. THE ACCURACY OF THIS MAP SHOWS THE ACCURACY OF THE DATA SHOWN.
 3. ASSESSOR'S PARCELS MAY NOT BE BOUNDARY SURVEY DOCUMENTS.

NOTE - Assessor's Block Numbers Shown in Ellipses
 Assessor's Parcel Numbers Shown in Circles.



Sep 25, 2018
 RUSSELL DUTRETT

Zoning Info

Parcel: 507-383-003-000

507-383-003-000

Assessor Parcel Number	444 PIPELINE RD
Old APN	ARCATA
Site Address	95521
Site City	Book 507-38 Page
Site Zip	7.24
Assessor Parcel Map	7.24
Assessed Lot Size	103008
GIS Acres	PE
Tax Rate Area	ACPA
Current General Plan	AG
Community Plan	Public Land, Schools, Non Taxable Entities
Zoning with Combining Zones	8000
Zoning Ordinance Date	N
Use Code Description	
Use Code	
Development Plan on file(Y/N)	
In Coastal Zone (Y/N)	
Coastal Jurisdiction	
In 100 Year Flood Zone (Y/N)	
FEMA FIRM Flood Rating and Panel Number	
Year Built	
Agricultural preserve (Y/N)	
Alquist-Priolo fault hazard zone(Y/N)	
Geologic report requirements	
Relative Slope Stability	
Alternative Owner-Builder Area	
Airport Compatibility Zone	
Census Tract 2010	
Census Block 2010	
State Fire Responsibility Area	

15.

Zoning Info

Parcel: 504-192-012-000

Assessor Parcel Number
504-192-012-000

Old APN

Site Address

Site City

Site Zip

Assessor Parcel Map
Book 504-19 Page

Assessed Lot Size
5.03

GIS Acres
5.03

Tax Rate Area
103006

Current General Plan
PF

Community Plan
ACPA

Zoning with Combining Zones
AG

Zoning Ordinance Date

Use Code Description
Public Land, Schools, Non Taxable Entities

Use Code
8000

Development Plan on file(Y/N)

In Coastal Zone (Y/N)
N

Coastal Jurisdiction

In 100 Year Flood Zone (Y/N)
N

FEMA FIRM Flood Rating and Panel Number

Year Built

Agricultural preserve (Y/N)

Alquist-Priolo fault hazard zone(Y/N)
N

Geologic report requirements

Relative Slope Stability
2

Alternative Owner-Builder Area

Airport Compatibility Zone
N

Census Tract 2010
12

Census Block 2010
210

State Fire Responsibility Area
Y

16

Zoning Info.

Parcel: 504-192-013-000

Assessor Parcel Number
504-192-013-000

Old APN

Site Address

Site City

Site Zip

Assessor Parcel Map

Book 504-19 Page

Assessed Lot Size

2.12

GIS Acres

2.12

Tax Rate Area

103006

Current General Plan

PE

Community Plan

ACPA

Zoning with Combining Zones

AG

Zoning Ordinance Date

Use Code Description
Public Land, Schools, Non Taxable Entities

Use Code

8000

Development Plan on file(Y/N)

In Coastal Zone (Y/N)

N

Coastal Jurisdiction

In 100 Year Flood Zone (Y/N)

N

FEMA FIRM Flood Rating and Panel Number

Year Built

Agricultural preserve (Y/N)

Alquist-Priolo fault hazard zone(Y/N)

N

Geologic report requirements

Relative Slope Stability

2

Alternative Owner-Builder Area

Airport Compatibility Zone

N

Census Tract 2010

12

Census Block 2010

210

State Fire Responsibility Area

Y

From: [Bill Dann](#)
To: [Santa Rosa Review Team@CALFIRE](mailto:SantaRosaReviewTeam@CALFIRE)
Subject: Structure Protection Exemption 0-150
Date: Wednesday, July 21, 2021 10:27:23 PM
Attachments: [HBMWD-TRF 0-150 SPE.pdf](#)

Warning: this message is from an external user and should be treated with caution.

Please see attached SPE 0-150 for Humboldt Bay Municipal Water District -TRF parcel.

Respectfully,
Bill Dann - RPF #1825

Exhibit B

1-21EX-01091-HUM



DEPARTMENT OF FORESTRY AND FIRE PROTECTION
 NORTHERN REGION HEADQUARTERS - SANTA ROSA
 135 Ridgway Avenue
 Santa Rosa, CA, 95401
 (707) 576-2959
 Website: www.fire.ca.gov



August 12, 2021

William Dann
 2963 PIGEON POINT RD
 EUREKA, CA 95503

Less than 3 Acre Conversion
 No: 1-21EX-01091-HUM

Letter of Acceptance

This letter acknowledges acceptance of your "Notice of Exemption" per **Title 14, California Code of Regulations, Section 1104.1(a)** from plan preparation and submission requirements (PRC 4581) where there is intent to convert less than three (3) acres of timberland to some other use other than timber production (PRC 4526).

Timber operations shall comply with all other applicable provisions of the Z'berg-Nejedly Forest Practice Act, regulations of the Board and the currently effective provisions of the county general plans, zoning ordinances and any implementing ordinances. Refer to the full regulatory requirements addressing conversion exemptions listed in Title 14 Code of Regulations (CCR) 1104.1.

The below list represents a few operational requirements specific to the Less than three (3) acre conversion

- 1104.1(a) - Limited to one less than three (3) acre conversion per person within a five-year period except as provided by CCR 1104.1(a)(9).
- 1104.1(a)(2)(A) - This conversion exemption **EXPIRES August 10, 2022**. All timber operations shall be complete within one year of receipt.
- 1104.1(a)(2)(B) - Conversion activities shall be complete within two years of acceptance.
- 1104.1(a)(2)(D) - Timber operator is responsible for treating logging slash and woody debris.
- 1104.1(a)(2)(F) - No timber operations within a WLPZ unless specifically approved by local permit.
- 1104.1(a)(2)(E) - Tractor operations in the winter period may be conducted under any of the three conditions provided in this section.
- 1104.1(a)(2)(H) - No sites of rare, threatened, or endangered plants or animals shall be disturbed, threatened, or damaged.
- 1104.1(a)(2)(I) - No timber operations on significant historical or archaeological sites. Sites may be preserved in place but require a Department Archaeologist concurrence at time of submittal.

Other Agency Considerations:

- **Regional Water Quality Control Boards** (Regional Boards) regulate waste discharges from timber harvest activities. The Regional Boards may have special requirements for timber harvesting conducted under this exemption. Please contact your local Regional Water Control Board with any questions regarding compliance with the California Water Code.
- **Department of Fish and Wildlife** (DFW) may require notification if the timber operations will substantially divert or obstruct the natural flow of, or substantially change or use any material from the bed, channel, or bank of any river, stream, or lake. Information on the Lake and Streambed Alteration Program and other DFW programs can be found at the following internet address: <https://www.wildlife.ca.gov/Conservation/Environmental-Review>

On-site inspection will be conducted by local CAL FIRE Unit Forest Practice Inspectors to evaluate compliance with all the provisions of the Forest Practice Act and Rules. For questions regarding the above referenced exemption, please contact the appropriate regional office listed above or contact the local CAL FIRE Unit for your County.

1-21EX-01091-HUM

Sincerely,



Dominik Schwab, RPF #2823
Resource Manager – Coast

cc: Unit, BOE, PS/TLO/TO, LTO, File

To view Exemption Notices, please visit: <https://caltreesplans.resources.ca.gov/caltrees/>

LESS THAN 3 ACRE CONVERSION EXEMPTION

STATE OF CALIFORNIA
DEPARTMENT OF FORESTRY AND FIRE PROTECTION
NOTICE OF TIMBER OPERATIONS THAT ARE EXEMPT FROM
CONVERSION AND TIMBER HARVESTING PLAN REQUIREMENTS
RM-73 (1104.1a) (01/2019)

EX. # 1-21EX-01091-HUM
Date of Receipt AUG 9 2021
Date Validated by CAL FIRE AUG 12 2021
Date Expires AUG 10 2022

VALID FOR ONE YEAR FROM DATE RECEIPT BY CAL FIRE.
OPERATIONS CANNOT COMMENCE FOR FIFTEEN DAYS AFTER RECEIPT AND A NOTICE OF VALIDATION IS RECEIVED FROM CAL FIRE.

The Director of the Department of Forestry and Fire Protection (CAL FIRE) is hereby notified of timber operations under the requirements of 14 CCR § 1104.1(a): Harvesting of trees that is a single conversion to a non-timber growing use of timberland of less than three acres. (See 14 CCR § 1104.1(a) for a description of the conditions on the conduct of this type of timber operation and additional information that is *required* to be submitted.) Complete items 1 through 8 on both pages of this notice.

1. Registered Professional Forester preparing Notice: Name William S. Dann Number 1825

Address: 2963 Pigeon Point Road

City Eureka State CA Zip 95503 Phone 707-442-3036

I have, or my supervised designee has, (1) prepared this Notice of Conversion Exemption Timber Operations; (2) visited the site and flagged the boundaries of the conversion exemption, applicable WLPZs and equipment limitation zones; (3) prepared a Neighborhood Notice of Conversion Exemption according to 14 CCR § 1104.1(a)(3) to be mailed by the landowner to adjacent landowners; and (4) posted and dated a copy of the Neighborhood Notice of Conversion Exemption on the ownership, visible to the public, at least 5 days prior to the postmark date of submission of the Notice of Conversion Exemption. I certify that if the County Board of Supervisors has not designated a representative authorized to sign in item 6 that I, or my supervised designee, contacted the county and the Notice is in conformance with county regulations.

SIGNATURE of RPF (required) William S. Dann Date 7/19/2021

2. LICENSED TIMBER OPERATOR(S): Name Steve Morris Logging Lic. No. A8292

Address 1500 Glendale Drive

City Arcata State CA Zip 95521 Phone 707-822-8537

SIGNATURE Steve Morris

3. TIMBERLAND OWNER(S) OF RECORD: Name Humboldt Bay Municipal Water District

Address ATTN: John Friedenbach, 828 7th Street

City Eureka State CA Zip 95501 Phone 707-443-5018

I certify, under penalty of perjury, that This is a one-time conversion to a non-timberland use and that there is a "BONA FIDE INTENT" [14 CCR § 1100(b)] to convert to: (required) Open Space/Future Structure

(State what the conversion will be to)
SIGNATURE: Humboldt Bay Municipal Water District
by John Friedenbach, General Manager Date 7/20/21

4. TIMBER OWNER(S) OF RECORD: Name SAME AS ITEM #3
 Address _____
 City _____ State _____ Zip _____ Phone _____

5 NOTICE SUBMITTER(S): Name SAME AS ITEM #3
 Address _____
 City _____ State _____ Zip _____ Phone _____

Submitter must be 2,3 or 4 above, and must sign.

SIGNATURE John F. Fiedler, General Manager Date 7/20/21

6. COUNTY BOARD OF SUPERVISORS DECLARATION: (required)
 I, Steve Lazar, on behalf of John Ford, declare as the authorized designee of the County Board of Supervisors that this conversion exemption is in conformance with all county regulatory requirements, including public notice. (If the county has authorized a designee this item MUST be completed. If it has not, see Item 1.)

SIGNATURE [Signature] Date 8/6/21

TIMBER TAX NOTICE: The TIMBER OWNER is responsible for payment of a yield tax.

For timber yield tax information or for assistance with these questions call 1-800-400-7115, or write: Timber Tax Section, MIC: 60, California Department of Tax and Fee Administration, P.O. Box 942879, Sacramento, CA 94279-0060; or see the CDTFA Web Page on the Internet <http://www.cdtfa.ca.gov>.

TIMBER TAX INFORMATION: Some small or low value harvests may be exempt from the timber yield tax (Revenue and Taxation Code sec. 38116)

Timber Owners may be considered exempt if the value of the harvesting operations does not exceed \$3,000 dollars within a quarter, according to CDTFA Harvest Value Schedules, Rule 1024.

IF THE TIMBER OWNER BELIEVES HARVESTING MAY BE EXEMPT (see timber tax exemption language above for low value harvests) PLEASE CHECK BELOW:

FINAL DETERMINATION of tax exempt status will be made by the Timber Tax Section of the California Department of Tax and Fees Administration. If you think you are exempt based on the directions above please complete the below information so the Timber Tax Section can make the final determination.

IF YOU WOULD LIKE CDTFA TIMBER TAX SECTION TO CONSIDER A TAX EXEMPTION BASED ON PROJECTED HARVEST PLEASE COMPLETE THE INFORMATION BELOW.

A. Circle the option that most closely estimates the total volume for this harvest, in thousands of board feet (mbf - Net Scribner short log):

Under 8 mbf 8-15 mbf 16-25 mbf **Over 25 mbf**

B. Estimate what percentage of timber will be removed during this harvest: (percentages provided should equal 100%)

Redwood 85%; Ponderosa/Sugar pine _____%; Douglas-fir _____%; Fir 5%;

Port-Orford Cedar _____%; Cedar (IC, WRC) _____%; Other conifer 10%; Other hardwood _____%.

- C. Fuelwood over 150 cords? Yes No D. Christmas trees over 3,000 lineal feet? Yes No

7. 14 CCR § 1038 (i) - Is it anticipated that a tree existing before 1800 A.D. greater than 60 inches' diameter at stump height for Sierra or Coastal Redwoods or 48 inches in diameter at stump height for all other tree species will be harvested? YES NO (required)

NOTE: If yes please refer to 14 CCR § 1038(h) and have an RPF prepare an explanation and justification described in 14 CCR § 1104.1 (i) to be included at Submission

8. Has the Timberland Owner, whether acting as an individual, partnership or as an employee of a corporation or other legal entity obtained a conversion on a contiguous land ownership within the last 5 years? YES NO (required)

NOTE: If YES then the landowner may not apply for the conversion. The Timberland Owner may request a waiver of the five-year limitation with the Department per 14 CCR § 1104.1(a)(9)(A)(1-3)(E-D)

9. Has all or a portion of the contiguous land ownership been subject to a PRIOR, unpermitted Timberland conversion? (required)
 YES NO

If YES please provide a description or information to assist the Director in determining that this conversion would be consistent with the purpose of the Act.
 (optional)

NOTE: Per 14 CCR § 1104.1(a) This conversion exemption is applicable to a conversion of Timberland to a non-timber use only, of less than three acres in one contiguous ownership, whether or not it is a portion of a larger land parcel and shall not be part of a THP. This conversion exemption may only be used once per contiguous land ownership. If all or a portion of the contiguous land ownership has been subject to prior, unpermitted Timberland conversion, a conversion exemption hereunder shall not be accepted unless the Director determines that it would be consistent with the purposes of the Act

10. Will Timber operations occur within the winter period? YES NO Not Anticipated, but possible

NOTE: If YES refer to 14 CCR § 1104.1(a)(2)(E)(1-3) for specific requirements

11. Has the County / City approved by, local permit, operations within a WLPZ? YES NO

NOTE: timber operations are NOT allowed within a WLPZ without approval by county or city approval.

12. Have significant archaeological sites been identified within the project area? (required) YES NO

- If yes will the site be preserved in place? YES NO

- If yes please provide written concurrence from the Departments Archaeologist at the time of submission.

13. Designate the legal land description of the location of the timber operation. Attach a USGS 7.5-minute quadrangle or equivalent map showing the location of timber operations, it would be helpful to describe the access route to the timber operation so that it can be easily located, and/or include an assessor's parcel map for small areas. (required)

Base Meridian	Township	Range	Section	County	Logging Area Acreage (Estimated)	(required) Assessor's Parcel #
HUM	6N	1E	16	HUM	0.4	504-192-012
HUM	6N	1E	16	HUM	1.7	504-192-013
HUM	6N	1E	16	HUM	0.8	507-383-003

The following are limitations or requirements for timber operations conducted under a Less Than Three Acre Conversion Exemption: (Notice, Notice of Conversion Exemption, Conversion Exemption):

1. Timber operations shall comply with all other applicable provisions of the Forest Practice Act and regulations, county general plans, zoning ordinances, State regulations and any implementing ordinances; copies of the state rules and regulations may be found on CAL FIRE's Web Page on the Internet at <http://www.fire.ca.gov>.
2. All timber operations shall be complete within one year from the date of acceptance by CAL FIRE. 14 CCR § 1104.1(a)(2)(A)
3. All conversion activities shall be complete within two years from the date of acceptance by CAL FIRE unless under permit by local jurisdiction. Failure to complete the conversion requires compliance with stocking standards and stocking report requirements of the Forest Practice Act and Board of Forestry and Fire Protection regulations. 14 CCR § 1104.1(a)(2)(B)
4. The RPF or supervised designee shall visit the site and flag the boundary of the conversion exemption timber operations and flag any applicable WLPZs and equipment limitation zones. 14 CCR § 1104.1(a)(2)(C)
5. The Timber Operator shall be the responsible party for the treatment of logging slash and woody debris. 14 CCR 1104.1(a)(2)(D)
6. Timber operations may be conducted during the winter period. Tractor operations in the winter period are allowed under any of the conditions described in 14 CCR § 1104.1(a)(2)(E)(1-3)
7. No timber operations are allowed within a watercourse and lake protection zone unless specifically approved by local permit (e.g., county, city). 14 CCR § 1104.1(a)(2)(F)
8. No timber operations shall be conducted until CAL FIRE's notice of acceptance is received and a valid copy of this notice and CAL FIRE's acceptance shall be kept on site during timber operations.
9. Before beginning Timber Operations, the Timber Operator shall notify the Department of the actual commencement date of operations. The notification, by telephone, mail, or email, shall be directed to the appropriate CAL FIRE Unit Headquarters, Forest Practice Inspector or other designated personnel. If the notification is provided by mail, Timber Operations may not commence until three (3) days after the postmark date of notification. 14 CCR § 1104.1(a)(2)(K)
10. Operations conducted under a notice of exemption are NOT permitted in known sites of rare, candidate, threatened or endangered plants and animals if the sites will be disturbed or damaged. NO timber operations may occur within a buffer zone of a listed, or sensitive species defined by 14 CCR § 895.1
11. If any activities related to timber operations, as defined by PRC 4527, are to include any of the following activities in any river, stream or lake, including episodic and perennial waterways, a notification to the California Department Fish and Wildlife is required pursuant to Fish and Game Code §1602: 1) A substantial alteration of the bed, bank, or channel; 2) A substantial diversion (i.e. water drafting) or obstruction of the natural flow; or 3) Use of material from or deposit of material into the watercourse. Information on the Lake and Streambed Alteration Program, as well as notification forms, may be found at the following link: <https://www.wildlife.ca.gov/conservation/lisa>.
12. No timber operations are allowed on significant historical or archeological sites. See question #12 Above. Exception can be made if site is preserved and written concurrence is received, at time of submission of the Notice, from the Department Archeologist. 14 CCR § 1104.1(a)(2)(1)(1)(a-b)
13. A violation of the conversion exemption, including a conversion applied for in the name of someone other than the person or entity implementing the conversion in bona fide good faith, are violations of the Forest Practice Act and penalties may accrue up to ten thousand dollars (\$10,000) for each violation pursuant to Article 8 (commencing with Section 4601).
14. Within one month of the completion of timber operations including slash disposal the landowner shall submit to CAL FIRE a RM-71 Completion and Stocking report. Per PRC 4585 and PRC 4587.
15. Timber operations conducted under this notice shall comply with all operational provisions of the Forest Practice Act and District Forest Practice Rules applicable to "Timber Harvesting Plan," "THP," and "plan." Timber operations must conform to applicable city or county general plans, city or county implementing ordinances, and city or county zoning ordinances within which the exemption is located.

The following suggestions may help ensure your compliance with the Forest Practice Rules:

1. Timber Owners, Timberland Owners and Timber Operators should obtain and review copies of the Forest Practice Rules pertaining to the Notice of Exemption. Copies may be obtained from BARCLAYS LAW PUBLISHERS, P.O. BOX 3066, SO. SAN FRANCISCO, CA. 94080. or from CAL FIRE, Forest Practice Section, P.O. BOX 944246, Sacramento, CA 94244-2460; or from CAL FIRE's Web Page on the Internet at <http://www.fire.ca.gov>.
2. Contact the CAL FIRE office listed below for questions regarding the use of this notice.

FILE THIS NOTICE WITH THE CAL FIRE OFFICE BELOW FOR THE COUNTY IN WHICH THE OPERATION WILL OCCUR:

4.

Alameda, Colusa, Contra Costa, Del Norte Humboldt, Lake, Marin, Mendocino, Napa,
San Mateo, Santa Clara, Santa Cruz, Solano, Sonoma, western Trinity and Yolo Counties.

=> Forest Practice Program Manager
=> CAL FIRE
135 Ridgway Avenue
Santa Rosa, CA 95401

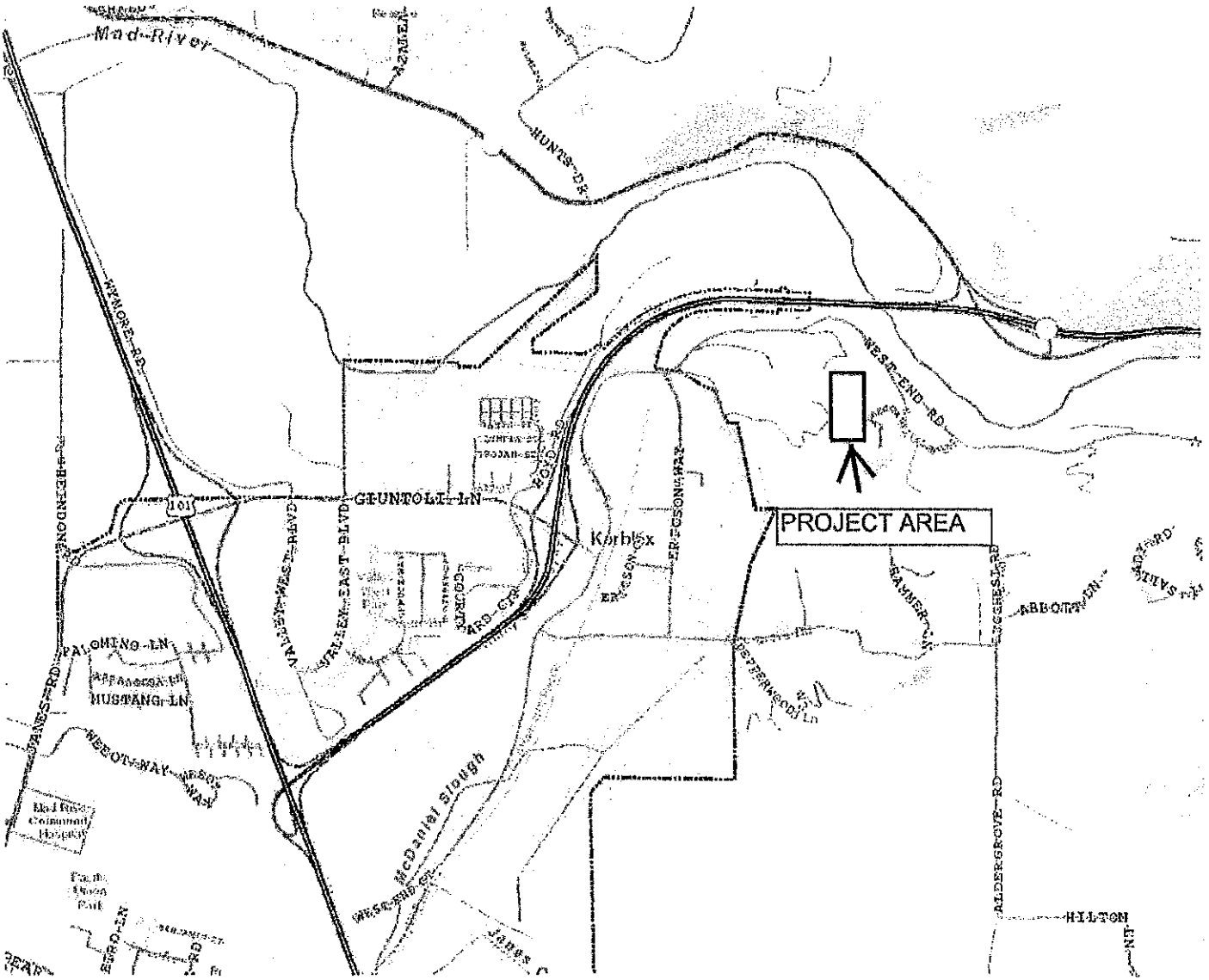
Butte, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Shasta,
Sierra, Siskiyou, Sutter, Tehama, eastern Trinity and Yuba Counties.

=> Forest Practice Program Manager
=> CAL FIRE
6105 Airport Road
Redding, CA 96002

Alpine, Amador, Calaveras, El Dorado, Fresno, Imperial, Inyo, Kern, Los Angeles,
Madera, Mariposa, Merced, Mono, Monterey, Orange, Riverside, San Benito, San Bernardino,
San Diego, San Luis Obispo, Santa Barbara, Stanislaus, Tuolumne, Tulare, and Ventura Counties.

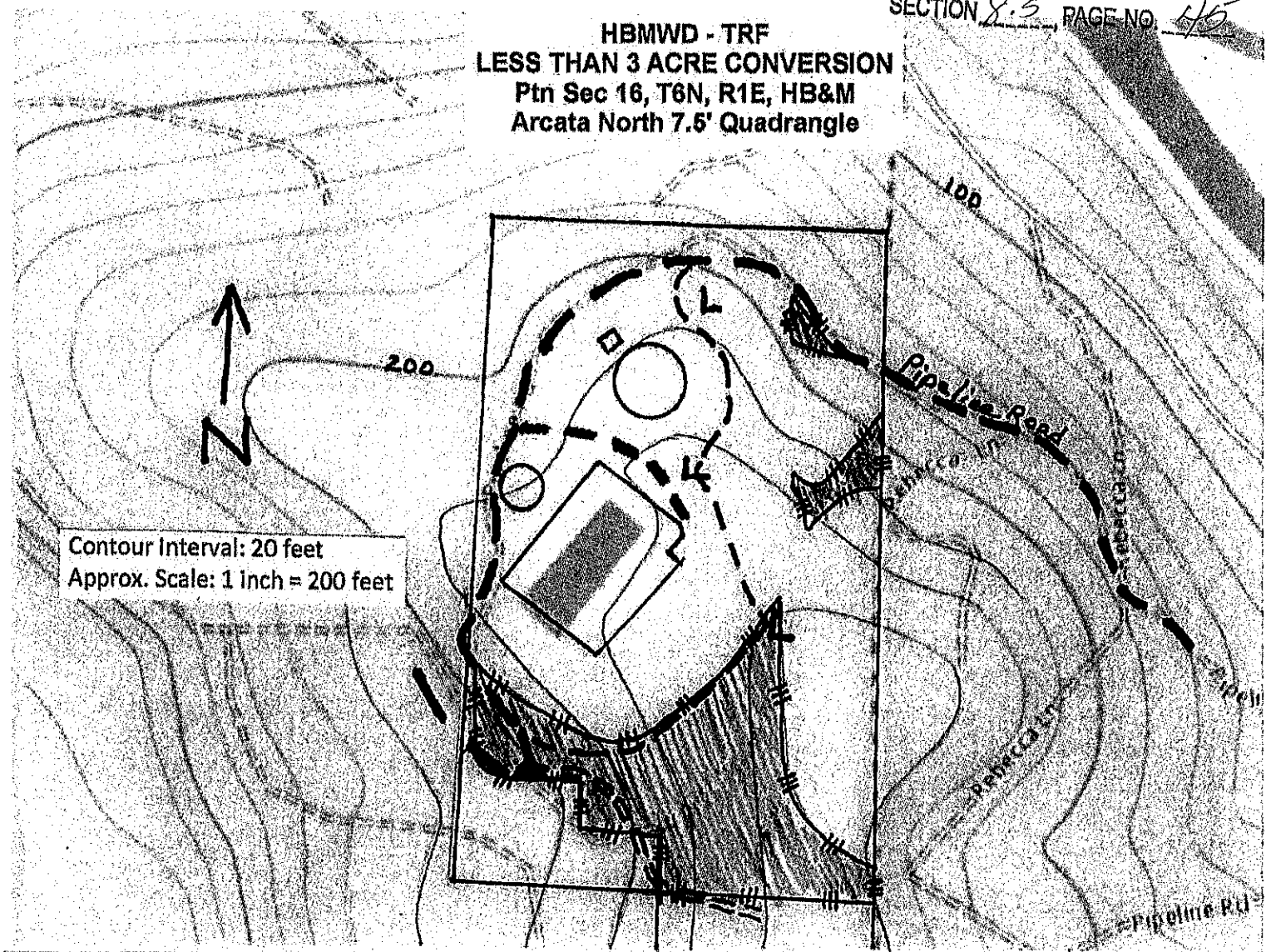
=> Forest Practice Program Manager
=> CAL FIRE
=> 1234 East Shaw Avenue

HBMWD - TRF
LESS THAN 3 ACRE CONVERSION
VICINITY MAP
PTN. SEC 16, T6N, R1E HB&M
Arcata North 7.5' Quadrangle


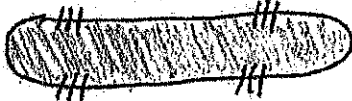
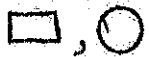

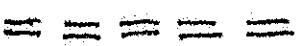




6.

HBMWD - TRF
LESS THAN 3 ACRE CONVERSION
Ptn Sec 16, T6N, R1E, HB&M
Arcata North 7.5' Quadrangle



LEGEND

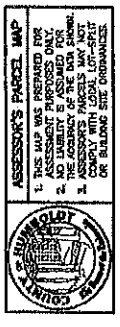
- Property Bndy 
- Project Area 
- Structures 
- Permanent Road 
- Existing Seasonal Road 
- Proposed Seasonal Road 
- Landing(s) 

AGMWD-TRF < 3 Ac. Cond. Exemption AP Map 1 of 2

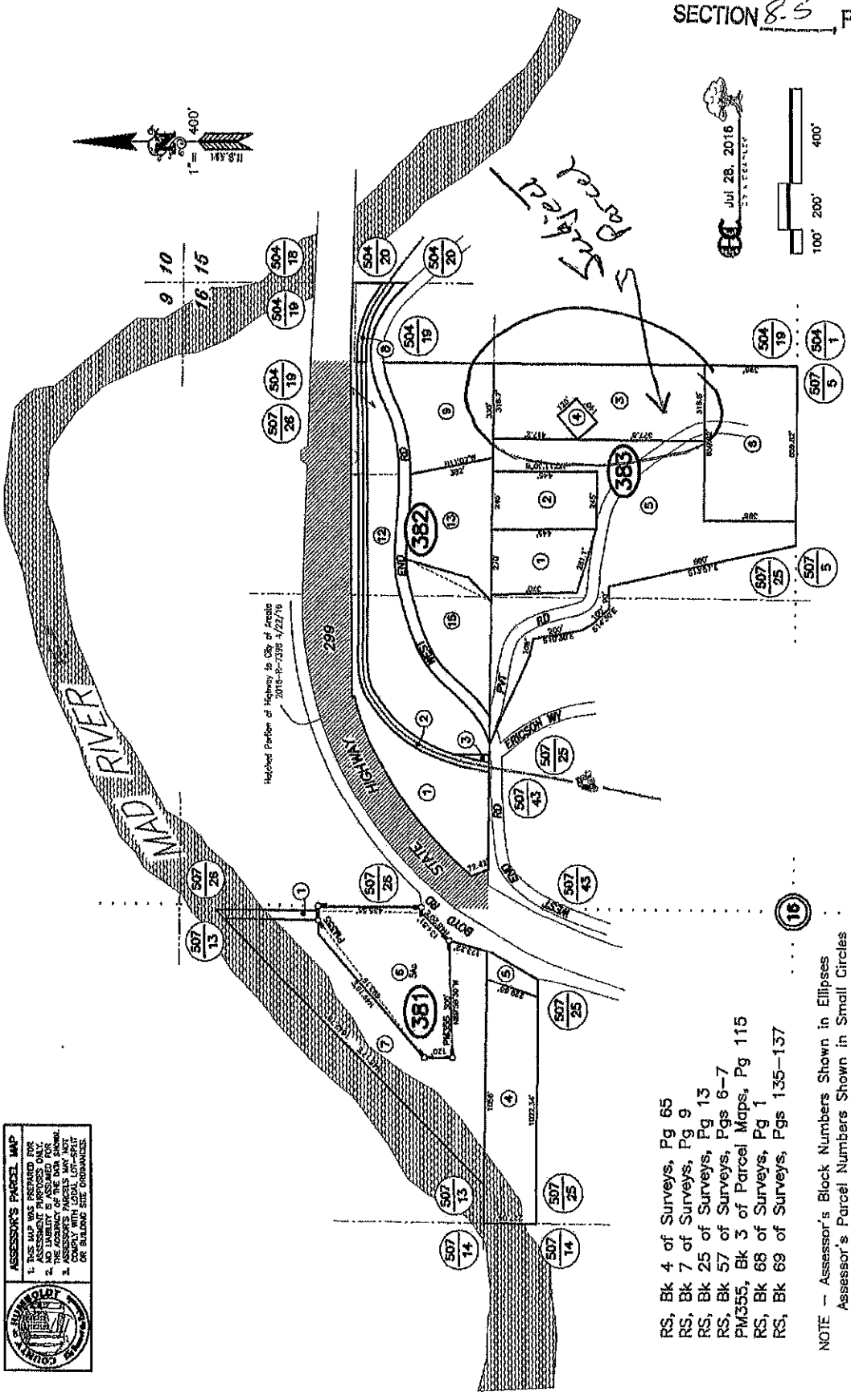
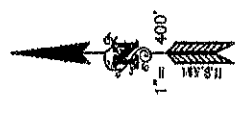
507-38

PTN SEC 16, T6N R1E, HB&M

Assessor's Map Bk. 507, Pg. 38
County of Humboldt, CA



ASSESSOR'S PARCEL MAP
1. THIS MAP WAS PREPARED FOR THE COUNTY OF HUMBOLDT, CALIFORNIA, AND LIABILITY IS ASSIGNED FOR THE ACCURACY OF THE DATA SHOWN.
2. THIS MAP WAS PREPARED IN ACCORDANCE WITH LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES.



RS, Bk 4 of Surveys, Pg 65
RS, Bk 7 of Surveys, Pg 9
RS, Bk 25 of Surveys, Pg 13
RS, Bk 57 of Surveys, Pgs 6-7
PM355, Bk 3 of Parcel Maps, Pg 115
RS, Bk 68 of Surveys, Pg 1
RS, Bk 69 of Surveys, Pgs 135-137

NOTE - Assessor's Block Numbers Shown in Ellipses
Assessor's Parcel Numbers Shown in Small Circles

181

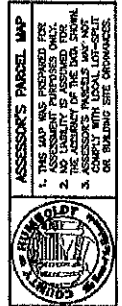
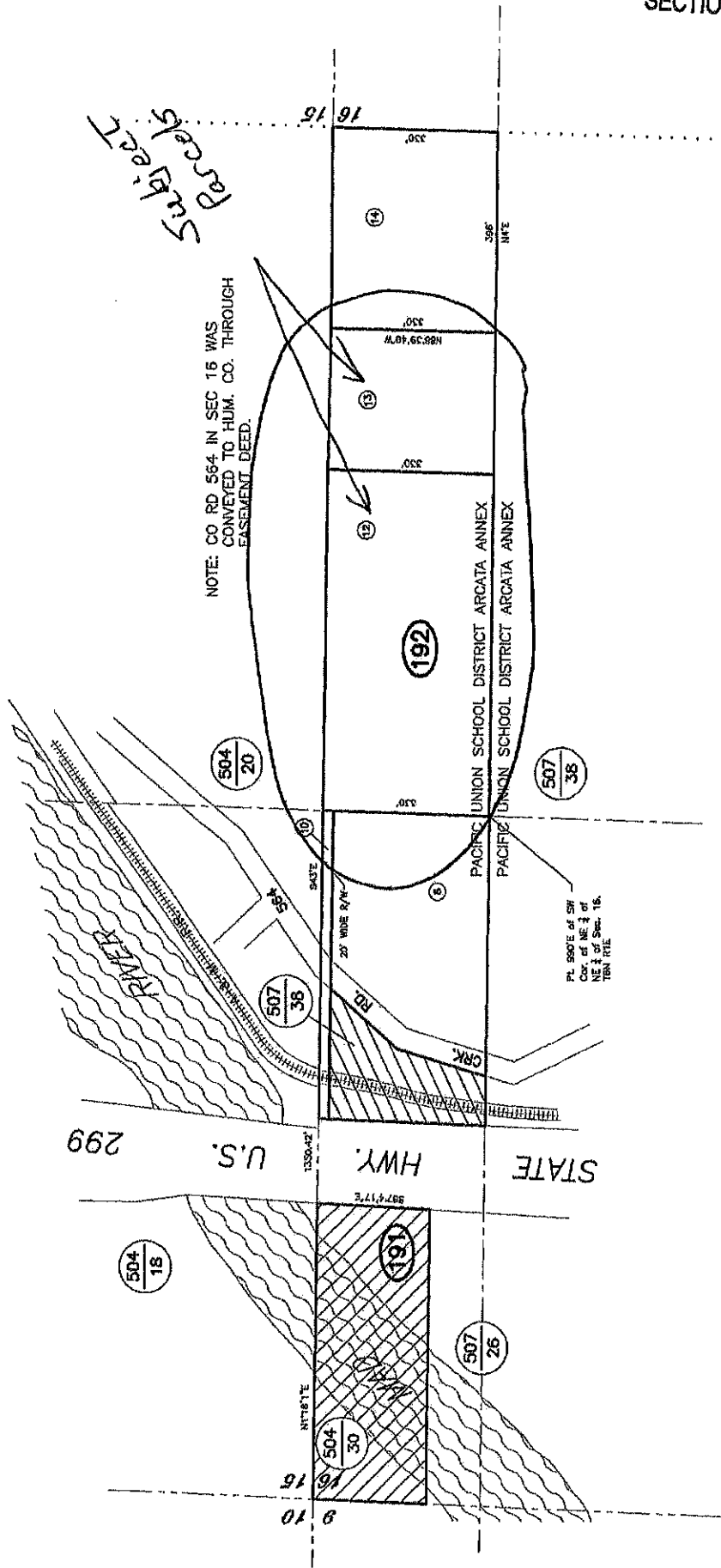
HBMWD - TRF 4.3 Ac. Conv. Exemption
 AP #'s 504-192-012 & 504-192-013

AP Map 2 of 2

Assessor's Map Bk.504, Pg.19
 County of Humboldt, CA.

PTN. NE 1/4 SEC 16 T6N R1E

504-19



ASSASSOR'S PARCEL MAP
 1. THIS MAP WAS PREPARED FOR
 2. THE COUNTY OF HUMBOLDT
 3. THE COUNTY OF HUMBOLDT
 4. THE COUNTY OF HUMBOLDT
 5. THE COUNTY OF HUMBOLDT

NOTE -- Assessor's Block Numbers Shown in Ellipses
 Assessor's Parcel Numbers Shown in Circles.

RS, Bk 11 of Surveys, Pg 122
 RS, Bk 19 of Surveys, Pg 34

SECTION 8.5 PAGE NO. 47



Sep 25, 2014
 RUSSELL

19.

*Attachment to Less Than 3 acre Timberland Conversion Exemption***Addendum 14CCR 1104.1(a)(2)(D) – Treatment of Logging Slash and Woody Debris**

(D) This section refers to slash and woody debris resulting from timber operations associated with conversion exemptions. The timber operator shall be the responsible party for the treatment of logging slash and woody debris. Responsibility for treatment of logging slash and woody debris may be assumed by the landowner, provided that the landowner acknowledges in writing to the Director at the time of notice such responsibility and specific slash and woody debris treatment requirements and timing.

(1) Unless otherwise required, slash greater than one inch in diameter and greater than two feet long, and woody debris, except pine, shall receive full treatment no later than April 1 of the year following its creation, or within one year from the date of acceptance of the conversion exemption by the Director, whichever comes first.

(2) All pine slash three inches and greater in diameter and longer than four feet must receive initial treatment if it is still on the parcel, within 7 days of its creation.

(3) All pine woody debris longer than four feet must receive an initial treatment prior to full treatment.

(4) Initial treatment shall include limbing woody debris and cutting slash and woody debris into lengths of less than four feet, and leaving the pieces exposed to solar radiation to aid in rapid drying.

(5) Full treatment of all pine slash and woody debris must be completed by March 1 of the year following its creation, or within one year from the date of acceptance of the conversion exemption by the Director, whichever comes first.

(6) Full slash and woody debris treatment may include any of the following:

- a. burying;
- b. chipping and spreading;
- c. piling and burning; or
- d. removing slash and woody debris from the site for treatment in compliance with (a)-(b).

Slash and woody debris may not be burned by open outdoor fires except under permit from the appropriate fire protection agency, if required, the local air pollution control district or air quality management district. The burning must occur on the property where the slash and woody debris originated.

(7) Slash and woody debris, except for pine, which is cut up for firewood shall be cut to lengths 24 inches or less and set aside for drying by April 1 of the year following its creation. Pine slash and woody debris which is cut up for firewood shall be cut to lengths 24 inches or less and set aside for drying within seven days of its creation.

All treatment work must be completed prior to the expiration date for the conversion exemption.

(8) Any treatment which involves burning of slash or woody debris shall comply with all state and local fire and air quality rules.

(9) This section does not supersede more restrictive treatments or time frames within a Forest district or sub district.

Attachment to:
Less than Three Acre Conversion Exemption – HBMWD

To: Department of Forestry & Fire Protection
135 Ridgeway Ave.
Santa Rosa, CA 95401

Re: AP # 504-192-012 Humboldt County

This exemption proposes to convert a portion of rural improved timberland into a non-timbered area to obtain open space and area for future structure. Humboldt County officials have reviewed the exemption application, visited the site, and approved the proposed action from their jurisdiction per their signature on the attached harvest exemption form. The project area totals less than 3 acres.

Pursuant to 14CCR 1104.1(a)(6)(A)&(B):

The extent of the vegetation removal and site preparation required for the conversion;

The conversion area consists of second growth redwood and douglas-fir with incidental white wood tree species of merchantable size and the associated understory shade tolerant brush, forbs and grasses. The conversion area will require timber harvesting, treatment of logging slash and woody debris and limited site preparation of some areas of brush that may survive the timber harvest activities. Minor grading is expected to occur on the landing site(s) to remove vegetation and limbs and debris but no major excavation is required. Slash generated from operations will be treated pursuant to 14CCR 1104.1(a)(2)(D) included in the plan as an attachment.

The suitability of soils, slope, aspect, and microclimate for the stated non-timber use;

The slopes vary from flat in most of the area to moderate (40%) slopes on the North end. Aspects vary from flat to Northeasterly to South. The soils, slope, aspect and microclimate are all suitable for the stated open space use. The property is zoned AG.

Pursuant to 14CCR 1104.1(a)(2)(E)1,2,3:

Operations during the Winter Period may occur;

1. During dry rainless periods so long as soils are not saturated to the extent that significant sediment discharge is produced. Erosion control structures shall be installed on all constructed skid trails and tractor roads prior to sunset if the National Weather Service forecast is a "chance" (30% or more) of rain within the next 24 hours.
2. When ground conditions in the conversion area and appurtenant roads satisfy the "hard frozen" definitions in 14CCR 895.1.
3. Over-snow operations where no soil disturbance occurs.

Appurtenant access roads to this project area are paved and graveled. There will be no timber cutting in any WLPZ.

Attachment to:
Less than Three Acre Conversion Exemption
For HBMWD-TRF

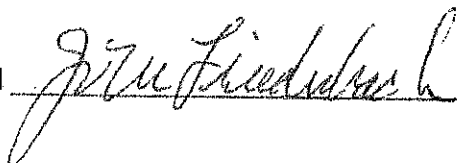
To: Department of Forestry & Fire Protection
135 Ridgeway Ave.
Santa Rosa, CA 95401

Re: AP # 504-192-012

Pursuant to 14CCR 1104.1(a)(1)(E)(4):

I, John Friedenbach, certify and declare under penalty of perjury that I represent the timberland owner (HBMWD) of the subject parcel. I am the general manager of HBMWD. We have not obtained an exemption pursuant to this section in the last five years, nor have we been granted a waiver of the same on this parcel or any contiguous parcel(s).

Signed



Date

5/15/2021

**Less Than 3 Acre Conversion Exemption
NOTICE OF TIMBER OPERATIONS**

Date of posting of this notice: May 15, 2021

A conversion exemption that may be of interest to you will be submitted to the California Department of Forestry and Fire Protection. The California Department of Forestry and Fire Protection will be reviewing the proposed timber operation for compliance with various laws and rules. The following briefly describes the proposed conversion exemption and where and how to get more information. Questions about the proposed conversion exemption or laws and rules governing timber operations should be directed to:

California Department of Forestry and Fire Protection
Forest Practice Program
135 Ridgeway Avenue
Santa Rosa, California 95402
(707) 576 - 2959

Information about the conversion exemption is as follows:

1. **TIMBER OWNER OF RECORD: Humboldt Bay Municipal Water District**
Address: **ATTN: John Friedenbach 828 7th Street**
City: **Eureka** State: **CA** Zip: **95501** Phone: **707-443-5018**

2. **TIMBERLAND OWNER OF RECORD: SAME**
Address:
City: State: Zip: Phone:

3. **LICENSED TIMBER OPERATOR(S): Steve Morris Logging**
Address: **1500 Glendale Drive**
City: **Arcata** State: **CA** Zip: **95521** Phone: **707-822-8537**

4. **Registered Professional Forester Preparing Notice: William S. Dann** Number: **1825**
Address: **2963 Pigeon Point Road**
City: **Eureka** State: **CA** Zip: **95503** Phone: **(707) 442-3036 - Please feel free to call me if you have any questions or concerns**

AGENCY OF HUMBOLDT COUNTY RESPONSIBLE FOR LAND USE CHANGES: Humboldt County Planning Department

PROJECT LOCATION: 444 Pipeline Road, Arcata, CA 95521
Ptn. Sec 16, T6N, R1E, HB&M; AP# 504-192-012

TYPE OF CONVERSION: This is a conversion of timbered land to open space/future structure. The maximum size of the conversion is less than 3 acres.

Humboldt Bay Municipal Water District TRF -- Less Than 3 acre Conversion

LIST OF ADJACENT LANDOWNERS W/IN 300 FEET

Assessor's Parcel Number	Mailing Address
507-382-009	6363 West End Road, Arcata, CA 95521
504-192-008	6521 West End Road, Arcata, CA 95521
504-201-018	6644 West End Road, Arcata, CA 95521
504-201-034	6635 West End Road, Arcata, CA 95521
504-201-049	250 Rebecca Lane, Arcata, CA 95521
504-201-051	200 Rebecca Lane, Arcata, CA 95521
504-201-050	220 Rebecca Lane, Arcata, CA 95521
507-383-006	5969 West End Road, Arcata, CA 95521
507-383-005	5957 West End Road, Arcata, CA 95521

William S. Dann
2963 Pigeon Point Road
Eureka, CA 95503

*Example of notices
sent to adjacent owners
along with copy of
Vicinity Map*

May 15, 2021

Current Resident
6363 West End Road,
Arcata, CA 95521

Dear Sir/Madam,

I am a Registered Professional Forester preparing a Timberland Conversion Exemption (per 14CCR 1104.1 of the California Forest Practice Rules) on a parcel within 300 feet of your property. I am hereby notifying you of the operation and furnishing the following information:

1. **TIMBER OWNER OF RECORD: Humboldt Bay Municipal Water District**
Address: **ATTN: John Friedenbach 828 7th Street**
City: **Eureka** State: **CA** Zip: **95501** Phone: **707-443-5018**
2. **TIMBERLAND OWNER OF RECORD: SAME**
Address:
City: State: Zip: Phone:
3. **LICENSED TIMBER OPERATOR(S): Steve Morris Logging**
Address: **1500 Glendale Drive**
City: **Arcata** State: **CA** Zip: **95521** Phone: **707-822-8537**
4. **Registered Professional Forester Preparing Notice: William S. Dann** Number: **1825**
Address: **2963 Pigeon Point Road**
City: **Eureka** State: **CA** Zip: **95503** Phone: **(707) 442-3036**

AGENCY OF HUMBOLDT COUNTY RESPONSIBLE FOR LAND USE CHANGES: **Humboldt County Planning Department**

PROJECT LOCATION: **444 Pipeline Road, Arcata, CA 95521**
Ptn. Sec 16, T6N, R1E, HB&M; AP# 504-192-012

TYPE OF CONVERSION: **This is a conversion of timbered land to open space/future structure. The maximum size of the conversion is less than 3 acres.**

Please call me at **707-442-3036** if you have any questions.

Sincerely yours,



William S. Dann
RPF #1825

15.

**Native American Contact List
Humboldt County – January 1, 2021
(Central Division - Trinidad South to Loleta)**

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Blvd., Room 100
West Sacramento, CA 95691
(916) 373-3710
FAX (916) 373-5471
Attn.: Ms. Gayle Totton gayle.totton@nahc.ca.gov

Bear River Band of Rohnerville Rancheria*
Edwin Smith, Vice Chairman
Erika Cooper, Tribal Historic Preservation Officer
266 Kiesner Road
Loleta, CA 95551
Tribal Affiliation: Wiyot, Mattole
(707) 733-1900 / (707) 733-1723 Fax

Blue Lake Rancheria*
Claudia Brundin, Chairperson
Arla Ramsey, Tribal Administrator
Janet Eidsness, Tribal Historic Preservation Officer
Jacob Pounds, Assistant Tribal Historic Preservation Officer
P. O. Box 428
Blue Lake, CA 95525
Tribal Affiliation: Wiyot, Yurok, Tolowa
(707) 668-5101 / (707) 668-4272 Fax

Wiyot Tribe*
Ted Hernandez, Chairman
Cultural Director/Tribal Historic Preservation Officer
1000 Wiyot Drive
Loleta, CA 95551
Tribal Affiliation: Wiyot Tribe
(707) 733-5055 / (707) 733-5601 Fax

Yurok Tribe of California*
Culture Department
Rosie Clayburn, Yurok Tribal Historic Preservation Officer
HC 67
P.O. Box 1027
Klamath, CA 95548
Tribal Affiliation: Yurok
(707) 482-1350 ext 1309
(707) 498-2536 (cell)
rclayburn@yuroktribe.us

William S. Dann
2963 Pigeon Point Road
Eureka, CA 95503

*Example of notices
sent to Native American
contacts along with
copy of vicinity map*

May 15, 2021

Bear River Band of Rohnerville Rancheria
Attn: Erika Cooper, Tribal Historic Preservation Officer
266 Kiesner Road
Loleta, CA 95551

Dear Sir/Madam,

I am a Registered Professional Forester preparing a Timberland Conversion Exemption (per 14CCR 1104.1 of the California Forest Practice Rules) on a parcel within 300 feet of your property. I am hereby notifying you of the operation and furnishing the following information:

1. **TIMBER OWNER OF RECORD: Humboldt Bay Municipal Water District**
Address: **ATTN: John Friedenbach 828 7th Street**
City: **Eureka** State: **CA** Zip: **95501** Phone: **707-443-5018**
2. **TIMBERLAND OWNER OF RECORD: SAME**
Address:
City: State: Zip: Phone:
3. **LICENSED TIMBER OPERATOR(S): Steve Morris Logging**
Address: **1500 Glendale Drive**
City: **Arcata** State: **CA** Zip: **95521** Phone: **707-822-8537**
4. **Registered Professional Forester Preparing Notice: William S. Dann** Number: **1825**
Address: **2963 Pigeon Point Road**
City: **Eureka** State: **CA** Zip: **95503** Phone: **(707) 442-3036**

AGENCY OF HUMBOLDT COUNTY RESPONSIBLE FOR LAND USE CHANGES: **Humboldt County Planning Department**

PROJECT LOCATION: **444 Pipeline Road, Arcata, CA 95521**
Ptn. Sec 16, T6N, R1E, HB&M; AP# 504-192-012

TYPE OF CONVERSION: **This is a conversion of timbered land to open space/future structure. The maximum size of the conversion is less than 3 acres.**

Please call me at **707-442-3036** if you have any questions.

Sincerely yours,



William S. Dann
RPF #1825

17.

COUNTY OF HUMBOLDT
PLANNING AND BUILDING DEPARTMENTNOTICE AND ACKNOWLEDGMENT OF LAND USE LIMITATIONS
Timberland Conversion

OWNER(S): HBMWD
LOCATION: 444 Pipeline Road, Arcata, Ca. 95521
ASSESSOR PARCEL NO.: 504-192-012 APPLICATION NO.: _____
Bona Fide Use (Basis for proposed conversion): Open Space/Future Structure
ZONING: AG

Pursuant to Section 311-10 of the Humboldt County Zoning Regulations (Title III, Division I, Humboldt County Code), no building shall be erected or premises used in a manner other than included among the uses permitted in the zone in which the property is located.

A less-than-3-acre conversion of timberland is being sought pursuant to 14 CCR § 1104.1(a) to effectuate a bona fide use on the subject parcel, as described above and in the application materials on file with Cal-FIRE. Sections 313 and 314-55.4.8.2 of the Commercial Medical Marijuana Land Use Ordinance (CMMLUO) prohibit the commercial cultivation of cannabis for medical use within new areas of timberland conversion (not in existence as of January 1, 2016). Additionally, Sections 313 & 314-55.4.8.2.2 prohibit expansion of an existing area under cultivation, unless qualifying in accordance with 313 & 314-55.4.8.2.1 of the CMMLUO.

Use of the proposed conversion area for commercial activities involving cannabis, constitutes a violation of County Code and will subject the owner to possible enforcement action by the County, which may include administrative penalties and/or criminal prosecution.

ACKNOWLEDGMENT:

I have read and acknowledge the land use limitations under which this property and buildings/structures may be used consistent with provisions of the County Zoning Regulations.

Humboldt Bay Municipal Water District
by John Friedenbach, General Manager
Property Owner

5/15/2021
Date

HBMWD, John Friedenbach - MGR
Property Owner

Date

Zoning Info.

Parcel: 507-383-003-000

Assessor Parcel Number
507-383-003-000

Old APN

Site Address
444 PIPELINE RD

Site City
ARCATA

Site Zip
95521

Assessor Parcel Map
Book 507-38 Page

Assessed Lot Size
7.24

GIS Acres
7.24

Tax Rate Area
103008

Current General Plan
PE

Community Plan
ACPA

Zoning with Combining Zones
AG

Zoning Ordinance Date

Use Code Description
Public Land, Schools, Non Taxable Entities

Use Code
8000

Development Plan on file(Y/N)

In Coastal Zone (Y/N)
N

Coastal Jurisdiction

In 100 Year Flood Zone (Y/N)
N

FEMA FIRM Flood Rating and Panel Number

Year Built

Agricultural preserve (Y/N)

Alquist-Priolo fault hazard zone(Y/N)
N

Geologic report requirements

Relative Slope Stability
Z

Alternative Owner-Builder Area

Airport Compatibility Zone
N

Census Tract 2010
12

Census Block 2010
210

State Fire Responsibility Area
Y

19

Zoning Info

Parcel: 504-192-012-000

Assessor Parcel Number 504-192-012-000

Old APN

Site Address

Site City

Site Zip

Assessor Parcel Map Book 504-19 Page

Assessed Lot Size 5.03

GIS Acres 5.03

Tax Rate Area 103006

Current General Plan PF

Community Plan ACPA

Zoning with Combining Zones AG

Zoning Ordinance Date

Use Code Description Public Land, Schools, Non Taxable Entities

Use Code 8000

Development Plan on file(Y/N)

In Coastal Zone (Y/N) N

Coastal Jurisdiction

In 100 Year Flood Zone (Y/N) N

FEMA FIRM Flood Rating and Panel Number

Year Built

Agricultural preserve (Y/N)

Alquist-Priolo fault hazard zone(Y/N) N

Geologic report requirements

Relative Slope Stability 2

Alternative Owner-Builder Area

Airport Compatibility Zone N

Census Tract 2010 12

Census Block 2010 210

State Fire Responsibility Area Y

20

Parcel: 504-192-013-000

Zoning Info

504-192-013-000

Assessor Parcel Number

Old APN

Site Address

Site City

Site Zip

Assessor Parcel Map

Book 504-19 Page

Assessed Lot Size

2.12

GIS Acres

2.12

Tax Rate Area

103006

Current General Plan

PE

Community Plan

ACPA

Zoning with Combining Zones

AG

Zoning Ordinance Date

Use Code Description

Public Land, Schools, Non Taxable Entities

Use Code

8000

Development Plan on file(Y/N)

In Coastal Zone (Y/N)

N

Coastal Jurisdiction

In 100 Year Flood Zone (Y/N)

N

FEMA FIRM Flood Rating and Panel Number

Year Built

Agricultural preserve (Y/N)

Alquist-Priolo fault hazard zone(Y/N)

Geologic report requirements

Relative Slope Stability

Alternative Owner-Builder Area

Airport Compatibility Zone

Census Tract 2010

Census Block 2010

State Fire Responsibility Area

21

Dysthe, Dana@CALFIRE

From: Santa Rosa Review Team@CALFIRE
Sent: Monday, August 9, 2021 8:59 AM
To: Dysthe, Dana@CALFIRE
Subject: FW: HBMWD Less Than 3 Acre Conversion Exemption
Attachments: HBMWD - TRF Less than 3 ac conv with County Signature.pdf

From: Bill Dann [mailto:bdann5852@gmail.com]
Sent: Friday, August 6, 2021 5:32 PM
To: Santa Rosa Review Team@CALFIRE <SantaRosaReviewTeam@fire.ca.gov>
Subject: HBMWD Less Than 3 Acre Conversion Exemption

Warning: this message is from an external user and should be treated with caution.

Please see attached conversion exemption for Humboldt Bay Municipal Water District.

Respectfully,
Bill Dann - RPF #1825

Exhibit C

Landing Pad location and dimensions

Humboldt Bay Municipal Water District

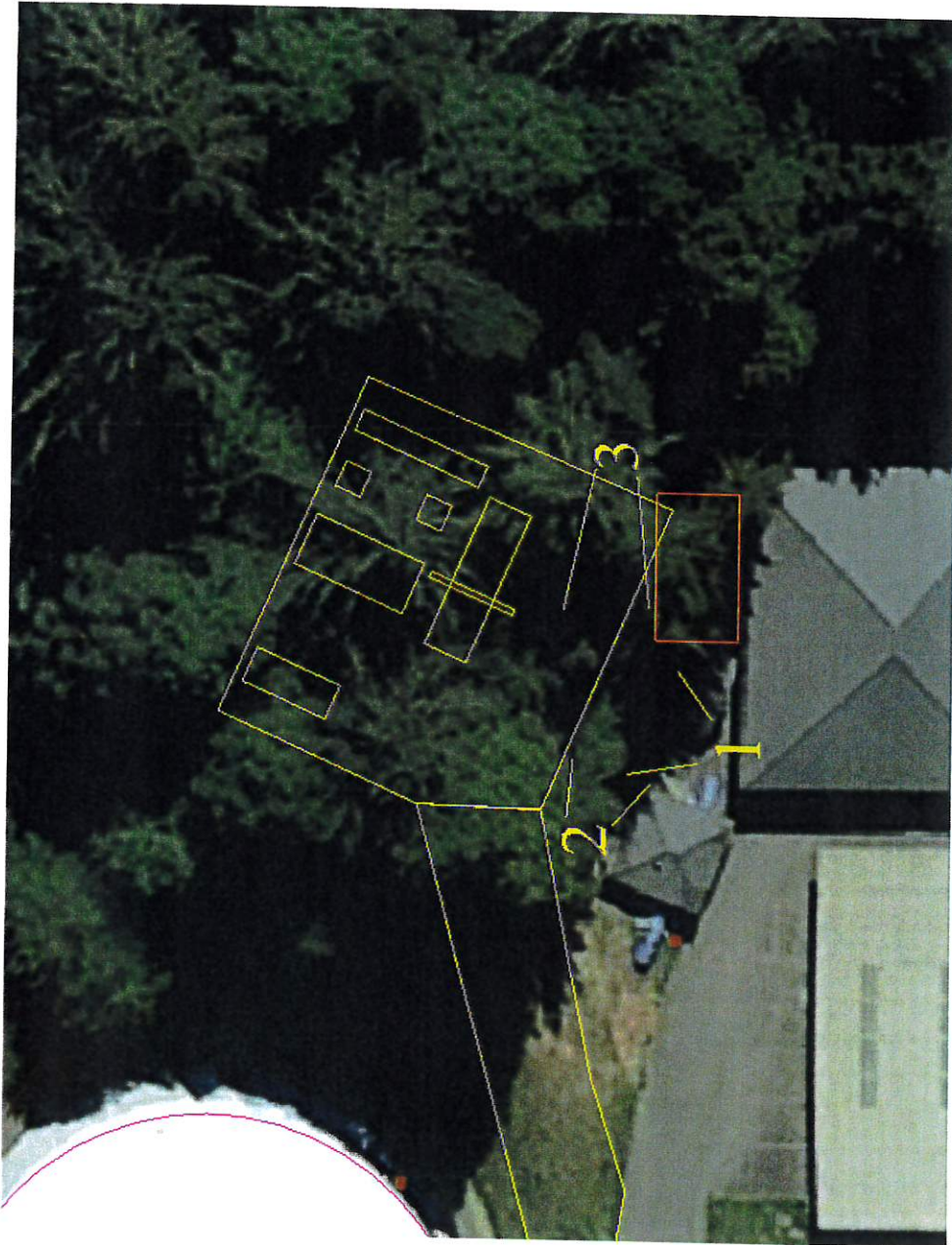
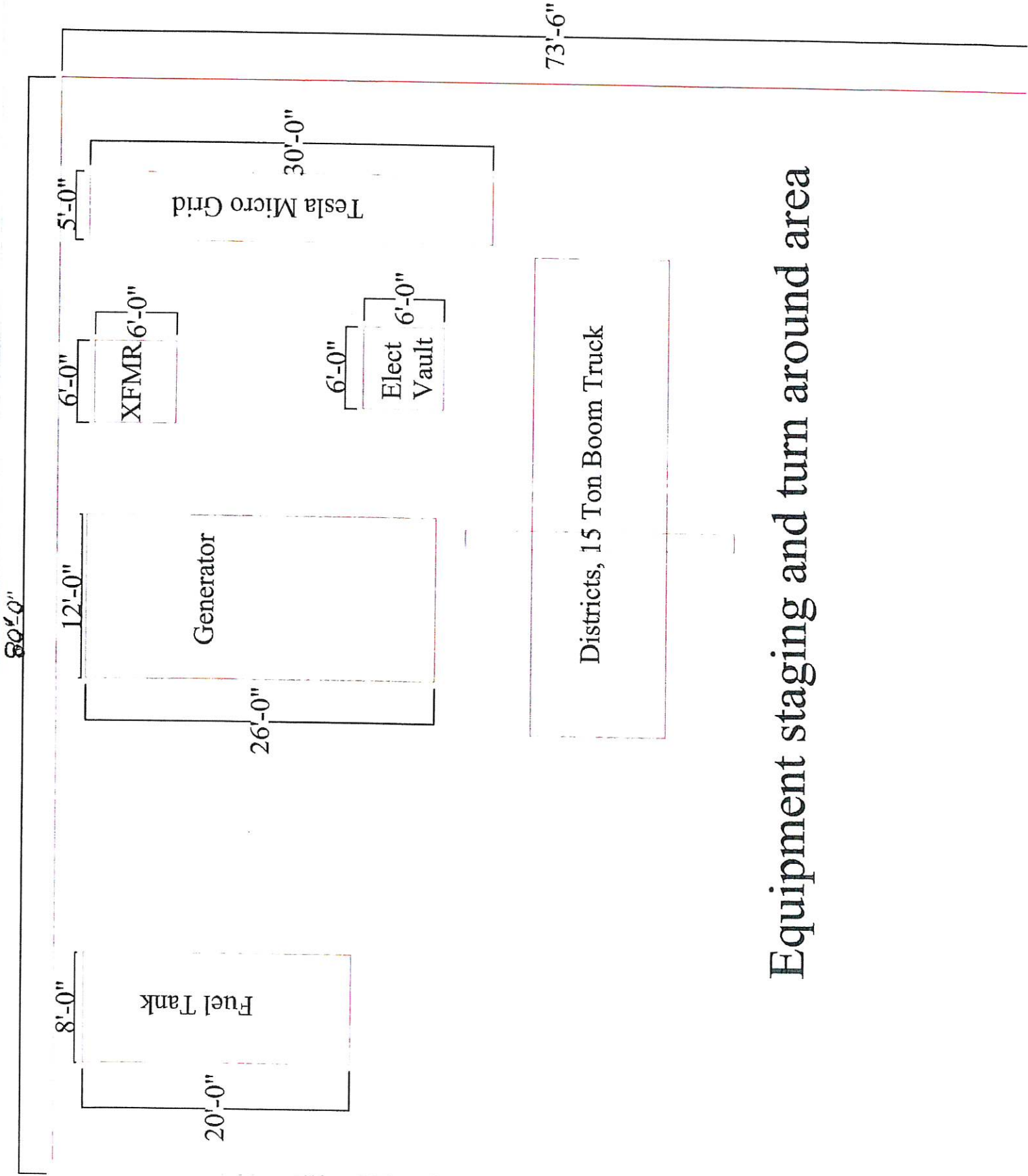


Photo orientation and workshop location for log landing pad location



Equipment staging and turn around area

New Business

Humboldt Bay Municipal Water District

To: Board of Directors
From: Sherrie Sobol
Date: September 7, 2021
Subject: Quagga Grant Award

BACKGROUND:

In May of this year, the Board approved Resolution 2021-08 for the Department of Boating and Waterways Quagga/Zebra Mussel Infestation Prevention Grant Program Application and Funding Agreement 2021.

CURRENT:

The District received notification on August 12, 2021 that the grant application was APPROVED! In order to move forward with the grant, one of the items required is an updated resolution with the grant amount and term listed in the resolution. Resolution 2021-17, second paragraph, 5th and 6th lines list the grant amount of \$82,915.00 as well as the term of the grant from September 17, 2021 through September 16, 2023.

NEXT STEPS:

Staff recommends approval of Resolution 2021-17 for the Department of Boating and Waterways Quagga/Zebra Mussel Infestation Prevention Grant Program Application and Funding Agreement 2021

Attachments: Resolution 2021-17
Department of Boating and Waterways Grant Award Letter
Resolution 2021-08

Resolution No. 2021-17

Resolution of the Humboldt Bay Municipal Water District Board of Directors for the Quagga/Zebra Mussel Infestation Prevention Grant Program Application and Funding Agreement 2021

WHEREAS, prior to the State of California, Department of Parks and Recreation Division of Boating and Waterways' (DBW) approval of an executed Grant Agreement, Humboldt Bay Municipal Water District's 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 Reports, designating a representative to sign Project Completion Certification, and designating a representative to sign the Contractor's Release Form (as applicable); and

WHEREAS, Humboldt Bay Municipal Water District has the legal authority to manage the water, construct, operate, and maintain infrastructure, post signage, prepare Prevention Plan documentation, monitor for water chemistry and quagga and zebra mussels, conduct and monitor boater inspections and decontamination activities, and conduct public outreach for Ruth Lake; and to apply to DBW for a grant up to the amount of \$82,915.00 for the Quagga and Zebra Mussel Infestation Prevention Grant Program for the term of September 17, 2021 through September 16, 2023; and

WHEREAS, Humboldt Bay Municipal Water District desires to improve and maintain the implementation plan for the prevention of an infestation of the quagga and zebra mussel for Ruth Lake; and

WHEREAS, Humboldt Bay Municipal Water District, pursuant and subject to all of the terms and provisions of the Quagga and Zebra Mussel Infestation Prevention Grant Program, application is hereby made to DBW for funding.

NOW THEREFORE BE IT RESOLVED that John Friedenbach, General Manager of Humboldt Bay Municipal Water District, is hereby authorized and directed to do the following acts, including but not limited to:

1. Cause the necessary data to be prepared and application to be signed and filed with DBW; and
2. Sign the DBW Quagga and Zebra Mussel Infestation Prevention Grant Agreement and any amendments thereto; and
3. Approve Claims for Reimbursement; and
4. Execute the Budget and Expenditure Summary; and
5. Sign the Contractor's Release Form; as applicable; and
6. Certify that the project is complete, and ready for final inspection, as applicable.

Passed and adopted at a regular meeting of the Humboldt Bay Municipal Water District for the Ruth Lake reservoir.

Adopted and approved this 9th day of September 2021 by the following roll call vote:

AYES:

NOES:

ABSENT:



COPY

Attest:

Sheri Woo, President

J. Bruce Rupp, Secretary/Treasurer



State of California • Natural Resources Agency

DEPARTMENT OF PARKS AND RECREATION

Division of Boating and Waterways

One Capitol Mall, Suite 500

Sacramento, California 95814

Telephone: (916) 327-1779 / Fax: (916) 327-1770

Gavin Newsom, Governor

Armando Quintero, Director

August 12, 2021

Humboldt Bay Municipal Water District
Mr. John Friedenbach, Manager, and
Ms. Sherrie Sobol, Administrative Liaison
828 7th Street
Eureka, CA 95501

Subject: Award Decision: 2021 Quagga and Zebra Mussel Infestation Prevention Grant

Agreement Number: C21Q0806

Fiscal Year: 2021/2022

Term: September 17, 2021 through September 16, 2023

Amount: up to \$82,915

Dear Mr. Friedenbach and Ms. Sobol,

Congratulations! After reviewing the Humboldt Bay Municipal Water District's (HBMWD) Quagga and Zebra Mussel Infestation Prevention Grant (QZ Grant) proposal, the Division of Boating and Waterways (DBW) would like to inform you that your project titled, "Boulders, Bollards and Supplies to Strengthen & Implement the Prevention Plan," for \$82,915.00 is eligible for full funding. The following conditions shall be met prior to moving forward:

- **Staffing:** Refer to the Grant Agreement Exhibit B, Section A, number 4, for DBW reimbursement requirements for staffing.
- * • **Resolution:** Submit a final Resolution using the Resolution template language available at: www.dbw.ca.gov/QZGrant. The Resolution must reflect the correct amount of funding as well as the correct term for this grant. *
- **Early-Detection Mussel Monitoring:** Early-Detection Mussel Monitoring (EDMM) is a requirement to demonstrate the reservoir remains not infested during the term of the grant. Refer to Exhibit A, Section A number 5, in the grant agreement regarding this requirement which is based on California Department of Fish and Wildlife's (CDFW) "Recommended Minimum Dreissenid Mussel Early Detection Monitoring" available at: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=180290&inline>. The types and frequencies of monitoring required by this grant may vary from the monitoring described in your CDFW-accepted Prevention Plan. It is the grantees responsibility to ensure this monitoring occurs as prescribed in this grant agreement, and that the results are reported to DBW during the grant term. You are encouraged to coordinate with any other agencies, such as CDFW, that may be conducting monitoring in the reservoir.
- **Budgets:** The budget amount in each line item is the maximum amount allowed to be reimbursed by DBW for that line item.

Mr. Friedenbach, Ms. Sobol
Page 2 of 2

- **Insurance documentation:** Refer to Exhibit D, number 14, for insurance requirements. Note that the insurance policy shall contain an endorsement specifying that the policy will not be canceled or reduced in coverage without thirty days written notice to DBW. A copy of the policy with this endorsement is due to DBW prior to grant execution.
- **Contractor Certification Clause:** Per Exhibit C, number 11, please complete the Contractor's Certification Clause, enclosed, and return it to DBW prior to grant execution.

The Grant Agreement contains standard language that cannot be altered without prior approval from DBW. The next step in the process is to review, revise as applicable, and insert the Scope of Work, Table of Deliverables, Task Budget and Line-Item Budget into the Grant Agreement and send it to the QZ Grant Team by **August 31, 2021, for review to QZGrant@parks.ca.gov**. **After review, our Team will notify you that Grant Agreement is ready for signature.**

Once signed by the Authorized Representative, either by scanned-in wet signature or electronic signature, please return a full electronic copy of the Grant Agreement, which includes the attachments, to DBW by **September 10, 2021, to QZGrant@parks.ca.gov**. An extended timeframe can be arranged for submitting the completed Contractors Certification Clause, insurance documentation, and Resolution, if needed.

Please note, the Grant Agreement must be signed by both parties before it is considered effective, as of the term date.

If you have questions or concerns, contact Stephanie.Pardell@parks.ca.gov or 916-204-4735 or me at Cara.Roderick@parks.ca.gov, (916) 217-6286. DBW looks forward to working with you on implementing the project.

Sincerely,



Cara Roderick
Senior Environmental Scientist (Supervisory)
Quagga and Zebra Mussel Infestation Prevention Grant Program

Enclosures: Grant Agreement, Budgets, Contractor Certification Clause Form and Resolution with comments.

cc:

Edward Hard, Chief, Aquatic Invasive Species Branch, DBW
Stephanie Pardell, DBW
Elizabeth Brusati, Invasive Species Program, CDFW
L. Beck McAlexander, Region 1 (Northern Region), CDFW

Resolution No. 2021-08**Resolution of the Humboldt Bay Municipal Water District Board of Directors for the Quagga/Zebra Mussel Infestation Prevention Grant Program Application and Funding Agreement 2021**

WHEREAS, prior to the State of California, Department of Parks and Recreation Division of Boating and Waterways' (DBW) approval of an executed Grant Agreement, Humboldt Bay Municipal Water District's 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 Reports, designating a representative to sign Project Completion Certification, and designating a representative to sign the Contractor's Release Form (as applicable); and

WHEREAS, Humboldt Bay Municipal Water District has the legal authority to manage the water, construct, operate, and maintain infrastructure, post signage, prepare Prevention Plan documentation, monitor for water chemistry and quagga and zebra mussels, conduct and monitor boater inspections and decontamination activities, and conduct public outreach for Ruth Lake; and to apply to DBW for a grant up to the amount of \$400,000 for the Quagga and Zebra Mussel Infestation Prevention Grant Program; and

WHEREAS, Humboldt Bay Municipal Water District desires to improve and maintain the implementation plan for the prevention of an infestation of the quagga and zebra mussel for Ruth Lake; and

WHEREAS, Humboldt Bay Municipal Water District, pursuant and subject to all of the terms and provisions of the Quagga and Zebra Mussel Infestation Prevention Grant Program, application is hereby made to DBW for funding.

NOW THEREFORE BE IT RESOLVED that John Friedenbach, General Manager of Humboldt Bay Municipal Water District, is hereby authorized and directed to do the following acts, including but not limited to:

1. Cause the necessary data to be prepared and application to be signed and filed with DBW; and
2. Sign the DBW Quagga and Zebra Mussel Infestation Prevention Grant Agreement and any amendments thereto; and
3. Approve Claims for Reimbursement; and
4. Execute the Budget and Expenditure Summary; and
5. Sign the Contractor's Release Form; as applicable; and
6. Certify that the project is complete, and ready for final inspection, as applicable.

Passed and adopted at a regular meeting of the Humboldt Bay Municipal Water District for the Ruth Lake reservoir.

Adopted and approved this 7th day of May 2021 by the following roll call vote:

AYES:
NOES:
ABSENT:



COPY

Attest:

Sheri Woo, President

J. Bruce Rupp, Secretary/Treasurer

Resolution No.: 2021-18

RESOLUTION OF THE Humboldt Bay Municipal Water District OF Humboldt County FOR FUNDING FROM THE FOREST HEALTH GRANT PROGRAM AS PROVIDED THROUGH CALIFORNIA CLIMATE INVESTMENTS.

WHEREAS, the Governor of the State of California in cooperation with the California State Legislature has enacted State of California Greenhouse Gas Reduction Funding, which provides funds to the State of California and its political subdivisions for California Climate Investments, including forest health programs; and

WHEREAS, the State Department of Forestry and Fire Protection has been delegated the responsibility for the administration of the program within the State, setting up necessary procedures governing application by local agencies, non-profit organizations, and others under the program, and

WHEREAS, said procedures established by the State Department of Forestry and Fire Protection require the applicant to certify by resolution the approval of application before submission of said application to the State; and

WHEREAS, the applicant will enter into an agreement with the State of California to carry out a forest health project;

NOW, THEREFORE, BE IT RESOLVED that the **Humboldt Bay Municipal Water District:**

1. Approved the filing of an application for "California Climate Investments" Forest Health grant program funds; and
2. Certifies that said applicant has or will have sufficient funds to operate and maintain the project; and,
3. Certifies that funds under the jurisdiction of **Humboldt Bay Municipal Water District** are available to begin the project.
4. Certifies that said applicant will expend grant funds prior to **March 31, 2024**.
5. Appoints **General Manager, Business Manager**, or a designee, as agent of the **Humboldt Bay Municipal Water District** to conduct all negotiations, execute and submit all documents including, but not limited to applications, agreements, amendments, payment requests and so on, which may be necessary for the completion of the aforementioned project.

Approved and adopted the 9th day of September, 2021.

I, the undersigned, hereby certify that the foregoing Resolution, number 2021-18 was duly adopted by the following roll call vote:

Ayes: _____ Noes: _____ Absent: _____ (Clerk)

Humboldt Bay Municipal Water District

To: Board of Directors
From: John Friedenbach
Date: September 2, 2021

Re: Gate Request from TRF neighbor

Discussion

Staff has received the attached request from one of our neighbors at the TRF. This was precipitated by our notification to our adjacent property owners about our 3-acre conversion timber harvest. Neil Aitken owns a parcel to the south of our TRF property. The access road to his property crosses our parcel 507-383-003 and has been used in the past by the District to transport large equipment to the TRF.

Staff has visited the access road which is also utilized by PG&E. We agree that once our 3-acre logging occurs, there will be potential for easy access to District owned property if a new gate is not installed. Mr. Aitken is willing to share the costs of the new gate and installation 50/50 with the District.

Recommendation

Staff recommends that the Board authorize a project not to exceed \$5,000 in District funds to install a new gate at the end of Ryan's Hill road with shared locks with Mr. Aitken and PG&E on District parcel APN 507-383-003.

H.B.M.W.D. AUG 05 2021

Neil Aitken
P.O. Box 114
Cuttan, CA 95534

HBMWD
Attn: John Friedenbach
P.O. Box 95534
Eureka, CA 95502

Mr. Friedenbach,

I'm writing you today regarding the logging operations which will take place soon off of West End Rd. My parcel (AP#507-383-006) borders 2 of your parcels (AP#504-192-014 & 507-383-003) involved in this activity. The road to my parcel passes thru the SW corner of 507-383-003 and an access road passes thru the NE corner of my parcel accessing AP#504-192-014.

I have concerns regarding unauthorized individuals accessing my property and yours, especially after the operation ceases. Downed logs, stumps, equipment, clear land and future infrastructure can create a nuisance which I hope both of us would like to discourage. I propose that a gate be placed on the SW corner of your parcel (AP#507-383-003) to control unauthorized access to our parcels in this area and protect our property.

I appreciate your consideration of this matter and would be happy to discuss this proposal further. If you would like to meet to discuss details or have any questions, please don't hesitate to call.

Sincerely,


Neil Aitken

Humboldt Bay Municipal Water District

To: Board of Directors
From: John Friedenbach
Date: September 2, 2021
Re: NCRP/WRTC Lidar Proposal

Discussion

Mad River watershed wide lidar is critical geospatial infrastructure for modern resource management. North Coast Resource Partnership and the Watershed Research and Training Center are leading a regional initiative that will bring in State and Federal funders as well as local agencies to collect and distribute a regional lidar coverage.

This proposal includes the remaining rural counties in Northern California. Currently 80 percent of the continental United States has been surveyed through cooperative agreements between the USGS, other federal agencies, the States, and regional interests. California has had notable difficulty funding Lidar acquisitions in rural counties. By participating in the US Geological Survey's Broad Area Authority, the project will be getting some of the lowest price and highest quality datasets available. In addition, the project will be bringing in significant State and Federal funding for this program. Another advantage of this proposal is the data product would be managed through the USGS 3DEP and National Map programs. This provides significant long term data management solutions and open access.

The HBMWD has several specific operational interests in this data.

- Lidar is the best available tool for mapping infrastructure and identifying geotechnical hazards.
- This data will be a powerful tool for implementing the recently awarded \$5million CALFIRE Forest Health Grant.
- Lidar provides the best available data on forest structure and is critical for developing forest resilience strategies.
- As the HBMWD develops its watershed management partnership with the US Forest Service, this dataset will provide useful data to guide ecological restoration to maintain high water quality.
- This dataset will be invaluable for long term sediment mitigation in the August complex burn area and potential impacts to the Ruth Reservoir capacity.
- The dataset will also provide similar capabilities across the rest of the Mad River Watershed and throughout the HBMWD service area.

Attached for the Board's reference are the following documents:

1. North Coast Resource Partnership Request for Support & Partnership
2. A use study by Cass Green Associates on Lidar utilization of the 2013 Sonoma County acquisition.

3. A recent Lidar derivative product report – Marin County

4. A hydrologic inventory product from Marin from the same data set.

Recommendation

Staff recommends that the Board authorize a project support letter from the District. Staff also recommends that the District participate financially in the project. The exact amount to be discussed and determined by the Board.

NORTHERN CA LIDAR APPLICATION TO USGS

STATUS

- On July 16, 2021 the North Coast Resource Partnership Leadership Council unanimously approved pursuing funding for lidar. The NCRP Leadership Council includes elected and appointed representatives from North Coast Tribes and the counties of Modoc, Siskiyou, Del Norte, Trinity, Humboldt, Mendocino and Sonoma.
- On behalf of the NCRP, and in collaboration with all partners interested in this lidar collection, Kass Green will write a proposal to the USGS under their Broad Area Announcement due October 1. Letters from partner agencies and entities documenting financial commitments to matching funds will need to be sent in along with the application.
- The expected cost of lidar for the identified region which extends past the NCRP regional boundary (maps at end of document) is between \$6-7 million, depending on the final collection area. USGS can cover a maximum of 50% of the cost, and the remainder needs to be provided by other partners. Strong evidence of financial commitment must be documented in writing from partners (eg, confirmed or pending approvals)
- On August 23, 2021 NCRP staff sent a letter requesting financial and other support to various state, federal, regional and local agencies and elected officials.
- Partners in the lidar collection area are reaching out to their constituents or collaborators to gather support for this lidar application, including letters of commitment documenting financial match, and requests for decision makers in agencies to advocate for the allocation of funds to this initiative.
- **Preliminary/potential** commitments include:
 - \$170,000 from Sonoma County special districts and the County (Ag + Open Space, Sonoma Water, County of Sonoma)
 - \$100,000 to \$150,000 from entities in Humboldt County
 - Strong interest from the Resources Agency, Department of Conservation and the Wildfire and Forest Resilience Task Force
 - Strong interest from NRCS California

A list of additional needed outreach and advocacy, talking points, as well as a letter of commitment template are included below.

LETTER OF COMMITMENT

Ms. Carol Ostergren
USGS National Map Liaison – Northern CA and Nevada
Email: costergren@usgs.gov

Address:
6000 J Street
Sacramento, CA 95819

Dear Ms. Ostergren,

Northern California has experienced unprecedented wildfire in the last five years, resulting in tragic loss of life, damage to ecosystems, watersheds, forests, water supplies and local economies. As you know, lidar data are critical to prioritizing investments in climate and extreme event resiliency. A coalition of Tribes, agencies, county governments, special districts, NGOs, and private business are partnering to procure lidar coverage for areas of Northern California that do not have current coverage.

Option 1: We support the application of the North Coast Resource Partnership and are committing \$XXXX in matching funds for this initiative, and/or

Option 2: Our Board is considering the approval of matching funds for this initiative at their board meeting on XXX date.

Please do not hesitate to contact me if you need additional information.

Sincerely,

Your name, title, organization, contact information.
Letter on your agency letterhead.

TALKING POINTS (for consideration)

- a) Current efforts to treat the highest fuel management hazards would be informed by up to date assessment of vegetation and ladder fuel densities, providing a county-wide/region-wide hazard snapshot, saving hours of field surveys. This would far more effectively guide the \$35M BRIC investments in reducing fire risks, and other related efforts.
- b) We'd have an updated infrastructure and housing map, that captures recent fire impacts, recovery measures, and potential threats from fire-exacerbated erosion and flooding, toxic runoff, increased flood volatility due to climate change, storm surge and sea level rise.
- c) As increasing levels of State and Federal funding are anticipated, Sonoma County will be in a far more competitive position to apply for these funds based on accurate field assessments and project designs. History has shown that lidar investments can be leveraged to attract multifold investments in climate, conservation and community health and safety actions.
- d) This investment could be a keystone investment in a regional NCRP layer, used as match funding to leverage State and Federal funds for a continuous data set across a CALFIRE block grant region.
- e) The North Coast Region covers 19,000 square miles and provides much of California's drinking water and agricultural products, is a hotspot for biological diversity, and sequesters massive amounts of carbon. The North Coast Region has experienced over 25% of the fires in California over the last five years, though representing only 12% of the California landscape.
- f) Management of these valuable resources is at risk due to serious gaps in knowledge about the landscapes and communities of the North Coast. Existing vegetation maps are piecemeal, out of date, or at a statewide scale which cannot support local decision making, and existing topographic data are coarse or non-existent.
- g) To effectively invest in the protection and enhancement of the Region's ecosystems and infrastructure, land managers must know the location and distribution of resources and assets across the landscape.
- h) Lidar data provides detailed information about the topography of an area, its infrastructure and the structure of forests and wildland fuels (Figure 2), thereby supporting myriad applications such as wildfire planning, response, and resiliency, as well as planning and implementation of projects related to flooding, climate adaptation, biodiversity, land conservation, water quality and supply.
- i) High resolution lidar and associated datasets are foundational to prioritizing the unprecedented amounts of state and federal funding to ensure that communities, built infrastructure, natural and working lands are more resilient to climate change, floods, fires and droughts.
- j) Sonoma County - a member of the North Coast Resource Partnership and an early innovator in the collection and application of high resolution lidar - serves as an example of the multiple benefits of lidar that the Partnership seeks to expand to the entire North Coast Region.
- k) Sonoma County lidar data have been applied in numerous ways across multiple agencies, NGOs and other entities, and have demonstrated value far beyond the cost of the original investment, having saved taxpayers millions of dollars and leveraging significant investments of partner funding. Outside of the monetary frame, and most importantly, these data have saved lives and will continue to do so as the volatility and rapid escalation of extreme events continues.
- l) Sonoma County's lidar dataset is over 8 years old, and many fires and extreme events have taken place during this time period. The North Coast Resource Partnership lidar request seeks to update the Sonoma County dataset and expand the innovative applications of lidar in Sonoma County to the rest of the North Coast Region. The cross-boundary collaboration approach to collecting and applying lidar – pioneered by Sonoma County and now expanding to the North Coast Region - ensures that the costs and benefits are arrayed across multiple partners.
- m) We are very excited about the opportunity to work together towards a shared set of regional and statewide data that can be used to drive impact on the ground in our watersheds and communities, and to ensure the most effective use of taxpayer dollars during these unprecedented and challenging times.
- n) We are requesting that you engage with the Partnership in cross-boundary collaboration to ensure that the North Coast Region has the foundational data needed to prioritize the most effective actions and investments in community health and safety, fuel load reduction, biodiversity, water quality and supply and climate action.

- o) By working together across local, state, federal and tribal entities, and collectively funding this effort, we can effectively leverage all data resources to support on the ground and regional resource management decisions to enhance existing and future watershed & community health investments.
- p) The North Coast Resource Partnership – led by a coalition of Tribes and counties – has been engaged for over seventeen years in large scale, science-based planning to support effective on the ground project implementation. The Partnership has coordinated the implementation of hundreds of high priority projects, and has effectively managed over \$87 million in agency funding. The NCRP is currently collaborating with the Resources Agency, Department of Conservation, CAL FIRE, US Forest Service and the Governor’s Wildfire and Forest Resilience Task Force (as well as many other state, federal, local agencies and organizations) to refine a shared vision and actionable plan for resilient communities, forests and watersheds in the North Coast Region.

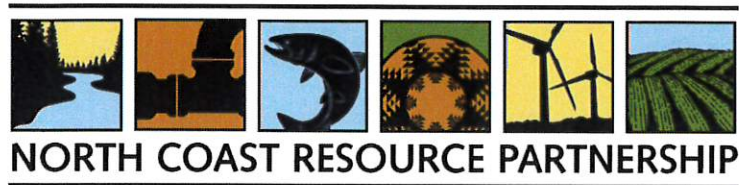
MAPS/GRAPHICS



Figure X. Ladder fuel density, buildings and roads derived from lidar for Sonoma County - applications include wildfire risk mapping, vegetation management prioritization, emergency response, community health and safety

Figure X. Area of Proposed North Coast lidar Collect



**To:**

US Senator Mike Thompson
 US Senator Jared Huffman
 CA Senator Mike McGuire
 CA Assemblymember Jim Wood
 CA Natural Resources Secretary Wade Crowfoot
 Patrick Wright, Wildfire & Forest Resiliency Task Force
 Dr. Glenda Humiston, UCCE ANR
 Jen Norris, CA Natural Resources Agency
 Lauren Sanchez, CA Governor's Senior Climate Advisor
 Joy Bonaguro, CA Chief Data Officer

David Shabazian & Keali'i Bright, CA Dept of Conservation
 Carlos Suarez, NRCS State Conservationist
 Angie Lottes & Tim Robards, CAL FIRE
 Loretta Moreno, CA Natural Resources Agency
 Karyn Gear, CA State Coastal Conservancy
 Scott Morgan, CA Office of Planning and Research
 Kari Lewis, CA Dept of Fish & Wildlife
 Beverly Bulaon & Carlos Ramirez, US Forest Service
 Kris Tjernell, CA Department of Water Resources
 Tara Moran, CA Water Data Consortium

From:

James Gore, Co-Chair North Coast Resource Partnership;
 President CSAC; Wildfire & Forest Resilience Task Force;
 Sonoma County Board of Supervisors

Leaf Hillman, Co-Chair North Coast Resource
 Partnership, Karuk Tribe

Subject: Acquisition of lidar for Northern California – Request for Support & Partnership**Request**

The North Coast Resource Partnership (<https://northcoastresourcepartnership.org/>) is requesting financial and other support from key tribal, federal, state, regional and local partners to procure lidar coverage for the North Coast Region (Figure 1). The Partnership is applying for funding from the USGS Broad Area Announcement due October 1st. This ambitious project will cost approximately \$6 million. **To be competitive for this funding, the Partnership must demonstrate financial commitment from a diversity of partners. We are requesting that you engage with the Partnership in cross-boundary collaboration to ensure that the North Coast Region has the foundational data needed to prioritize the most effective actions and investments in community health and safety, fuel load reduction, biodiversity, water quality and supply and climate action.** By working together across local, state, federal and tribal entities, and collectively funding this effort, we can effectively leverage all data resources to support on the ground and regional resource management decisions to enhance existing and future watershed & community health investments.

The North Coast Resource Partnership – led by a coalition of Tribes and counties – has been engaged for over seventeen years in large scale, science-based planning to support effective on the ground project implementation. The Partnership has coordinated the implementation of hundreds of high priority projects, and has effectively managed over \$87



Figure 1. Area of Proposed North Coast lidar Collect

million in agency funding. The NCRP is currently collaborating with the Resources Agency, Department of Conservation, CAL FIRE, US Forest Service and the Governor's Wildfire and Forest Resilience Task Force (as well as many other state, federal, local agencies and organizations) to refine a shared vision and actionable plan for resilient communities, forests and watersheds in the North Coast Region.

Urgent Need for lidar Data and Applications – Prioritizing Investments, Projects & Actions

The North Coast Region covers 19,000 square miles and provides much of California's drinking water and agricultural products, is a hotspot for biological diversity, and sequesters massive amounts of carbon. The North Coast Region has experienced over 25% of the fires in California over the last five years, though representing only 12% of the California landscape. Management of these valuable resources is at risk due to serious gaps in knowledge about the landscapes and communities of the North Coast. Existing vegetation maps are piecemeal, out of date, or at a statewide scale which cannot support local decision making, and existing topographic data are coarse or non-existent. To effectively invest in the protection and enhancement of the Region's ecosystems and infrastructure, land managers must know the location and distribution of resources and assets across the landscape.

Lidar data provides detailed information about the topography of an area, its infrastructure and the structure of forests and wildland fuels (Figure 2), thereby supporting myriad applications such as wildfire planning, response, and resiliency, as well as planning and implementation of projects related to flooding, climate adaptation, biodiversity, land conservation, water quality and supply. High resolution lidar and associated datasets are foundational to prioritizing the unprecedented amounts of state and federal funding to ensure that communities, built infrastructure, natural and working lands are more resilient to climate change, floods, fires and droughts.



Figure 2. Ladder fuel density, buildings and roads derived from lidar for Sonoma County - applications include wildfire risk mapping, vegetation management prioritization, emergency response, community health and safety

Sonoma County - a member of the North Coast Resource Partnership and an early innovator in the collection and application of high resolution lidar - serves as an example of the multiple benefits of lidar that the Partnership seeks to expand to the entire North Coast Region. Sonoma County lidar data

have been applied in numerous ways across multiple agencies, NGOs and other entities, and have demonstrated value far beyond the cost of the original investment, having saved taxpayers millions of dollars and leveraging significant investments of partner funding. Outside of the monetary frame, and most importantly, these data have saved lives and will continue to do so as the volatility and rapid escalation of extreme events continues. Sonoma County's lidar dataset is over 8 years old, and many fires and extreme events have taken place during this time period. The North Coast Resource Partnership lidar request seeks to update the Sonoma County dataset and expand the innovative applications of lidar in Sonoma County to the rest of the North Coast Region. The cross-boundary collaboration approach to collecting and applying lidar – pioneered by Sonoma County and now expanding to the North Coast Region - ensures that the costs and benefits are arrayed across multiple partners.

We are very excited about the opportunity to work together towards a shared set of regional and statewide data that can be used to drive impact on the ground in our watersheds and communities, and to ensure the most effective use of taxpayer dollars during these unprecedented and challenging times. NCRP staff will be following up with you in the coming weeks to discuss opportunities to partner on this critically important data acquisition, or please reach out to Karen Gaffney, NCRP Director of Strategic Planning and Communications: kgaffney@westcoastwatershed.com, 707.433.7377



Use and Value of Sonoma County's Vegetation Mapping and Lidar Program Products

Prepared for: Sonoma County Agricultural Preservation & Open Space District

Prepared by: Kass Green, Kass Green & Associates
May 18, 2017

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Use and Value of Sonoma County's Vegetation Mapping and Lidar Program Products

Executive Summary

In 2013, the Sonoma County Agricultural Preservation and Open Space District and the Sonoma County Water Agency partnered with multiple organizations to acquire 6 inch, 4 band optical imagery and Q1 Lidar data for Sonoma County as part of *Sonoma Veg Map* - the Sonoma County Vegetation Mapping and LiDAR program. The purpose of the acquisition was to support mapping of the county's topography, hydrology, carbon stocks, physical and biotic features, and diverse plant communities and habitats. Thirty-four products based on the ortho-imagery and Lidar data have been created and are freely accessible and available to the public. Partners for the LiDAR, imagery and carbon mapping work included NASA and the University of Maryland. Partners for the vegetation and habitat mapping elements of *Sonoma Veg Map* include the California Department of Fish and Wildlife, the United States Geological Survey, the Sonoma County Information Systems Department, the Sonoma County Transportation and Public Works Department, The Nature Conservancy, and the City of Petaluma.

To estimate the value of the ortho-imagery and Lidar products to existing and potential users, the Sonoma County Agriculture Preservation and Open Space District (the District) initiated a survey in the spring of 2016 to understand the use and value of the 17 products which were completed prior to May of 2016. Ninety-five respondents from a variety of organizations took part in the survey. In addition, 13 individuals were interviewed to learn more about their specific uses of the products.

Key findings of the survey are

- The users of Sonoma County's Vegetation Mapping and Lidar products are diverse and include local, state, and federal agencies; academia; commercial firms; Tribes; not for profit organizations, and others. Over 50% of the survey respondents were from local government or commercial entities.
- Users access the ortho-imagery and Lidar products using all of the means provided by Ag & Open Space which include viewing on line, using local copies on their organization's LAN or server, accessing the data on desktop GIS via web services, and accessing the products on desktop GIS software via downloads from data portals such as Open Topography or from District-hosted web applications.
- All of the 17 Sonoma County Vegetation Mapping and Lidar Program products are used by respondents, and several of them are accessed more than 20 times/month by individual users.

- The ortho-imagery and Lidar products support a diverse array of applications including environmental/conservation planning, watershed management, agricultural planning and analysis, forest management, flood management, disaster response, real estate, 3-D fly throughs, wetland delineation, and project management and client support.
- The most highly valued and accessed products are the 6 inch ortho-imagery, 1 meter bare earth digital elevation model (DEM), 1 foot contours, and bare earth hillshade. However, each of the 17 products was listed as mission critical by two or more respondents.
- The additional cost respondents would have borne in the absence of the Sonoma County products varied widely. Several respondents stated that their projects would not have been feasible without the products. Others stated that they would have been required to invest more in their field efforts or that the quality of their results would have suffered greatly. Respondents indicated that they would have had to spend between \$1,000 and \$50,000 per project to purchase data if the Sonoma County vegetation map and Lidar products did not exist.

1. Introduction

In 2013, the Sonoma County Agricultural Preservation and Open Space District and the Sonoma County Water Agency partnered with multiple organizations to collect 6 inch, 4 band optical imagery and Q1 lidar data for Sonoma County as part of the Vegetation Mapping and Lidar Program to map the county's topography, physical and biotic features and diverse plant communities and habitats. The program has produced several innovative products including countywide Lidar data products and ortho-imagery, which are freely available to the public for download at <http://sonomavegmap.org>, <http://opentopography.org/>, and <https://coast.noaa.gov>.

These foundational data sets are key to facilitating good planning and management for watershed protection, flood control, fire and fuels management and wildlife habitat conservation. They are also critical to assessing climate mitigation and adaptation strategies and benefits provided by the landscape, such as the amount of carbon sequestration in forests or the degree to which riparian areas, floodplains, and coastal habitats may buffer extreme weather events. A complete list of all of the 34 Sonoma Vegetation and Lidar Program products can be found in Appendix A. Figure 1 shows a comparison of four example products.

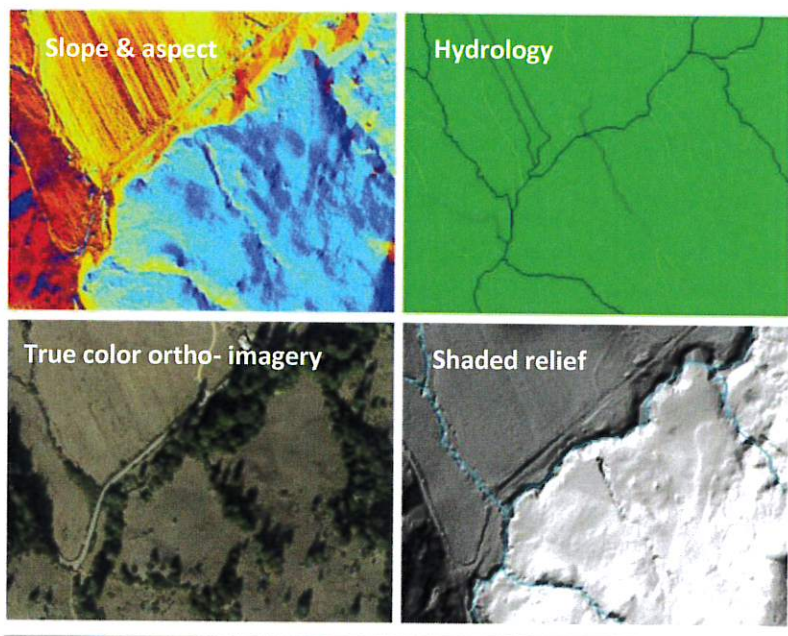


Figure 1. Four examples of Sonoma County Vegetation Mapping and Lidar Program products.

The county provides free public access to the products in several different ways including viewing on-line in web maps, web apps, and story maps; via on-line web services; use of clip and email viewers for small areas; and watershed-wide downloads. Many of the lidar products are also available on NOAA, OpenTopography, and USGS web sites.

To facilitate fast access to the products in manageable quantities, two clip and email viewers allow users to download high resolution ortho-imagery, contours, the various Lidar DEMs, and hillshades for areas smaller than 500 acres¹. Watershed downloads are a useful way to deliver the products over larger areas because full countywide product datasets are too big for download and watersheds provide a recognizable and commonly used land unit for users. Watershed downloads include the point cloud, all the Lidar DEMs and derivatives, the fine scale vegetation map, the lifeform map, other derivatives from the vegetation map, the impervious map, the hydrological data products, and the croplands map. The raw high resolution ortho-images are not included in watershed downloads because they are too large to download by watershed. They can be accessed in a variety of other ways including via the county web services, for download as compressed and tiled Mr. SID files, or acquired from the county on a user-supplied hard drive.

Use of the products has been high and widespread. For example, the county fulfills an average of 120 clip and email requests per month (Figure 2) for contours alone. An average of 50 watershed-wide downloads are executed per month (Figure 3).

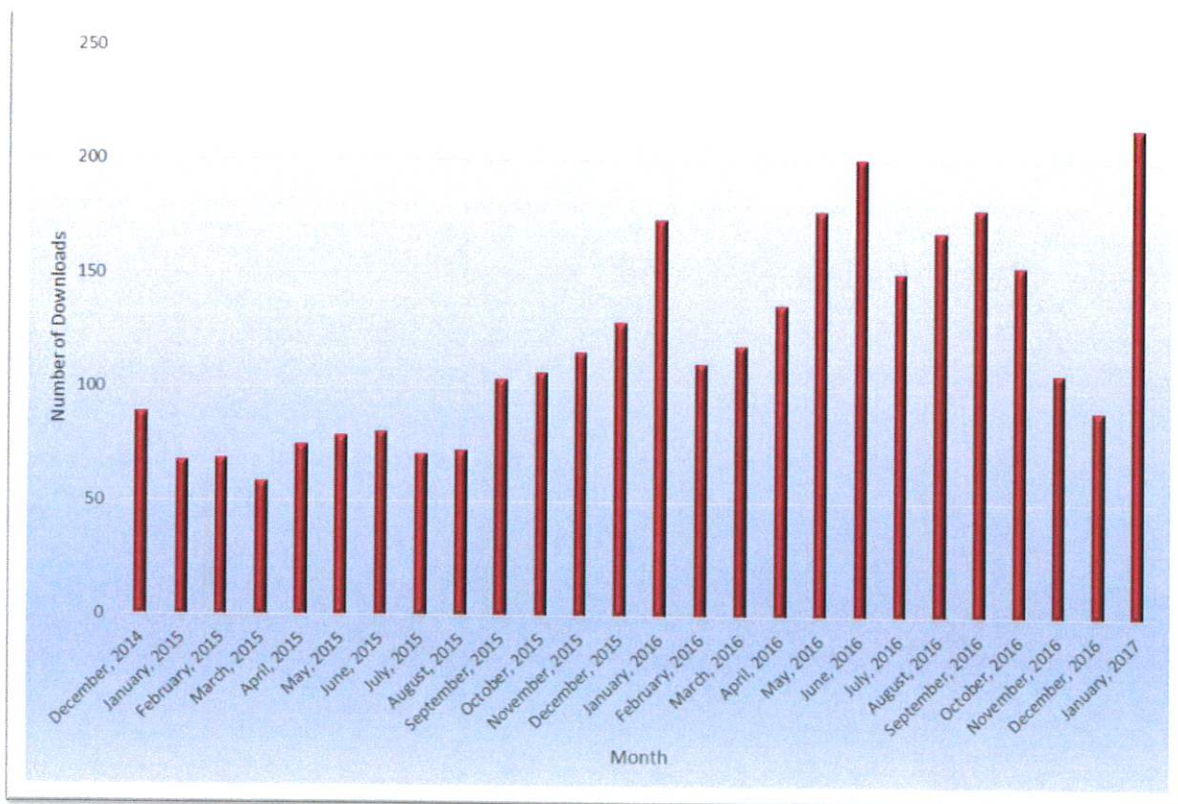


Figure 2. Number of contour clip and email requests fulfilled per month.

¹ This is especially important for the 1 foot contours, which are massive and slow to draw for large areas.

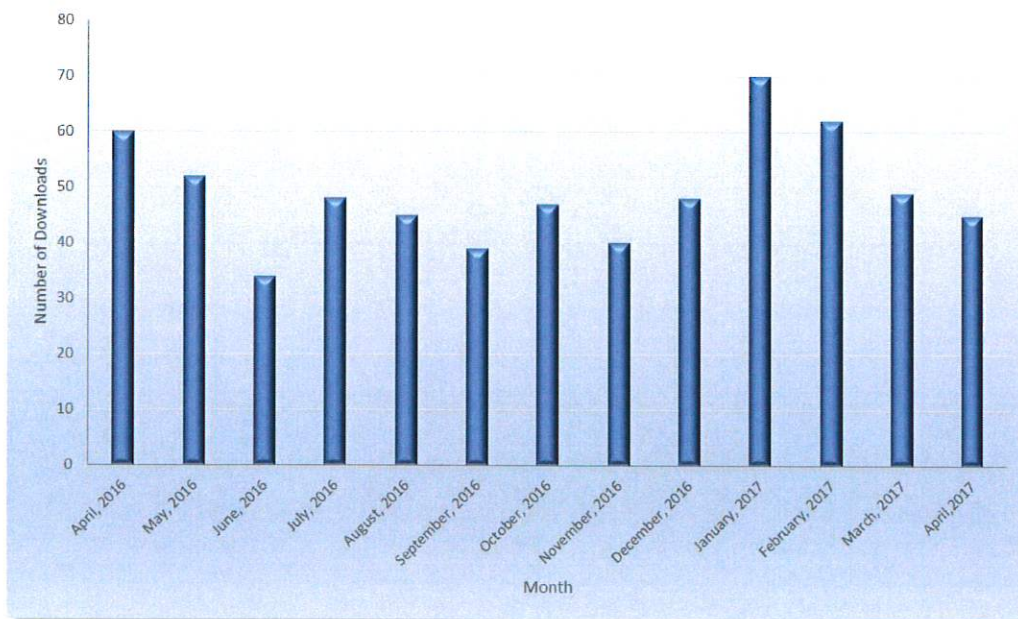


Figure 3. Number of watershed-wide product downloads per month.

To understand the value of the ortho-imagery and Lidar products to users and potential users, the Sonoma County Ag & Open Space District initiated a survey to learn about the use and value of the 17 products which had been released by the spring of 2016. This report summarizes the results of the survey and is organized as follows:

- Section 2 reviews the methods used to collect and analyze survey results.
- Section 3 presents the analysis of the survey results.
- Section 4 lists the key findings and concludes the report.
- Appendix A lists the 34 products created for the Sonoma County Vegetation Mapping and Lidar Program
- Appendix B lists the individuals interviewed as part of the project.

2. Methods

To assess the access to and value of Sonoma County's ortho-imagery and Lidar data, a survey was developed by Sonoma County, USGS, NASA, and consultant personnel. Table 1 lists the survey questions. The survey was purposefully short and primarily composed of pulldown menus to ease both response and analysis.

The survey questions were entered into SurveyMonkey (<https://www.surveymonkey.com/>) and a link to the survey was sent to 400+ individuals who had signed up to receive the project's newsletters at www.sonomavegmap.org. Figure 4 shows an example of how the survey appeared to participants in SurveyMonkey. Survey respondents were encouraged to send the survey link to others, and the survey was kept open from March through May of 2016. Once the survey was closed, the data were downloaded to Excel and analyzed using both Excel and SurveyMonkey analysis tools.



The image shows a screenshot of a survey page titled "SONOMA VEG MAP" with the subtitle "SONOMA COUNTY VEGETATION MAPPING & LIDAR PROGRAM" and the tagline "High Quality Data for Planning, Conservation and Resource Management". Below the header, the survey title is "Sonoma County Lidar and Ortho-imagery Value Survey". The main content area contains an introductory paragraph and a list of radio button options for user organization type.

NASA's Carbon Monitoring System Applications Effort and the Sonoma County Agriculture and Open Space District - in partnership with Sonoma County Water Agency and the Sonoma County Information Systems Department - are interested in understanding the value of the county's LiDAR and ortho-imagery products which are available for download at <http://sonomavegmap.org>, <http://opentopography.org/>, and <https://coast.noaa.gov>. You are receiving this survey because you have expressed interest in the products. Please take a few minutes to complete this brief survey which will aid both the CMS initiative and Sonoma County in learning about and understanding the products' value. Please feel free to share the link to this survey with others.

1. Please check your user organization type

- Commercial
- Local government
- State government
- Federal government
- Native American Community
- Academia
- Not for Profit
- Other (please specify)

Figure 4. Example page of the survey in SurveyMonkey.

In addition to the survey, 13 individuals, chosen by the District, were interviewed to glean more detailed information about how the data and imagery were being used in their specific projects (See Appendix B for a list of individuals interviewed).

Table 1. Survey questions.

1. Please check your user organization type

- Commercial
- Local government
- State government
- Federal government
- Native American Community
- Academia
- Not for Profit
- Other (please specify)

2. Please provide a brief summary of your organization's mission. Please limit to no more than 50 words.

3. Have you accessed the Sonoma County ortho-imagery or Lidar products for use as an individual or in your organization?
 Yes
 No
 If yes, go to Question 4. If no, go to question 9.

4. How do you access the products (check all that apply)?

- View online (webmaps, web apps, online maps)
- Use local copies of the data on your organizations LAN or server
- Access the data on your desktop GIS software via web services
- Access the data on your desktop GIS software via clipped area downloads from Sonoma Veg Map, Open Topography, NOAA Digital Coast, or clip and email viewers.
- Other (please specify)

5. Which products have you accessed and how often?

Product	0 accesses/ year	1-12 accesses/ year	1-5 accesses/ month	5-20 accesses/ month	More than 20 accesses/ month
Lidar Point Cloud					
1-meter Bare Earth Digital Elevation Model					
Bare Earth Hillshade					
Hydroflattened Bare Earth Hillshade					
1-meter Canopy Cover Raster					
1-meter Canopy Height Raster					
1-meter Intensity Raster – Vegetation Returns					
6-inch/pixel Ortho- imagery					
1-Foot Contours					
Cartographic Building Footprints					
Impervious Surfaces					
Lidar Derived Watersheds					
Lidar Derived Steams					

Lidar Derived Hydro-Enforced Digital Elevation Model					
Confluence Points and Hydroenforcement Burn Locations					
Countywide Flow Accumulation and Flow Direction Rasters					
Lifeform Map					

6. Please indicate the value of the products to your organization.

Product	Mission critical	Very important	Important	Nice to have	Don't need/use
Lidar Point Cloud					
1-meter Bare Earth Digital Elevation Model					
Bare Earth Hillshade					
Hydroflattened Bare Earth Hillshade					
1-meter Canopy Cover Raster					
1-meter Canopy Height Raster					
1-meter Intensity Raster – Vegetation Returns					
6-inch/pixel Ortho-imagery					
1-Foot Contours					
Cartographic Building Footprints					
Impervious Surfaces					
Lidar Derived Watersheds					
Lidar Derived Steams					
Lidar Derived Hydro-Enforced Digital Elevation Model					
Confluence Points and Hydroenforcement Burn Locations					
Countywide Flow Accumulation and Flow Direction Rasters					
Lifeform Map					

7. For what type of applications are you using the products (check all that apply)

- Environmental/Conservation Planning
- Urban Planning
- Watershed Management
- Forest Management
- Carbon Monitoring
- Scientific Research
- Flood Management

- Disaster Response
- Engineering Planning and Design
- Real Estate
- Solar Energy Site Suitability Analysis
- Agricultural Planning and Analysis
- Other (please specify)

8. Please provide information regarding a project or application where the Sonoma County ortho-imagery or Lidar products have been the most valuable to you or your organization.
- Please briefly describe the project.
 - What alternative technology of methods would you have used if you had not had access to the Sonoma County ortho-imagery and Lidar products?
 - What would be the approximate cost in dollars to the project if you had not had access to the Sonoma County ortho-imagery and Lidar product?
9. Please briefly describe any non-economic benefits to you or your organization of being able to access the Sonoma county ortho-imagery and Lidar products.
10. Not having the Sonoma County ortho-imagery and Lidar products would have the following impact on your organization's ability to complete its mission critical activities.
- Would require major additional investment
 - Would require moderate additional investment
 - Would require minimal additional investment
 - Would have no impact
 - Other (please specify)
11. Do you anticipate using the ortho-imagery and Lidar products for future projects?
- Yes
No
12. If yes, please briefly describe the types of projects and the ortho imagery or Lidar products will be useful.
- Environmental/Conservation Planning
 - Urban Planning
 - Watershed Management
 - Forest Management
 - Carbon Monitoring
 - Scientific Research
 - Flood Management
 - Disaster Response
 - Engineering Planning and Design
 - Real Estate
 - Solar Energy Site Suitability Analysis
 - Agricultural Planning and Analysis
 - Other (please specify)
13. Please enter your contact information if you are willing to be contacted to provide additional information.

Name	
Company	
Address	
Address 2	
City/Town	
State/Province	
ZIP/Postal Code	
Email Address	
Phone Number	

3. Results

This section of the report summarizes the results of the survey. First, respondents are characterized. Next, how respondents access and use Sonoma County ortho-imagery and Lidar products is summarized. Finally, several measures of the value of the products to respondents are presented.

Who Responded to the Survey?

Ninety-five people responded to the survey from a wide array of organizations. However, not all respondents answered all the questions. As Figure 5 illustrates, over half of the respondents were from either commercial or local government organizations. Eighty-two percent of the respondents had already used Sonoma ortho-imagery and Lidar products before taking the survey, and 99% plan on using them in the future.

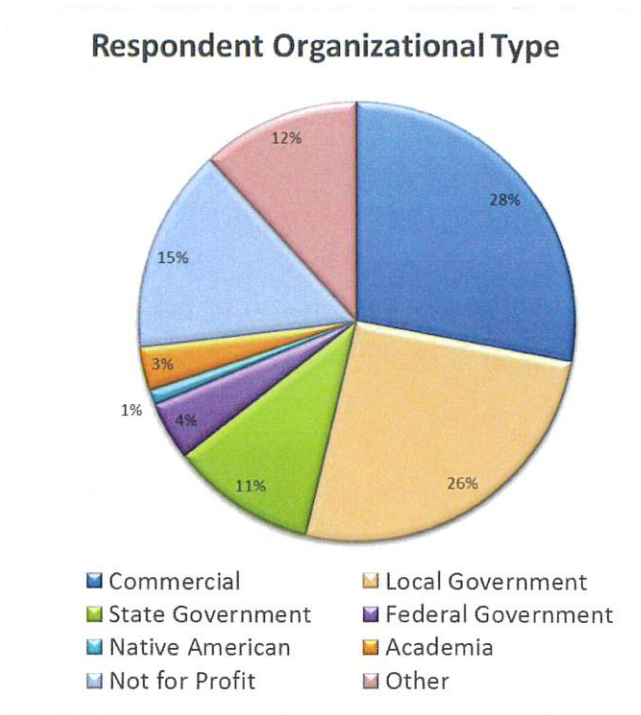


Figure 5. Survey responders by organizational type.

Commercial user respondents were primarily from engineering and environmental planning/consulting firms. Local agency respondents included individuals from:

- Sonoma County Water Agency
- Sonoma County Agriculture Preservation and Open Space District
- Sonoma County Permit and Resource Management Department
- Sonoma County Transportation and Public Works
- Sonoma County ISD/GIS

- Sonoma County Department of Agriculture
- Sonoma County Regional Parks
- Sonoma County Regional Climate Protection Authority
- District Attorney
- Russian River Salmon and Steelhead Monitoring Program
- City of Santa Rosa
- City of Rohnert Park
- Sonoma County Regional Climate Protection Authority
- Sonoma Resource Conservation District
- Sonoma County PRMD

Respondents classifying themselves as “Other” included citizens, real estate agents, and retirees.

How Do Respondents Access and Use the Products?

Participants access the products using all the means made available by the county. That access is almost equal across the different means, regardless of participant organizational type, underlines the need to provide multiple access points for successful deployment and adoption of the products (see Figure 6).

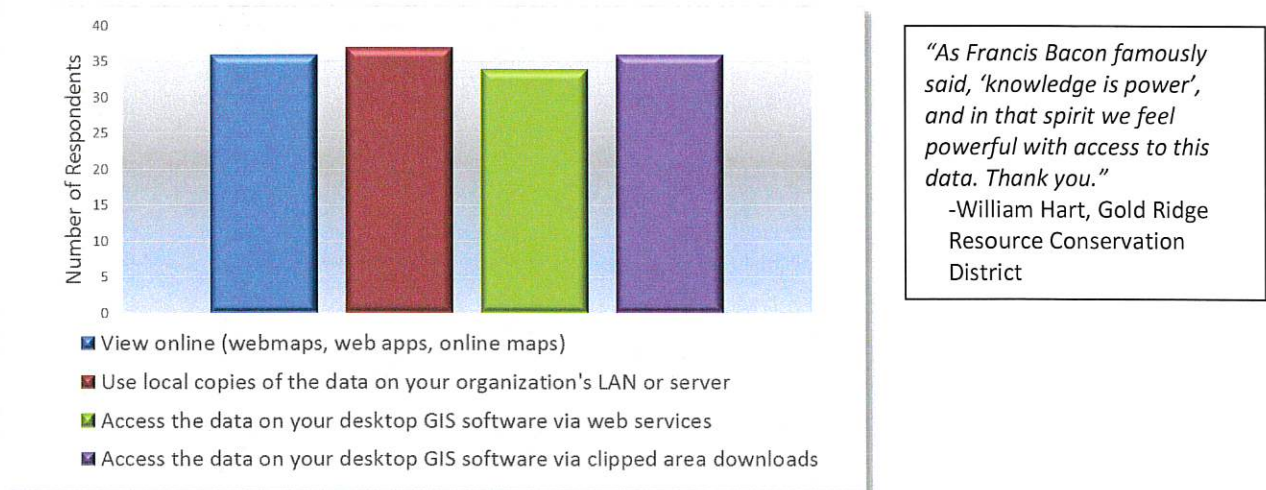


Figure 6. Means of accessing the Sonoma County ortho-imagery and Lidar data.

All of the imagery and data products are accessed repeatedly by respondents. As illustrated in Figure 7, the most used products (in order of use) are the 6-inch ortho-imagery, 1-meter bare earth Digital Elevation Model, 1 foot contours, and bare earth hillshade. Of the 17 products assessed in the survey, 14 were accessed more than 20 times per month by respondents.

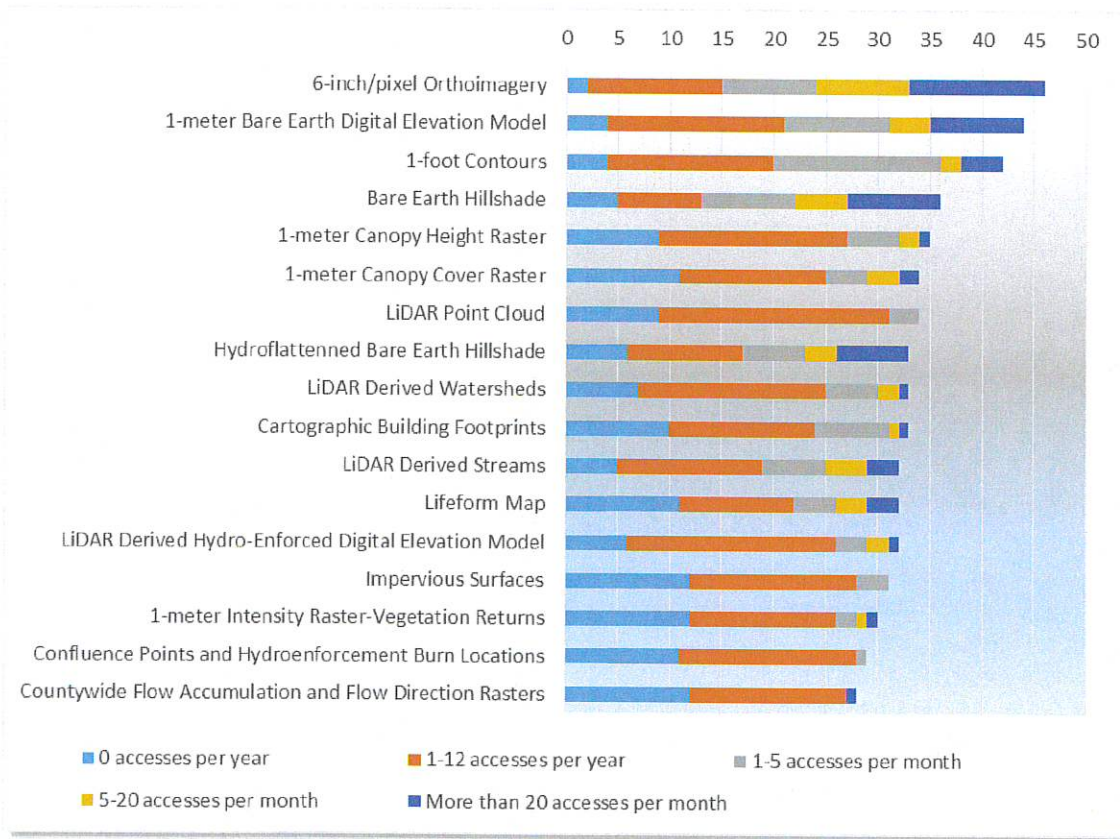


Figure 7. Level of use of Sonoma County ortho-imagery and Lidar data products by respondents.

Applications supported by the ortho-imagery and Lidar data are wide ranging, which can be expected from such a broad base of users. As Figure 8 illustrates, the largest use of the data is for Environmental/Conservation Planning, followed by Watershed Management. Responses to the “other” application category include engineering geology, land slide mapping, 3D modeling and fly throughs, hydrologic modeling, orienteering, higher education, wetlands delineation, and vegetation mapping.

These tools help us to be more precise in our regulatory efforts, and provide innumerable other benefits to the citizens of Sonoma County. We are only beginning to fully understand how critical this data set is to improving our programs! Thank you!

- Cree Morgan, Sonoma County Department of Agriculture

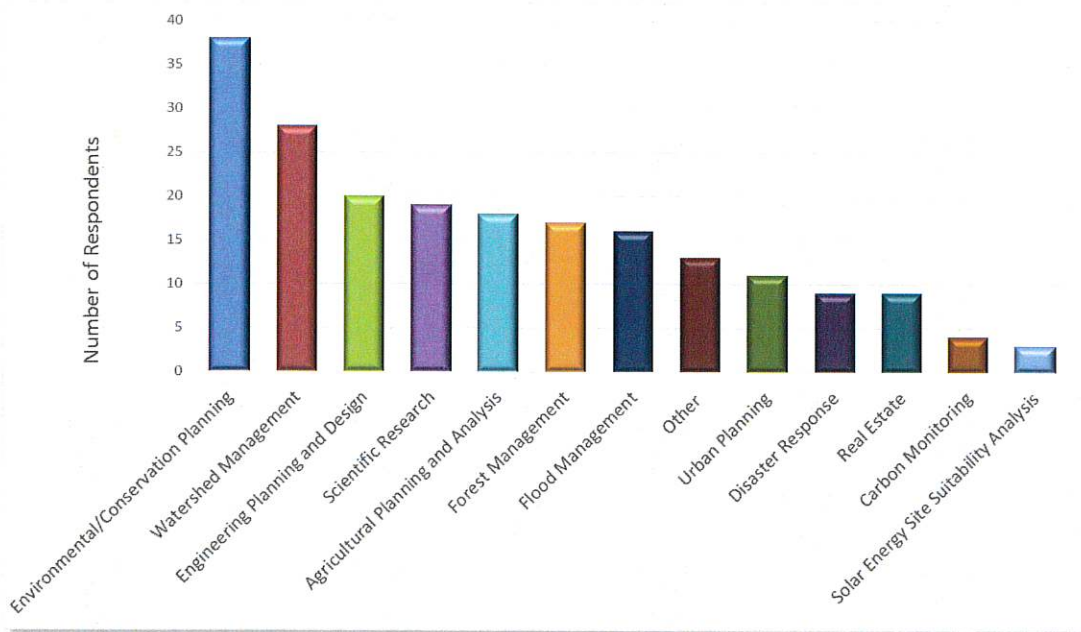


Figure 8. Sonoma County ortho-imagery and Lidar products support a wide variety of applications.

Commercial respondents use the products across the largest variety of applications, with their highest uses being for Environmental/Conservation Planning, Engineering Planning and Design, Scientific Research, and Agricultural Planning and Analysis. Local government respondents use the products across most of the applications, with the highest uses being for

Environmental/Conservation Planning, Engineering Planning and

Design, Watershed Management, Flood Management, and Disaster Response. Not-for-Profit respondents use the products primarily for Environmental/Conservation Planning, Forest Management, Scientific Research, Flood Management, and Agricultural Planning and Analysis.

"We use the data all the time, every day. It is part of every map. We always look at it before we even think of going into the field."

- Alex Young, Sonoma Ecology Center

What is the Value of the Products to Respondents?

All of the products are highly valued by respondents. Not surprisingly, the 6-inch ortho-imagery, 1-meter bare earth Digital Elevation Model, 1 foot contours, and bare earth hillshade are both the most accessed and the most valuable of the products. However, as Figure 9 shows, each of the products was listed as mission critical to more than two respondents.

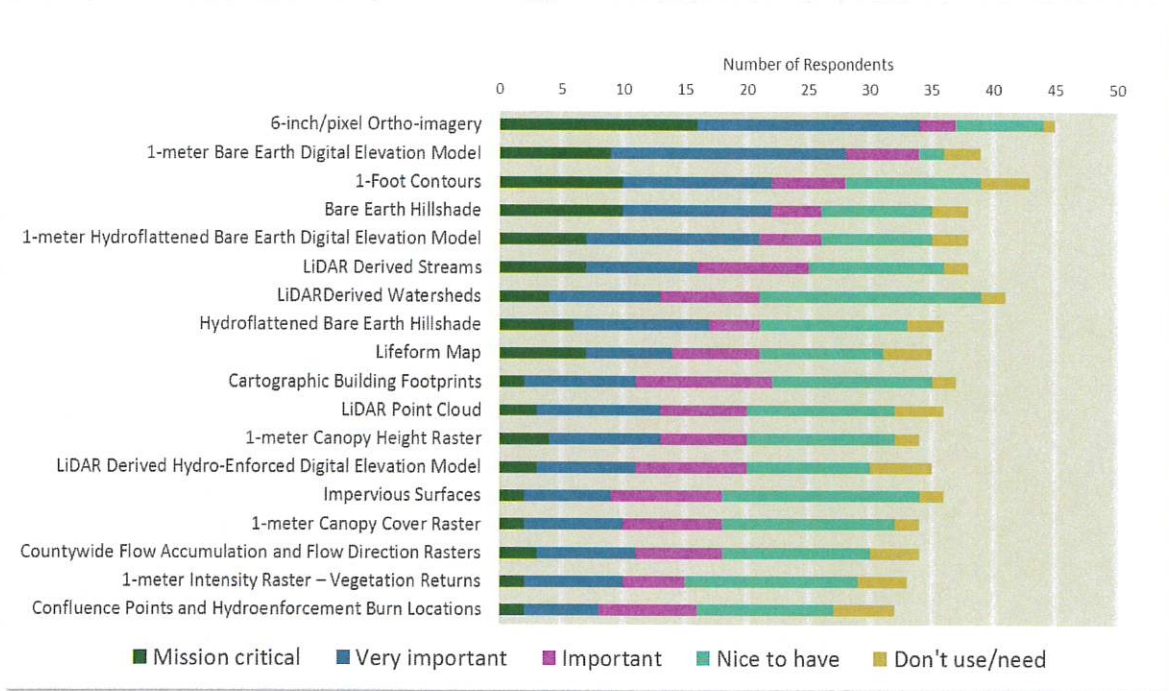


Figure 9. Value of Sonoma County Vegetation Mapping and Lidar Program products to respondents.

Establishing a dollar value for publicly provided information is a difficult task. One of the most accepted methods is to establish the opportunity cost of not having the information product available. Two survey questions queried respondents about the level of investment required if the Sonoma County ortho-imagery and Lidar products did not exist. As Figure 10 displays, 88% of respondents believe that either a major (35%) or a moderate (53%) investment would be required if the Sonoma Veg Map consortium did not acquire and provide access to the ortho-imagery and Lidar products.

"The products are saving us months on design" ... "they help to build trust with clients up front"
 - Jason Hocheder, Always Engineering

If the Sonoma County ortho-imagery and Lidar products were not available, respondents would have had to increase their field effort and/or turned to older and courser data sets including USGS 10m DEMs, NAIP imagery, or older imagery cached on Esri and Google Earth websites. Many stated that the resulting project work would be of less value because it would take longer to create and would be "less accurate", of "reduced quality", "less comprehensive", of a "lower resolution", and "less effective". Several stated that their projects would not have been feasible without the Sonoma County products.

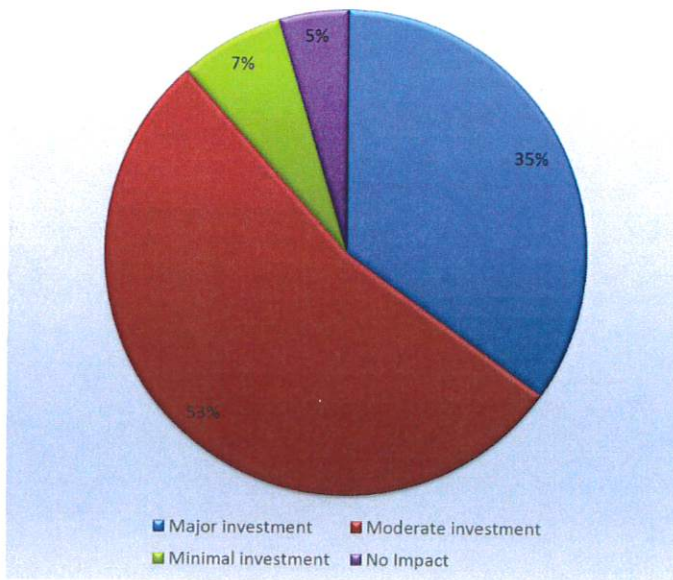


Figure 10. Level of investment required if Sonoma County ortho-imagery and Lidar products did not exist.

Thirty-six respondents answered the question, “What would be the approximate cost in dollars to the project if you had not had access to the Sonoma County ortho-imagery and Lidar products?” Estimates varied considerably, depending upon the applications being supported by the products. Several mentioned that their costs would not have increased, but that the quality of the output would have suffered. Others declined to put a dollar estimate on their increased costs, but projected them to be “too much”, “considerable costs”, “incalculable”, or “invaluable”.

Several of the commercial users have assessed the accuracy of the Lidar products against field survey data and have found the Lidar products to be of sufficient accuracy to reduce the amount of time they need to spend in the field, saving them and their clients from \$1,000 to \$50,000 per project. Similar to commercial users, the products also save time and make field work more effective for not-for-profit organizations. They also help to build consensus by helping to bring focus to discussions with constituents. One local government respondent estimated that the loss to his/her organization would be over \$1 million. Table 2 summarizes the responses of the 15 respondents who placed a dollar estimate on the cost of having to substitute other data or field work for the Sonoma County products in their projects.

“I cannot speak highly enough about the quality and usefulness of this data. The Lidar data products have improved cartography quality, and enabled more advanced and accurate data analysis. These products are an amazing resource for Sonoma County GIS professionals.”

- Andrew Bartshire, Russian River Salmon and Steelhead Monitoring Program

Table 2. Estimated cost per project of not having Sonoma County ortho-imagery and Lidar products.

<i>Additional cost per project</i>	<i>Number of respondents</i>
\$1000-\$5000	5 (30%)
"Thousands of dollars"	3 (20%)
\$10,000-\$50,000	7 (50%)

4. Findings and Conclusions

Key findings of the survey are:

- The users of Sonoma County's Vegetation Mapping and Lidar products are diverse and include local, state, and federal agencies; academia; commercial firms; Tribes; not for profit organizations, and others. Over 50% of the survey respondents were from local government or commercial entities.
- Users access the ortho-imagery and Lidar products using all of the means provided by Ag & Open Space which include viewing on line, using local copies on their organization's LAN or server, accessing the data on desktop GIS via web services, and accessing the products on desktop GIS software via downloads from data portals such as Open Topography or from District-hosted web applications.
- All of the 17 Sonoma County Vegetation Mapping and Lidar Program products are used by respondents, and several of them are accessed more than 20 times/month by individual users.
- The ortho-imagery and Lidar products support a diverse array of applications including environmental/conservation planning, watershed management, agricultural planning and analysis, forest management, flood management, disaster response, real estate, 3-D fly throughs, wetland delineation, and project management and client support.
- The most highly valued and accessed products are the 6 inch ortho-imagery, 1 meter bare earth digital elevation model (DEM), 1 foot contours, and bare earth hillshade. However, each of the 17 products was listed as mission critical by two or more respondents.
- The additional cost respondents would have borne in the absence of the Sonoma County products varied widely. Several respondents stated that their projects would not have been feasible without the products. Others stated that they would have been required to invest more in their field efforts or that the quality of their results would have suffered greatly. Respondents indicated that they would have had to spend between \$1,000 and \$50,000 per project to purchase data if the Sonoma County vegetation map and Lidar products did not exist.

In conclusion, respondents from a wide variety of organizations clearly value the Sonoma County Vegetation Map and Lidar products. The products save them time, strengthen their communication with clients and constituents, and greatly improve the quality of their analyses and outputs.

Appendix A: Sonoma County Vegetation Mapping and Lidar Program Products

(data available at sonomavegmap.org/data-downloads)

Deliverable	Description	Status
<i>Lidar Derived Products (delivered for Sonoma County plus a 250-meter buffer)</i>		
Forest Metrics	1-meter spatial resolution canopy height raster; 1-meter spatial resolution canopy density raster.	Completed 2014
Intensity Images (3 rasters)	1 m. resolution raster – interpolation based on average of first returns; 1 m. resolution raster – interpolation based on average of vegetation returns; 1 m. resolution raster – interpolation based on average of all returns.	Completed 2014
First Return (Highest Hit) Digital Surface Model (DSM)	Delivered as 1-meter spatial resolution raster.	Completed 2014
Enhanced Classified Point Cloud	Enhanced .las classification to the following classes: Ground, Default, Vegetation, Water, Building	Completed 2014
2-D Building Footprints	Building polygons for all buildings in Sonoma County, including structures under canopy. 2 polygon feature classes – one of “building point extents” and one of “cartographic buildings”.	Completed 2014
1-Foot Contours	Contours (line vectors) with 1 ft. contour intervals, delivered as a geodatabases feature class.	Completed 2014
Hydroflattened Bare Earth Digital Elevation Model (DEM)	Hydroflattened GSM as per USGS NED Lidar Base Specifications Version 1.0 (USGS, 2012), delivered as 1-meter spatial resolution raster. Breaklines delivered as a geodatabase feature class.	Completed 2014
Lidar Vertical Accuracy Assessment	Vertical accuracy assessment, in accordance with National Digital Elevation Program guidelines.	Completed 2014
Lidar Data Quality Assessment	Quality assessment of Lidar point cloud and associated deliverables.	Completed 2014
Lidar Quality Assurance and Documentation	Quality assurance and reporting.	Completed 2014
<i>Lidar Derived Products (outside of Sonoma County)</i>		
Lake Sonoma Watershed Add-On	Products 1-10 (above) for the Lake Sonoma Watershed inside of Mendocino County.	Completed 2014
Lake Mendocino Add-On	The following products will be produced for Lake Mendocino: 6-inch resolution 4-band orthophotos, hydroflattened bare earth DEMs as per USGS standards, an enhanced classified point cloud, a first return (highest hit) DEM, intensity images, one foot contours, and 2-D building footprints.	Completed 2014

<i>Hydrologic Data Products (delivered for all of Sonoma County, plus a 250-meter buffer)</i>		
Lidar Derived Stream Centerlines	Stream centerlines for all of Sonoma County.	Completed 2016
Lidar Derived Watersheds (HUC 2 to HUC 14)	Nested watersheds countywide, following NHD conventions.	Completed 2016
Lidar Derived Hydrologic Rasters	Includes a hydroenforced DEM, flow accumulation, and flow direction.	Completed 2016
Lidar Derived Hydrologic Vectors	Includes hydroenforcement burn locations, and stream confluence points.	Completed 2016
<i>Vegetation Map Products (delivered for all of Sonoma County, plus a 250-meter buffer)</i>		
"Lifeform" Map	Generalized vegetation map to broad life form classes, such as "forest," "shrub," and "herbaceous."	Completed 2015
Full Lifeform Map - Lake Sonoma Watershed	Addition of the Lake Sonoma Watershed in Mendocino County to the lifeform map.	Completed 2016
Pervious/Impervious Map	Fine scale delineations of impervious features. Impervious features include information about whether they are roads or other types of impervious surfaces.	Completed 2015
Vegetation Plot Data Collection	Field data collection to support classification development; field work and subsequent classification development conducted by CNPS and CA DFW. Deliverables include plot data, a vegetation classification for Sonoma County, and a dichotomous key.	Completed 2015
Croplands Dataset	Fine scale "agriculture" data with classes including annual croplands, perennial croplands, orchards, vineyards, nurseries, intensively managed hayfields, and irrigated pasture.	Completed 2015
Vegetation Map	Fine scale vegetation and habitat map of Sonoma County using the National Vegetation Classification Standard.	May 2017
Biomass/Aboveground Carbon Map	Above ground biomass and carbon storage. 30-meter raster deliverable; goal is 10% accuracy @ 95% confidence @ 1 ha scale. Work by U. Maryland under NASA ROSES grant.	May 2017
Forest Habitat Structure	Vegetation map will include canopy height and canopy cover for all forested polygons.	May 2017
Added Vegetation Map Detail – Serpentine Areas	Vegetation map will include added classification detail and finer scale delineations for serpentine areas.	May 2017
Added Vegetation Map Detail – Vernal Pools	Vernal pools will be mapped to aggregations of alliances; vernal pools will have finer scale delineations than other areas of the vegetation map.	May 2017
Added Vegetation Map Detail – Riparian Areas	Vegetation map will include added classification detail in riparian areas; riparian areas will have finer scale delineations than other areas of the vegetation map.	May 2017

Vegetation Map Accuracy Assessment	Accuracy assessment of the vegetation and habitat map.	Q4 2017
Change Detection Method	Provides a protocol for mapping vegetation and habitat change across the county every three years using publicly available datasets.	Q4 2017
<i>Applications and Outreach</i>		
'Soil-Veg' Map Viewer	Viewer to explore scanned, georeferenced historic vegetation maps of northern Sonoma County: http://sonomavegmap.org/SoilVegMaps .	Completed 2016
Clip and Email Tool – Contours	Quick and easy access to clipped contour data via JavaScript viewer: http://sonomavegmap.org/contours .	Completed 2015
Clip and Email Tool – Imagery	Quick and easy access to high resolution orthophotos and Lidar derivatives via JavaScript viewer: http://sonomavegmap.org/imagery .	Completed 2015
1942 Imagery Story Map	Viewer/Story Map that allows the user to compare the landscape in 1942 to today's landscape using historic air photographs: http://sonomavegmap.org/1942 .	Completed 2014
Web site, blog, and newsletters	SonomaVegMap.org Web site, blog, and newsletters.	Ongoing

Appendix B: List of Individuals Interviewed

Of the 95 individuals that responded to the Survey Monkey survey, the District selected 13 individuals to be interviewed, based on their regular use of remote sensing and GIS data for environmental or conservation planning. The individuals are listed below.

Name(s)	Organization
Tim Pudoff	Sonoma County, Permit and Resource Management
Jason Hocheder	Always Engineering, Inc.
Mark Wein	Sonoma County, Transportation and Public Works
Joseph Kinyon	Sonoma Land Trust
Paul R. Anamosa, Ph.D.	Vineyard Soil Technologies
Celeste Dodge	Pepperwood Foundation
Alex Young	Sonoma Ecology Center
Jeremy Kobor	O'Conner Environmental
Susan Hecker	USGS - Earthquake Studies
Chuck Striplen	San Francisco Estuary Institute
Walter V. Moody	Ray Carlson and Associates
Brian Quinn, Ph.D.	City of San Francisco
Mathew Clark, Ph.D.	Sonoma State University



MARIN COUNTYWIDE FINE SCALE VEGETATION MAP AND LANDSCAPE DATABASE PROJ
Partner Update 6-8-2021

UPDATES

- The Marin County fine scale vegetation map has been completed! The map is an 82-class vegetation map of Marin County with 96,636 polygons. The fine scale vegetation map represents the state of the landscape in 2018 and adheres to the National Vegetation Classification System (NVC). The map was designed to be used at scales of 1:5,000 and smaller. Please refer [to this datasheet for more information and to download/access the map.](#)
- Next steps for the overall fine scale vegetation mapping effort include completion of the floristic classification report including alliance and association level descriptions, as well as a formal accuracy assessment, development of the final mapping report, and integration of percent impervious attribution. This work is expected to be completed between June and August 2021.
- Countywide impervious surfaces mapping is ongoing, with a high-quality draft of the countywide impervious map expected by mid-June. We will be creating a web map so that stakeholders can review the draft impervious dataset and provide feedback or suggest edits. [Here is a link](#) to the impervious mapping kickoff slide deck detailing the scope of work and methodology.
- The countywide lidar-derived hydrological system mapping is complete, and the stream flowlines/features for Marin County were accepted by USGS and are now included in National Hydrography Dataset (NHD) National Map. USGS publishes that data as a [map service here](#), and on [ArcGIS online here](#). The updated Watershed Boundary Dataset (WBD) features (HUC-12's and HUC 14's) are currently in final review by the WBD National Technical Coordinators and CA NHD/WBD State Steward. WBD finalization is expected in July 2021.

PROJECT SCHEDULE

Milestone		Status
6-inch, 4-band ortho imagery acquisition and post processing	✓	Completed June 2018
Vegetation Field Sampling for floristic classification	✓	Completed July 2019
QL1 Lidar Acquisition	✓	Completed Winter 2019
1-foot countywide lidar derived contours	✓	Completed December 2019
Additional lidar derived products (DEM, DSM, hillshade, raw ladder fuels raster, canopy height model, canopy closure model)	✓	Completed January 2020
Final Vegetation Lifeform Map	✓	Completed June 2021
Lidar derived hydrological system mapping (NHD update complete; WBD ongoing)	➡	In process (est. July 2021)
Marin countywide vegetation classification analysis, descriptions, and final key	➡	In process (est. June 2021)
Countywide lidar derived impervious surface mapping	➡	In process (est. July 2021)
Countywide Fine Scale Vegetation Map	✓	Completed June 2021
Accuracy Assessment and Final Report	➡	July/August 2021

DATA ACCESS (see page 2 below)



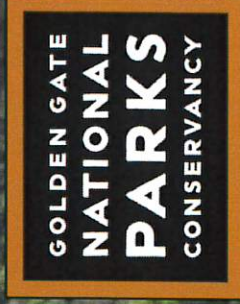
MARIN COUNTYWIDE FINE SCALE VEGETATION MAP AND LANDSCAPE DATABASE PROJCT
Partner Update 6-8-2021

- **2018 Orthoimagery**
 - **Access:**
 - Access ArcGIS Service Endpoint [here](#)
 - Imagery Technical Report [here](#)
 - Direct Download Imagery (MarinMap) [here](#)
- **2019 QL1 Lidar**
 - **Access:**
 - Direct Download Complete Technical Report (3 MB) [here](#)
- **2019 Lidar Derived Products**
 - **Topographic Products**
 - Lidar derived DEM_Harn (MarinMap Service) [here](#)
 - Lidar derived DEM_WGS (MarinMap Service) [here](#)
 - Lidar derived DSM_Harn (MarinMap Service) [here](#)
 - Lidar derived Hillshade_Harn (MarinMap Service) [here](#)
 - Lidar derived Hillshade_WGS (MarinMap Service) [here](#)
 - Lidar derived 1-ft Contours (visible at 1:1000 or below) [here](#)
 - Lidar derived [Slope](#)
 - Marin Map Directory [here](#)
 - **Additional lidar Derivitaves**
 - 1-meter canopy height model [datasheet](#)
 - 1-meter canopy height model [File Geodatabase Raster](#)
 - 1-meter canopy closure [datasheet](#)
 - 1-meter canopy closure [File Geodatabase Raster](#)
 - Raw [ladder fuels datasheet](#)
 - Raw ladder fuels [File Geodatabase Raster](#)
- **Landcover**
 - **Vegetation**
 - Countywide Vegetation Lifeform Map [here](#)
 - Countywide Forest Lifeform Map [here](#)
 - Countywide Fine Scale Vegetation Map [here](#)
 - Standardized 2004-2014 Vegetation Map – MCP & MMWD Areas Only [here](#)
 - **Hydrography**
 - Lidar derived flowlines/steams, waterbodies, etc. via [USGS GIS Service](#) or [ArcGIS online](#)

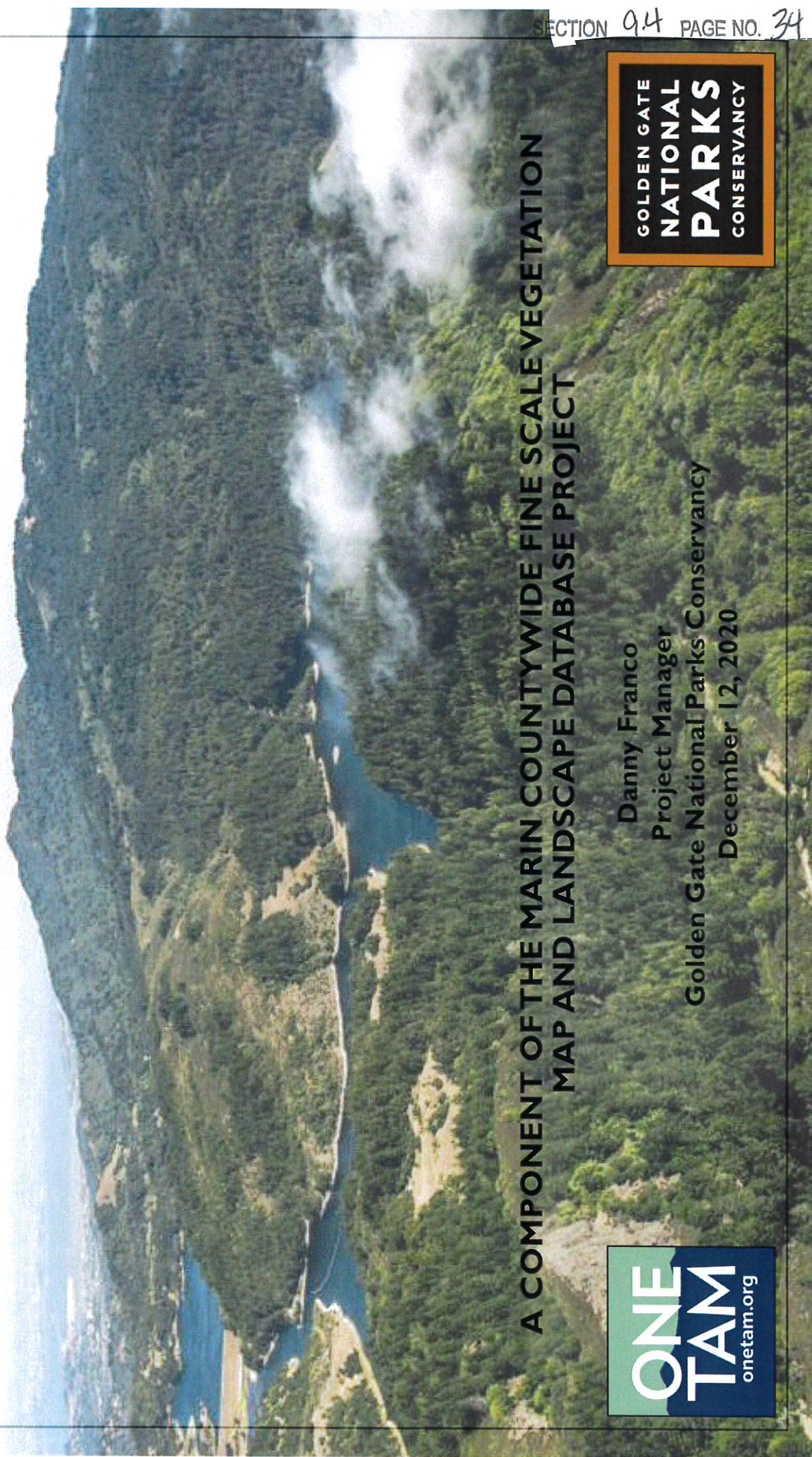
Questions? Email dfranco@parksconservancy.org

MARIN COUNTYWIDE LIDAR DERIVED HYDROGRAPHY

A COMPONENT OF THE MARIN COUNTYWIDE FINE SCALE VEGETATION
MAP AND LANDSCAPE DATABASE PROJECT



Danny Franco
Project Manager
Golden Gate National Parks Conservancy
December 12, 2020



ESTABLISHED PARTNERSHIP



“perhaps the highest priority need for assessing condition and trend of key vegetation community and rare plant indicators is having accurate and consistent mountain-wide spatial vegetation data.”

PRODUCTS AND SCHEDULE

Milestone	Status
6-inch, 4-band ortho imagery acquisition and post processing	Completed June 2018
Vegetation Field Sampling for floristic classification	Completed July 2019
QLI Lidar Acquisition	Completed Winter 2019
1-foot countywide lidar derived contours	Completed December 2019
Additional lidar derived products (DEM, DSM, hillshade, raw ladder fuels raster, canopy height model, canopy closure model, etc.)	Completed January 2020
Draft Vegetation Lifeform Map	Completed March 2020
Lidar derived hydrological system mapping (NHD update)	In process
Marin countywide vegetation classification analysis, descriptions and key	In process
Countywide lidar derived impervious surfaces layer upgrade	In process
Draft Fine Vegetation Scale Map to local expert review	February 2021
Complete Fine Scale Vegetation Map	May 2021
Accuracy Assessment and Final Report	June/July 2021

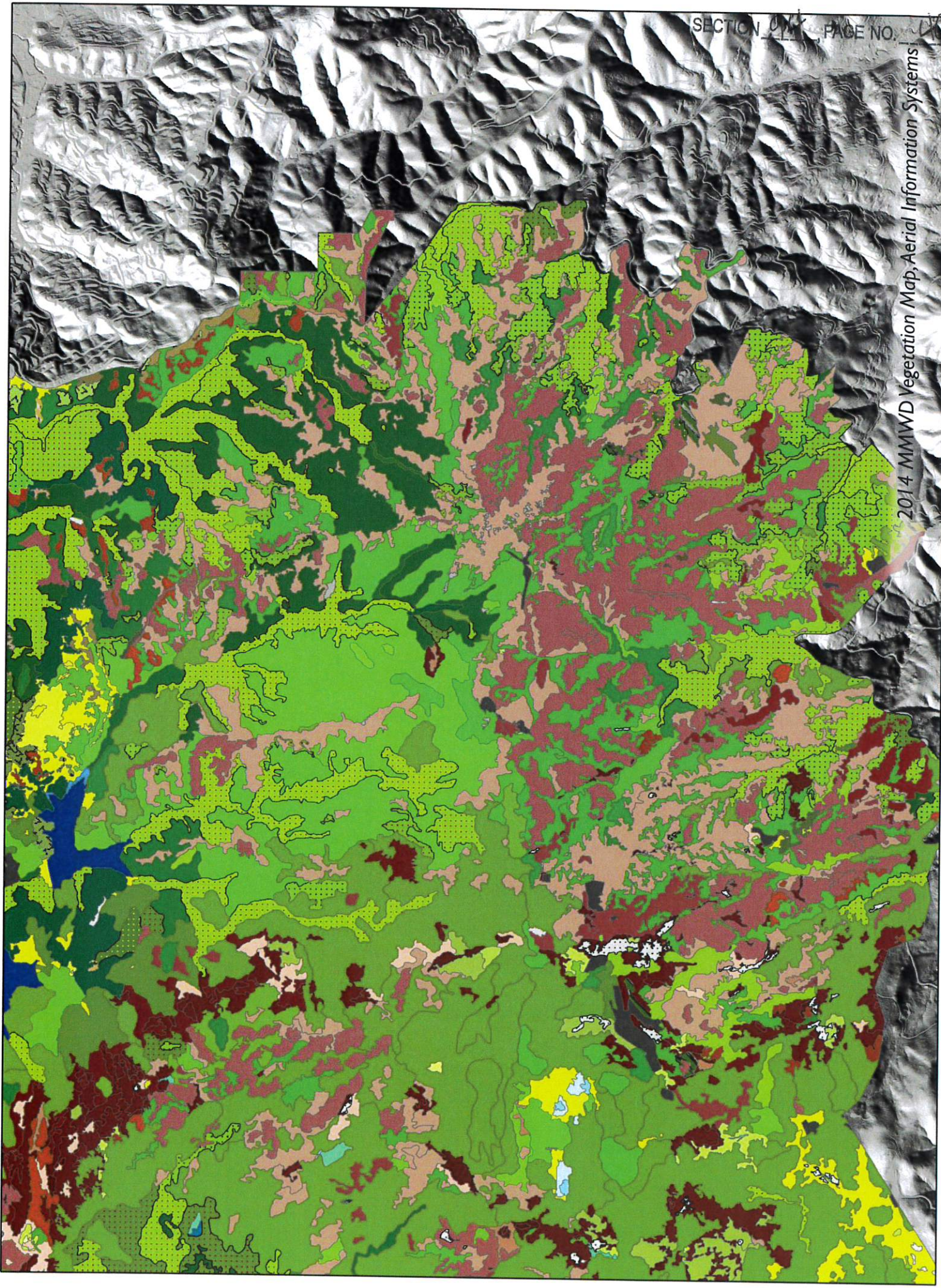
“To effectively care for ecosystems and infrastructure, citizens, landowners, politicians, scientists, stewards and agencies must know the location and distribution of resources across the landscape.”

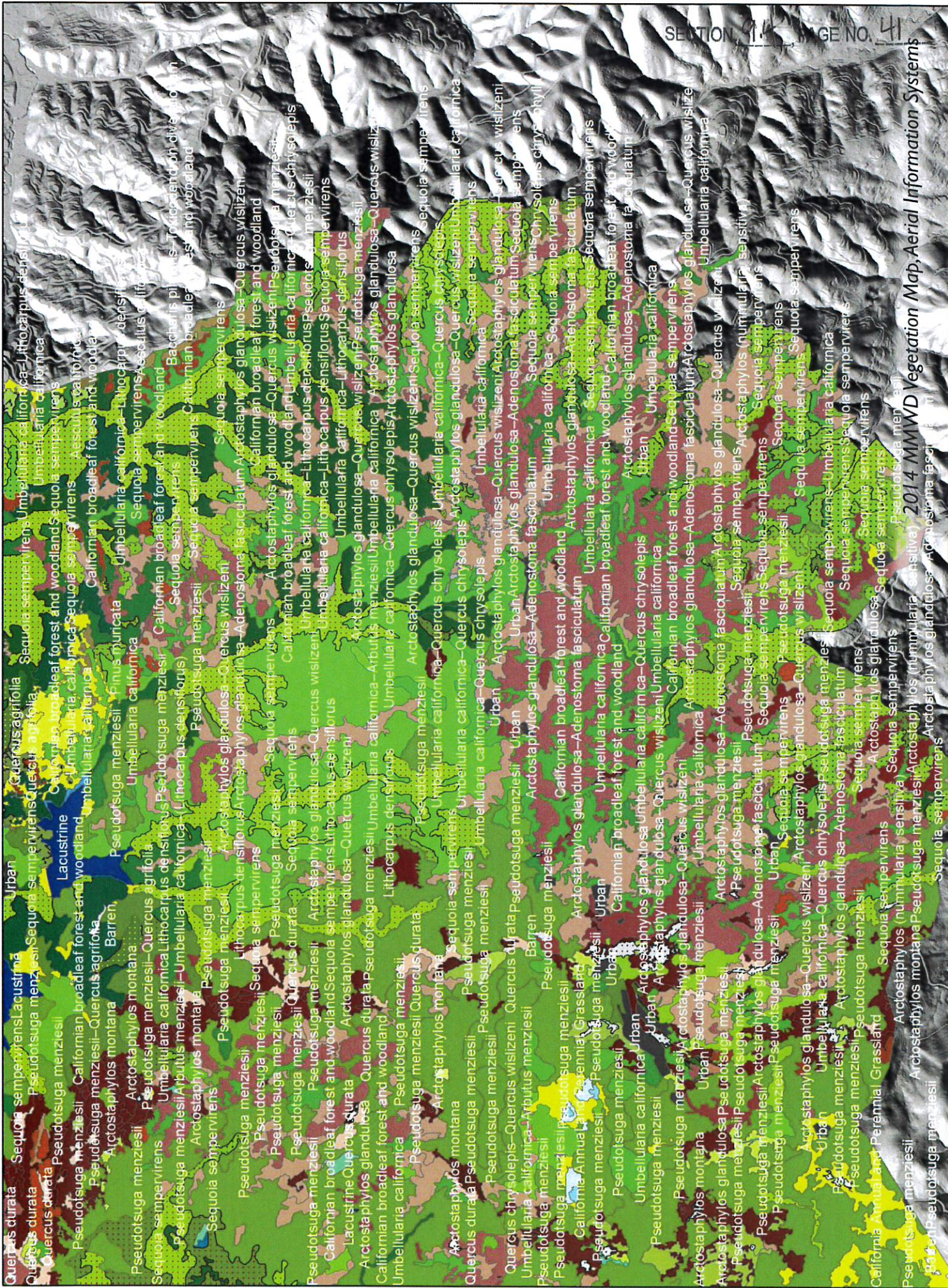
2018 Marin countywide 4-band 6-inch aerial imagery



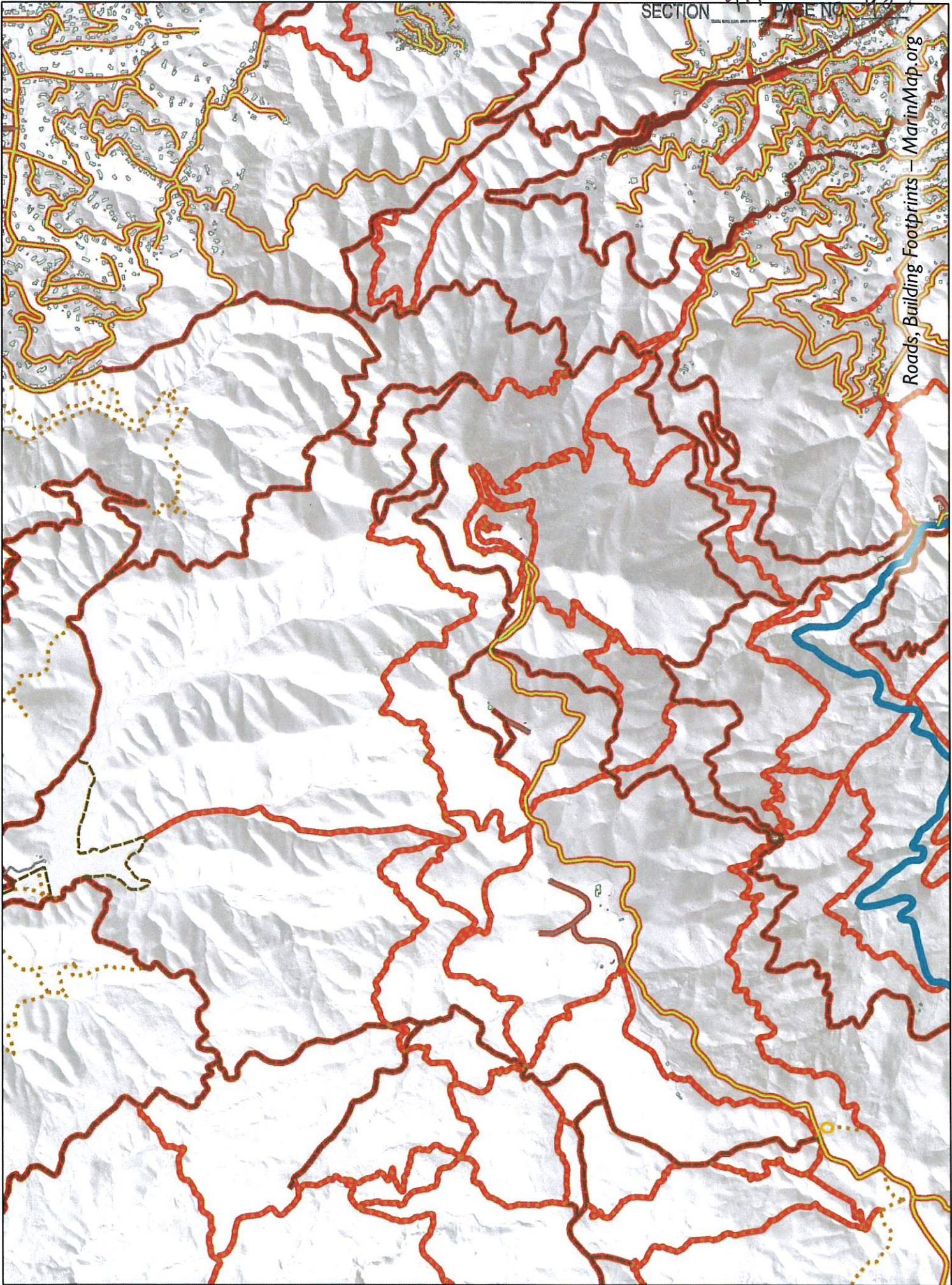


Marin survey points, CNPS/CDFW vegetation mapping program

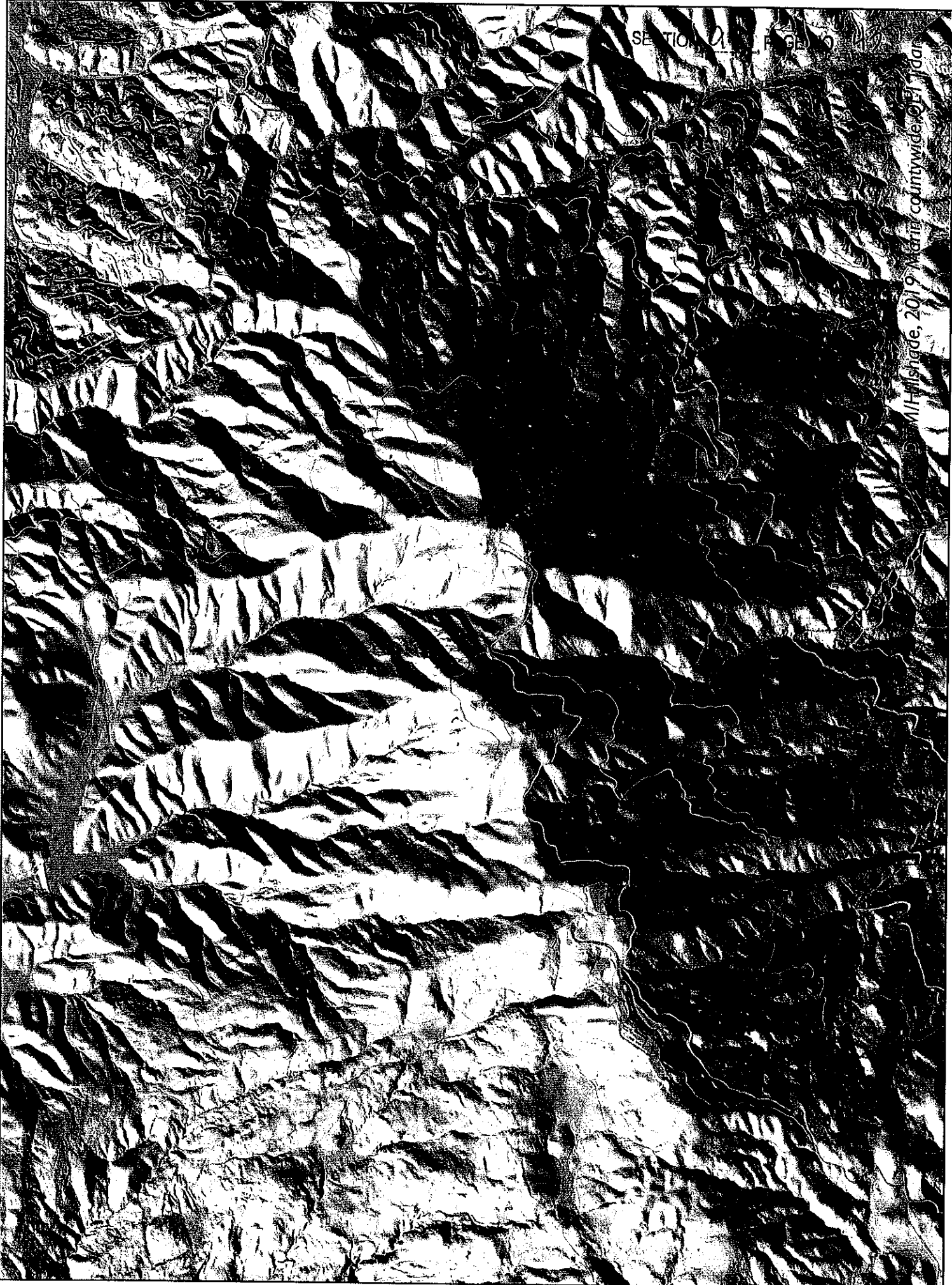




2014 MMWD Vegetation Map, Aerial Information Systems



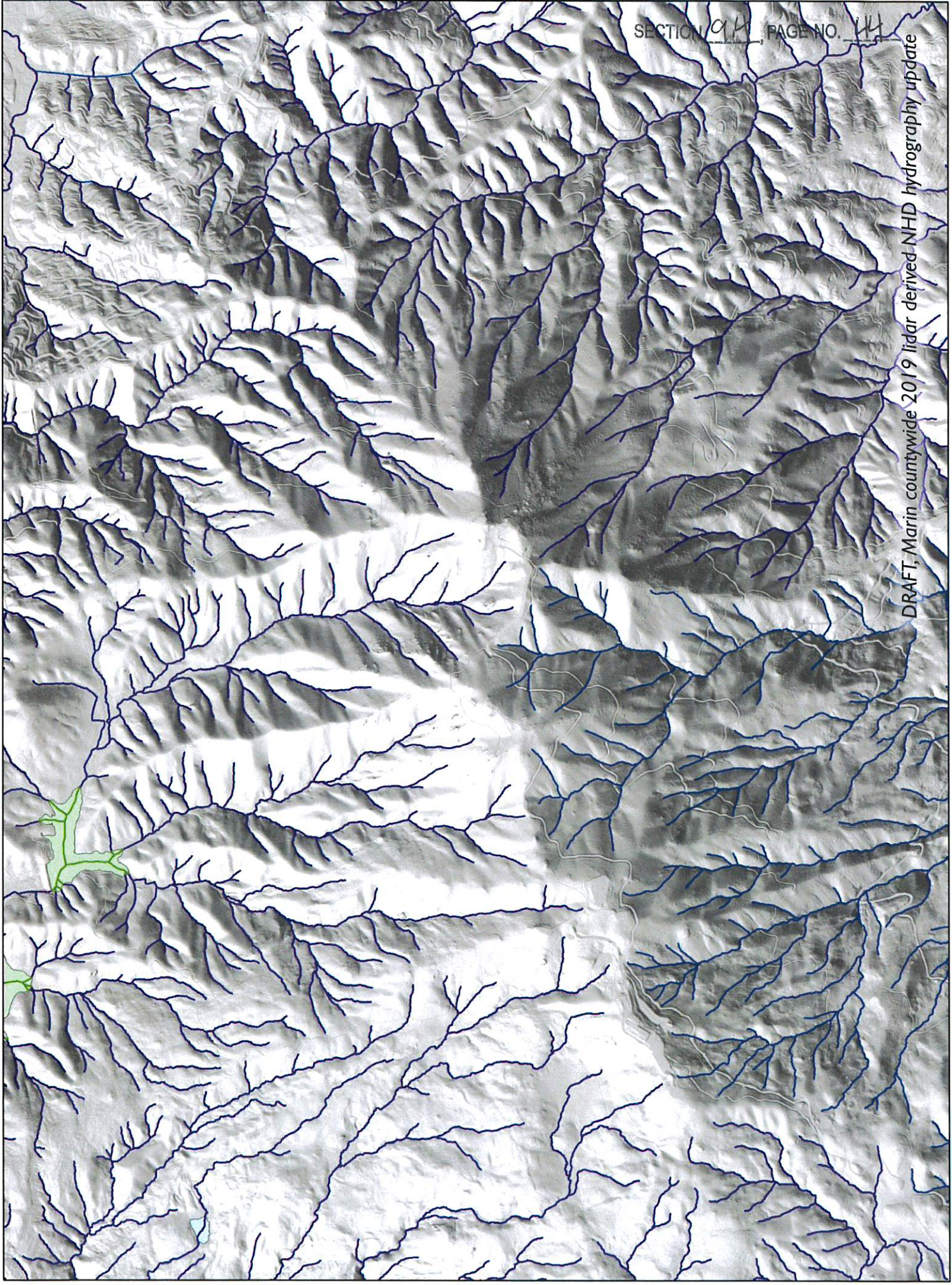
Roads, Building Footprints — MarinMap.org



SECTION 21 PAGE 9

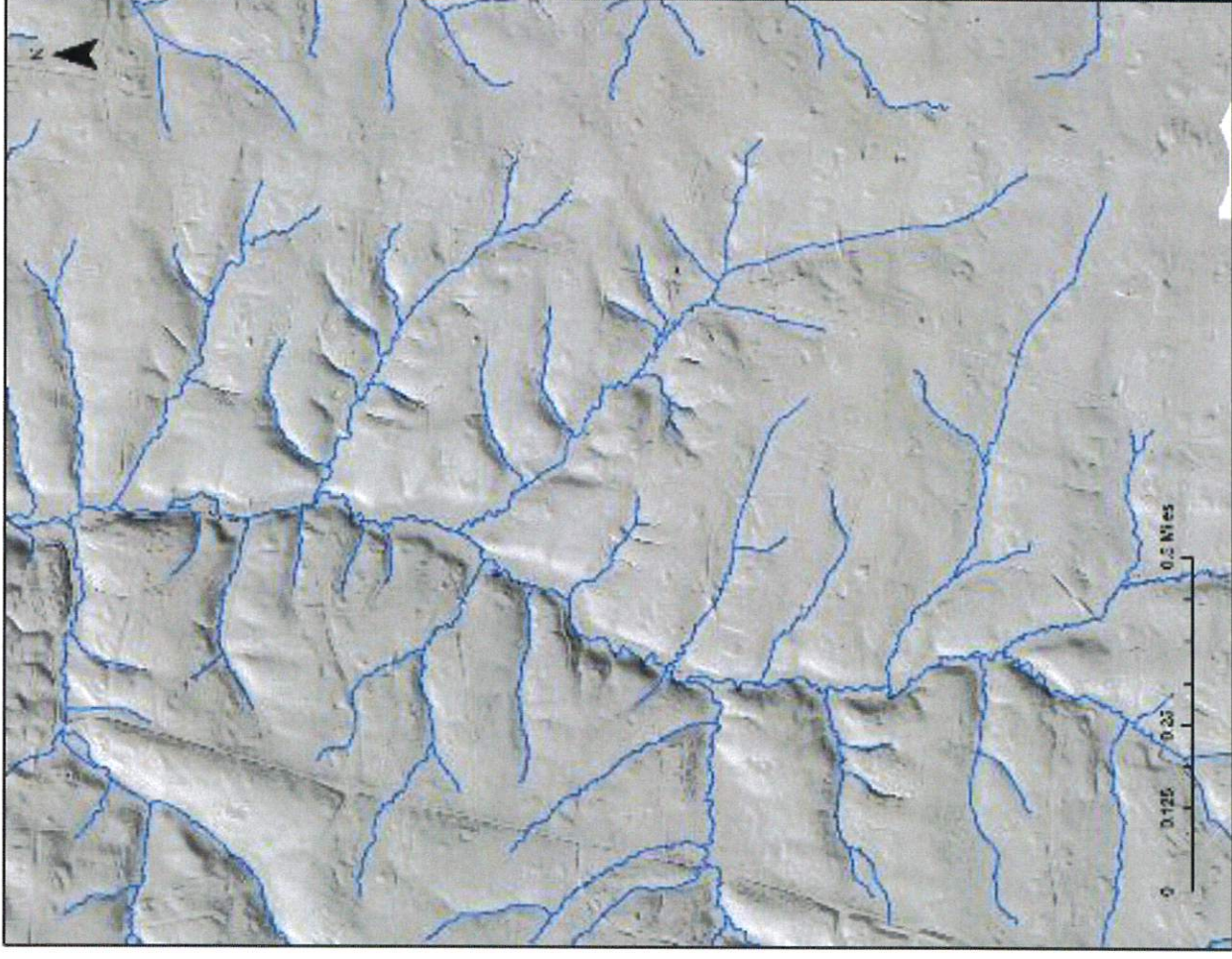
MH-11346, 2019, Mariposa Countywide, © F. J. Dar

DRAFT, Marin countywide 2019 lidar derived NHD hydrography update



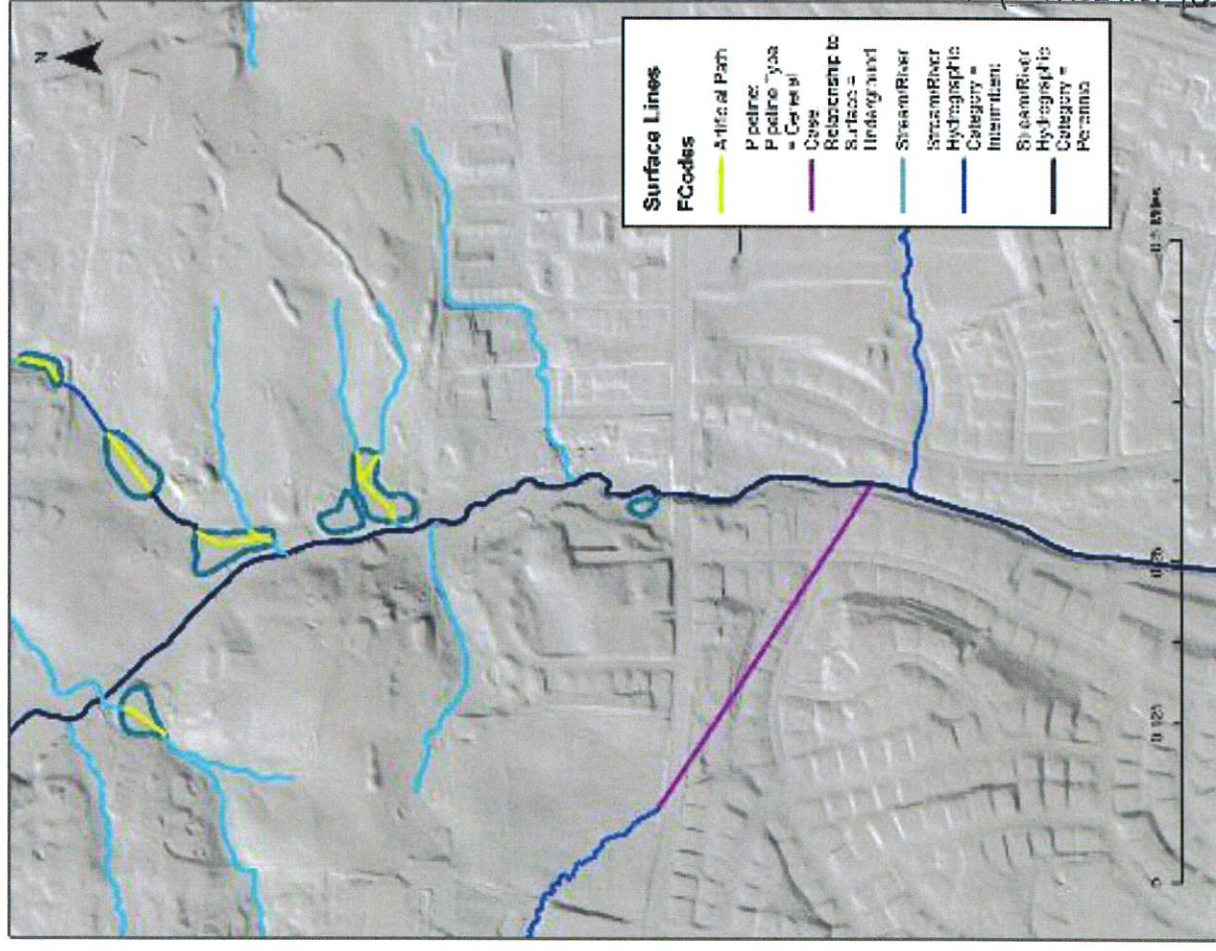
Level 1: Streamlines and Water Bodies

- Creates the streamlines from the LiDAR, connects surface streams with visible channelization together
- Only underground features represented are culverts
- Will include delineating waterbodies
- Will have topologically correct network smoothing (x,y smoothing) for visible channels
- Does not include any attribution
- Creation of culvert location database is possible



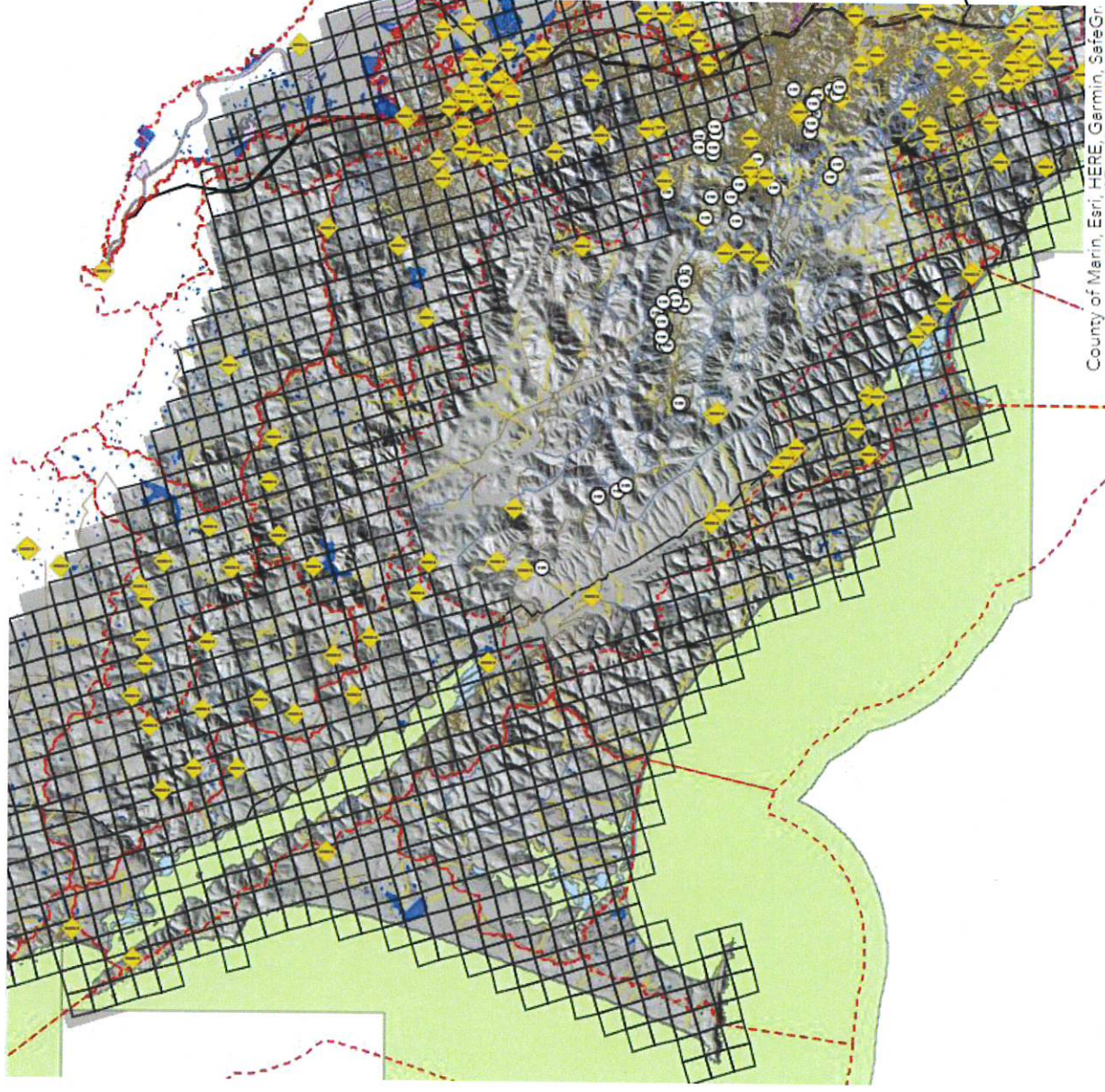
Level 2: Network and Features

- Creates network connectivity elements that are not characterized by visible surface flow features. Adds below ground pipes where data available (not storm sewer systems)
- Will include centerlines/artificial paths through waterbody polygons
- Integrates attribution from current NHD
- Assign elevation values and enforce topologically consistent downstream flow (z smoothing) for full network connectivity
- Attribution of features based on available data with type of streamline or water body (Feature Types and Feature Codes)
- Creation of watershed boundaries HUC 12 and smaller



Keys to Success / Process

- Iterative development with local stakeholder engagement – locally driven process.
- Ingestion of existing local data and knowledge
- Multiple phases of review of pilot areas by local stakeholders and experts; facilitated by web map application
- Early and ongoing involvement of CA State NHD Steward (DWR) and USGS GeoConflation expert



Questions?

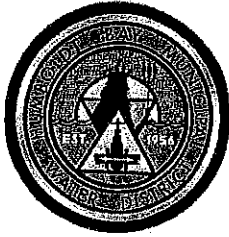
SECTION 9.4 PAGE NO. 49

THANK YOU!
GOLDEN GATE NATIONAL PARKS CONSERVANCY
ONE TAM MEMBERS AND PARTNERS:
NPS, MARIN COUNTY PARKS, STATE PARKS – BAY
AREA DISTRICT & MMWD
CNPS/CDFW VEGETATION MAPPING PROGRAM
TUKMAN GEOSPATIAL
QUANTUM SPATIAL
KASS GREEN & ASSOCIATES
VANCE RUSSELL
MIKE VASEY – NERR
SHELLY BENSON
JOSH COLLINS - SFEI
NATE HEROLD – NOAA, COASTAL MGMT.
GREATER FARALLONES ASSOC. & NMS
MALT & MARIN RCD
USGS 3DEP & CA DWR
CA STATE COASTAL CONSERVANCY
CA NATURAL RESOURCES AGENCY
SONOMA AG + OPEN SPACE
CA LANDSCAPE STEWARDSHIP NETWORK

Please email me to receive future
product updates and data access

dfranco@parksconservancy.org

Engineering



HUMBOLDT BAY MUNICIPAL WATER DISTRICT

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GENERAL MANAGER

JOHN FRIEDENBACH

July 13, 2021

California Governor's Office of Emergency Services
Hazard Mitigation Grants Program Unit
3650 Schriever Avenue
Mather, CA 95655

LOCAL MATCH FUND COMMITMENT LETTER - REVISED

**Re: DR 4569, Control # 0538 – Humboldt Bay Municipal Water District
Matthews Dam Advance Assistance Subapplication
Funding Match Commitment Letter**

Dear State Hazard Mitigation Officer:

As part of the Hazard Mitigation Grant Program process, a local funding match of at least 25% is required. This letter serves as Humboldt Bay Municipal Water District's (HBMWD) commitment to meet the local match fund requirements for the Hazard Mitigation Grant Program.

SOURCE OF NON-FEDERAL FUNDS:	Local Agency Funding
NAME OF FUNDING SOURCE:	HBMWD Water Rates
FUNDS AVAILABILITY DATE:	July 13, 2021
FEDERAL SHARE AMOUNT REQUESTED:	\$1,532,962.50
LOCAL SHARE AMOUNT MATCH:	\$ 510,987.50
FUNDING TYPE:	Cash from municipal customer water rates

If additional federal funds are requested, an additional local match fund commitment letter will be required. Kindly contact Chris Harris, Business Manager, at 707-443-5018 or harris@hbmwd.com if you have any questions.

Respectfully,


John Friedenbach
General Manager

FINANCIALS

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
STATEMENT OF FUND BALANCES - PAGE 1 OF 2

SECTION 10.20 PAGE NO. 1



<u>BANK ACCOUNT BALANCES AT MONTH-END</u>	August 31, 2021	August 31, 2020
GENERAL ACCOUNTS		
1. US Bank - General Account	3,164,384.95	2,368,908.90
2. US Bank - Xpress BillPay/Electronic Payments Account	2,746.76	6,749.62
<i>Subtotal</i>	3,167,131.71	2,375,658.52
INVESTMENT & INTEREST BEARING ACCOUNTS		
3. US Bank - DWR/SRF Money Markey Accnt	166,534.24	166,501.26
4. US Bank - DWR/SRF Reserve CD Account	547,336.94	547,336.94
5. US Bank - PARS Investment Account	1,051,439.08	846,758.62
<i>Contributions = \$800,000 Earnings = \$251,439</i>		
6. L. A. I. F Account - General Account	1,687.78	1,687.78
7. L. A. I. F Account - MSRA Reserve Account	442,181.31	439,698.55
8. CalTRUST - Restricted Inv. Account (Medium Term)	1,329,638.18	1,320,606.21
9. CalTRUST - Unrestricted Inv. Account (Medium Term)	423,277.65	429,357.13
10. CalTRUST - DWFP Reserve Account (FedFund)	240,697.57	240,625.27
11. CalTRUST - ReMat Account (LEAF Fund)	780,364.43	647,484.69
12. CalTRUST - General Reserve Account (Short-Term)	2,383,688.83	1,236,212.54
<i>Total CalTRUST Accounts</i>	<i>5,157,666.66</i>	<i>3,874,285.84</i>
13. Humboldt County - SRF Loan Payment Account	98,416.18	97,615.84
14. Humboldt County - 1% Tax Account	-	451,281.62
15. Principle Investment Account	35,676.54	22,486.74
<i>Subtotal</i>	7,500,938.73	6,447,653.19
OTHER ACCOUNTS		
16. ReMat Deposit - Mellon Bank	27,000.00	27,000.00
17. Cash on Hand	650.00	650.00
18. Humboldt County - Investment Account (clsd)	-	19,191.21
19. Humboldt County - DWFP Reserve Account (clsd)	-	2,511.84
20. Humboldt County - MSRA Reserve Account (clsd)	-	1,861.87
21. Humboldt County - ReMat Account (clsd)	-	5,023.46
<i>Subtotal</i>	27,650.00	56,238.38
TOTAL CASH	10,695,720.44	8,879,550.09

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
STATEMENT OF FUND BALANCES - PAGE 2 OF 2

SECTION 10.20 PAGE NO. 2



<u>FUND BALANCES AT MONTH-END</u>	August 31, 2021	August 31, 2020
RESTRICTED FUNDS - ENCUMBERED		
1. Prior-Year Price Factor 2 Rebate	(2,990.84)	(21,859.25)
2. Prior-Year Restricted AP Encumbrances	(353,440.00)	(175,116.00)
3. Advanced Charges - 12Kv Relocation	(513,866.67)	(173,427.00)
4. Advanced Charges - 18,000lb Excavator	(1,500.00)	(222,800.00)
5. Advanced Charges - 3x Tank Seismic Retrofit	(1,113,103.67)	(208,334.00)
6. Advanced Charges - Cathodic Protection Project	(104,166.66)	(16,666.00)
7. Advanced Charges - Collector 2 Rehabilitation	(729,848.49)	(658,101.00)
8. Advanced Charges - On-Site Generation of Chlorine	(805,160.84)	(429,527.00)
9. Advanced Charges - Redundant Pipeline	(170,895.66)	(108,334.00)
10. Advanced Charges - TRF Emergency Generator	(312,500.00)	(279,166.00)
11. Advanced Funding - Community Power Resiliency	(215,000.00)	-
12. Advanced Funding - Assist. Spillway Seismic Grant	(4,166.66)	-
<i>Subtotal</i>	(4,326,639.49)	(2,293,330.25)
RESTRICTED FUNDS - OTHER		
12. 1% Tax Credit to Muni's	-	(451,281.62)
13. DWR Reserve for SRF Payment	(166,534.24)	(166,501.26)
14. DWR Reserve for SRF Loan	(547,336.94)	(547,336.94)
15. Pension Trust Reserves	(1,051,439.08)	(846,758.62)
16. ReMat Deposit	(27,000.00)	(27,000.00)
17. HB Retail Capital Replacement Reserves	(90,347.20)	(59,315.66)
<i>Subtotal</i>	(1,882,657.46)	(2,098,194.10)
UNRESTRICTED FUNDS		
BOARD RESTRICTED		
18. MSRA Reserves	(443,869.09)	(441,386.33)
19. DWFP Reserves	(240,697.57)	(240,625.27)
20. ReMat Reserves	(780,364.43)	(650,349.97)
21. Paik-Nicely Development	(4,158.00)	(4,158.00)
22. Principle Investment Reserves	(35,676.54)	(22,486.74)
22a. Northern Mainline Extension Study Prepayment	(5,651.43)	-
<i>Subtotal</i>	(1,510,417.06)	(1,359,006.31)
UNRESTRICTED RESERVES		
23. Accumulation for SRF Payment	(7,193.32)	(102,216.66)
24. Accumulation for Ranney/Techite Payment	(15,075.90)	51,667.97
25. General Fund Reserves	(2,953,737.21)	(3,084,103.18)
<i>Subtotal</i>	(2,976,006.43)	(3,129,019.43)
TOTAL NET POSITION	(10,695,720.44)	(8,879,550.09)

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
 REVENUE REPORT
 August 31, 2021

A. REVENUE RETURNED TO CUSTOMERS VIA PF2

	MTD RECEIPTS	YTD RECEIPTS	PRIOR YEAR	BUDGET	% OF BUDGET
1. Humboldt Bay Retail Water Revenue	26,554	50,032	53,096	375,000	13%
General Revenue					
Interest	0	0	0	0	#DIV/0!
FCSD Contract (Maint. & Operations)	22,076	52,215	72,282	225,000	23%
Power Sales (Net ReMat)	3,771	7,695	35,308	125,000	6%
Tax Receipts (1% Taxes)	0	0	0	875,000	0%
2. Miscellaneous Revenue*	1,297	12,059	27,058	50,000	24%
<i>*Detail on following page</i>					
TOTAL PF2 REVENUE CREDITS	53,697	122,002	187,743	1,650,000	7%

B. DISTRICT REVENUE

	MTD RECEIPTS	YTD RECEIPTS	PRIOR YEAR	BUDGET	% OF BUDGET
3. Industrial Water Revenue					
Harbor District	0	0	68	0	0
<i>Subtotal Industrial Water Revenue</i>	0	0	68	0	0
4. Municipal Water Revenue					
City of Arcata	116,548	223,694	206,027	1,457,266	15%
City of Blue Lake	15,381	30,271	28,942	190,603	16%
City of Eureka	271,736	523,683	492,100	3,368,178	16%
Fieldbrook CSD	15,219	29,049	26,603	185,228	16%
Humboldt CSD	86,175	170,607	161,501	1,061,800	16%
Manila CSD	6,657	12,024	11,326	79,725	15%
McKinleyville CSD	95,552	181,734	166,871	1,188,443	15%
<i>Subtotal Municipal Water Revenue</i>	<i>607,269</i>	<i>1,171,063</i>	<i>1,093,370</i>	<i>7,531,243</i>	<i>16%</i>
TOTAL INDUSTRIAL & WHOLESALE REVENUE	607,269	1,171,063	1,093,437	7,531,243	16%
5. Power Sales					
Power Sales (ReMat Revenue)	8,140	14,709	72,842	300,000	5%
Interest (ReMat Revenue)	0	0	4,932	0	
TOTAL REMAT REVENUE	8,140	14,709	77,774	300,000	5%
6. Other Revenue and Grant Reimbursement					
HB Retail Capital Replacement Rev.	4,015	7,783	7,671		
FCSD Contract (Admin & Overhead)	6,967	19,517	21,694		
FEMA/CalOES Grant Revenue	0	0	0		
SWRCB In-Stream Flow Grant Revenue	9,024	9,024	0		
Quagga Grant (Pass-Through)	0	3,700	0		
August Complex Fire Recovery	6,006	10,362	0		
Interest - Muni PF2 Retained	365	365	12,793		
Net Increase/(Decrease) Investment Accounts	6,668	8,658	32,190		
TOTAL OTHER/GRANT REVENUE	33,045	59,409	74,348		
GRAND TOTAL REVENUE	702,152	1,367,182	1,433,303	9,481,243	14%

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
 MISCELLANEOUS REVENUE - DETAIL REPORT
 August 31, 2021



B. MISCELLANEOUS RECEIPTS (RETURNED TO CUSTOMERS VIA PF2)

	MTD RECEIPTS	YTD RECEIPTS
<u>Miscellaneous Revenue</u>		
Dividend - Principal Life	-	-
Fees - Park Use	50	50
Rebate - CALCard	-	-
Refund - Diesel Fuel Tax	-	-
Refunds - Miscellaneous	-	-
Reimb - Blue Lake SCADA/Internet Monthly Fees	51	102
Reimb. - Copies & Postage	28	29
Reimb. - Gas	-	-
Reimb. - Telephone	-	-
UB - Water Processing Fees	60	120
UB - Hydrant Rental Deposit/Use	791	791
Sale of Scrap Metal	77	77
Retirees' Health Ins./COBRA Reimb.	-	10,290
	-	-
<u>Ruth Area</u>		
Lease - Don Bridge	-	-
Rent - Ruth Cabin	240	600
August Complex Wildfire FEMA Reimbursement	-	-
TOTAL MISCELLANEOUS REVENUE	1,297	12,059

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
 ALL - MONTHLY EXPENDITURE REPORT - PAGE 1 OF 3
 August 31, 2021

17% Of Budget Year

SALARY AND EMPLOYEE BENEFIT EXPENDITURES (S. E. B.)

	Month-to-Date	Year-to-Date	Prior Year	Budget	% of Budget
Compensation					
1. Wages - Regular	182,204.74	369,957.07	318,999.85	2,345,318	18%
1a. COVID Essential Service Pay*	(9,434.38)	(18,887.46)	-	83,700	23%
2. Wages - Sick	5,120.50	10,358.54	10,079.30		
3. Wages - Vacation	19,091.61	30,345.03	32,907.00		
<i>Subtotal</i>	196,982.47	391,773.18	361,986.15	2,429,018	16%
4. Wages - Overtime	893.70	1,613.70	6,126.63	15,000	
5. Wages - Holiday (Worked)	-	853.84	588.49	15,000	
<i>Subtotal</i>	893.70	2,467.54	6,715.12	30,000	8%
6. Wages - Part-Time	1,074.19	2,541.52	12,464.82	97,557	3%
7. Wages - Shift Differential	894.00	1,731.04	1,682.40	11,000	16%
8. Wages - Standby	7,657.19	13,886.40	13,411.22	81,000	17%
9. Director Compensation	1,920.00	4,240.00	4,080.00	26,000	16%
10. Secretarial Fees	262.50	525.00	525.00	3,200	16%
11. Payroll Tax Expenses	16,626.00	33,103.28	30,778.47	198,150	17%
11a. COVID Ess. P/R Tax*	(721.73)	(1,444.89)	-	7,100	20%
<i>Subtotal</i>	27,712.15	54,582.35	62,941.91	424,007	13%
Employee Benefits					
12. Health, Life, & LTD Ins.	59,611.59	119,664.03	111,819.82	720,570	17%
13. Air Medical Insurance	1,759.00	1,759.00	1,430.00	2,210	80%
14. Retiree Medical Insurance	11,633.22	22,766.65	25,645.80	92,323	25%
15. Employee Dental Insurance	2,907.04	5,782.60	5,572.14	40,839	14%
16. Employee Vision Insurance	612.38	1,224.86	1,215.68	7,572	16%
17. Employee EAP	78.53	157.07	168.89	1,116	14%
18. 457b District Contribution	2,650.00	5,300.00	5,150.00	30,600	17%
19. CalPERS Expenses	27,950.62	305,125.43	258,499.14	581,759	52%
20. Workers Comp Insurance	-	21,712.87	22,090.53	109,557	20%
<i>Subtotal</i>	107,202.38	483,492.51	431,592.00	1,586,546	30%
TOTAL S.E.B	332,790.70	932,315.58	863,235.18	4,469,571	21%

*As approved by the Board of Directors on March 11, 2021, COVID Essential Service Pay Increase is funded via District reserves.

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
 MONTHLY EXPENDITURE REPORT - PAGE 2 OF 3
 August 31, 2021

17% Of Budget Year

SERVICE & SUPPLY EXPENDITURES (S & S)

	Month-to-Date	Year-to-Date	Prior Year	Budget	% of Budget
Operations & Maintenance					
1. Auto Maintenance	2,758.40	6,955.79	5,935.44	39,700	18%
2. Engineering	10,371.25	10,371.25	4,709.17	75,000	14%
3. Lab Expenses	828.00	828.00	1,460.00	13,000	6%
4. Maintenance & Repairs					
General	7,263.50	7,357.76	1,987.94	47,000	16%
TRF	329.37	1,460.93	356.16	17,000	9%
<i>Subtotal</i>	<i>7,592.87</i>	<i>8,818.69</i>	<i>2,344.10</i>	<i>64,000</i>	<i>14%</i>
5. Materials & Supplies					
General	6,022.73	14,747.60	6,715.80	42,000	35%
TRF	-	1,814.51	163.40	35,000	5%
<i>Subtotal</i>	<i>6,022.73</i>	<i>16,562.11</i>	<i>6,879.20</i>	<i>77,000</i>	<i>22%</i>
6. Radio Maintenance	553.90	1,107.80	1,070.00	8,500	13%
7. Ruth Lake License	1,500.00	1,500.00	1,500.00	1,500	100%
8. Safety Equip./Training					
General	2,487.16	4,465.15	3,877.17	22,000	20%
TRF	-	289.62	299.19	2,000	14%
<i>Subtotal</i>	<i>2,487.16</i>	<i>4,754.77</i>	<i>4,176.36</i>	<i>24,000</i>	<i>20%</i>
9. Tools & Equipment	514.46	538.55	934.32	5,000	11%
10. USGS Meter Station	-	-	-	8,500	0%
<i>Operations Subtotal</i>	<i>32,628.77</i>	<i>51,436.96</i>	<i>29,008.59</i>	<i>316,200</i>	<i>16%</i>

General & Administration

11. Accounting Services	-	807.50	-	18,000	4%
12. Bad Debt Expense	-	-	-	-	0
13. Dues & Subscriptions	2,338.35	6,300.69	2,759.00	33,000	19%
14. General Manager Training	44.52	44.52	-	3,000	1%
15. IT & Software Maintenance	2,760.64	4,505.28	3,083.38	31,000	15%
16. Insurance	-	38,537.37	42,984.65	111,000	35%
17. Internet	996.50	1,834.71	1,614.45	10,000	18%
18. Legal Services	600.50	1,794.50	3,015.00	35,000	5%
19. Miscellaneous	82.37	247.12	309.00	11,500	2%
20. Office Building Maint.	875.04	2,462.27	2,676.52	16,000	15%
21. Office Expense	4,284.52	5,810.81	8,668.17	40,500	14%
22. Professional Services	1,558.00	3,076.00	184.47	20,000	15%
23. Property Tax	2,006.00	2,006.00	-	1,000	201%

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
MONTHLY EXPENDITURE REPORT - PAGE 3 OF 3
August 31, 2021

17% Of Budget Year

SERVICE & SUPPLY EXPENDITURES (con't)

	Month-to-Date	Year-to-Date	Prior Year	Budget	% of Budget
24. Regulatory Agency Fees	19,119.39	19,119.39	-	179,500	11%
25. Ruth Lake Programs	-	-	-	5,000	0%
26. Safety Apparel	-	-	-	3,000	0%
27. Technical Training	50.00	50.00	275.00	14,500	0%
28. Telephone	2,488.74	5,290.64	8,254.40	40,000	13%
29. Travel & Conference	317.25	317.25	-	25,000	1%
<i>Gen. & Admin. Subtotal</i>	<i>37,521.82</i>	<i>92,204.05</i>	<i>73,824.04</i>	<i>597,000</i>	<i>15%</i>

Power

30. Essex - PG & E	82,179.78	170,134.73	128,196.51		
31. 2Mw Generator Fuel	-	-	3,358.48		
<i>Subtotal Essex Pumping</i>	<i>82,179.78</i>	<i>170,134.73</i>	<i>131,554.99</i>		
32. All other PG & E	5,832.52	13,444.49	11,362.78		
<i>Subtotal All Power</i>	<i>88,012.30</i>	<i>183,579.22</i>	<i>142,917.77</i>	<i>787,500</i>	<i>23%</i>

Total Service and Supplies incl.

Power	158,162.89	327,220.23	245,750.40	1,700,700	19%
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PROJECTS, FIXED ASSETS & CONSULTING SERVICES

	Month-to-Date	Year-to-Date		Budget	% of Budget
	355,048.00	355,048.00		14,298,086	2%

GRAND TOTAL EXPENSES	846,001.59	1,614,583.81	1,108,985.58	20,468,357	8%
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33. Debt Service - SRF Loan	-	-	-	547,337	0%
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34. Debt Service - US Bank	81,399.90	81,399.90	81,399.90	81,100	100%
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TOTAL EXPENSES WITH DEBT SERVICE

	928,243.33	1,697,710.37	1,190,385.48	21,096,794	
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OTHER EXPENSES

35. ReMat Consultant Exp.	841.84	1,726.66	9,225.22		
36. Capital Replacement Exp.	-	-	-		

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
PROJECT PROGRESS REPORT
 August 31, 2021

17% Of Budget Year

**A. CAPITAL PROJECTS**

	MTD	YTD		% OF
ACTIVE GRANT FUNDED CAPITAL PROJECTS	EXPENSES	TOTAL	BUDGET	BUDGET
1 Grant - 12kV Switchgear Relocation <i>(\$3M - FEMA, Approved)</i>	21,748	245,663	2,533,041	10%
2 Grant - Collector 2 Rehabilitation <i>(\$1.6M - NCRP Prop1, Approved)</i>	12,718	12,718	1,487,835	1%
3 Grant - 3x Tank Seismic Retro <i>(\$3.5M - FEMA, Phase 1 Approved)</i>	60,846	60,846	3,424,817	2%
4 Grant - Community Power Resiliency <i>(\$215k CalOES, Approved)</i>	0	0	215,000	0%
5 Grant - Collector Mainline Redundancy Pipeline <i>(Treatment/Base Facility Project, \$3.1M - FEMA, In Process)</i>	10,665	10,665	0	0
6 Grant - TRF Generator <i>(Treatment Facility Project, \$1.9M - FEMA, In Process)</i>	0	0	0	0
NON-GRANT FUNDED CAPITAL PROJECTS				
7 On-Site Generation of Chlorine <i>(\$850k - FY22, Treatment Facility Project)</i>	0	0	850,000	0%
8 Prof. Services for New Capital Debt	0	0	81,100	0%
9 Power and Fiber Optic Link to Collector 2, Phase 2	0	0	44,000	0%
10 Line Shed #8	0	0	61,750	0%
11 TRF Filter Building, Mezzanine EOC <i>(Treatment Facility Project)</i>	0	0	10,750	0%
12 TRF Line Shed 5 Ramp and Concrete Work <i>(Treatment Facility Project)</i>	0	0	2,000	0%
13 Solar at Eureka Main Office	0	0	30,000	0%
14 CalFire Fuel Reduction Contract	0	0	50,000	0%
TOTAL CAPITAL PROJECTS	105,976	329,891	8,790,293	4%

B. EQUIPMENT AND FIXED ASSET PROJECTS

	MTD	YTD		% OF
	EXPENSES	TOTAL	BUDGET	BUDGET
15 FY22 Replace ESSEX Administrative Computers	0	0	6,300	0%
16 Replace 1 of 3 Essex Admin Servers	0	0	11,000	0%
17 Collector Lube Oil Detection System	0	56	8,250	1%
18 Replace Unit 9	0	0	82,000	0%
19 Hydraulic Oil Filtering Cart	0	0	3,750	0%
20 Tools and Storage For Elec/Maint Shops & Trucks	1,713	1,713	5,000	34%
21 Backflow Test Kit	0	0	1,500	0%
22 Unit 5 Truck Upgrades	0	0	2,250	0%
23 Portable Chlorination Dosing Skid	0	0	11,750	0%
24 Drum Handling Equipment <i>(Treatment Facility Project)</i>	0	0	2,000	0%

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
PROJECT PROGRESS REPORT - PAGE 2 OF 5
August 31, 2021

17% Of Budget Year

**B. EQUIPMENT AND FIXED ASSET PROJECTS (con't)**

	MTD EXPENSES	YTD TOTAL	BUDGET	% OF BUDGET
25 TRF Chemical Building PLC Module Expansion <i>(Treatment Facility Project)</i>	0	0	3,250	0%
26 Replace Alum Pumps <i>(Treatment Facility Project)</i>	0	0	17,250	0%
27 FY22 Replace EUREKA Administrative Computers	0	0	3,500	0%
28 Replace Ruth HQ UV Water Treatment System	0	0	2,500	0%
29 Purchase Portable Radios for Ruth	0	0	2,250	0%
30 Penstock Ventilation System	0	0	4,250	0%
31 Utility Work, Inspection and Response Boat	41,017	41,017	81,750	50%
TOTAL EQUIPMENT & FIXED ASSET PROJECTS	42,729	42,785	248,550	17%

C. MAINTENANCE PROJECTS

	MTD EXPENSES	YTD TOTAL	BUDGET	% OF BUDGET
32 FY22 Pipeline Maintenance	223	223	14,000	2%
33 FY22 12kV Electric System Maintenance	0	0	4,200	0%
34 FY22 Main Line Meter Flow Calibration	0	0	14,000	0%
35 FY22 Technical Support & Software Updates	10,769	14,969	29,000	52%
36 FY22 Generator Services	0	0	3,500	0%
37 FY22 Hazard & Diseased Tree Removal	0	0	8,000	0%
38 FY22 Cathodic Protection	0	0	6,500	0%
39 FY22 Maintenance Emergency Repairs	0	0	50,000	0%
40 FY22 Fleet Paint Repairs	0	0	5,000	0%
41 Partical Counter Calibration	1,230	1,230	1,250	98%
42 Replace Collector 4 Cable	0	0	8,250	0%
43 Cyber Assessment	0	0	19,250	0%
44 Power Pole/Line Inspection/Maintenance	0	0	17,500	0%
45 Collector MCC Breaker & Door Switch Replacement	0	0	73,000	0%
46 Upgrade Microsoft Office - Essex	0	0	1,250	0%
47 Security Fencing Replacement - Essex & Samoa BPS	0	0	93,000	0%
48 Lighting Upgrades for Shop/Collectors/Line Sheds	0	0	9,750	0%
49 Collector 1 Interior Painting	0	0	41,750	0%
50 FY22 TRF Generator Service <i>(Treatment Facility Project)</i>	0	0	500	0%
51 FY22 TRF Limitorque Valve Retrofit Supplies <i>(Treatment Facility Project)</i>	0	0	14,500	0%
52 Replace One WWR Pump P551 VFD <i>(Treatment Facility Project)</i>	0	0	5,750	0%
53 TRF Sludge Bed Gutter Replacement <i>(Treatment Facility Project)</i>	0	0	10,000	0%
54 TRF Process Pumps <i>(Treatment Facility Project)</i>	0	0	3,000	0%

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
PROJECT PROGRESS REPORT - PAGE 3 OF 5
August 31, 2021

17% Of Budget Year

**C. MAINTENANCE PROJECTS (con't)**

	MTD EXPENSES	YTD TOTAL	BUDGET	% OF BUDGET
55 TRF Instrumentation Replacement <i>(Treatment Facility Project)</i>	0	6,029	15,750	38%
56 TRF Valve Network Upgrade (Phase 1 of 5) <i>(Treatment Facility Project)</i>	0	0	15,750	0%
57 FY22 Brush Abatement Ruth Hydro	0	0	6,500	0%
58 FY22 Howell Bunger Valve Inspection	0	0	1,000	0%
59 FY22 LTO Insurance	0	0	5,000	0%
60 FY22 Log Boom Inspection	0	0	1,500	0%
61 FY22 Spillway Repairs	0	0	15,000	0%
62 Ruth Logboom Interconnection Plates	0	0	16,500	0%
63 Woody Debris Removal	0	0	30,000	0%
64 Lease Lots Surveys	0	0	25,000	0%
65 FEMA - Fire Disaster Recovery	36	179	0	0
66 Grant - FEMA - COVID-19 Pandemic	323	323	0	0
TOTAL MAINTENANCE PROJECTS	12,581	22,954	564,950	4%

D. PROFESSIONAL & CONSULTING SERVICES

	MTD EXPENSES	YTD TOTAL	BUDGET	% OF BUDGET
67 FY22 Crane Testing/Certification	0	0	10,000	0%
68 FY22 Chlorine System Maintenance	0	0	16,750	0%
69 FY22 Backflow Tester Training	0	0	3,000	0%
70 FY22 Hydro Plant Annual Electrical and Maintenance	0	0	4,000	0%
71 CAISO Meter Inspection Calibration	0	0	4,000	0%
72 FY22 Crane Operator Re-Certification	0	0	21,250	0%
73 ATS Pro-IT Support	0	0	23,500	0%
74 Essex Mad River Cross-Sectional Survey	0	0	12,000	0%
75 FY22 Technical Training	0	0	23,250	0%
76 FY22 O & M Training	0	0	20,000	0%
77 Public Education Funds	0	0	5,000	0%
78 Water Quality Monitoring Plan	0	373	30,000	1%
79 GIS / FIS Ruth Area, Including Internship	0	0	5,000	0%
80 Collector Arc Flash Study Update/Breaker Test	0	0	20,000	0%
81 CalFire Forest Health Grant	0	0	20,000	0%
82 FY22 Mad River Regulatory Compliance Assistance	0	0	50,000	0%
83 Annual Section 115 Pension Trust Contribution	0	50,000	50,000	100%
84 Grant Applications Assistance	0	0	20,000	0%
85 Inundation Mapping	0	0	50,000	0%
86 Collector 4 Restoration	0	0	5,000	0%

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
PROJECT PROGRESS REPORT - PAGE 4 OF 5
August 31, 2021

17% Of Budget Year

**D. PROFESSIONAL & CONSULTING SERVICES (CONT)**

	MTD EXPENSES	YTD TOTAL	BUDGET	% OF BUDGET
87 FERC Part 12 - Independent Consultant & Engineer	13,461	26,466	110,000	24%
88 FERC Dam Safety Surveillance and Monitoring Report	223	223	5,000	4%
89 FERC Chief Dam Safety Engineer	0	0	12,000	0%
90 Dam Spillway Wall Monument Survey	0	0	16,000	0%
91 Spillway Repair, Dam Inspection & Reporting Assist	180	759	5,000	15%
92 Assessments of Spillway Drains/Floor/Flip Bucket	0	0	120,000	0%
TOTAL PROF/CONSULTING SERVICES	13,864	77,820	660,750	12%

E. INDUSTRIAL SYSTEM PROJECTS

93 Maintain Water Supply to Industrial Pump Station 6	0	0	13,250	0%
TOTAL INDUSTRIAL SYSTEM PROJECTS	0	0	13,250	0%

F. CARRY-OVER PROJECTS FROM PRIOR YEAR

94 Collector 5 Security & Anti-Vandalism Measures	0	0	7,500	0%
TOTAL CARRYOVER PROJECTS	0	0	7,500	0%

G. PROJECTS NOT CURRENTLY CHARGED TO MUNICIPAL CUSTOMERS

	MTD EXPENSES	YTD TOTAL	BUDGET	% OF BUDGET
95 Streambed Flow Enhancement Grant <i>(DWR Grant)</i>	2,709	3,428	449,902	1%
96 Refurbish PS-6 (Phase 1) <i>(EDA Grant & Reserves)</i>	0	0	3,500,000	0%
97 I/W System Evaluation Memo <i>(Reserves)</i>	0	0	26,000	0%
98 PS6 Gravel Bar Work <i>(Reserves)</i>	0	0	76,100	0%
99 Industrial System Assistance <i>(Reserves)</i>	0	0	10,000	0%
100 I/W Reservoir Overflow Dissipator Maint/Hardening <i>(Reserves)</i>	0	0	9,500	0%
101 Clean-Out Industrial Water Tank <i>(Reserves)</i>	0	0	25,000	0%
102 Domestic Water for Nordic <i>(Reserves/Nordic)</i>	263	263	5,000	5%
103 Industrial and Domestic System Intertie <i>(Reserves)</i>	0	0	32,000	0%
TOTAL NOT CHARGED TO CUSTOMERS	2,972	3,690	4,133,502	0%



H. ADVANCED CHARGES & DEBIT SERVICE FUNDS COLLECTED - FY22				
	MTD	YTD	BUDGET	% BUDGET
104 Grant - Collector Mainline Redundancy Pipeline <i>(Treatment/Base Facility Project, \$3.1M - FEMA, In Process)</i>	3,333	6,667	40,000	17%
105 Cathodic Protection Project <i>(\$405k, FY22)</i>	2,083	4,167	25,000	17%
106 On-Site Generation of Chlorine <i>(\$850k - FY22, Treatment Facility Project)</i>	4,484	8,968	53,807	17%
107 Grant - TRF Generator <i>(Treatment Facility Project, \$1.9M - FEMA, In Process)</i>	6,250	12,500	75,000	17%
108 Grant - Adv. Assistance Spillway Seismic <i>(\$1.9M - FEMA, In Process)</i>	2,083	4,167	25,000	17%
109 Ranney Collector 3/Techite Debit Service Funds	7,373	14,745	81,100	18%
TOTAL ADVANCED CHARGES COLLECTED - FY21	25,607	51,213	299,907	17%

PROJECT PROGRESS REPORT SUMMARY OF ALL ACTIVITY

CUSTOMER CHARGES	MTD	YTD	BUDGET	% BUDGET
TOTAL NON-GRANT FUNDED CAPITAL PROJECTS*	10,665	10,665	279,600	4%
TOTAL EQUIPMENT & FIXED ASSET PROJECTS	42,729	42,785	248,550	17%
TOTAL MAINTENANCE PROJECTS	12,581	22,954	564,950	4%
TOTAL PROF/CONSULTING SERVICES	13,864	77,820	660,750	12%
TOTAL INDUSTRIAL SYSTEM PROJECTS	0	0	13,250	0%
TOTAL CARRYOVER PROJECTS	0	0	7,500	0%
TOTAL ADVANCED CHARGES/DEBIT SERVICE - FY21	25,607	51,213	299,907	17%
TOTAL CUSTOMER CHARGES	\$105,445	\$205,437	\$2,074,507	10%

*EXCLUDES ON-SITE GENERATION OF CHLORINE

NON-CUSTOMER CHARGES (CURRENT FY)	MTD	YTD	BUDGET	% BUDGET
TOTAL GRANT FUNDED CAPITAL PROJECTS	95,311	319,226	7,660,693	4%
TOTAL NON-CUSTOMER CHARGES	2,972	3,690	4,133,502	0%
TOTAL USE OF ENCUMBERED FUNDS	6,911	62,940	429,384	15%
TOTAL NON-CUSTOMER CHARGES	\$105,194	\$385,856	\$12,223,579	3%
GRAND TOTAL PROJECT BUDGET ACTIVITY	\$210,638	\$591,293	\$14,298,086	4%

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
ENCUMBERED FUNDS RECONCILIATION REPORT
August 31, 2021



	MTD EXPENSES	YTD TOTAL	AMOUNT ENCUMBERED	REMAINING
A. CAPITAL PROJECTS				
1 Tesla Battery Project - ESSEX	0	0	5,000	5,000
2 Tesla Battery Project - TRF	3,663	4,598	12,500	7,902
3 Replacement Server Rack - Eureka Office	0	0	5,500	5,500
4 Fiber Optic Link - Collector 2 (Phase 1)	0	0	28,500	28,500
5 Techite Intertie Location Abandonment	0	0	5,000	5,000
6 Headquarters Remodel	0	0	120,000	120,000
B. EQUIPMENT & FIXED ASSET PROJECTS				
7 Transformer at Hydro Plant	0	0	100,000	100,000
8 Headquarters & Bunkhouse Generator	931	931	1,500	569
9 Curbing on Mad River Road	0	0	5,600	5,600
10 18,000 Lb. Excavator	0	0	1,500	1,500
11 Tractor	0	0	600	600
12 Front Office Doors	0	0	6,000	6,000
C. MAINTENANCE PROJECTS				
13 FY21 Cathodic Protection	0	0	6,500	6,500
14 Surge Tank Refurbishments	860	860	1,000	140
15 FY21 TRF Limatorque Valve Retrofit Supplies	0	13,434	13,300	(134)
16 FY21 Chemical Pump Spare Parts Inventory	0	805	5,250	4,445
17 Hydro Plant Annual Elect. & Maintenance Inspection	0	0	2,050	2,050
18 FY21 Chlorine System Maintenance	0	2,217	2,800	583
D. PROFESSIONAL & CONSULTING SERVICES				
19 404 Permit Assistance	0	0	30,000	30,000
20 FY21 Hazard/Diseased Tree Removal	0	0	700	700
21 FY21 Essex Mad River Cross-Sectional Survey	0	0	1,075	1,075
22 FERC Part 12 - Plunge Pool Underwater Inspection	0	8,300	8,300	0
23 FERC Part 12 - Ind. Consultant Insp. (FY22)	0	12,700	12,700	0
24 FERC - Dam Safety Engineer	1,258	3,258	2,000	(1,258)
25 Col. 2 Underground 12Kv Power/Fiber Optic	0	3,509	8,680	5,171
26 Spillway Inundation Map	0	0	20,000	20,000
E. FY20 SERVICE & SUPPLY BUDGET				
27 AUTO EXPENSE/MAINTENANCE	0	7628	7,628	0
28 MAINTENANCE & REPAIRS	199	199	6,684	6,485
29 MATERIALS & SUPPLIES	0	4500	5,000	500
30 TOOLS & EQUIPMENT	0	0	1,036	1,036
31 PROFESSIONAL SERVICES	0	0	2,981	2,981

ENCUMBERED FUNDS TOTAL	6,911	62,940	429,384	366,445
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Humboldt Bay Municipal Water District

--Monthly Expenses by Vendor Detail Report--
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Vendor Name	Date Paid	Description	Amount Paid
101 NETLINK			
101 NETLINK	08/02/2021	Ruth Hydro Data Link/Internet	180.00
Total 101 NETLINK:			180.00
ACWA/JPIA			
ACWA/JPIA	08/20/2021	RETIREE MEDICAL	11,549.46
ACWA/JPIA	08/20/2021	COBRA Dental	65.20
ACWA/JPIA	08/20/2021	COBRA Vision	18.56
Total ACWA/JPIA:			11,633.22
Advanced Security Systems			
Advanced Security Systems	08/02/2021	Ruth Hydro Quarterly Alarm System Monitoring	79.50
Advanced Security Systems	08/31/2021	repair Eureka Office Alarm Line	190.00
Advanced Security Systems	08/31/2021	repair Eureka Office Alarm Line	95.00
Total Advanced Security Systems:			364.50
AirGas NCN			
AirGas NCN	08/11/2021	maintenance safety supplies	101.40
AirGas NCN	08/11/2021	spillway Repair, Dam Inspection & Reporting Assistance	71.83
AirGas NCN	08/31/2021	safety equipment maintenance	360.29
AirGas NCN	08/31/2021	spillway Repair, Dam Inspection & Reporting Assistance	77.18
AirGas NCN	08/31/2021	maintenance safety supplies	46.70
Total AirGas NCN:			657.40
Arcata Fire Prot. District			
Arcata Fire Prot. District	08/31/2021	Fire Assessment 2021/22	2,006.00
Total Arcata Fire Prot. District:			2,006.00
AT & T			
AT & T	08/17/2021	Eureka/Essex Land Line	35.37
AT & T	08/17/2021	Arcata/Essex Land Line	35.37
AT & T	08/17/2021	Samoa/Essex LandLine	237.17
AT & T	08/17/2021	Eureka Office/Modem	56.92
AT & T	08/17/2021	Eureka Office Alarm Line	52.49
AT & T	08/17/2021	Samoa Booster Pump Station	55.05
AT & T	08/17/2021	Valve Building - Samoa	56.92
AT & T	08/17/2021	Eureka Office	215.71
AT & T	08/17/2021	TRF	51.56
AT & T	08/17/2021	Ruth Hydro Data Line	52.49
AT & T	08/17/2021	Essex office/Modem/Essex Alarm System	52.49
AT & T	08/24/2021	SIMS Service	314.48
Total AT & T:			1,216.02
AT&T Advertising Solutions			
AT&T Advertising Solutions	08/31/2021	white page listing	21.00
Total AT&T Advertising Solutions:			21.00
AT&T Long Distance			
AT&T Long Distance	08/06/2021	Eureka Office Long Distance	68.26
AT&T Long Distance	08/10/2021	Essex Control Long Distance	120.54

Humboldt Bay Municipal Water District

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Vendor Name	Date Paid	Description	Amount Paid
AT&T Long Distance	08/10/2021	<i>Essex Office Long Distance</i>	22.12
AT&T Long Distance	08/10/2021	<i>Eureka Office Long Distance</i>	7.38
AT&T Long Distance	08/10/2021	<i>TRF Long Distance</i>	113.89
AT&T Long Distance	08/10/2021	<i>Ruth Hydro/Dataline Long Distance</i>	43.53
Total AT&T Long Distance:			375.72
ATS Communications			
ATS Communications	08/31/2021	<i>Essex Control and Admin Networks backup service</i>	10,380.00
Total ATS Communications:			10,380.00
Bruce Brashear			
Bruce Brashear	08/13/2021	<i>expense reimbursement - safety shoes</i>	205.05
Total Bruce Brashear:			205.05
Chemtrac Systems, Inc			
Chemtrac Systems, Inc	08/31/2021	<i>Particle Counter calibration/repair</i>	1,230.00
Total Chemtrac Systems, Inc:			1,230.00
City of Eureka			
City of Eureka	08/04/2021	<i>Eureka office water/sewer</i>	85.30
Total City of Eureka:			85.30
Coastal Business Systems Inc.			
Coastal Business Systems Inc.	08/06/2021	<i>Eureka office copy and fax machine</i>	685.80
Coastal Business Systems Inc.	08/06/2021	<i>Essex copy/fax machine</i>	244.83
Total Coastal Business Systems Inc.:			930.63
Dale H. Davidsen			
Dale H. Davidsen	08/30/2021	<i>expense reimbursement - COVID safety supplies</i>	323.12
Total Dale H. Davidsen:			323.12
Dave Perkins			
Dave Perkins	08/10/2021	<i>auto mileage reimbursement</i>	128.24
Total Dave Perkins:			128.24
Downey Brand Attorneys LLP			
Downey Brand Attorneys LLP	08/31/2021	<i>Legal Fees July 2021</i>	445.50
Total Downey Brand Attorneys LLP:			445.50
Elastec Inc			
Elastec Inc	08/31/2021	<i>Down Payment Utility Work, Inspection, Response Boat</i>	41,016.50
Total Elastec Inc:			41,016.50
Englund Marine Supply			
Englund Marine Supply	08/31/2021	<i>Emergency Notification - Chlorine Repair Response Kit</i>	10.24

Humboldt Bay Municipal Water District

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Vendor Name	Date Paid	Description	Amount Paid
Total Englund Marine Supply:			10.24
Eureka Oxygen			
Eureka Oxygen	08/31/2021	welding supplies	325.23
Eureka Oxygen	08/11/2021	cylinder rental	119.08
Total Eureka Oxygen:			444.31
Eureka Readymix			
Eureka Readymix	08/31/2021	pipeline maintenance	223.24
Total Eureka Readymix:			223.24
FEDEX			
FEDEX	08/12/2021	Ship particle counter for repair	130.44
FEDEX	08/12/2021	Ship Safety equipment for repair	13.03
FEDEX	08/31/2021	Ship FERC EAP	9.95
FEDEX	08/31/2021	Ship Safety equipment for repair	13.03
Total FEDEX:			166.45
Frontier Communications			
Frontier Communications	08/27/2021	Ruth HQ Phone	56.03
Frontier Communications	08/27/2021	Ruth Hydro/Ruth Dataline	182.43
Total Frontier Communications:			238.46
GEI Consultants, Inc			
GEI Consultants, Inc	08/30/2021	FERC Dam Safety Engineer	1,258.00
GEI Consultants, Inc	08/30/2021	Ruth Hydro FERC Part 12 Inspection	9,472.00
GEI Consultants, Inc	08/30/2021	Ruth Hydro FERC Part 12 Inspection	2,884.90
GEI Consultants, Inc	08/30/2021	Ruth Hydro FERC Part 12 Inspection	1,103.78
Total GEI Consultants, Inc:			14,718.68
GHD			
GHD	08/30/2021	Reservoirs 3X Seismic Retrofit Grant	58,802.43
GHD	08/30/2021	12kV Switchgear Replacement Project	13,817.00
GHD	08/30/2021	Collector 2 Rehabilitation Project	9,869.27
GHD	08/30/2021	General Engineering - Ruth	5,786.25
GHD	08/30/2021	General Engineering - Essex	350.00
GHD	08/30/2021	General Engineering - Eureka	743.75
GHD	08/30/2021	General Engineering - Ruth Hydro	2,537.50
GHD	08/30/2021	General Engineering -TRF Tesla Battery Project	241.25
GHD	08/30/2021	Collector Mainline Redundancy Project	10,008.25
GHD	08/30/2021	12KV Switchgear Replacement Project	7,930.75
GHD	08/30/2021	Collector 2 Rehabilitation Project	2,848.25
GHD	08/30/2021	Reservoirs 3X Seismic Retrofit Grant	2,043.33
GHD	08/30/2021	General Engineering - Ruth	341.25
GHD	08/30/2021	General Engineering - Eureka	612.50
GHD	08/30/2021	General Engineering - Collector Mainline Redundancy Project	656.25
GHD	08/30/2021	General Engineering - Eureka	262.50
Total GHD:			116,850.53

Humboldt Bay Municipal Water District

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Vendor Name	Date Paid	Description	Amount Paid
H.T. Harvey & Associates			
H.T. Harvey & Associates	08/27/2021	Assistance with Streambed Flow Enhancement - Grant	1,602.25
Total H.T. Harvey & Associates:			1,602.25
Harbor Freight Tools			
Harbor Freight Tools	08/31/2021	Park maintenance	16.22
Total Harbor Freight Tools:			16.22
Health Equity Inc			
Health Equity Inc	08/20/2021	District HSA Contributions- 1 employee	749.96
Health Equity Inc	08/05/2021	HSA Admin Fee - 2 employees	5.90
Health Equity Inc	08/05/2021	HSA Admin Fee 8 employees	23.60
Total Health Equity Inc:			779.46
Hensel Hardware			
Hensel Hardware	08/10/2021	maintenance shop tools	35.91
Hensel Hardware	08/10/2021	maintenance supplies	62.73
Hensel Hardware	08/31/2021	Chlorine emergency response kit	7.15
Hensel Hardware	08/31/2021	maintenance supplies	17.35
Hensel Hardware	08/31/2021	meters and corp stops maintenance	26.00
Total Hensel Hardware:			149.14
Henwood Associates, Inc			
Henwood Associates, Inc	08/06/2021	Consultant Services Agreement- June 2021	420.92
Total Henwood Associates, Inc:			420.92
Humboldt County Treasurer			
Humboldt County Treasurer	08/31/2021	Fund No 3876 Account 800870	45,611.43
Total Humboldt County Treasurer:			45,611.43
Humboldt Fasteners			
Humboldt Fasteners	08/31/2021	TRF Sludge Bed Lighting Project	8.72
Humboldt Fasteners	08/31/2021	Tools replacement	27.75
Total Humboldt Fasteners:			36.47
Humboldt Redwood Company, LLC			
Humboldt Redwood Company, LLC	08/10/2021	Mt Pierce Lease site	296.40
Total Humboldt Redwood Company, LLC:			296.40
Humboldt Waste Management Authority			
Humboldt Waste Management Authority	08/31/2021	299 Right of Way Homeless Camp Cleanup	249.31
Humboldt Waste Management Authority	08/31/2021	299 Right of Way Homeless Camp Cleanup	93.49
Total Humboldt Waste Management Authority:			342.80
J&M Towing			
J&M Towing	08/27/2021	Tow abandoned car off Right of Way	250.00

Humboldt Bay Municipal Water District

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Vendor Name	Date Paid	Description	Amount Paid
Total J&M Towing:			250.00
JTN Energy, LLC			
JTN Energy, LLC	08/06/2021	Consultant Services Agreement - June 2021	420.92
Total JTN Energy, LLC:			420.92
Keenan Supply			
Keenan Supply	08/31/2021	Samoa Pacific By-Pass Improvement - Capital Replacement	9,878.93
Keenan Supply	08/31/2021	Samoa Pacific 6" Meter Upgrade	4,368.80
Total Keenan Supply:			14,247.73
Lubrication Engineers			
Lubrication Engineers	08/31/2021	maintenance supplies	265.22
Total Lubrication Engineers:			265.22
Mallory Safety & Supply LLC			
Mallory Safety & Supply LLC	08/31/2021	Repair/Inspect fall arrest device	652.00
Total Mallory Safety & Supply LLC:			652.00
Matthew Davis			
Matthew Davis	08/17/2021	Travel Advance for TI Certification Exam	317.25
Total Matthew Davis:			317.25
Miller Farms Nursery			
Miller Farms Nursery	08/10/2021	Replace weedeater	379.25
Total Miller Farms Nursery:			379.25
Mission Linen			
Mission Linen	08/04/2021	Uniform Rental	109.20
Mission Linen	08/04/2021	maintenance supplies	31.67
Mission Linen	08/04/2021	Uniform Rental	123.85
Mission Linen	08/04/2021	Uniform Rental	98.16
Mission Linen	08/04/2021	maintenance supplies	84.81
Mission Linen	08/04/2021	Uniform Rental	134.89
Total Mission Linen:			582.58
Mitchell, Brisso, Delaney & Vrieze			
Mitchell, Brisso, Delaney & Vrieze	08/05/2021	Legal Services- July 2021	15.50
Mitchell, Brisso, Delaney & Vrieze	08/05/2021	Legal Services- Ruth Area Vivid Green July 2021	139.50
Total Mitchell, Brisso, Delaney & Vrieze:			155.00
Napa Auto Parts			
Napa Auto Parts	08/31/2021	equipment maintenance	55.80
Napa Auto Parts	08/31/2021	Fieldbrook-Glendale CSD maintenance supplies	37.95
Total Napa Auto Parts:			93.75

Humboldt Bay Municipal Water District

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Vendor Name	Date Paid	Description	Amount Paid
North Coast Laboratories			
North Coast Laboratories	08/05/2021	lab tests - Humboldt Bay Retail	95.00
North Coast Laboratories	08/05/2021	lab tests - Fieldbrook-Glendale CSD	95.00
North Coast Laboratories	08/05/2021	lab tests - Fieldbrook-Glendale CSD	68.00
North Coast Laboratories	08/05/2021	lab tests - Humboldt Bay Retail Lead & Copper	285.00
North Coast Laboratories	08/05/2021	lab tests - Fieldbrook-Glendale CSD	95.00
North Coast Laboratories	08/05/2021	lab tests - Humboldt Bay Retail	95.00
North Coast Laboratories	08/05/2021	lab tests - Humboldt Bay Retail	95.00
North Coast Laboratories	08/05/2021	lab tests - Fieldbrook-Glendale CSD	95.00
North Coast Laboratories	08/05/2021	Credit Duplicate Invoice	95.00-
Total North Coast Laboratories:			828.00
North Coast Unified Air Quality Mangemen			
North Coast Unified Air Quality Mangemen	08/27/2021	2 MW Generator Annual Permit	1,300.41
North Coast Unified Air Quality Mangemen	08/27/2021	Essex Portable Emergency Pump	496.40
North Coast Unified Air Quality Mangemen	08/27/2021	Essex Emergency Standby Generator	496.44
North Coast Unified Air Quality Mangemen	08/27/2021	Ruth Hydro Emergency Generator	496.59
North Coast Unified Air Quality Mangemen	08/27/2021	TRF Emergency Generator Annual Permit	715.45
Total North Coast Unified Air Quality Mangemen:			3,505.29
Northern California Safety Consortium			
Northern California Safety Consortium	08/05/2021	membership fee	75.00
Northern California Safety Consortium	08/27/2021	Trainer the Trainer - Safety Training	80.00
Total Northern California Safety Consortium:			155.00
Occupational Health Service of Mad River			
Occupational Health Service of Mad River	08/27/2021	DMV physical	236.25
Total Occupational Health Service of Mad River:			236.25
Pacific Gas & Electric Co.			
Pacific Gas & Electric Co.	08/24/2021	Ruth Hydro	34.38
Pacific Gas & Electric Co.	08/02/2021	Ruth Bunkhouse	56.52
Pacific Gas & Electric Co.	08/02/2021	Ruth HQ	133.38
Pacific Gas & Electric Co.	08/24/2021	Eureka Office	353.42
Pacific Gas & Electric Co.	08/24/2021	Jackson Ranch Rectifier	16.99
Pacific Gas & Electric Co.	08/24/2021	299 Rectifier	151.96
Pacific Gas & Electric Co.	08/24/2021	West End Road Rectifier	144.62
Pacific Gas & Electric Co.	08/24/2021	TRF	3,171.05
Pacific Gas & Electric Co.	08/24/2021	Ruth Hydro Valve Control	27.34
Pacific Gas & Electric Co.	08/24/2021	Ruth Hydro	706.41
Pacific Gas & Electric Co.	08/24/2021	Samoa Booster Pump Station	833.74
Pacific Gas & Electric Co.	08/24/2021	Samoa Dial Station	41.46
Pacific Gas & Electric Co.	08/24/2021	Essex Pumping July 1 - 31, 2021	82,179.78
Pacific Gas & Electric Co.	08/31/2021	Ruth Bunkhouse	54.08
Pacific Gas & Electric Co.	08/31/2021	Ruth HQ	107.17
Total Pacific Gas & Electric Co.:			88,012.30
Pape Material Handling			
Pape Material Handling	08/31/2021	equipment maintenance	119.03
Total Pape Material Handling:			119.03

Humboldt Bay Municipal Water District

--Monthly Expenses by Vendor Detail Report--
Report dates: 8/1/2021-8/31/2021Page: 7
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Vendor Name	Date Paid	Description	Amount Paid
PERS			
PERS	08/26/2021	<i>GASB-68 Reports and Schedules</i>	700.00
Total PERS:			700.00
Pitney Bowes			
Pitney Bowes	08/17/2021	<i>refill postage</i>	500.00
Total Pitney Bowes:			500.00
PitStop Cleaning`			
PitStop Cleaning`	08/05/2021	<i>Eureka office cleaning</i>	160.00
Total PitStop Cleaning`:			160.00
Platt Electric Supply			
Platt Electric Supply	08/31/2021	<i>TRF Sludge Bed Lighting Project</i>	58.35
Platt Electric Supply	08/31/2021	<i>Electrician Tools</i>	95.90
Platt Electric Supply	08/31/2021	<i>Tools and Storage for Electrical & Maintenance Shop and Servic</i>	1,166.19
Platt Electric Supply	08/31/2021	<i>Tools and Storage for Electrical & Maintenance Shop and Servic</i>	32.52
Platt Electric Supply	08/31/2021	<i>Tools and Storage for Electrical & Maintenance Shop and Servic</i>	327.99
Platt Electric Supply	08/31/2021	<i>Tools and Storage for Electrical & Maintenance Shop and Servic</i>	34.68
Platt Electric Supply	08/31/2021	<i>TRF Sludge Bed Lighting project</i>	131.86
Platt Electric Supply	08/31/2021	<i>Tools and Storage for Electrical & Maintenance Shop and Servic</i>	269.47
Platt Electric Supply	08/31/2021	<i>Tools and Storage for Electrical & Maintenance Shop and Servic</i>	253.61-
Platt Electric Supply	08/31/2021	<i>Tools and Storage for Electrical & Maintenance Shop and Servic</i>	135.53
Total Platt Electric Supply:			1,998.88
PPG Architectural Coatings			
PPG Architectural Coatings	08/31/2021	<i>maintenance supplies</i>	198.44
PPG Architectural Coatings	08/31/2021	<i>Surge Tank Refurbishments</i>	860.38
Total PPG Architectural Coatings:			1,058.82
Rebecca J. Moyle			
Rebecca J. Moyle	08/11/2021	<i>Eureka Office Petty Cash- Mail Distribution Exam Application</i>	7.65
Rebecca J. Moyle	08/11/2021	<i>Eureka Office Petty Cash - HBMWD/RLCSD Joint Board Meetin</i>	22.67
Rebecca J. Moyle	08/11/2021	<i>Eureka Office Petty Cash - HBMWD/RLCSD Joint Board Meetin</i>	59.70
Rebecca J. Moyle	08/11/2021	<i>Eureka Office Petty Cash - Humboldt Bay Retail Postage</i>	.55
Rebecca J. Moyle	08/11/2021	<i>Eureka Office Petty Cash - Fieldbrook-Glendale CSD Postage</i>	.14
Rebecca J. Moyle	08/11/2021	<i>Eureka Office Petty Cash - Eureka Office Tree Removal-Sewer L</i>	11.75
Rebecca J. Moyle	08/11/2021	<i>Eureka Office Petty Cash - Tree Removal-Sewer Lateral Replace</i>	31.50
Total Rebecca J. Moyle:			133.96
Recology Arcata			
Recology Arcata	08/16/2021	<i>Essex Garbage/Recycling Service</i>	647.25
Total Recology Arcata:			647.25
Recology Humboldt County			
Recology Humboldt County	08/10/2021	<i>Eureka office garbage/recycling service</i>	93.21
Total Recology Humboldt County:			93.21

Humboldt Bay Municipal Water District

--Monthly Expenses by Vendor Detail Report--
Report dates: 8/1/2021-8/31/2021Page: 1
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Vendor Name	Date Paid	Description	Amount Paid
Rogers Machinery Company, Inc			
Rogers Machinery Company, Inc	08/31/2021	equipment maintenance	62.13
Total Rogers Machinery Company, Inc:			62.13
Ruth Lake C.S.D.			
Ruth Lake C.S.D.	08/12/2021	Ruth Lake License Fee	1,500.00
Total Ruth Lake C.S.D.:			1,500.00
Sequoia Gas			
Sequoia Gas	08/12/2021	Ruth HQ and Bunkhouse Generator	890.35
Sequoia Gas	08/12/2021	Propane for Ruth HQ and Bunkhouse Generator	163.84
Sequoia Gas	08/31/2021	Ruth HQ & Bunkhouse Generator propane	471.90
Total Sequoia Gas:			1,526.09
SHN Consulting Engineers & Geologists			
SHN Consulting Engineers & Geologists	08/31/2021	TRF Battery and Generator Projects	3,421.40
Total SHN Consulting Engineers & Geologists:			3,421.40
Sitestar Nationwide Internet			
Sitestar Nationwide Internet	08/04/2021	Essex Internet - July 2021	52.90
Sitestar Nationwide Internet	08/04/2021	Essex Internet - August 2021	52.90
Total Sitestar Nationwide Internet:			105.80
Staples			
Staples	08/31/2021	Essex office supplies	47.94
Staples	08/31/2021	Essex office supplies	44.16
Total Staples:			92.10
Stillwater Sciences			
Stillwater Sciences	08/31/2021	professional assistance -Streambed Flow Enhancement Grant	1,107.00
Stillwater Sciences	08/31/2021	professional assistance - Fish habitat/biologist consultation US	1,558.00
Total Stillwater Sciences:			2,665.00
Streamline			
Streamline	08/02/2021	Website maintenance membership fee	450.00
Total Streamline:			450.00
Sudden Link			
Sudden Link	08/04/2021	Fieldbrook-Glendale CSD Internet	334.11
Sudden Link	08/04/2021	Essex Phones	106.64
Sudden Link	08/04/2021	Essex internet	197.73
Sudden Link	08/04/2021	TRF Internet	25.27
Sudden Link	08/04/2021	TRF Internet - Blue Lake SCADA Monitoring	50.55
Sudden Link	08/04/2021	TRF Internet - Fieldbrook-Glendale CSD	50.55
Sudden Link	08/11/2021	Eureka Internet	208.45
Total Sudden Link:			973.30

Humboldt Bay Municipal Water District

--Monthly Expenses by Vendor Detail Report--
Report dates: 8/1/2021-8/31/2021Page: 9
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Vendor Name	Date Paid	Description	Amount Paid
SWAPE, LLC			
SWAPE, LLC	08/04/2021	McNamara & Peepe Site Hydrology, Hydrogeology	1,856.25
SWAPE, LLC	08/04/2021	McNamara & Peepe site Hydrology, Hydrogeology	712.50
Total SWAPE, LLC:			2,568.75
T.P. Tire Service, Inc			
T.P. Tire Service, Inc	08/10/2021	Unit 3 flat repair	25.00
T.P. Tire Service, Inc	08/31/2021	equipment maintenance	127.76
Total T.P. Tire Service, Inc:			152.76
Thatcher Company, Inc			
Thatcher Company, Inc	08/12/2021	replenish chlorine	5,473.91
Thatcher Company, Inc	08/12/2021	replenish chlorine - container credit	2,000.00-
Total Thatcher Company, Inc:			3,473.91
The Mill Yard			
The Mill Yard	08/10/2021	Glendale Road right of way signs	6.12
The Mill Yard	08/31/2021	Ruth Spillway Repair/Dam Inspection	31.32
The Mill Yard	08/31/2021	Ruth area maintenance supplies	13.00
The Mill Yard	08/31/2021	Maintenance supplies	8.13
The Mill Yard	08/31/2021	Eureka office attic ladder replacement	10.15
The Mill Yard	08/31/2021	Collector 2 surge tank maintenance	27.15
Total The Mill Yard:			95.87
Thrifty Supply			
Thrifty Supply	08/31/2021	Fieldbrook-Glendale Meter maintenance	384.42
Thrifty Supply	08/31/2021	Fieldbrook-Glendale Meter maintenance	1,354.22
Thrifty Supply	08/31/2021	Fieldbrook-Glendale Meter Installation - Buckman Trail	3,095.92
Thrifty Supply	08/31/2021	Fieldbrook-Glendale Meter Installation and maintenance	327.11
Thrifty Supply	08/31/2021	Fieldbrook-Glendale CSD - Cider Mill Manifold Replacement	39.09
Thrifty Supply	08/31/2021	Fieldbrook-Glendale Meter Installation - Buckman Trail	423.51
Total Thrifty Supply:			5,624.27
Times Printing			
Times Printing	08/31/2021	Blue Book Dividers	617.26
Total Times Printing:			617.26
Trinity County General Services			
Trinity County General Services	08/31/2021	Pickett Peak site lease	257.50
Total Trinity County General Services:			257.50
Trinity County Solid Waste			
Trinity County Solid Waste	08/17/2021	Ruth HQ dump fees	12.27
Trinity County Solid Waste	08/17/2021	Ruth Hydro dump fees	12.27
Total Trinity County Solid Waste:			24.54
U.S. Bank Corporate Payment System			
U.S. Bank Corporate Payment System	08/11/2021	FERC Part 12 PFMA Meeting	222.50
U.S. Bank Corporate Payment System	08/11/2021	ACWA Drought Messaging Webinar	50.00

Humboldt Bay Municipal Water District

--Monthly Expenses by Vendor Detail Report--
Report dates: 8/1/2021-8/31/2021Page: 10
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Vendor Name	Date Paid	Description	Amount Paid
U.S. Bank Corporate Payment System	08/11/2021	General Manager Training	44.52
U.S. Bank Corporate Payment System	08/11/2021	Equipment for Board Meetings - OWL	1,016.00
U.S. Bank Corporate Payment System	08/11/2021	Ruth HQ Shop Lighting Upgrade and Equipment	304.33
U.S. Bank Corporate Payment System	08/11/2021	Adjustable trailer hitch for Unit 2	379.70
U.S. Bank Corporate Payment System	08/11/2021	John Deere bucket conversion	135.73
U.S. Bank Corporate Payment System	08/11/2021	Remote control gate openers	29.72
U.S. Bank Corporate Payment System	08/11/2021	Essex Office Supplies	231.20
U.S. Bank Corporate Payment System	08/11/2021	Purchase Order Software Subscription	79.70
U.S. Bank Corporate Payment System	08/11/2021	AWWA Water Audit Validator Renewal Workshop	200.00
U.S. Bank Corporate Payment System	08/11/2021	AirMed Insurance 25 Employees	1,759.00
U.S. Bank Corporate Payment System	08/11/2021	Membership for Program & Regulatory Analyst - Assoc of State	55.00
U.S. Bank Corporate Payment System	08/11/2021	Essex office monitor mount	34.47
U.S. Bank Corporate Payment System	08/11/2021	Essex Annual Router Maint/support	388.70
U.S. Bank Corporate Payment System	08/11/2021	Chlorine emergency response equipment	40.67
U.S. Bank Corporate Payment System	08/11/2021	Ruth Spillway Bridge Closure signs	48.49
U.S. Bank Corporate Payment System	08/11/2021	Essex right of way No Trespassing signs	56.28
U.S. Bank Corporate Payment System	08/11/2021	Game cams to monitor right of way trespassing	248.93
U.S. Bank Corporate Payment System	08/11/2021	Return tools	24.35-
U.S. Bank Corporate Payment System	08/24/2021	Ranney/Techite Project Loan Interest	1,119.12
U.S. Bank Corporate Payment System	08/24/2021	Ranney/Techite Project Loan Payment	80,280.78
Total U.S. Bank Corporate Payment System:			86,700.49
U.S. Bank Corporate Trust Services			
U.S. Bank Corporate Trust Services	08/04/2021	SRF Quarterly Account Maint Fee (Apr - June 2021)	225.00
Total U.S. Bank Corporate Trust Services:			225.00
Underground Service Alert of Northern CA			
Underground Service Alert of Northern CA	08/31/2021	Humboldt Bay Retail CA USA Regulatory Fee	593.67
Underground Service Alert of Northern CA	08/31/2021	Fieldbrook-Glendale CSD CA USA Regulatory Fee	1,689.68
Total Underground Service Alert of Northern CA:			2,283.35
USDA-Forest Service			
USDA-Forest Service	08/24/2021	US Forest Service Special Use Permit	7,707.05
USDA-Forest Service	08/24/2021	US Forest Service Special Use Permit	7,707.05
Total USDA-Forest Service:			15,414.10
VALEO Networks			
VALEO Networks	08/31/2021	Eureka office Essential Care Computer Service	1,086.19
Total VALEO Networks:			1,086.19
Valley Pacific Petroleum Servi, Inc			
Valley Pacific Petroleum Servi, Inc	08/05/2021	Cardlock Fuel - Pumping and Control	480.74
Valley Pacific Petroleum Servi, Inc	08/05/2021	Cardlock Fuel - Water Quality	480.74
Valley Pacific Petroleum Servi, Inc	08/05/2021	Cardlock Fuel - Maintenance	480.74
Valley Pacific Petroleum Servi, Inc	08/05/2021	Cardlock Fuel - Humboldt Bay Retail	124.99
Valley Pacific Petroleum Servi, Inc	08/05/2021	Cardlock Fuel - Fieldbrook Glendale CSD	355.74
Total Valley Pacific Petroleum Servi, Inc:			1,922.95
Verizon Wireless			
Verizon Wireless	08/10/2021	General Manager	41.14
Verizon Wireless	08/10/2021	Ruth Area Fire Recovery	35.71

Humboldt Bay Municipal Water District

--Monthly Expenses by Vendor Detail Report--
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Vendor Name	Date Paid	Description	Amount Paid
Verizon Wireless	08/10/2021	Customer Service - Humboldt Bay	17.08
Verizon Wireless	08/10/2021	Customer Service - Fieldbrook-Glendale CSD	48.61
Verizon Wireless	08/10/2021	Operations 1	.23
Verizon Wireless	08/10/2021	Customer Service Ipad-Humboldt Bay	9.88
Verizon Wireless	08/10/2021	Customer Service Ipad - Fieldbrook-Glendale CSD	28.13
Verizon Wireless	08/10/2021	Ruth Area	24.22
Verizon Wireless	08/10/2021	Ruth Hydro	24.22
Total Verizon Wireless:			229.22
William Wardrip			
William Wardrip	08/13/2021	expense reimbursement work crew supplies Ruth HQ and Bunkh	40.51
William Wardrip	08/13/2021	expense reimbursement Rebuild Ruth HQ Fire System and Pump	40.51
Total William Wardrip:			81.02
ZEP Manufacturing Company			
ZEP Manufacturing Company	08/31/2021	Essex Maintenance supplies	283.37
Total ZEP Manufacturing Company:			283.37
Grand Totals:			500,453.26

Humboldt Bay Municipal Water District

--Monthly Overtime Report--
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Position Title	2-01 Overtime Emp Hrs	2-01 Overtime Emp Amt	2-02 Doubletime Emp Hrs	2-02 Doubletime Emp Amt
Elec & Ins Tech	2.25	\$133	.00	\$0
Maint Worker	1.00	\$29	.00	\$0
Elec & Ins Tech	2.50	\$134	.00	\$0
Oper & Mnt Tech	4.00	\$220	.00	\$0
Total ESSEX:	9.75	\$517	.00	\$0
Hydro Oper Ruth	5.00	\$281	.00	\$0
Total RUTH:	5.00	\$281	.00	\$0
Grand Totals:	14.75	\$798	.00	\$0

To: Board of Directors
From: Chris Harris
Date: September 9, 2021
Re: Review of Workers' Compensation Claims FY18-FY21

Historical Overview

The earliest documented example of workers' compensation insurance dates back to 2050 B.C. in ancient Sumeria (now Iraq), where workers were paid when they were injured. Germany had the first "modern" workers' compensation laws, known as "Sickness and Accident Laws", enacted in 1884¹. It was not until 1911 that the United States had any workers' compensation laws. Wisconsin was first, with nine other states passing similar laws that year (including California). It took an additional 37 years for every state to pass its own workers' compensation laws with Mississippi being the final state in 1948.

California's Workers' Compensation History

Since its initial passing in 1911, California's workers' compensation insurance has gone through a multitude of revisions².

- 1911 – California's first workers' compensation laws (Roseberry Act).
- 1913 – Employers required to provide coverage, established the Workers' Compensation Appeals Board (WCAB), established the State Compensation Insurance Fund (Boynton Act).
- 1917 - "The Workman's Compensation Insurance and Safety Act" passed (represents the foundation for all labor code used today).
- 1974 - The gender specific name was changed to gender neutral (Workmans' to Workers')
- 1989 – Statutory changes to the types and amounts of payments received.
- 1993 – Additional statutory changes limiting medical-legal and rehab expenses, changed how permanent disability was calculated, and required companies to provide alternate or modified work for employees who have permanent disabilities.
- 2002 – Increased payments for temporary and permanent disabilities and death benefits.
- 2003 – Reform requiring standards for the types and extent of care provided for compensated employees and establishing a Utilization Review process (UR) to avoid medical abuse.
- 2004 - Established a Medical Provider Network (MPN) to limit physicians that may treat injured employees.
- 2013 - Eliminated vocational rehabilitation, increased permanent disability benefits, created a \$120 million return-to-work program, created an independent medical review process, and made it harder for employees to see physicians outside the MPN

The Cost of Workers' Compensation Premiums

¹ Insureon.com, "A Brief History of Workers' Compensation"

² California Applicants' Attorneys Association, "The History of Workers' Compensation in California"

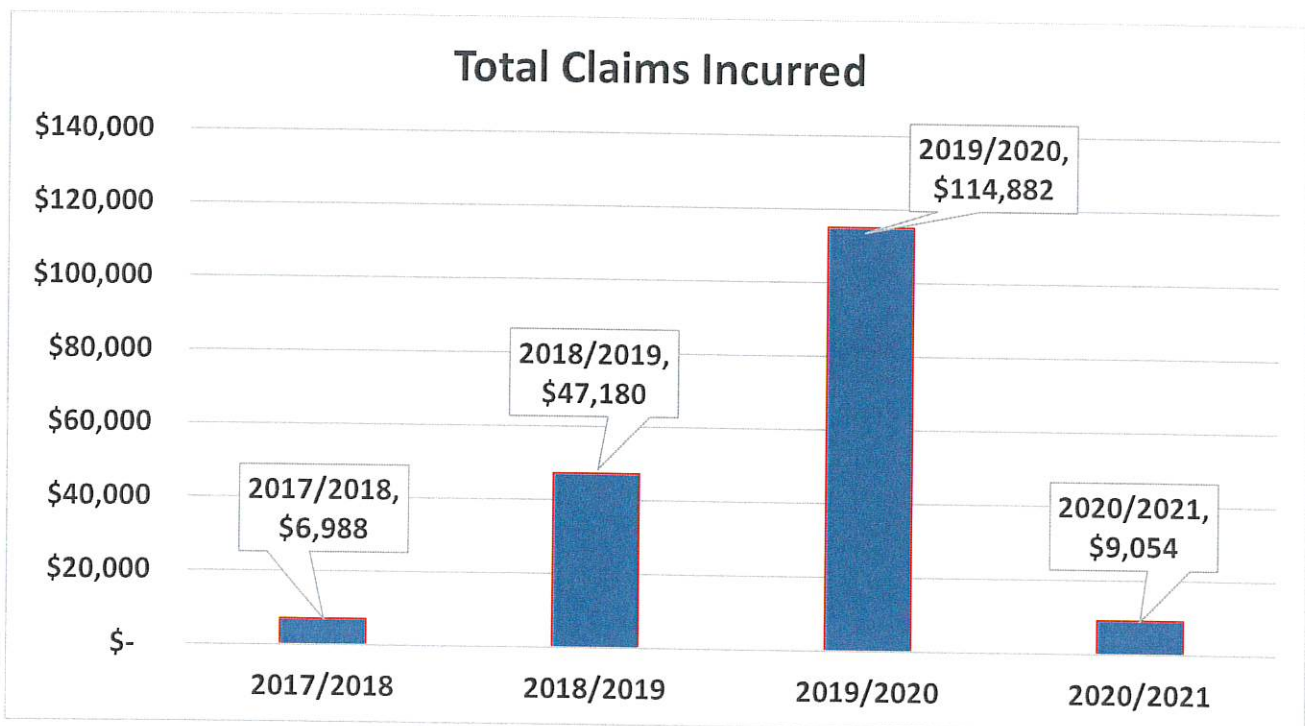
Workers' compensation is based on a no-fault system, meaning an injured employee does not need to prove that the injury or illness was someone else's fault in order to receive workers' compensation benefits for an on-the-job injury or illness. Premiums for Workers' Compensation Insurance are calculated using multiple factors³.

- **Classification** – Specific groups of “distinct and identifiable” occupations, industries, or businesses.
- **Open Rating** – Individual insurance companies set rates based on their ability to adequately cover losses and expenses in each industry classification. Rates must be adequate to maintain the solvency of an insurance company. Adequate rates also are required to meet potential and continuing claim obligations.
- **Premium Modification** - The base premium is modified (increased or decreased) using rating plans (usually schedule or judgment rating).
- **Experience Modification** - An employer's experience modification (X-Mod or E-Mod) is calculated from payroll and loss information. The experience modification compares the loss (or claims) history of the employer to all other employers in the same industry, similar in size. An experience modification <100% reflects better-than-average experience, and an experience modification of >100% reflects worse-than-average experience. This factor is always calculated using the prior three years of data.

The District's Workers' Compensation Expenses

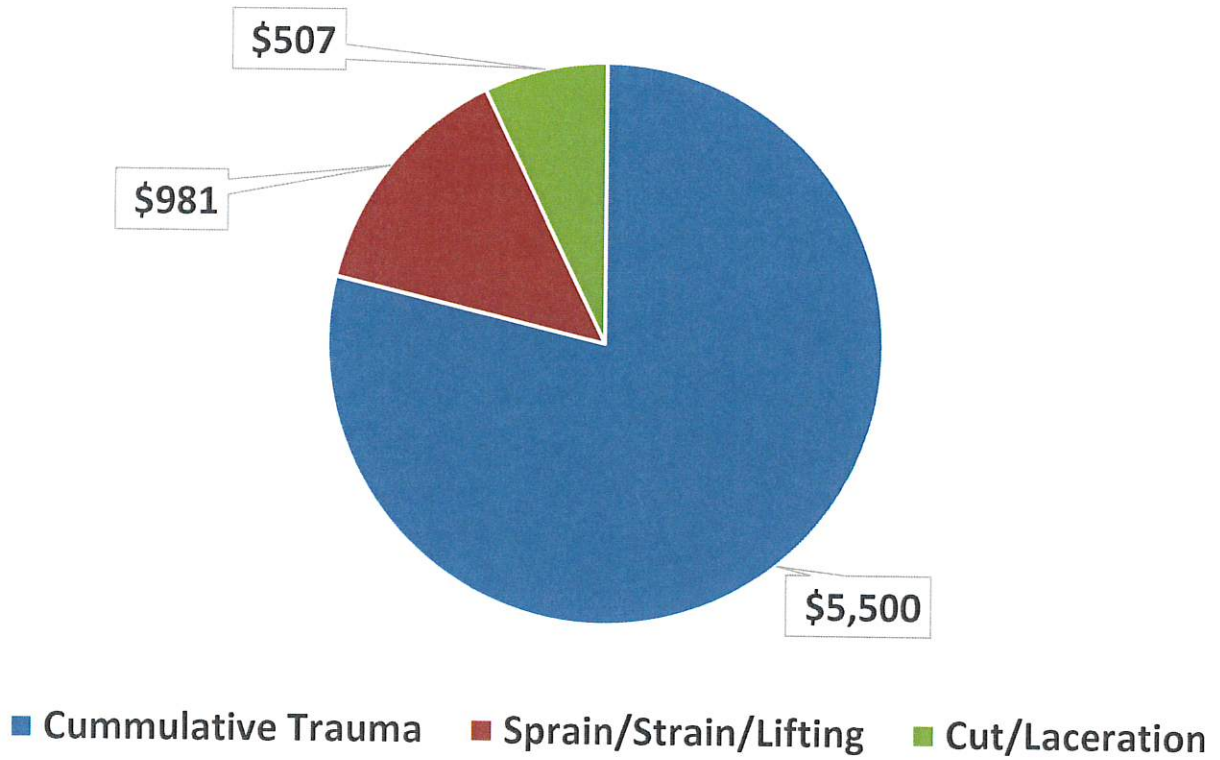
The greatest impact to the District's workers' compensation premiums is the experience modification factor.

The charts below reflect the workers' compensation claims over the past four years.

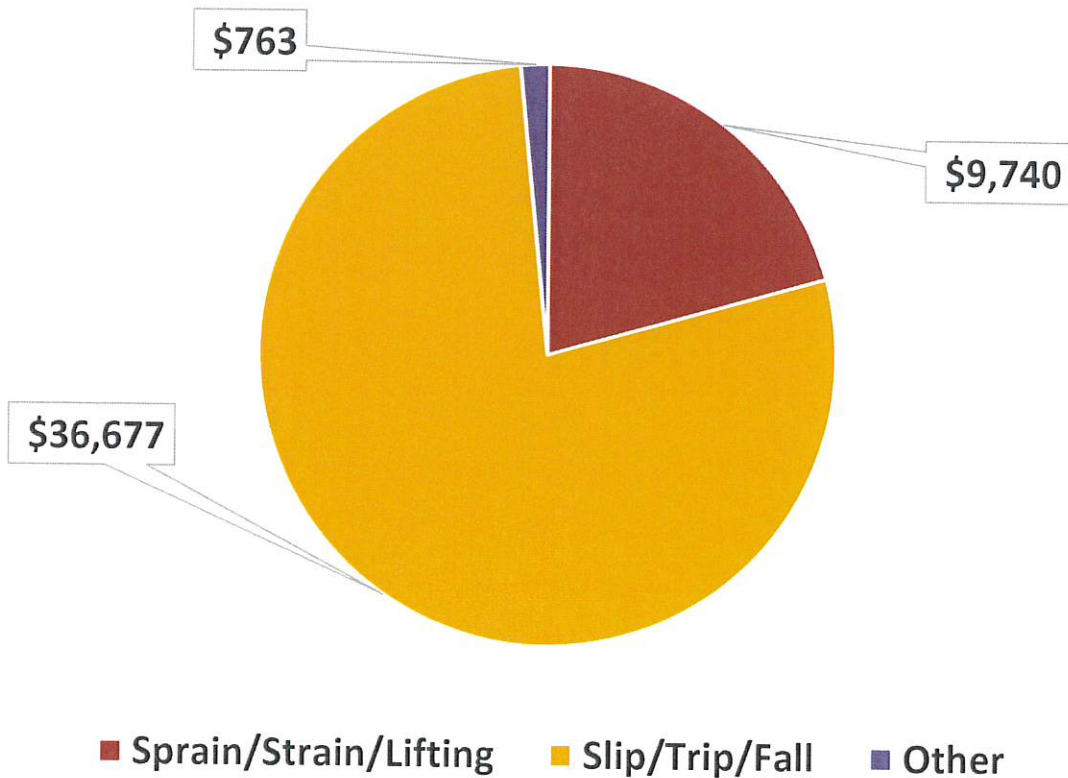


³ California Department of Insurance, Workers Compensation, “How is Workers Compensation Premium Calculated?”

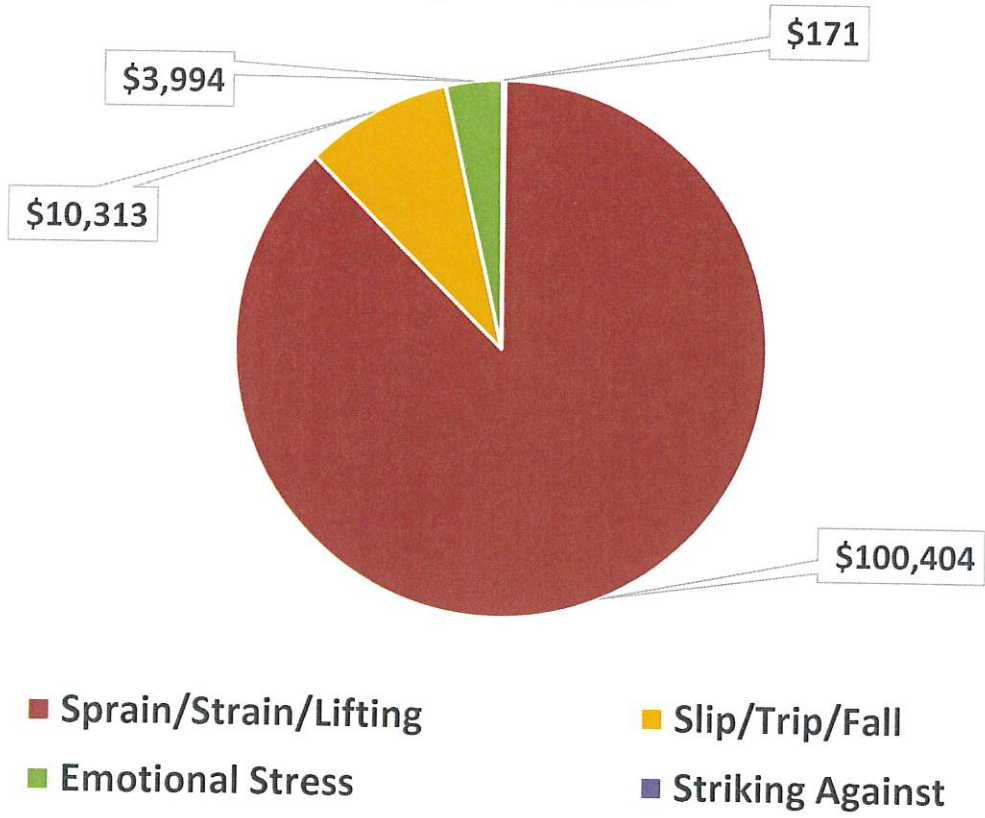
2017/2018 Claims



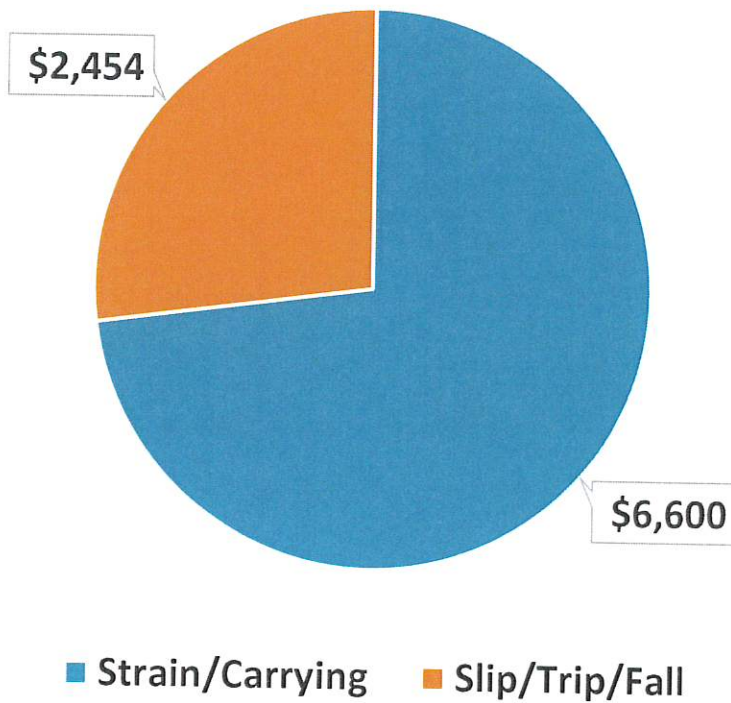
2018/2019 Claims

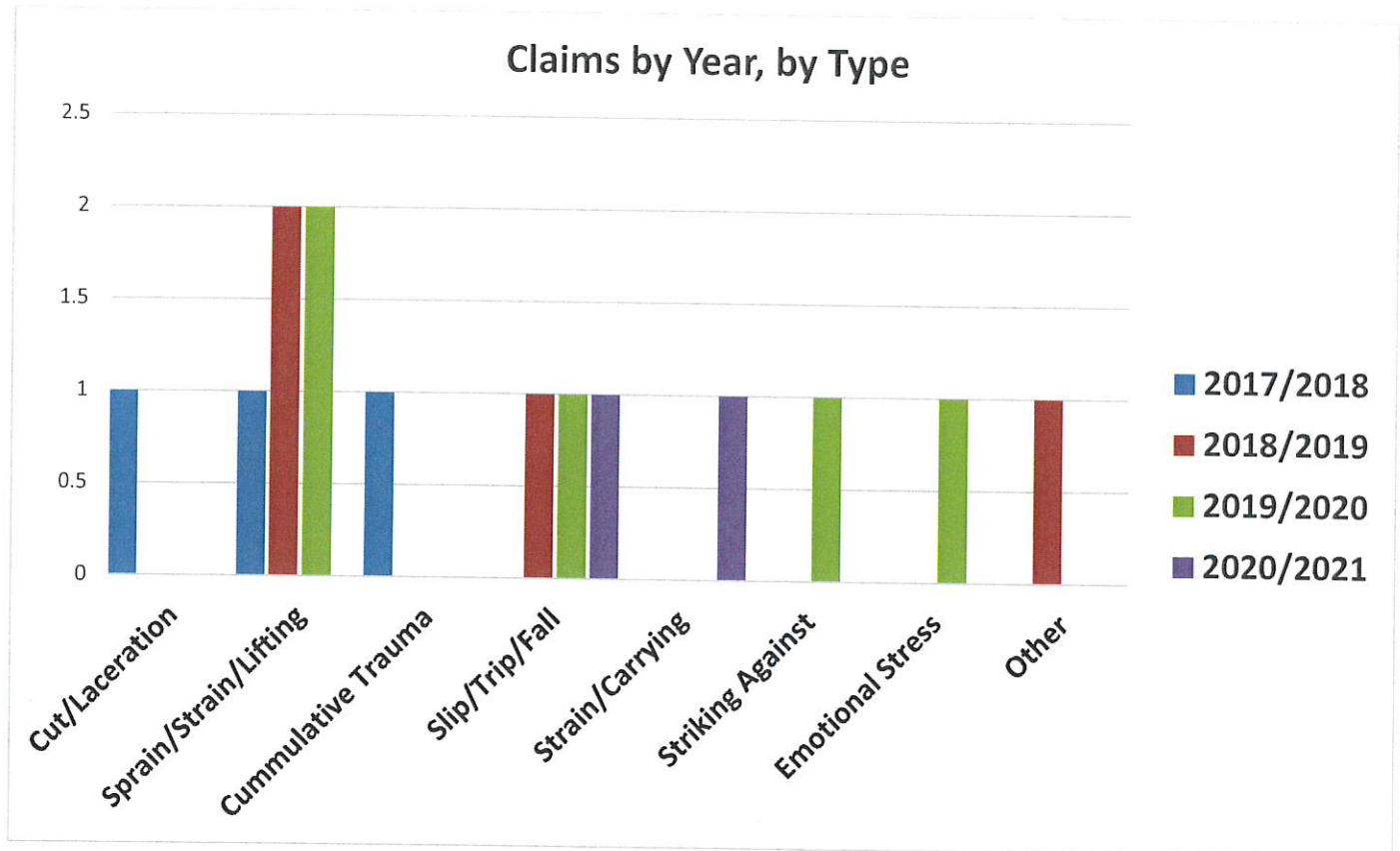


2019/2020 Claims



2020/2021 Claims





Year	X-Mod Factor	Premiums Paid
FY14/15	70%	\$45,560
FY15/16	67%	\$47,700
FY16/17	67%	\$43,090
FY17/18	107%	\$71,060
FY18/19	118%	\$79,970
FY19/20	127%	\$90,060
FY20/21	132%	\$95,010

Conclusion

All District staff has been made aware of the increasing X-mod and the related financial impact to the District. The District continually works on emphasizing a very strong safety culture, and will continue to look for areas to improve our safety practices. The greatest current impact to the District's X-mod is one particular injury (FY19/20). Once that claim is no longer factored into the X-mod, staff anticipates a decrease in the X-mod factor.

OPERATIONS

Memo to: HBMWD Board of Directors
From: Dale Davidsen, Superintendent
Date: August 30, 2021
Subject: Essex/Ruth August 2021 Operational Report

Upper Mad River, Ruth Lake, and Hydro Plant

1. There was no flow at Mad River above Ruth Reservoir (Zenia Bridge).
2. The conditions at Ruth Lake for August were as follows:

The lake level on August 30th was 2645.61 feet which is:

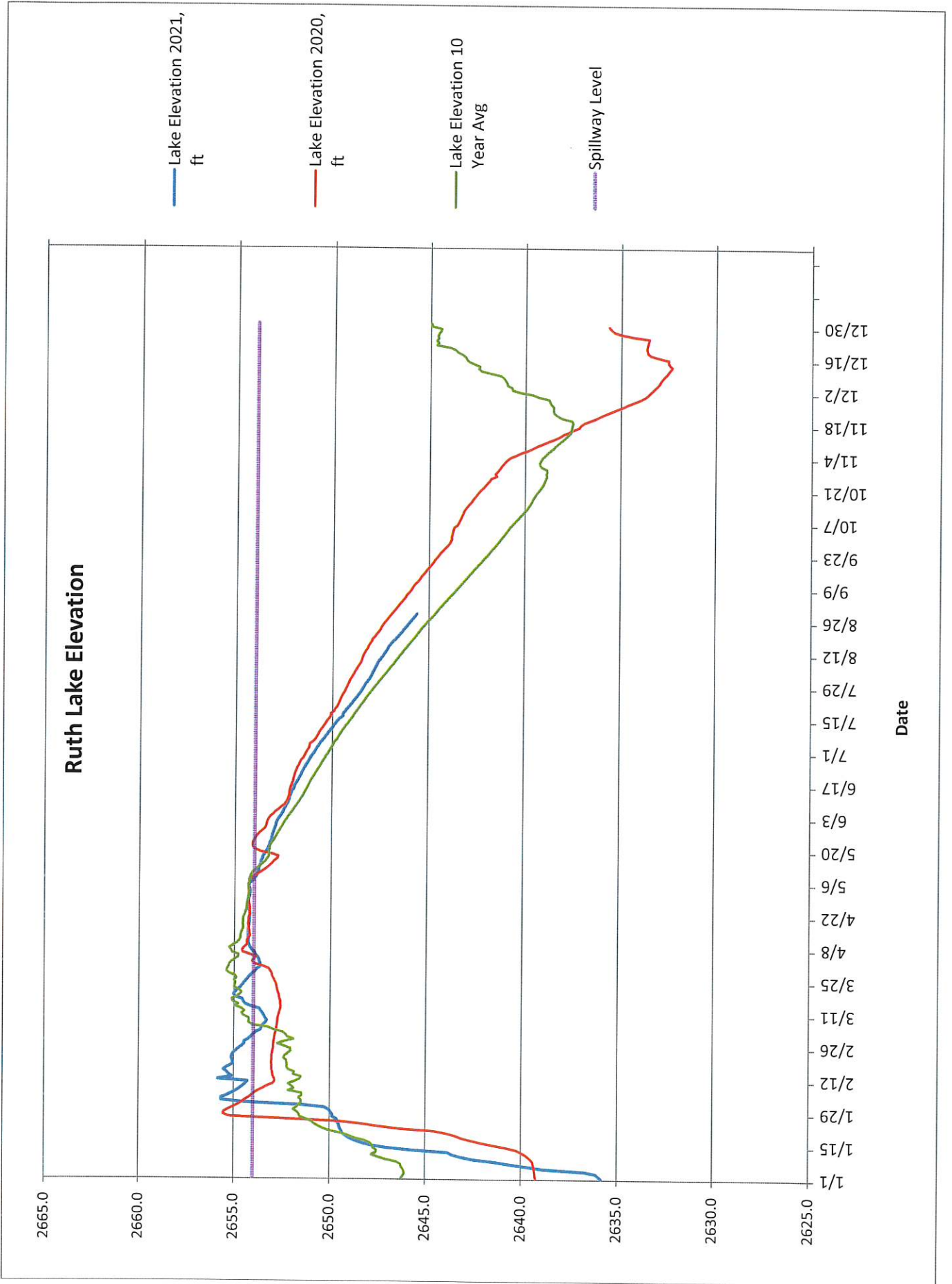
- 3.56 feet lower than July 30th, 2021
- 1.21 feet lower than August 30th, 2020
- 0.93 feet higher than the ten-year average
- 8.39 feet below the spillway

3. There was no recorded rainfall for August at Ruth Headquarters.
4. Ruth Hydro produced 112,800 KWh in August. There were 4 shutdowns, 2 for PGE (166.6 hours) and 2 for maintenance (2.1 hours), with lost time of 168.6 hours and lost production of 33,733 KWh.
5. The lake discharge averaged 43 cfs with a high of 46 cfs on August 29th.

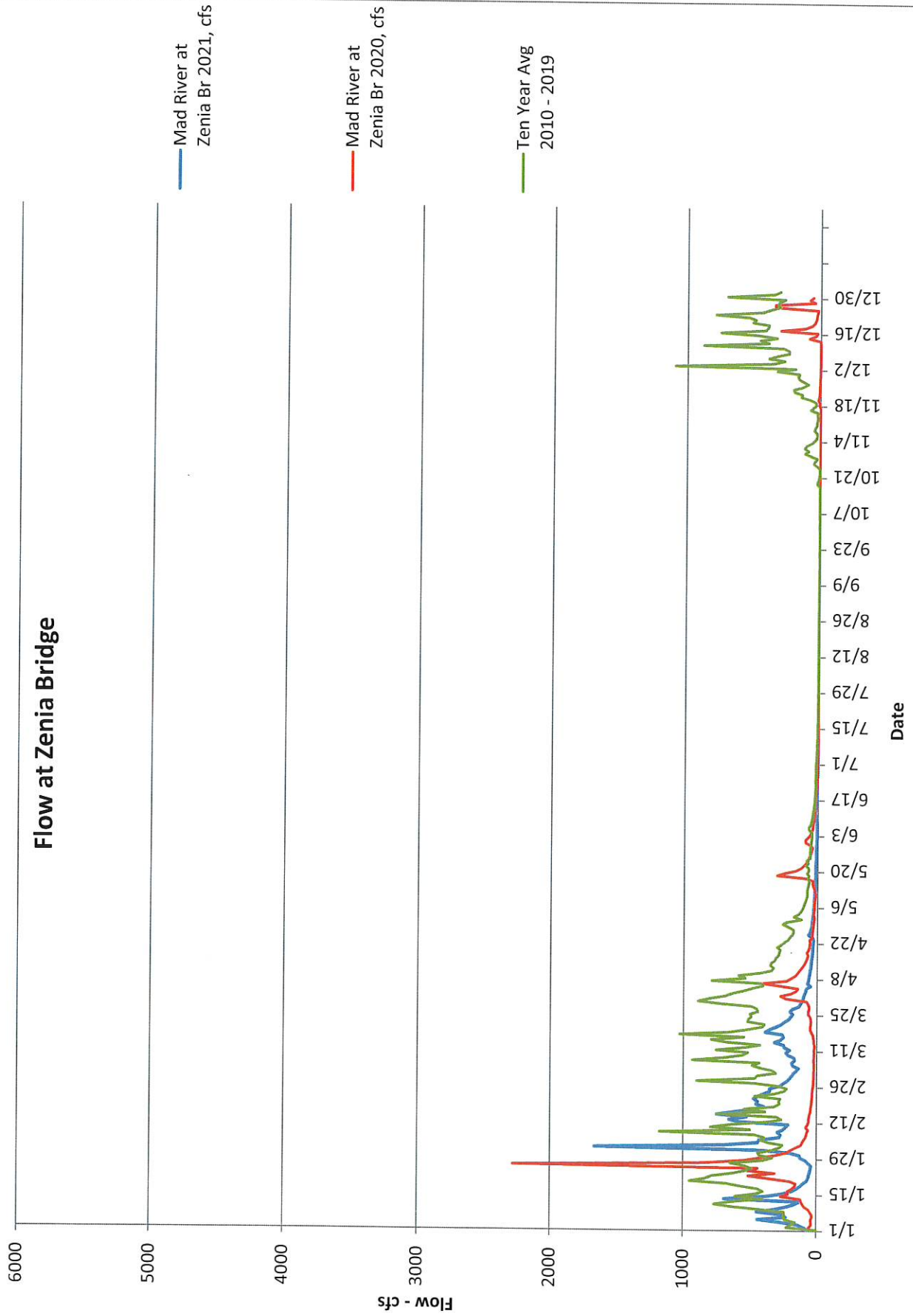
Lower Mad River, Winzler Control, and TRF

6. The river at Winzler Control Center for August till date, had an average flow of 31 cfs. The river flow reached a high of 35 cfs on August 5th.
7. The domestic water conditions were as follows:
 - The domestic water turbidity average was 0.11 NTU, which meets Public Health Secondary Standards.
 - As of August 29th, we pumped 259.964 MG at an average of 8.962 MGD.
 - The maximum metered daily municipal use was 9.713 MGD on August 20th.
8. The TRF conditions for August were as follows:
9. The plant is offline for the summer. August 2st- Hydro plant off line due to McFarland fire.
10. August 4th
 - Maintenance worked on spillway inspection / minor repairs
 - Had an abandon van towed off a R-o-W
 - Policed homeless camps – found a new move-in. Encouraged them to move along.

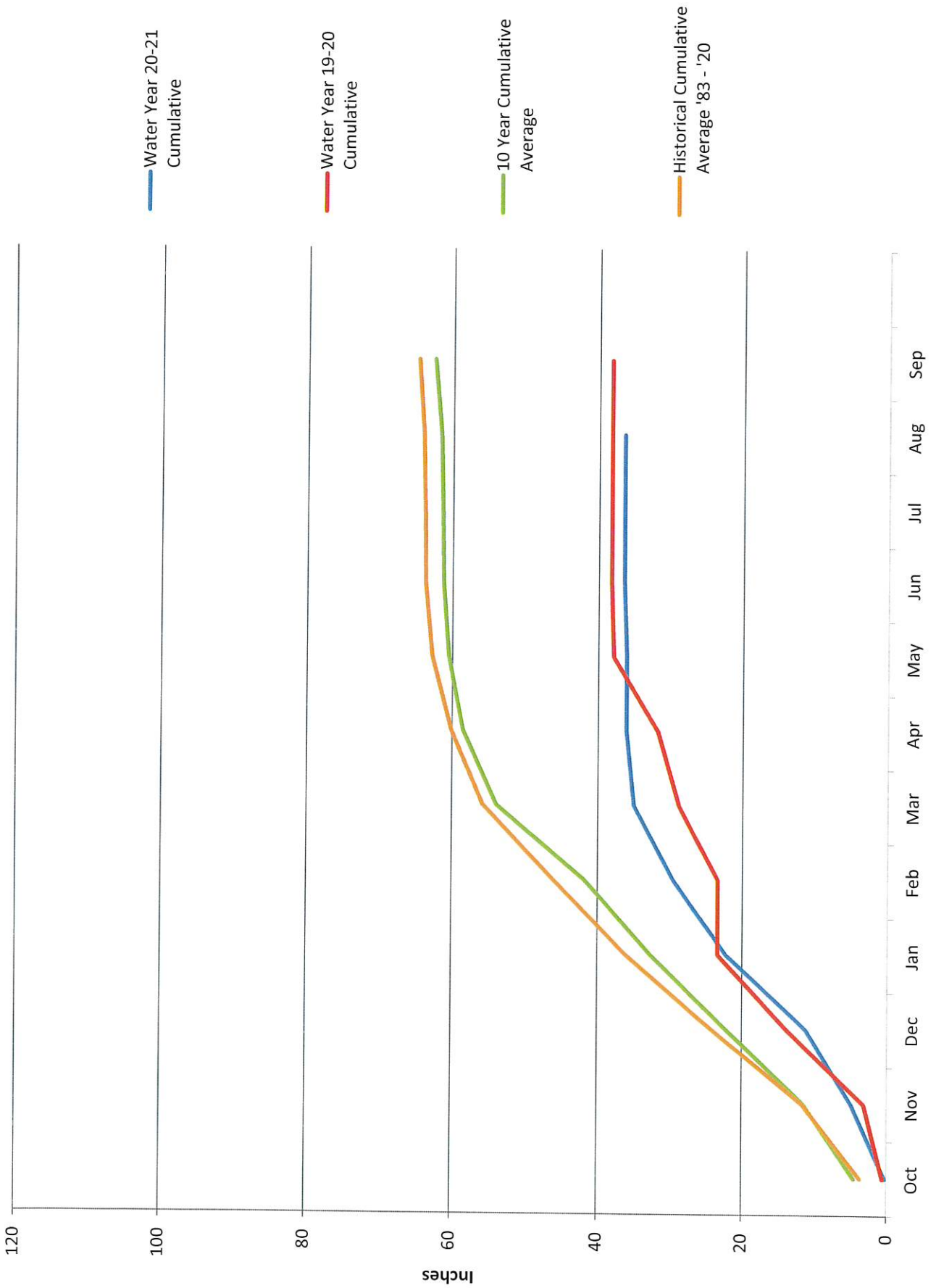
11. August 6th – Zoom meeting with USGI Re: On-site hypochlorite generation system design.
12. August 9th – Worked with staff on 12kV cutover proposal review and comments
13. August 10th – I attended an ASDSO Webinar – Uplift and Drainage.
14. August 11th – 12kV cutover meeting with engineering and construction group.
15. August 17th – Met with Cal-Trans maintenance foreman Re: R-o-W fence repair.
16. August 18th – Safety meeting - Forklift safety and practical test.
17. August 19th – Met on-site with Tesla and GHD for TRF project coordination and equipment layout and design.
18. August 25th -27th - Mario attended Backflow re-certification training.
19. Current and Ongoing Projects
 - COVID 19 – Dealing with modified staffing arrangements due to COVID cases as best we can. All staff is doing well.
 - 12kV project. – Project construction back in progress. Weekly coordination meetings with the contractor and sub-contractors, regarding Equipment, SCADA communications and cutover planning ongoing.
 - TRF Generator / Tesla battery bank projects – Coordination meetings are happening
 - Reservoir Seismic Retrofit project. – Meetings, plan reviews and emails as needed. 60% design done.
 - Routine annual equipment maintenance and services.

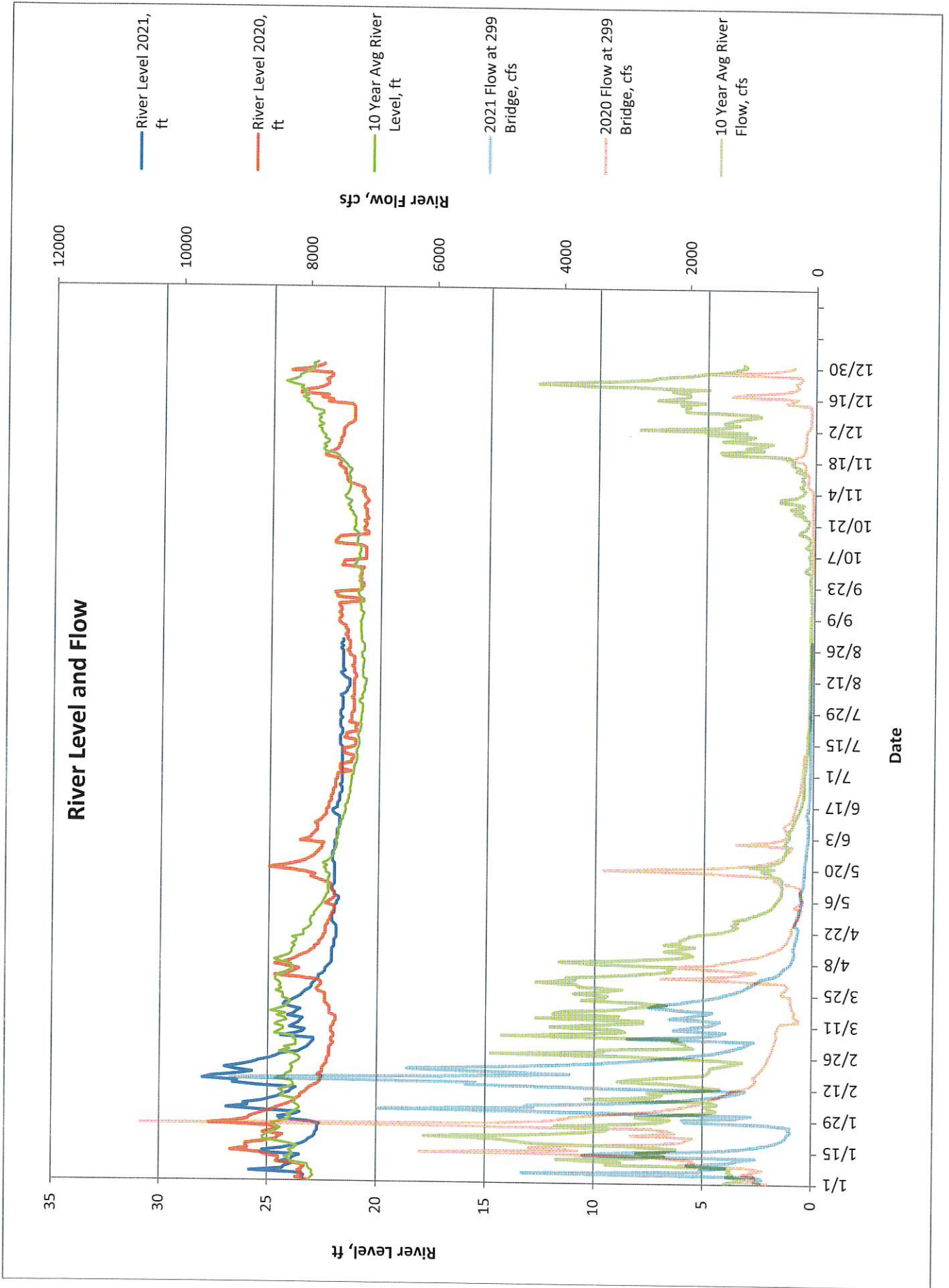


Flow at Zenia Bridge

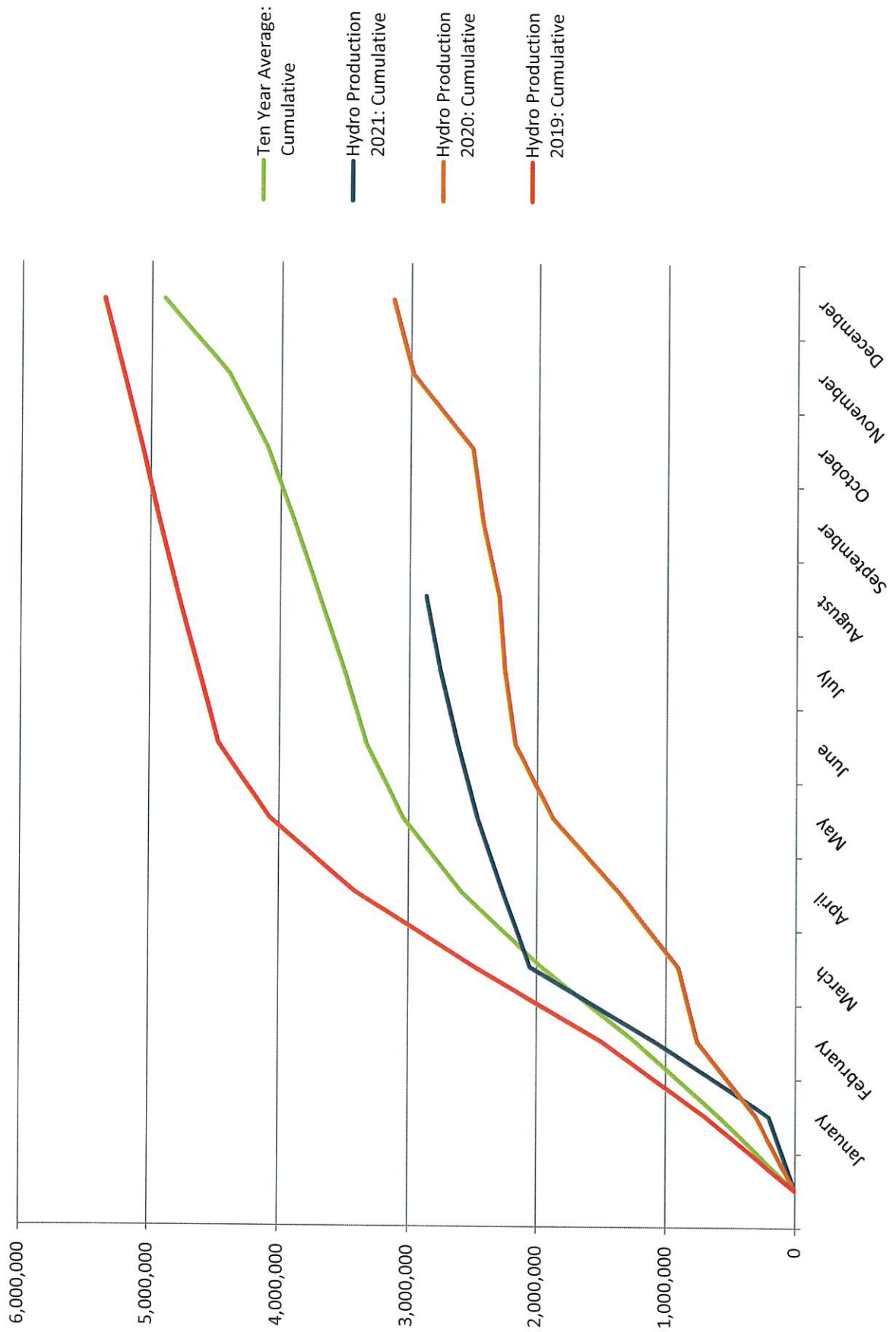


Kutn Rainfall - Water Year 2020-2021





Ruth Hydro Production: kW per Month



MANAGEMENT

Humboldt Bay Municipal Water District

To: Board of Directors
From: John Friedenbach
Date: September 2, 2021

Re: Brown Act Meetings – in person/virtual/hybrid Update

Discussion

The Board has requested that staff provide monthly updates on the status of returning to in person meetings and the continuance of Governor Newsom's Executive Order N-29-20. Matthew Marshall, Executive Director, of the RCEA provided his board with the attached update on August 26th. The information in Matthew's report still applies. In addition, staff has received a CSDA update on AB 361 (Rivas) which is attached for your reference. On September 2nd staff checked the status of AB 361. See attached status report.

We are still in a holding, wait and see status on whether the exceptions to the Brown Act for virtual meetings will be extended or changed via legislation. If there is no legislative change and the governor's executive order expires on September 30th, then the prior Brown Act rules governing virtual participation in board meetings will apply.

Recommendation

Wait and see what happens by September 30th.



REDWOOD COAST
Energy Authority

STAFF REPORT
Agenda Item # 9.1

AGENDA DATE:	August 26, 2021
TO:	Board of Directors
FROM:	Matthew Marshall, Executive Director
SUBJECT:	Offshore Wind and Future Board Meeting Planning (Information only)

SUMMARY

Offshore Wind Update

~~Executive Director Matthew Marshall will provide a brief update on local and national offshore wind related activities at this Board meeting.~~

* Future In-Person and Hybrid Board Meeting Planning *

At the June Board meeting, the Directors requested an update on returning to in-person public meetings.

There have been no announcements that Governor Newsom will extend Executive Order N-29-20's waiver of certain teleconference meeting requirements beyond September 30, however, the current infection surge caused by the highly-transmissible COVID delta variant makes the possibility of safely returning to in-person and hybrid meetings less certain. After September 30, directors participating from a remote location must once again list their remote meeting location addresses on published agendas, and post agendas at and enable public meeting participation from these remote locations. Remote locations must also be ADA accessible.

Two Brown Act teleconference-related bills are still active at the California state legislature: AB 339 and AB 361.

AB 339 would require both in-person and virtual meeting options for Brown Act bodies for jurisdictions of 250,000 residents or more. Smaller jurisdictions may choose to offer both in-person and virtual (internet and phone) public participation but would not be required to do so. Governing body members would follow pre-pandemic remote location posting requirements and there has been no indication of plans to add waivers for those requirements to AB 339. This bill has been ordered to a third reading in the Senate.

AB 361 would allow for virtual Brown Act body meetings without complying with teleconference meeting posting and public access requirements and without a physical meeting location during

a declared state of emergency or when state or local officials impose social distancing measures. AB 361 has also been ordered to a third reading in the Senate.

AB 703, which would have allowed for non-state of emergency, completely virtual meetings without listing or opening teleconference locations to the public, did not cross over to the Senate and is dead for this year.

The Humboldt Bay Municipal Water District is testing a relatively inexpensive (\$1,000) solution in their Board room which RCEA has used in the past as a physical meeting space. Staff awaits information on whether the device performed well. Unsatisfactory audio quality plagued initial tests of the device with earlier software versions. More expensive hybrid meeting solutions, or solutions requiring staff to provide in-meeting video switching support, may be needed. The Water District has expressed interest in cost-sharing an inexpensive solution with RCEA.

Staff are also evaluating hybrid meeting solutions for the smaller RCEA office meeting room.

The Board and Community Advisory Committee may choose to meet in other venues already configured for hybrid meetings. This option may require compensation for meeting room use.

STAFF RECOMMENDATION

N/A – Information only.

ATTACHMENTS

None.

1. CSDA-Sponsored Brown Act Bill Amended, Adds Urgency Clause

0 LIKE

Marcus Detwiler

August 30, 2021

CSDA's sponsored bill, Assembly Bill 361 (Rivas), has now been amended to include an urgency clause, **making its provisions immediately effective upon its potential approval by Governor Newsom.**

Under normal circumstances, bills signed into law during the year take effect at the beginning of the following calendar year – in this case, January 1, 2022. Governor Newsom's July 11 Executive Order N-08-21 rescinded many previous Orders related to the Ralph M. Brown Act ("the Brown Act" or "the Act"), with the modified Brown Act procedures ending effective September 30, 2021. After this time, agencies that are required to follow the Brown Act will be required to follow the usual requirements and procedures found within the Act, rather than the modified procedures implemented during the pandemic.

This had meant that after September 30, special districts would have had to resume the publication of the locations from which special district board members were remotely participating in meetings within meeting notices and agendas, post meeting agendas and notices at all teleconference locations, provide the public with a physical location from which they would be able to observe the meeting and provide public comment, and ensure that all special district board members participating remotely were within the territorial bounds of the district. This would have been the case for approximately 90 days until January 1, 2022, at which point the provisions of AB 361 would have come into effect.

However, with the inclusion of an urgency clause, AB 361's provisions would come into effect upon receiving Governor Newsom's signature, thereby eliminating the "90-day" time period where special districts would have been forced to meet under the pre-pandemic requirements of the Brown Act. AB 361 codifies many of the practices observed during the pandemic, allowing special districts to meet remotely during emergency situations under modified Brown Act procedures.

The inclusion of an urgency clause means that the bill must receive a two-thirds (2/3) vote in both the Assembly and Senate. CSDA staff will engage legislators and their staff in support of this measure along with other supporters of this bill. If your district has not yet sent in a letter of support on AB 361, visit CSDA's Take Action page with more information on how to get involved in this advocacy effort.

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California

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AB-361 Open meetings: local agencies: teleconferences. (2021-2022)

Senate: _____ 1st Cmt 2nd Cmt 2nd 3rd 2nd 3rd
 Assembly 1st Cmt 2nd 3rd Pass

Bill Status	
Measure:	AB-361
Lead Authors:	Robert Rivas (A)
Principal Coauthors:	-
Coauthors:	-
Topic:	Open meetings: local agencies: teleconferences.
31st Day In Print:	03/04/21
Title:	An act to amend, repeal, and add Section 54953 of the Government Code, relating to local-government; government, and declaring the urgency thereof, to take effect immediately.
House Location:	Senate
Last Amended Date:	08/30/21

Type of Measure
Active Bill - In Floor Process
Two Thlrds Vote Required
Non-Appropriation
Non-Fiscal Committee
Non-State-Mandated Local Program
Urgency
Non-Tax Levy

Last 5 History Actions	
Date	Action
08/31/21	Read second time. Ordered to third reading.
08/30/21	Read third time and amended. Ordered to second reading.
07/15/21	Read second time. Ordered to third reading.
07/14/21	From committee: Do pass. (Ayes 10, Noes 0.) (July 13).
07/06/21	Read second time and amended. Re-referred to Com. on JUD.

Daily File Status		
File	File Date	Item
Sen 3rd Reading - Asm Bills	09-02-2021	263

RYAN BURNS / TODAY @ 7:15 A.M. / COVID-19 AND HUMBOLDT, LABOR

Help Wanted: Humboldt County Employers Struggle to Find Workers Amid a Smaller Labor Force, COVID Fears, Child Care Needs and the Remote Work Revolution



A help wanted sign outside Starbucks in Eureka boasts a range of benefits. | Submitted.

If you need a new job in Humboldt County, now is a great time to be on the hunt. Unfortunately for local employers, not nearly enough people are hunting.

As the economy sputters back to life amid the ongoing COVID pandemic, [job listings](#) abound, and “Help Wanted” posters adorn numerous shop windows, with some offering [unprecedented hiring incentives](#).

The Starbucks on Fifth Street in Eureka, for example, has a sign offering a host of perks including a free college education via Arizona State University’s online program.

The labor shortage isn’t unique to Humboldt County; the trend has made [national news](#). More than 11 million workers quit their jobs in recent months, according to the U.S. Department of Labor, sparking countless stories about what’s been dubbed [the Great Resignation](#).

Shelley Nilsen, owner of local staffing firm Express Employment Professionals, said her business is struggling to find candidates who are ready to work.

“Recruiting is harder than it was before the pandemic started,” she said, “and it was hard then.”

The employee shortage is constricting businesses that might otherwise be enjoying a financial rebound.

“We’ve seen a lot of [businesses] adjusting hours because there are not enough employees to stay open as long as they’d like,” she said. “Businesses have plans for growth. They’ve got the business but not the staff to do it.”

She identified a number of contributing factors, including the public's fear of contracting COVID-19, difficulty finding child care and the range of federal unemployment benefits available during the pandemic. Others have simply reassessed their work/life balance, and many members of the Baby Boom generation have decided to retire.

Plus, the pandemic prompted [a revolution in remote work](#), allowing many local residents to find new jobs with out-of-the-area employers.

"You're no longer bound by the Redwood Curtain," Nilsen said. "As a business, your competitor is not just the guy right down the street. It's the company in Sacramento that can offer better benefits."

But if employers spend more on labor, they may be forced to raise prices, which can put them in a tough spot.

"A very real fear that businesses have is that when they raise prices, people will either shop online or balk [at the increase]," Nilsen said.

The employment landscape has changed in other ways, too. During the pandemic, Humboldt County's unemployment rate ballooned from around four percent to a high of nearly 13 percent in May 2020. As of last month the rate had dropped back down to a historically reasonable 6.4 percent. However, that figure is a bit misleading because fewer people are even looking for work.

Since March 2020, when [the shelter-in-place order](#) took effect, the size of Humboldt County's labor force has declined by more than five percent. That's 3,200 people who simply left the local labor pool, whether due to retirement, fears of contracting the virus or some other reason.

Child care

"One big one is child care and school," Nilsen said. "COVID has decimated a lot of our child care facilities."

Kerry Venegas, executive director of the nonprofit Changing Tides Family Services, agreed that this is a major factor for many local workers.

"Child care is critically important for people being able to work," she said. "It's not always at the forefront of economic discussions, but the pandemic forced that into the light. A lot of times it's considered the parents' problem; right now it's everyone's problem."

Venegas pointed to some numbers. Early last year, before the pandemic arrived in force, Humboldt County had 205 child care providers. By mid-August that number had shrunk to just 157, and last week 11 of those were temporarily closed for mandatory 10-day quarantines due to possible COVID exposure.

Each of those closures, whether temporary or permanent, has a ripple effect in the community.

“The impact is large and immediate,” Venegas said. First, it affects the owners. Most child care facilities, both nationally and locally, are privately owned small businesses, often run out of people’s homes and serving five or six kids at a time, though larger ones can accommodate as many as 50 kids.

“When they close, even for a day, they lose all their revenue, and they’re already running on small margins,” Venegas said. Some of them simply can’t afford to reopen.

Then there’s the impacts to parents. A big chunk of child care costs in Humboldt County are paid with federal dollars in the form of vouchers available to income-eligible parents. These parents often don’t have a backup plan when their child care falls through.

“The bulk of families that are income-eligible are the same people who worked throughout the entire pandemic,” Venegas said. “They work at grocery stores, in the service industry, at gas stations. They can’t afford *not* to work, and they also need the child care. ... Most of those folks literally can’t stay home.”

But when a child care facility closes unexpectedly, they may have no other choice.

Venegas sees an opportunity in this new labor landscape for employers looking to recruit new workers. Rather than offering their own in-house child care services, which can be expensive, time-consuming and challenging, business owners could purchase slots for their employees’ kids at existing child care facilities. “This would give the child care providers a steady and guaranteed income and employers reliable and high-quality child care,” Venegas said. Not to mention grateful employees.

Unemployment benefits

A lot of local employers suggest that the dearth of job candidates can be tied people sitting at home, collecting unemployment benefits. Nilsen said she’s definitely seen evidence of that.

As soon as President Joe Biden [passed a new stimulus package](#) in March, extending unemployment benefits until early September, Express Employment Professionals saw a huge drop-off in applications and a simultaneous increase in no-shows at job interviews.

“Ghosting is always a thing, but it just became crickets,” Nilsen said. “People who applied the week before and said they really need work, they just stopped answering the phone.”

[Four federal unemployment benefit programs](#) are set to expire at the end of this week, and Nilsen is hopeful she’ll see an uptick in applications and interviewees.

So is Jaymi Dark, owner of Dark Staffing Solutions, an employment agency focused on the cannabis industry.

"We have people that are very open about it, [who] say they don't want to go to work because it will interrupt their unemployment and they're making more on unemployment than they ever made having a job," Dark said.

Her own company has been inundated with unemployment claims, receiving between three and 15 per day — "and we have more jobs than we can fill," she said. "That became a huge burden on our business because I essentially had to hire an entire person just to respond to the COVID epidemic paperwork." And the wave of approved unemployment claims will cause her workers compensation insurance to skyrocket, she said.

Government workers

The labor shortage has also hit the public sector, including Humboldt County government offices.

"Many county departments and divisions are struggling to fill positions right now," Economic Development Director Scott Adair told the *Outpost* via email. He said the number of applicants for open positions is lower than in years past, making competition for workers fierce.

"This is good for workers, but can also be challenging for employers," Adair said. "Even traditionally low-paying positions (take retail for example) are evolving. Fast food companies have responded to the shortage in labor by increasing wages, which now makes their places of employment directly competitive with office and trades jobs."

That includes many government jobs, and Humboldt County Human Resources Director Linda Le said the county is feeling the effects of the Great Resignation. "In normal times, employees resigning or retiring in large numbers signals a healthy economy with plentiful jobs. However, the pandemic is not normal times," Le said in an email.

Adair said the county is working with partner agencies and community stakeholders to address the labor problem, but those efforts are also hamstrung by the shortage in workers.

"Our programs run on human capital, and our greatest capital asset is our team," Adair said. "But it takes workers to help workers. Therein lies the catch-22."

Hospitality and restaurants

Jeff Durham, owner of the Redwood Riverwalk Hotel in Fortuna and a member of the Humboldt Lodging Alliance, said he has managed to sidestep the worst impacts of the Great Resignation by taking care of his employees. He has given them three raises since May of last year; he offers them interest-free loans of up to \$500 for emergencies; and he gives them a range of perks.

"Moving forward, as owners and operators in hospitality, we need to look at how we can treat our biggest asset in the right way to ensure that this doesn't happen again

— because this is a reckoning for us,” he said. Durham downplayed the impact of \$600 unemployment checks available through the federal CARES Act, saying employers need to focus on paying a living wage.

Nicholas Kohl, owner of Oberon Grill in Eureka, agreed. “The only reason I’m able to be open the limited hours I am is I have tremendous loyalty from my core staff,” he said. Like Durham, Kohl increased employee pay during the pandemic. “That was my way of recognizing my staff for sticking with me,” he said.

That’s not to say things have been easy for him. His business last year was just 30 percent of what it had been the year before, and he said this year he *might* make it to 50 percent. He has taken advantage of the Paycheck Protection Program and county assistance. “If there’s a program out there, I’ve accessed it,” he said.

He has also tried to lower costs wherever possible — for example, by exploring solar energy as a means of reducing his power bills and by negotiating for a lower workers compensation rate.

Even with increased wages, though, Kohl has lost employees — hence the limited hours for Oberon. “It’s been making receiving harder, getting mail harder — everything’s just harder,” he said. Hiring entry-level workers is a particular challenge. For one thing, fewer people are seeking work in the restaurant industry when the hours are so unpredictable.

“Also, I can’t take a risk on a person who’s not going to be as productive as they need to be,” Kohl said. In the past he might hire an HSU student just to see if they could host or wash dishes. But now, fewer students are even looking for work, and Kohl said he’d rather hold out for someone with years of experience, relevant training or personal references vouching for their reliability.

Cannabis

There’s one other key factor at play in Humboldt County in particular: Kohl said that when the shutdown hit, many of his kitchen staff took jobs in the cannabis industry.

“I know kitchen personnel were not paid well” pre-pandemic, Kohl said. “I get it. Tips were a big deal but so is stability. For cooks that’s big. It keeps ‘em going to have this routine. As soon as COVID broke, they took another job. And the pot market took most of it.” Some of his former cooks and other kitchen staffers are now trimming or delivering weed.

Dark is on the other end of that equation. “We’ve received an influx of people who are coming from the restaurant or service industry, and those people do very well in our industry,” she said. “Especially back-of-the-house workers, cooks.”

Dark also pointed out that the illicit side of the cannabis industry can facilitate unemployment fraud.

“It’s interesting, especially in our industry, how easy it is to collect unemployment checks and then work in the illicit market and collect cash payments,” she said.

"We're seeing and hearing about [that kind of] double dipping, and that's hard to compete with."

COVID's current resurgence amid low vaccination rates and the more contagious delta variant has led some employers to require masks for unvaccinated workers and others to require proof of vaccination.

Dark's agency asks applicants to check a box indicating whether they've been vaccinated or not, though she said she's not sure how accurate that is. "Because at the end of the day, there are a lot of people that don't want to wear a mask." In other words, unvaccinated workers will pretend to be vaccinated in order to go maskless at work.

As for requiring proof of vaccination, Dark said most of her roughly 200 active employees — 65 percent in an informal company poll they recently conducted — said they'd be unwilling to work for an employer with a vaccine mandate.

Long-term outlook

Despite the current setbacks, Dark and others we spoke with for this story said they're bullish on the future of Humboldt County's economy.

"I mean, we're booming here," Dark said. "We do have a lot of jobs [available] ... and we have good jobs, not just entry level positions that need to be filled. There's a lot of upper management that needs to be filled, too."

Kohl agreed. While he and other local employers are in crisis management mode right now, he's excited about such prospects as the Nordic Aquaculture project on the peninsula, HSU's transformation into a polytechnic institution and the development of offshore wind energy.

"There are so many great things just over the horizon," he said. "Right now we still have to deal with what's here."

ACWA



REGION 1 RULES AND REGULATIONS

Each region shall organize and adopt rules and regulations for the conduct of its meetings and affairs not inconsistent with the Articles of Incorporation or bylaws of the Association (ACWA Bylaw V, 6.).

OFFICERS

The chair shall appoint a secretary to the Board if one is deemed necessary.

MEETINGS

Region 1 will meet quarterly, subject to call of the chair, with two of those meetings to be held at ACWA spring and fall conferences.

ATTENDANCE

If a region chair or vice chair is no longer allowed to serve on the Board of Directors due to his / her attendance, the region board shall appoint from the existing region board a new region officer. (ACWA Policy & Guideline Q, 1.)

If a region chair or vice chair misses three consecutive region board / membership meetings, the same process shall be used to backfill the region officer position. (ACWA Policy & Guideline Q, 1.)

If a region board member has three consecutive unexcused absences from a region board meeting or general membership business meeting, the region board will convene to discuss options for removal of the inactive board member. If the vacancy causes the board to fail to meet the minimum requirement of five board members, the region must fill the vacancy according to its rules and regulations. (ACWA Policy & Guideline Q, 3.)

VACANCY

If the chair's position becomes vacant, the vice chair will fill the chair's position.

If the vice chair's position becomes vacant, the alternate chair will fill the vice chair's position

ELECTIONS

All nominations received for the region chair, vice chair and board positions must be accompanied by a resolution of support from each sponsoring member agency, signed by an authorized representative of the Board of Directors. Only one individual may be nominated from a given agency to run for election to a region board. Agencies with representatives serving on the nominating committees should strive not to submit nominations for the region board from their agency. (ACWA Policy & Guideline P, 2.)

Election ballots will be e-mailed to ACWA member agency general managers and presidents.

The nominating committee shall consist of three to five members.

The nominating committee should pursue qualified members within the region to run for the region board, and should consider geographic diversity, agency size and focus in selecting a slate.

See the current region election timeline for specific dates.

ENDORSEMENTS

ACWA, as a statewide organization, may endorse potential nominees and nominees for appointment to local, regional, and statewide commissions and boards. ACWA's regions may submit a recommendation for consideration and action to the ACWA Board of Directors to endorse a potential nominee or nominee for appointment to a local, regional or statewide commission or board. (ACWA Policy & Guideline P, 3.)

COMMITTEE RECOMMENDATIONS & REPRESENTATION

All regions are given equal opportunity to recommend representatives of the region for appointment to a standing or regular committee of the Association. If a region fails to provide full representation on all ACWA committees, those committee slots will be left open for the remainder of the term or until such time as the region designates a representative to complete the remainder of the term. (ACWA Policy & Guideline P, 4. A.)

At the first region board / membership meeting of the term, regions shall designate a representative serving on each of the standing and regular committees to serve as the official reporter to and from the committee on behalf of the region to facilitate input and communication. (ACWA Policy & Guideline P, 4. B.)

TOURS

ACWA may develop and conduct various tours for the regions. All tour attendees must sign a "release and waiver" to attend any and all region tours. Attendees agree to follow environmental guidelines and regulations in accordance with direction from ACWA staff; and will respect the rights and privacy of other attendees. (ACWA Policy & Guideline P, 6.)

FINANCES

See "Financial Guidelines for ACWA Region Events" document.

AMENDING THE REGION RULES & REGULATIONS

ACWA policies and guidelines can be amended by approval of the ACWA Board of Directors.

The Region 1 Rules & Regulations can be amended by a majority vote of those present at any Region 1 meeting as long as a quorum is present.

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OFFICIAL REGION 1 Board Ballot

2022-2023 TERM



**Please return completed
ballot by Sept. 30, 2021**

E-mail: regionelections@acwa.com
Mail: ACWA
980 9th Street, Suite 1000
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:

- **J. Bruce Rupp**, Director, Humboldt Bay Municipal Water District

VICE CHAIR:

- **Jennifer Burke**, Water Director, Santa Rosa Water

BOARD MEMBERS:

- **Tamara Alaniz**, General Manager, Brooktrails Township Community Services District
- **Jon L. Foreman**, Director, Valley of the Moon Water District
- **Dennis Mayo**, Board President, McKinleyville Community Services District
- **Elizabeth Salomone**, General Manager, Mendocino County Russian River Flood Control & Water Conservation Improvement District
- **Brad Sherwood**, Assistant General Manager, Sonoma Water

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)

- Jennifer Burke**, Water Director, Santa Rosa Water
- J. Bruce Rupp**, Director, Humboldt Bay Municipal Water District

CANDIDATES FOR VICE CHAIR: (CHOOSE ONE)

- Jennifer Burke**, Water Director, Santa Rosa Water

CANDIDATES FOR BOARD MEMBERS: (MAX OF 5 CHOICES)

- Tamara Alaniz**, General Manager, Brooktrails Township Community Services District
- Jennifer Burke**, Water Director, Santa Rosa Water
- Jon L. Foreman**, Director, Valley of the Moon Water District
- Dennis Mayo**, Board President, McKinleyville Community Services District
- Elizabeth Salomone**, General Manager, Mendocino County Russian River Flood Control & Water Conservation Improvement District
- Brad Sherwood**, Assistant General Manager, Sonoma Water

2

AGENCY NAME

AUTHORIZED REPRESENTATIVE

DATE

CLEAR FORM

RREDC/RCEA



BOARD OF DIRECTORS MEETING AGENDA

August 26, 2021 -Thursday, 3:30 p.m.

COVID-19 NOTICE

RCEA AND HUMBOLDT BAY MUNICIPAL WATER DISTRICT OFFICES WILL NOT BE OPEN TO THE PUBLIC FOR THIS MEETING

Pursuant to the Governor's Executive Order [N-29-20](#) of March 17, 2020, and the Humboldt County Health Officer's March 30, 2020, [Shelter-in-Place Order](#), the RCEA Board of Directors meeting will not be convened in a physical location. Board members will participate in the meeting via an online Zoom video conference.

To listen to the meeting by phone, call (669) 900-6833 or (253) 215-8782. Enter webinar ID: 819 7236 8051. **To watch the meeting online**, join the Zoom webinar at <https://us02web.zoom.us/j/81972368051>.

You may submit written public comment by email to PublicComment@redwoodenergy.org. Please identify the agenda item number in the subject line. Comments will be included in the meeting record but not read aloud during the meeting.

To make a comment during the public comment periods, raise your hand in the online Zoom webinar, or press star (*) 9 on your phone to raise your hand. You will continue to hear the meeting while you wait. When it is your turn to speak, a staff member will unmute your phone or computer. You will have 3 minutes to speak.

While downloading the Zoom application may provide a better meeting experience, Zoom does not need to be installed on your computer to participate. After clicking the webinar link above, click "start from your browser."

In compliance with the Americans with Disabilities Act, any member of the public needing special accommodation to participate in this meeting should call (707) 269-1700 or email Ltaketa@redwoodenergy.org at least 3 business days before the meeting. Advance notice enables RCEA staff to make their best effort to reasonably accommodate access to this meeting while maintaining public safety.

Pursuant to Government Code section 54957.5, all writings or documents relating to any item on this agenda which have been provided to a majority of the Board of Directors, including those received less than 72 hours prior to the RCEA Board meeting, will be made available to the public at www.redwoodenergy.org.

OPEN SESSION Call to Order

1. REPORTS FROM MEMBER ENTITIES

2. ORAL COMMUNICATIONS

This time is provided for people to address the Board on matters not on the agenda. At the conclusion of all oral 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 in 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 July 22, 2021, Board Meeting.

3.2 Approve Disbursements Report.

3.3 Accept Financial Reports.

3.4 Appoint Christopher Honar to the Community Advisory Committee for a Term Ending April 11, 2023.

3.5 Approve Proposed Revisions to the Feed-In Tariff (FIT) Power Purchase Agreement (PPA) Template; Direct General Counsel to Draft Amendments Consistent with the Revisions to Existing FIT Program PPAs with RPCA Solar 5 LLC (4 separate PPAs), North Coast Highway Solar 1 LLC, and North Coast Highway Solar 2 LLC; and Authorize RCEA's Executive Director to Execute Said Six FIT PPA Amendments.

3.6 Authorize Staff to Solicit Bids and Secure Construction for Electric Vehicle Charging Stations at the Humboldt County Airport as Appropriate for a Total Aggregate Budget Not to Exceed \$79,000, and to Seek Reimbursement Through the CALeVIP Program, and Authorize the Executive Director to Execute All Applicable Documents.

4. REMOVED FROM CONSENT CALENDAR ITEMS

Items removed from the Consent Calendar will be heard under this section.

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 weighted voting as established in the RCEA joint powers agreement.

5. OLD CCE BUSINESS

5.1. 2020 Power Source Disclosure Attestation

Adopt Resolution 2021-4 Attesting to the Veracity of RCEA's 2020 Power Source Disclosure Report and Power Content Label.

6. NEW CCE BUSINESS

- 6.1. Wave Energy Update (Information only)

END OF COMMUNITY CHOICE ENERGY (CCE) BUSINESS

7. OLD BUSINESS

- 7.1. Quarterly Budget Report – FY 2020-2021 Fourth Quarter (Information only)

8. NEW BUSINESS – None.

9. STAFF REPORTS

- 9.1. Report from Executive Director Matthew Marshall on Offshore Wind and In-Person Brown Act Meetings

10. FUTURE AGENDA ITEMS

Any request that requires Board action will be set by the Board for a future agenda or referred to staff.

11. CLOSED SESSION

- 11.1. CONFERENCE WITH REAL PROPERTY NEGOTIATIONS Pursuant to Government Code § 54956.8 in re: APNs 001-104-001-000 and 001-011-021-000; RCEA negotiator: Executive Director; Owner's negotiating party: Kramer Investment Corporation and the City of Eureka; Under negotiation: price and terms.

12. RECONVENE TO OPEN SESSION

13. CLOSED SESSION REPORT

14. ADJOURNMENT

NEXT REGULAR MEETING

Thursday, September 23, 2021, 3:30 p.m.

This meeting will be an online teleconference following shelter-in-place orders.



Redwood Coast Energy Authority
633 3rd Street, Eureka, CA 95501

Phone: (707) 269-1700 Toll-Free (800) 931-7232 Fax: (707) 269-1777

E-mail: info@redwoodenergy.org Web: www.redwoodenergy.org

SECTION 12.4a, PAGE NO. 4

BOARD OF DIRECTORS MEETING DRAFT MINUTES

July 22, 2021 - Thursday, 3:30 p.m.

Notice of this meeting was posted on July 18, 2021. Chair Sheri Woo called a regular meeting of the Board of Directors of the Redwood Coast Energy Authority to order on the above date at 3:32 p.m., stating that the teleconference meeting was being conducted pursuant to Brown Act waivers included in Governor Newsom's COVID-19 State of Emergency Executive Order N-29-20 of March 17, 2020, and the Humboldt County Health Officer's March 30, 2020, Shelter-in-Place Order. Chair Woo stated that the posted agenda contained public teleconference meeting participation instructions.

PRESENT: Vice Chair Stephen Avis, David Grover, Mike Losey (left at 4:52 p.m.), Sarah Schaefer, Mike Wilson (arrived 3:38 p.m.), Chair Sheri Woo. ABSENT: Scott Bauer, Chris Curran, Frank Wilson. STAFF AND OTHERS PRESENT: RCEA General Counsel Nancy Diamond, Power Resources Director Richard Engel, Power Resources Manager Jocelyn Gwynn, The Energy Authority Client Services Manager Jaclyn Harr, Executive Director Matthew Marshall, Account Services Manager Mahayla Slackerelli, Community Strategies Manager Nancy Stephenson, Clerk of the Board Lori Taketa.

REPORTS FROM MEMBER ENTITIES

Director Losey reported that Fortuna's wastewater treatment plant Tesla power pack activation has been delayed until August to ensure the online interface is working properly.

Director Schaefer asked for energy-related questions for prospective Arcata City Council members to be emailed to her.

Chair Woo reported that the Ruth Lake reservoir is currently full and contains three to four years' worth of water for Humboldt Bay Municipal Water District customers if water is conserved. Tributary and groundwater flow is very low and Mad River water flow is at a third of last year's flow rates. Watershed conditions are not good, with toxic blue-green algae already reported at Ruth Lake and in the Mad River. The Eel River has already disappeared in sections.

Director Grover reported that Trinidad has a Water Advisory Committee and stressed the importance of water conservation.

ORAL COMMUNICATIONS

No member of the public submitted public comment or asked to speak.

CONSENT CALENDAR

3.1 Approve Minutes of June 24, 2021, Board Meeting.

3.2 Approve Disbursements Report.

3.3 Accept Financial Reports.

Chair Woo requested that item 3.1 be removed from the consent calendar. No member of the public requested consent calendar item discussion.

M/S: Losey, Grover: Approve all consent calendar items except item 3.1.

The motion passed with a unanimous roll call vote. Ayes: Avis, Grover, Losey, Schaefer, M. Wilson, Woo. Noes: None. Absent: Bauer, Curran, F. Wilson. Abstentions: None.

REMOVED FROM CONSENT CALENDAR ITEMS

Chair Woo requested that the minute wording of Old Business item 5.1 – RCEA Fiscal Year 2021-22 Budget be changed from “bad customer debt” to “past due accounts,” and that “untilled” be corrected to “unfilled.” No member of the public commented on this item.

M/S: Avis, Grover: Approve consent calendar item 3.1 - Minutes of June 24, 2021, Board Meeting as amended.

The motion passed with a unanimous roll call vote. Ayes: Avis, Grover, Losey, Schaefer, M. Wilson, Woo. Noes: None. Absent: Bauer, Curran, F. Wilson. Abstentions: None.

OLD CCE BUSINESS - Chair Woo confirmed that a quorum was present to conduct Community Choice Energy business.

5.1. Energy Risk Management Quarterly Report

The Energy Authority Client Services Manager Jaclyn Harr updated the Community Choice Energy program's financial forecast and gave an overview of RCEA energy procurement requirements and recent policy changes.

This year's net revenue is forecasted to be negative. In 2022, the net revenue forecast improves but remains negative. Increased energy prices and PG&E generation rates are expected to combine with decreased exit fees, resulting in lower customer prices and a smaller pool of funds for customer programs and infrastructure investment. Ms. Harr described volatile energy costs, current hydroelectricity production, and the effect of regional weather on energy prices and the grid. A slight positive net revenue is forecast for 2023, partly due to the Sandrini Solar project long-term contract start. The Board can adjust programs to better position the agency based on forecasts.

Ms. Harr described the Diablo Canyon nuclear power plant decommissioning's effects on generation rates and exit fees, and the expected high cost of replacing the plant's power generation with renewable energy and storage. Smaller nuclear power plant projects are being considered in the Pacific Northwest to help decarbonization efforts, however no new nuclear power plants can be built in California until a federally-mandated waste storage

location is established. Transmission line undergrounding in rural areas will increase transmission rates for both PG&E and CCA customers in northern California.

Ms. Harr reviewed RCEA's energy procurement, which is directed by the Board's goals and policies, regulatory compliance and price risk mitigation.

Resource adequacy (RA) program rules were originally put in place after the energy crisis in the early 2000's to ensure California had enough electricity generating capacity to meet demand at all times. These rules have changed over time. Most recently CPUC has assigned PG&E to be the central procurement entity (CPE) to purchase local RA for RCEA from 2023. This is a transitional step as the state overhauls the RA system. CPE's reduce both CCA control of RA costs and incentive to build resources in locally constrained parts of the grid. Both CCAs and investor-owned utilities are critical of the new CPE requirement.

Ms. Harr reviewed California's recent generation capacity history. Once-through cooling natural gas plants built in the early 2000s are being retired this decade along with the Diablo Canyon nuclear power plant, ushering in a new period of large-scale energy development. A total of 11.5 gigawatts of capacity, over 1/6 of California's total energy generation, needs to be built between 2023-2026. This new mid-term reliability capacity development must complement the large number of intermittent wind and solar energy projects built between 2005-2020. New state goals include building more smart renewables and storage resources, as well as increasing energy efficiency and accommodating more distributed energy resources. RCEA's obligation is to build 39 MW of new, non-fossil fuel resources under long-term contracts. Some of these new resources must be zero-emission and provide power between 5-10 p.m. daily, some resources must be storage that can discharge for 8 hours, and some resources must generate energy 80% of the time. The procurement will likely be expensive but will result in a much lower carbon-emitting grid.

Community Advisory Committee member Norman Bell inquired, as a member of the public, whether Humboldt Sawmill Company's 10-year contract met the new state requirements, whether offshore wind energy's intermittent generation precluded it from being included in RCEA's portfolio, and whether wave energy merited consideration. Staff responded that the biomass contract helped fulfil another state long-term renewable contract requirement but not the new mid-term reliability procurement requirements. Offshore wind energy meets RCEA's internal procurement goals and its capacity could potentially be increased to 80% with the addition of batteries. The state's new reliability procurement requirements favor geothermal energy, or like resources which can generate energy around the clock.

M/S: Losey, M. Wilson: Accept Energy Risk Management Quarterly Report.

The motion passed with a unanimous roll call vote. Ayes: Avis, Grover, Losey, Schaefer, M. Wilson, Woo. Noes: None. Absent: Bauer, Curran, F. Wilson. Abstentions: None.

Director Losey left the meeting at 4:52 p.m.

OLD BUSINESS

7.1. RePower Humboldt Strategic Plan Update (Information only)

Executive Director Marshall reported on the RePower Humboldt Strategic Plan's four focus areas.

In Transportation, the agency is adding new public electric vehicle (EV) charging network stations at the Arcata Community Center and at the airport. EV customer rebate applications are being submitted and RCEA was awarded a CEC medium and heavy duty zero emission vehicle infrastructure planning grant.

In Integrated Demand-Side Management, or Customer Programs, a space and water heating building electrification program is being launched and a program to utilize customer battery storage as a virtual power plant is being finalized with Swell Energy. This program will also increase grid capacity and help fulfill resource adequacy requirements. Staff is conducting customer battery storage and solar workshops relating to this program this month. Energy efficiency programs are ramping back up after a year of pandemic shelter-in-place measures.

In the Energy Generation arena, solar panels are being installed at the airport microgrid with the goal of beginning operation by the end of the year. The Sandrini and local feed-in tariff (FIT) solar projects are progressing. The Hatchery Road FIT projects completed the County planning process earlier this year and are anticipated to be online before the end of 2022. The innovative behind-the-meter customer-based reliability contract with Leap began providing resource adequacy in June and was featured in a Los Angeles Times article.

In Regional Planning and Coordination, the Regional Climate Action Plan public review draft is being analyzed by city staff and will be addressed by local jurisdiction councils and communities in the coming months. In the state budget, \$11 million was allocated for Humboldt Harbor infrastructure development as matching funds to support the Harbor District's \$56 million federal grant application for harbor infrastructure development. The funding demonstrates state support to the federal government. RCEA is working with the Humboldt Area Foundation and other partners to develop a local energy resiliency network made up of community organizations and stakeholders. The network will work to engage the broader community on energy resilience issues.

The directors praised staff for helping the Harbor District secure the state budget allocation and noted how the federal government is focusing on Humboldt County for offshore wind generation. There was no public comment for this agenda item.

7.2. Racial Justice Plan

Customer Services Manager Mahayla Slackerelli gave a progress report on the agency's Racial Justice Plan. Internally, equity actions have been added to job descriptions and staff equity trainings have been added to staff work plans. RCEA has joined the Government Alliance on Race and Equity to gain access to staff training materials. Recruitment will include skills testing and bias training for hiring committee members. Staff demographic surveys will be conducted to track progress.

Externally, agency staff leadership will pursue more formalized relations with local Tribes through the Tribal Chairmen's Association and participate in outreach activities in Hoopa Valley. Staff will gather demographic data on people currently served through RCEA

programs to aid with program selection, design, and implementation. Staff is also sharing information on agency initiatives with CalCCA Environmental Justice Committee and the California Energy Efficiency Coordinating Committee Equity Metrics Working Group, which advises the CPUC on equity issues.

Staff requested that the ad hoc Racial Justice Plan Board Subcommittee continue through 2022 so it can participate in the first phase of the plan's implementation. The Board supported this subcommittee change and suggested modifying the subcommittee composition at a future meeting as the Board's membership changes.

Board members thanked Ms. Slackerelli for her work on the plan and expressed pride to be part of an agency that values this equity work. No member of the public commented.

M/S: M. Wilson, Grover: Accept Racial Justice Plan progress report and to continue the ad hoc Racial Justice Subcommittee through 2022.

The motion passed with a unanimous roll call vote. Ayes: Avis, Grover, Schaefer, M. Wilson, Woo. Noes: None. Absent: Bauer, Curran, Losey, F. Wilson. Abstentions: None.

STAFF REPORTS

9.1. Update by Executive Director Matthew Marshall on the Offshore Wind Project

Executive Director Marshall described the upcoming federal Bureau of Ocean Energy Management combined Humboldt and Central Coast offshore wind lease auction in mid-2022 following an environmental review of the auction process. Multiple, separate leases will be awarded at the same time and developers are usually allowed to win only one lease. The in-depth environmental review of an actual proposed wind project takes place after lease areas have been awarded. There was no public comment on this agenda item.

FUTURE AGENDA ITEMS

There was a request for a briefing on new nuclear energy technology from a knowledgeable source and creating an opportunity for a change in Board membership on the ad hoc Racial Equity Subcommittee when more Board members are in attendance.

CLOSED SESSION

The Directors agreed to postpone closed session discussion regarding the current real estate search until August.

Chair Woo adjourned the meeting at 5:30 p.m.

Lori Taketa
Clerk of the Board



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**Redwood Region Economic Development Commission
 REGULAR MEETING OF THE BOARD OF DIRECTORS**

Via Zoom <https://us02web.zoom.us/j/82981491623?pwd=MTllcTI1OHR3SXZCc01LQUxUNUIYdz09>
 or by phone: call in +1 669 900 6833
 Meeting ID: 829 8149 1623/ Passcode: 232473

**August 23, 2021 at 6:30 pm PT
 AGENDA**

- I. **Call to Order**
- II. **Approval of Agenda**
 - A. Approval of Agenda for August 23, 2021
- III. **Public Input for non-agenda items**
- IV. **Program – Humboldt State University Becoming a Polytechnic Institution –**
 Presentation by Jenn Capps, Provost & Vice President for Academic Affairs, HSU, followed by discussion with Tom Jackson, Jr., President, HSU, and Frank Whitlatch, Vice President & Executive Director, HSU Foundation
- V. **Consent Calendar**
 - A. Approval of Minutes of the Board of Directors Regular Meeting: June 28, 2021
 - B. Acceptance of Agency-wide Financial Reports: Year End FY 2020/21
- VI. **New Business None**
- VII. **Old Business None**
- VIII. **Reports – No Action Required**
 - A. Executive Director's Report
 - B. Loan Portfolio Quarterly Report: June 30, 2021
- IX. **Closed Session:**
 - A. **Discussion with Negotiator Gregg Foster, RREDC Executive Director** - pursuant to Government Code Section 54956.8 regarding 520 E St. Facility Lease Renewal with Ron Pileggi
- X. **Member Reports**
- XI. **Agenda/Program Requests for future Board of Directors Meetings**
- XII. **Adjourn**

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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