

# FORESTHILL PUBLIC UTILITY DISTRICT

## AGENDA

### Special Business Meeting of FORESTHILL PUBLIC UTILITY DISTRICT BOARD OF DIRECTORS

Pursuant to the Governor's Executive Order N-08-21 the meeting will be held via teleconference.

[www.foresthillpud.com](http://www.foresthillpud.com)

<b>Wednesday</b>	<b>September 8, 2021</b>	<b>3:00 P.M.</b>
------------------	--------------------------	------------------

Join Zoom Meeting: <https://us06web.zoom.us/j/84672684439>

Meeting ID: 846 7268 4439

Dial by your location: 669 900 6833 or 408 638 0968

Find your local number: <https://us06web.zoom.us/j/84672684439>

#### **A. CALL TO ORDER: 3:00 PM**

#### **B. OPEN SESSION - ROLL CALL (3 minutes):**

- \_\_\_\_\_ President Mark Bell
- \_\_\_\_\_ Vice President Patty Wade
- \_\_\_\_\_ Director Jane Stahler
- \_\_\_\_\_ Director Robert Palmeri
- \_\_\_\_\_ Director Tyler Hunter

#### **C. PUBLIC COMMENT: (20 minutes)**

- This is the time for the Board to hear from the public. We welcome and encourage your comments as the Board takes them into consideration in our deliberations.
- Speakers are limited to a maximum of three minutes.
- The Board may not respond to, discuss, or engage in any type of dialog regarding any public comment, however the President may direct questions to staff for a later response or future consideration by the Board.
- Appropriate and respectful language and behavior is vital to the functioning of a public meeting. We ask Board, staff, and members of the public to speak courteously and respectfully. Therefore, the Board prohibits disruptive behavior.

#### **D. CLOSED SESSION: (1 hour)**

1. Conference with Legal Counsel — Existing Litigation Subdivision (a) of Government Code Section 54956.9. Name of Case: Miner's Camp vs. Foresthill Public Utility District
2. Conference with legal counsel – Anticipated litigation – pursuant to subdivision (b) of Section 54956.9 of the Government Code. Potential cases: two

#### **E. OPEN SESSION - (Starting at 6:00 PM):**

#### **F. ANNOUNCEMENT FROM CLOSED SESSION (5 minutes)**

**G. PUBLIC COMMENT: (20 minutes)**

- This is the time for the Board to hear from the public. We welcome and encourage your comments as the Board takes them into consideration in our deliberations.
- Speakers are limited to a maximum of three minutes.
- The Board may not respond to, discuss, or engage in any type of dialog regarding any public comment, however the President may direct questions to staff for a later response or future consideration by the Board.
- Appropriate and respectful language and behavior is vital to the functioning of a public meeting. We ask Board, staff, and members of the public to speak courteously and respectfully. Therefore, the Board prohibits disruptive behavior.

**H. CONSENT AGENDA: (5 minutes)** All items listed under the Consent Agenda are considered to be routine in nature and may be approved by one motion.

1. Minutes of the August 11, 2021 Special Meeting
2. Cash Disbursements Register, July 2021
3. Statement of Net Position, July 2021
4. Statement of Activity Budget vs. Actual, July 2021
5. Investment Policy Compliance, July 2021
6. Quality Analysis Report, July 2021
7. Activity Detail July 2021
8. Portfolio Graphically Presented, July 2021

**I. ACTION ITEMS: (30 minutes)**

1. Consideration of revised proposal from Blackburn Consulting to produce a Drilling Program Plan and to replace the hydraulic piezometers at Sugar Pine Dam for an amount not to exceed \$83,288  
Recommended Action: Approve revised proposal and direct staff to execute a contract with Blackburn Consulting to produce a Drilling Program Plan and to replace the hydraulic piezometers at Sugar Pine Dam for an amount not to exceed \$83,288. Staff also recommends the Board authorize the use of Repair and Replacement funds for the project  
Public comment:
2. Confirm the Sugar Pine Dam drilling program and replacement of piezometers is categorically exempt from the California Environmental Quality Act pursuant to CEQA Guidelines, §15302 (c), Class 2  
Recommended Action: Confirm the project is categorically exempt from the California Environmental Quality Act  
Public comment:
3. Consider proposal from Western Hydrologics to provide technical support for the completion of the Environmental Impact Report(EIR)/Environmental Impact Statement (EIS) for the Sugar Pine Project: Water Right Permit 15375 for an amount not to exceed \$2,050  
Recommended Action: Authorize staff to execute an agreement with Western Hydrologics to provide technical support to complete the EIR/EIS in an amount not to exceed \$2,050 and authorize the use of Repair and Replacement funds

Public comment:

4. Consider proposal from Rauch Communication Consultants, Inc. to continue community outreach program for approximately one year for a cost not to exceed \$13,000

Recommended Action: Authorize staff to execute agreement with Rauch Communication Consultants, Inc. in an amount not to exceed \$13,000

Public comment:

**J. DISCUSSION ITEMS: (20 minutes)**

1. General Manager Report
2. Remarks/reports by Directors

**K. ADJOURNMENT:**

In accordance with Government Code Section 54954.2(a) this notice and agenda were posted in the District's front window at the Foresthill Public Utility District office, 24540 Main Street, Foresthill, CA 95631 on or before 4:30 PM., September 2, 2021.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the General Manager at (530)367-2511. Notification 48 hours prior to the meeting will enable the District to make reasonable arrangements to ensure accessibility to this meeting.

---

Henry N. White, Board Clerk & Ex-Officio Secretary

# FORESTHILL PUBLIC UTILITY DISTRICT

## MINUTES

### Special Business Meeting of FORESTHILL PUBLIC UTILITY DISTRICT BOARD OF DIRECTORS

Pursuant to the Governor's Executive Order N-08-21 the meeting will be held via teleconference.

[www.foresthillpud.com](http://www.foresthillpud.com)

<b>Wednesday</b>	<b>August 11, 2021</b>	<b>3:00 P.M.</b>
------------------	------------------------	------------------

Join Zoom Meeting: <https://us06web.zoom.us/j/89137125487> Meeting ID: 891 3712 5487

Dial in: 669 900 6833 or 408 638 0968

Find your local number: <https://us06web.zoom.us/j/89137125487>

**A. CALL TO ORDER: 3:00 PM** *President Bell called the meeting to order at 3:03 PM.*

**B. OPEN SESSION - ROLL CALL (3 minutes):**

_____ President Mark Bell	<b><i>Present</i></b>
_____ Vice President Patty Wade	<b><i>Present</i></b>
_____ Director Jane Stahler	<b><i>Present</i></b>
_____ Director Robert Palmeri	<b><i>Present</i></b>
_____ Director Tyler Hunter	<b><i>Present</i></b>

**C. PUBLIC COMMENT: (20 minutes)**

- This is the time for the Board to hear from the public. We welcome and encourage your comments as the Board takes them into consideration in our deliberations.
- Speakers are limited to a maximum of three minutes.
- The Board may not respond to, discuss, or engage in any type of dialog regarding any public comment, however the President may direct questions to staff for a later response or future consideration by the Board.
- Appropriate and respectful language and behavior is vital to the functioning of a public meeting. We ask Board, staff, and members of the public to speak courteously and respectfully. Therefore, the Board prohibits disruptive behavior.

*A public comment opportunity was provided. No public comment was received.*

**D. CLOSED SESSION: (1 hour)** *President Bell announced the board was going into closed session at 3:04 PM.*

1. Conference with Legal Counsel — Existing Litigation Subdivision (a) of Government Code Section 54956.9. Name of Case: Miner’s Camp vs. Foresthill Public Utility District
2. Conference with legal counsel – Anticipated litigation – pursuant to subdivision (b) of Section 54956.9 of the Government Code. Potential cases: One

**E. OPEN SESSION - (Starting at 6:00 PM):** *President Bell opened the meeting at 6:01 PM.*

**F. ANNOUNCEMENT FROM CLOSED SESSION (5 minutes)** *President Bell announced there was no reportable action taken during closed session.*

**G. PUBLIC COMMENT: (20 minutes)**

- This is the time for the Board to hear from the public. We welcome and encourage your comments as the Board takes them into consideration in our deliberations.
- Speakers are limited to a maximum of three minutes.
- The Board may not respond to, discuss, or engage in any type of dialog regarding any public comment, however the President may direct questions to staff for a later response or future consideration by the Board.
- Appropriate and respectful language and behavior is vital to the functioning of a public meeting. We ask Board, staff, and members of the public to speak courteously and respectfully. Therefore, the Board prohibits disruptive behavior.

*A public comment opportunity was provided. Public comment was received.*

**H. CONSENT AGENDA: (5 minutes)** All items listed under the Consent Agenda are considered to be routine in nature and may be approved by one motion.

1. Minutes of the June 2, 2021 Special Meeting
2. Minutes of the June 9, 2021 Special Meeting
3. Minutes of the July 14, 2021 Special Meeting
4. Minutes of the July 29, 2021 Public Hearing
5. Cash Disbursements Register, May & June 2021
6. Statement of Net Position, May & June 2021
7. Statement of Activity Budget vs. Actual, May & June 2021
8. Monthly and Year to Date Financial Activity Report, May 2021
9. Financial Activity by Fund May 2021
10. Investment Policy Compliance, May & June 2021
11. Quality Analysis Report, May & June 2021
12. Activity Detail May 2021
13. Portfolio Graphically Presented, May & June 2021

**Board Action:** *Director Stahler made a motion to approve the consent agenda. Director Hunter seconded the motion and it carried unanimously (5-0).*

**I. ACTION ITEMS: (30 minutes)**

1. Consider request by ECORP Consulting, Inc. to amend the contract for preparation of an Environmental Impact Report and Environmental Impact Statement for the extension of water right permit 15375 and the installation of radial gates at Sugar Pine Dam in an amount not to exceed \$65,000

**Recommended Action:** Approve request for amendment and authorize staff to execute appropriate documents

**Public comment:** *Public comment was received.*

**Board Action:** *Vice President Wade made a motion to approve the request for amendment and authorized staff to execute appropriate documents. Director Stahler seconded the motion and it carried unanimously (5-0).*

**J. DISCUSSION ITEMS: (20 minutes)**

1. General Manager Report
2. Remarks/reports by Directors

**K. ADJOURNMENT: *President Bell adjourned the meeting at 7:02 PM.***

Submitted by:

Attest:

---

---

Mark Bell, Board President

Henry N. White, Clerk and Ex-Officio Secretary

DRAFT

## Foresthill Public Utility District Cash Disbursements Register July 2021

Date	Num	Name	Memo	Paid Amount
<b>Jul 21</b>				
07/06/2021	32240	American Messaging	Monthly paging - July	-10.15
07/06/2021	32241	Aramark	Uniforms, floor mats	-730.61
07/06/2021	32242	Auburn Area Answering Service	Treatment plant warning message ...	-104.65
07/06/2021	32243	Bureau of Reclamation	Monthly reclamation fees	-3,136.65
07/06/2021	32244	CalPERS	Annual unfunded liability payment	-26,370.00
07/06/2021	32245	CheckPoint Screening	Pre-employment screening	-47.20
07/06/2021	32246	Daniel West	Monthly property maintenance	-110.00
07/06/2021	32247	Foresthill Garage, Inc.	Truck axle repair	-417.88
07/06/2021	32248	Inland Business Systems	Monthly copier maintenance	-172.88
07/06/2021	32249	JWS Promotions	Quarterly website maintenance	-300.00
07/06/2021	32250	Local Agency Formation Commission	Annual fee	-1,508.05
07/06/2021	32251	Mountain Counties Water Resources Assoc	VOID:	0.00
07/06/2021	32252	Pacific Gas & Electric	Electricity - pumping and street light	-361.32
07/06/2021	32253	Sebastian	Monthly phone bill	-667.00
07/06/2021	32254	Sierra Medical Partners	Employee DOT required medical s...	-160.00
07/06/2021	32255	Vision Quest Information Solutions, Inc.	Monthly computer maintenance co...	-1,280.57
07/12/2021	32256	Anderson' Sierra Pipe Co. Inc.	Tank and fittings	-67.81
07/12/2021	32257	Aqua-Metric Sales, Co.	6 ltron meters	-1,291.63
07/12/2021	32258	Foresthill Garage, Inc.	Axle repair	-208.17
07/12/2021	32259	Foresthill Valero	Monthly fuel purchases	-460.29
07/12/2021	32260	Gold Rush Chevrolet	Repair passenger seat sensor	-135.00
07/12/2021	32261	Grant Hardware, Inc.	Supplies	-114.31
07/12/2021	32262	HF&H Consultants, LLC	Cost of service study	-1,650.50
07/12/2021	32263	Infosend	Customer billing	-1,410.44
07/12/2021	32264	NTU Technologies, Inc.	Polymex	-3,108.00
07/12/2021	32265	Placer County , Personnel	Employee dental insurance - August	-860.00
07/12/2021	32266	Placer County Air Pollution Control Dist	Annual generator emissions permits	-809.52
07/12/2021	32267	Recology Auburn Placer	Monthly garbage collection	-63.24
07/12/2021	32268	Sierra Mini Mart, Inc.	June fuel purchases	-504.14
07/12/2021	32269	Thatcher Company, Inc.	Chlorine	-2,833.84
07/12/2021	32270	Western Hydrologics, LLP	Sugar Pine guaging	-1,280.83
07/12/2021	32271	Worton's Forsethill Grocery	Crew water	-35.95
07/12/2021	32272	Pacific Gas & Electric	Street light electricity	-5.69
07/12/2021	32273	Postmaster	200 Stamps	-110.00
07/12/2021	32274	Addelaide Poulos	Quarterly mileage	-68.32
07/12/2021	32275	Kalena Tackitt	Quarterly mileage	-30.24
07/12/2021	32276	Reanna Durham	Quarterly mileage	-29.12
07/19/2021	32277	Keenan & Associates	August health insurance	-13,250.40
07/19/2021	32278	MidAmerica Admin & Ret Solutions, Inc.	August retiree health insurance	-1,250.00
07/19/2021	32279	Robert Middleton	Reimburse parts purchase	-28.24
07/19/2021	32280	Thatcher Company, Inc.	chlorine	-3,555.94
07/19/2021	32281	USA Blue Book	Distribution parts, supplies	-2,374.33
07/19/2021	32282	Wells Fargo Bank	Vehicle repairs - upholstery work in...	-3,570.36
07/26/2021	32283	Jane Minor	Customer refund	-211.59
07/26/2021	32284	Roger Del Papa	Customer refund	-100.00
07/26/2021	32285	Western States Trail Foundation	Customer refund	-885.74
07/26/2021	32286	American Messaging	Monthly paging - August	-10.15
07/26/2021	32287	Cranmer Engineering, Inc.	Water testing	-446.50
07/26/2021	32288	Diamond Well Drilling Co	Water testing	-40.00
07/26/2021	32289	Mutual of Omaha	Employee life insurance	-581.25
07/26/2021	32290	Pacific Gas & Electric	Electricity - treatment plant and ad...	-2,238.03
07/26/2021	32291	Staples	Office supplies	-130.04
07/26/2021	32292	Verizon Wireless	On call cellular phone - July	-49.00
07/26/2021	32293	Vision Service Plan - (CA)	Employee vision insurance - august	-186.43
07/09/2021	20210710	CalPERS	Pepra employee retirement deposit	-5,059.64
07/09/2021	20210711	CalPERS	457 deposit	-1,149.35
07/09/2021	20210712	CalPERS	Pepra employee retirement deposit	-441.79
07/09/2021	20210713	EDD/State of CA	499-0064-0	-39.20
07/09/2021	20210714	EDD/State of CA	499-0064-0	-2,010.40
07/09/2021	20210715	EFTPS	94-6020935	-8,539.14
07/26/2021	20210720	CalPERS	Classic employee retirement deposit	-5,059.64
07/26/2021	20210721	CalPERS	457 deposit	-1,149.35
07/26/2021	20210722	CalPERS	Pepra employee retirement deposit	-441.79
07/26/2021	20210723	EDD/State of CA	499-0064-0	-39.20
07/26/2021	20210724	EDD/State of CA	499-0064-0	-2,018.79
07/26/2021	20210725	EFTPS	94-6020935	-8,685.60

**Foresthill Public Utility District  
Cash Disbursements Register  
July 2021**

---

Date	Num	Name	Memo	Paid Amount
Jul 21				<u><u>-113,995.89</u></u>



**Foresthill Public Utility District**  
**Statement of Net Position**  
 July 31, 2021

Item H3

**ASSETS**

**Current Assets**

**Checking/Savings**

10110 · Cash on Hand	250
10120 · Wells Fargo Checking	130,279
10510 · Local Agency Investment Fund	1,211,832
10512 · Umpqua Savings account	506,963
10519 · Wells Fargo Adv - Money Mrkt	(249,034)
10520 · Wells Fargo Adv - Face Value	4,080,000

**Total Checking/Savings** 5,680,289

**Accounts Receivable** 365,375

**Other Current Assets** 353,104

**Total Current Assets** 6,398,769

**Fixed Assets** 9,370,377

**Other Assets** 46,861

**TOTAL ASSETS** 15,816,006

**LIABILITIES & NET POSITION**

**Liabilities**

**Current Liabilities**

**Accounts Payable** 106,246

**Other Current Liabilities** 282,513

**Total Current Liabilities** 388,760

**Long Term Liabilities** 1,034,753

**Total Liabilities** 1,423,513

**Net Position** 14,392,494

**TOTAL LIABILITIES & NET POSITION** 15,816,006

**Foresthill Public Utility District**  
**Statement of Activity**  
**Budget vs. Actual**

Item H4

**For the Month Ended July 31, 2021**

	<u>July 31, 2021</u>	<u>Budget</u>	<u>Variance</u>
<b>Ordinary Income/Expense</b>			
<b>Income</b>			
41011 · SP Debt Svc assessment	17,938	17,917	21
41012 · R&R assessment revenue	45,563	45,667	(104)
41013 · Dist 2 Assist assessment	-	-	-
41014 · Gen Fund Reserve assessment	5,872	5,833	39
41100 · Residential	124,895	124,000	895
41105 · Residential Overage Charge	27,006	11,333	15,673
41150 · Multi Family Residential	18,411	18,600	(189)
41155 · Multi Family Overage Charge	260	1,700	(1,440)
41200 · Business	11,567	12,400	(833)
41205 · Business Overage Charge	7,319	1,133	6,186
42100 · Low Usage Credit	(2,866)	(3,750)	884
42300 · Meter Installation	-	500	(500)
49200 · Interest - LAIF	1,120		1,120
49220 · Portfolio Income	11,180	4,583	6,597
49251 · Interest - Umpqua Bank	4		4
49300 · Property Tax Revenues	-	9,333	(9,333)
49510 · Water Charges Penalties	-	833	(833)
49520 · Service Charges & Reconnect	2,442	1,250	1,192
49540 · System Rehab Revenue (\$4)	-		-
49910 · Miscellaneous Income	-	6,250	(6,250)
49930 · Grant Income	-	-	-
<b>Total Income</b>	<u>270,714</u>	<u>257,583</u>	<u>13,130</u>
<b>Expense</b>			
51000 · Wages & Salaries	59,377	71,295	11,917
52000 · Taxes & Benefits	70,083	65,840	(4,244)
53000 · Materials & Supplies	6,606	7,933	1,327
54000 · Equipment costs	642	3,417	2,775
55000 · Contracted services	8,599	9,966	1,367
55001 · Professional Fees	7,600	5,000	(2,600)
56000 · Resource development	8,651	5,352	(3,299)
57000 · Utilities	3,968	4,542	574
58000 · Regulatory and General	10,455	10,211	(244)
61000 · Capital Activities	15,471	35,000	19,529
62400 · Depreciation Expense	33,705	-	(33,705)
<b>Total Expense</b>	<u>225,157</u>	<u>218,555</u>	<u>(6,602)</u>
<b>Net Income</b>	<u><u>45,557</u></u>	<u><u>39,028</u></u>	<u><u>19,733</u></u>

**Foresthill Public Utility District**  
**Statement of Activity**  
**Budget vs. Actual**

**For the Month Ended July 31, 2021**

	<u>July 31, 2021</u>	<u>Budget</u>	<u>Variance</u>
<b>Expenditures by Department</b>			
Source of Supply	1,332	5,140	3,808
Pumping	1,390	3,482	2,092
Treatment	33,257	29,715	(3,542)
Distribution	26,462	34,301	7,839
Customer Service	42,382	40,381	(2,002)
Regulatory compliance	19,116	29,217	10,101
Management and Administration	52,042	27,115	(24,927)
Capital Activities	15,471	35,000	19,529
Debt Service*	-	14,205	14,205
Depreciation	33,705		(33,705)
Water Transfer	-		-
<b>Total Expense</b>	<u>225,157</u>	<u>218,555</u>	<u>(6,602)</u>

**Foresthill Public Utility District  
Investment Policy Compliance  
with Government Code Standards, and the Foresthill PUD Investment Plan Standards  
As of July 31, 2021**

**Current Portfolio Balance: \$ 5,867,060**

Ca Government Code Section 53601	Govt Code Maximum %	District Maximum %	District Actual %	Complies
Bonds issued by the District		100.00%	0.00%	Yes
Federal Treasury notes, bonds, bills	100.00%	100.00%	0.00%	Yes
State/local agency bonds, etc	100.00%	100.00%	32.26%	Yes
Federal Agency Bonds	100.00%	100.00%	0.00%	Yes
Negotiable certificates of Deposit	30.00%	30.00%	28.72%	Yes
Local Agencies Investment Fund	100.00%	100.00%	22.34%	Yes
Medium Term Corporate Notes	30.00%	30.00%	5.32%	Yes
Money Market Funds	15.00%	15.00%	-4.26%	Yes
Collateralized bank deposits	100.00%	100.00%	11.37%	Yes
Shares of Beneficial Interest	20.00%	15.00%	0.00%	Yes
Mortgage pass through security bonds	20.00%	20.00%	0.00%	Yes
<b>Total</b>			<b>95.74%</b>	

Balance by Maturity	Actual %	Actual \$
Range		
1 to 7 days	30%	1,701,672
8 to 180 days	3%	190,000
181 to 360 days	11%	595,982
1 to 2 years	7%	365,824
2 to 3 years	7%	365,613
3 to 4 years	16%	909,869
4 to 5 years	26%	1,488,101
Over 5 years	0%	
		<b>5,617,060</b>

Foresthill PUD  
Quality Analysis Report  
7/31/2021

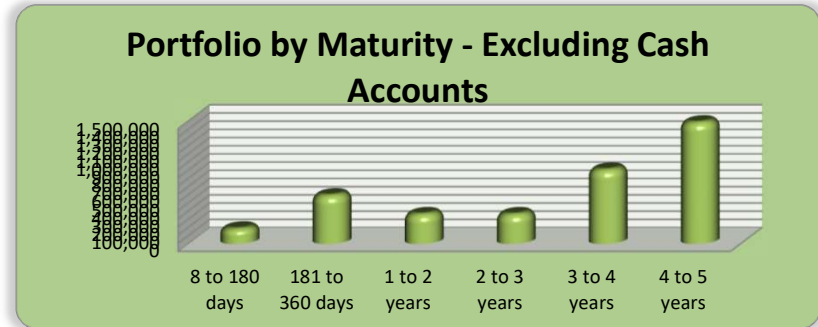
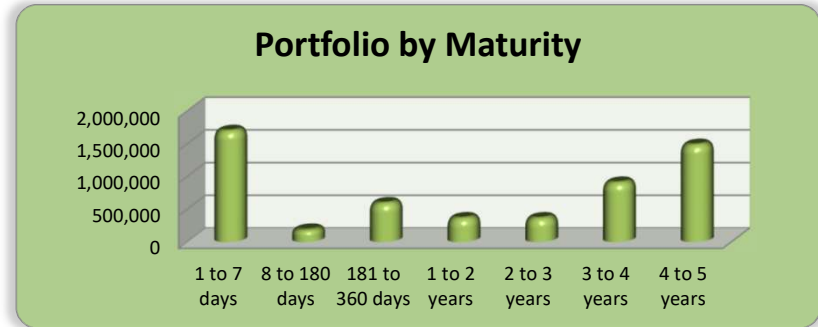
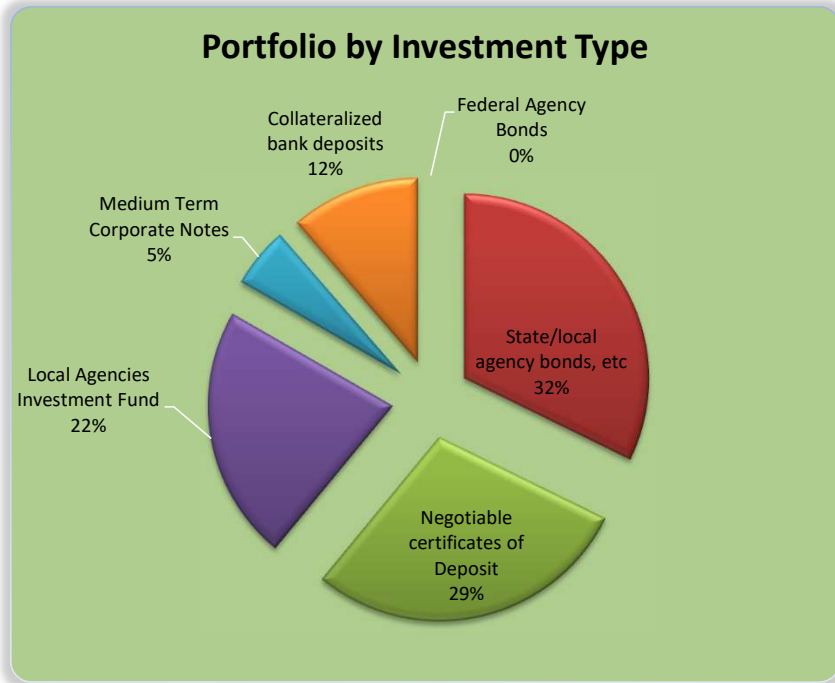
Item H6

Cusip	Rating	NAME	RATE	Trade Date	Settlement Date	Next Coupon	Maturity Date	Units	Discount or Premium	Book Value	Market Value	Unrealized Market Gain/Loss
<b>Cash Accounts</b>												
N/R		Wells Fargo Checking	0.100%					133,921.29		133,921.29	133,921.29	-
N/R		Umpqua Bank Savings	0.350%					506,958.31		506,958.31	506,958.31	-
N/R		Local Agency Investment Fund	0.800%					1,310,711.38		1,310,711.38	1,310,711.38	-
<b>Agency/Treasury Bonds</b>												
<b>Municipal Bonds</b>												
032556EZ1	AA+	Anaheim CA HSG	1.725%	6/25/2021	6/29/2021	10/1/2021	10/1/2025	25,000.00	768.00	25,768.00	25,975.00	207.00
032556G09	AA+	Anaheim CA HSG	1.791%	4/27/2020	4/29/2020	10/1/2021	10/1/2024	30,000.00	-	30,000.00	30,959.40	959.40
046558EU2	AA3	Atascadero CA USD	0.849%	3/4/2021	3/8/2021	8/1/2021	8/1/2025	10,000.00	-	10,000.00	9,983.10	(16.90)
120827DM9	A2	Bur Glen Pas Arpt Auth	5.000%	12/9/2020	12/11/2020	7/1/2021	7/1/2024	15,000.00	1,652.00	16,652.00	17,045.85	393.85
13048VLJ5	A1	California Muni Finance Authority	2.055%	7/9/2020	7/13/2020	10/1/2021	10/1/2024	25,000.00	-	25,000.00	25,720.00	720.00
13048VLK2	A1	California Muni Finance Authority San Die	2.148%	1/27/2021	1/29/2021	10/1/2021	10/1/2025	50,000.00	2,518.00	52,518.00	51,854.50	(663.50)
13048VQB7	AA-	California Muni Finance Authority	1.605%	6/26/2020	6/30/2020	11/1/2021	11/1/2023	50,000.00	-	50,000.00	50,784.00	784.00
130638FS6	AA-	State of CA General Obligation Bond	6.650%	2/5/2019	2/8/2019	9/1/2021	3/1/2022	20,000.00	-	20,000.00	20,760.20	760.20
13063DMA3	AA-	State of CA General Obligation Bond	2.650%	6/16/2021	6/18/2021	10/1/2021	4/1/2026	10,000.00	798.00	10,798.00	10,794.40	(3.60)
13077CT95	AA-	California State University	3.506%	3/4/2021	3/8/2021	11/1/2021	11/1/2025	10,000.00	1,060.00	11,060.00	11,137.90	77.90
139702BJ2	AA	Capistrano CA USD	2.800%	4/30/2020	5/4/2020	12/1/2021	12/1/2024	15,000.00	-	15,000.00	15,410.25	410.25
14574AAC8	AA-	Carson CA	1.823%	6/25/2021	6/29/2021	7/15/2021	1/15/2025	25,000.00	569.00	25,569.00	25,758.25	189.25
157411TL3	AA-	Chaffey CA USD	2.375%	6/16/2021	6/18/2021	8/1/2021	8/1/2025	35,000.00	2,149.00	37,149.00	37,018.10	(130.90)
206849FV8	AA3	Conejo Vly CA USD	1.049%	10/30/2020	11/19/2020	8/1/2021	8/1/2024	50,000.00	-	50,000.00	50,051.00	51.00
20775CDV3	AAA	Connecticut Housing finance	2.400%	6/29/2020	7/1/2020	11/15/2021	5/15/2024	30,000.00	1,050.00	31,050.00	31,283.10	233.10
34439TBC9	A+	Folsom, CA Redevelopment	2.250%	2/27/2019	3/1/2019	8/1/2021	8/1/2022	70,000.00	-	70,000.00	71,210.30	1,210.30
34439TBD7	A+	Folsom, CA Redevelopment	2.368%	5/7/2019	5/7/2019	8/1/2021	8/1/2023	30,000.00	-	30,000.00	30,947.10	947.10
420507CL7	AA	Hawthorne, CA	3.150%	12/9/2020	12/11/2020	8/1/2021	8/1/2024	10,000.00	-	10,000.00	10,492.10	492.10
420507CM5	AA	Hawthorne, CA	3.250%	9/16/2020	9/18/2020	8/1/2021	8/1/2025	15,000.00	-	15,000.00	15,869.10	869.10
451443F34	AA	Idaho Bldg Auth	2.365%	8/31/2020	9/2/2020	9/1/2021	9/1/2025	50,000.00	2,906.00	52,906.00	53,348.00	442.00
45568RCN0	AA	Industry, CA	3.250%	3/29/2018	4/3/2018	7/1/2021	1/1/2023	30,000.00	-	30,000.00	31,082.70	1,082.70
482092E22	AA+	Jarupa CA CSD	6.347%	1/11/2021	1/13/2021	9/1/2021	9/1/2025	25,000.00	5,250.00	30,250.00	30,320.50	70.50
542411GT4	AA	Long Beach CA	3.800%	12/9/2020	12/11/2020	8/1/2021	8/1/2024	10,000.00	873.00	10,873.00	10,965.70	92.70
544587Y36	AA-	Los Angeles CA	0.650%	9/30/2020	10/2/2020	11/1/2021	11/1/2023	100,000.00	-	100,000.00	100,028.00	28.00
54465AHS4	AA-	Los Angeles City/West Covina	3.125%	12/9/2020	12/11/2020	9/1/2021	9/1/2024	10,000.00	602.00	10,602.00	10,768.90	166.90
56052FF7F	AA+	Maine State Housing Fin	2.389%	6/29/2020	7/1/2020	11/15/2021	11/15/2024	25,000.00	812.00	25,812.00	26,336.50	524.50
56453RAX2	AA	Manteca, CA	1.738%	5/12/2020	5/14/2020	10/1/2021	10/1/2023	25,000.00	-	25,000.00	25,619.00	619.00
57604TAB2	AA+	Mass Trans Housing	5.203%	8/26/2020	8/28/2020	12/1/2021	6/1/2025	10,000.00	1,548.00	11,548.00	11,713.00	165.00
65820TXN9	AA2	North Carolina Housing	3.363%	3/29/2018	4/3/2018	7/1/2021	1/1/2022	20,000.00	-	20,000.00	20,219.20	219.20
677755GW3	AA+	Ohlone CA Cmty Coll	1.975%	3/4/2021	3/8/2021	8/1/2021	8/1/2025	10,000.00	-	10,000.00	10,496.50	496.50
695802MV7	A+	Pajaro Valley, CA	3.185%	2/26/2018	2/28/2018	8/1/2021	8/1/2022	45,000.00	-	45,000.00	46,208.70	1,208.70
713575TE8	AA-	Peralta Comm Coll Dist	6.909%	1/22/2021	1/26/2021	8/1/2021	8/1/2025	10,000.00	2,289.00	12,289.00	12,364.80	75.80
74138FAW9	AA	Perris, CA Redev	2.340%	11/18/2019	12/3/2019	10/1/2021	10/1/2024	140,000.00	604.00	140,604.00	143,507.00	2,903.00
77735AE7	AA	Rosedale Rio Bravo CA	1.217%	9/11/2020	10/6/2020	7/1/2021	1/1/2025	45,000.00	-	45,000.00	45,190.35	190.35
77781RCR2	AA	Roseville, CA Elec Sys	1.111%	3/23/2021	3/25/2021	8/1/2021	2/1/2026	35,000.00	-	35,000.00	34,806.10	(193.90)
777865BD7	AA	Roseville, CA	2.620%	1/27/2021	1/29/2021	9/1/2021	9/1/2025	20,000.00	1,246.00	21,246.00	21,343.80	97.80
786091AF5	AA	Sacramento City, CA Pen Ob	6.625%	8/26/2020	8/28/2020	8/1/2021	8/1/2024	20,000.00	3,367.00	23,367.00	23,424.40	57.40
79727LBS7	AA-	San Diego CA Convention Cent	1.677%	3/4/2021	3/8/2021	10/1/2021	4/15/2025	40,000.00	748.00	40,748.00	40,818.00	70.00
79729RLV4	AA-	San Diego CA Pub Fac Fin	3.331%	4/30/2020	5/4/2020	10/15/2021	10/15/2023	45,000.00	1,461.00	46,461.00	47,701.80	1,240.80
797689K2K	AA+	San Francisco CA BART Dist	2.208%	1/27/2021	1/29/2021	7/1/2021	7/1/2025	55,000.00	2,874.00	57,874.00	58,112.45	238.45
79770GG03	AA-	San Francisco CA Red	2.500%	4/30/2020	5/4/2020	8/1/2021	8/1/2023	20,000.00	-	20,000.00	20,838.80	838.80
79771FAY3	AA-	San Francisco CA PUC	0.843%	3/16/2021	3/18/2021	11/1/2021	11/1/2025	25,000.00	-	25,000.00	24,997.50	(2.50)
798136XU6	A-	San Jose Airport	1.209%	3/25/2021	4/7/2021	9/1/2021	3/1/2025	50,000.00	-	50,000.00	50,421.00	421.00
798136XV4	A-	San Jose Airport	1.359%	3/25/2021	4/7/2021	9/1/2021	3/1/2026	50,000.00	-	50,000.00	50,306.00	306.00
79876CBA5	AA-	San Marcos, CA	3.000%	3/29/2018	4/3/2018	10/1/2021	10/1/2021	25,000.00	-	25,000.00	25,110.00	110.00
79876CDB9	AA-	San Marcos, CA	3.866%	12/20/2019	12/24/2019	10/1/2021	10/1/2024	50,000.00	2,190.00	52,190.00	54,148.50	1,958.50
81888TAH6	AA	Shafter, CA	3.250%	6/4/2020	6/8/2020	11/1/2021	11/1/2024	25,000.00	1,273.00	26,273.00	26,849.00	576.00
81888TAJ2	AA	Shafter, CA	3.375%	2/5/2021	2/7/2021	11/1/2021	11/1/2025	25,000.00	2,064.00	27,064.00	27,313.50	249.50
820169DS6	AA3	Shasta CA JPA	3.000%	4/30/2020	5/4/2020	10/1/2021	4/1/2024	45,000.00	1,450.00	46,450.00	47,032.65	582.65
835376AR5	AA-	Somis, CA USD	1.344%	8/6/2020	8/10/2020	8/1/2021	8/1/2025	35,000.00	-	35,000.00	35,291.00	291.00
837586CLX1	AAA	South Dakota Housing	2.550%	3/29/2018	4/3/2018	11/1/2021	11/1/2021	10,000.00	-	10,000.00	10,000.70	0.70
91412CX03	AA	University of CA	3.359%	9/16/2020	9/18/2020	11/15/2021	5/15/2025	15,000.00	1,377.00	16,377.00	16,430.25	53.25
91412MHF0	AA	University of CA	0.933%	6/16/2021	6/18/2021	11/15/2021	5/15/2025	40,000.00	372.00	40,372.00	40,329.00	(32.80)
95236PEU0	A+	West Covina CA	3.918%	9/16/2020	9/18/2020	11/1/2021	5/1/2023	20,000.00	824.00	20,824.00	20,839.20	15.20
95236PGC8	A+	West Covina CA	2.318%	3/26/2021	3/30/2021	8/1/2021	8/1/2025	85,000.00	2,825.00	87,825.00	88,553.00	728.00
956134AQ3	A+	West Stanislaus CA IRR	1.280%	1/22/2021	1/26/2021	7/1/2021	1/1/2026	30,000.00	-	30,000.00	30,279.00	279.00
<b>Negotiable Certificates of Deposit</b>												
02007GHK2	CD	Ally Bank, UT	2.850%	2/4/2019	2/7/2019	10/7/2021	2/7/2022	130,000.00	-	130,000.00	131,879.80	1,879.80
02587CFU9	CD	American Express Bank FSB	2.400%	8/25/2017	8/26/2017	8/29/2021	8/29/2022	100,000.00	-	100,000.00	102,471.00	2,471.00
02587DN38	CD	American Express Centurion Bank	2.450%	3/27/2017	4/5/2017	10/5/2021	4/5/2022	25,000.00	-	25,000.00	25,407.25	407.25
02587DX29	CD	American Express Centurion Bank	2.350%	7/17/2019	7/19/2019	8/22/2021	2/22/2022	125,000.00	-	125,000.00	127,945.00	2,945.00
05600PCP3	CD	BMO Harris Bank	1.000%	3/23/2021	4/13/2021	7/13/2021	4/13/2026	100,000.00	-	100,000.00	100,191.00	191.00
066519QT9	CD	BankUnited	0.950%	3/23/2021	3/31/2021	8/30/2021	3/31/2026	100,000.00	-	100,000.00	100,076.00	76.00
140420D56	CD	Capital One Bank	1.600%	8/23/2016	8/31/2016	8/28/2021	8/31/2021	55,000.00	-	55,000.00	55,068.75	68.75
140420Z60	CD	Capital One Bank	2.400%	3/21/2017	3/29/2017	9/29/2021	3/29/2022	50,000.00	-	50,000.00	50,778.00	778.00
38149MXJ2	CD	Goldman Sachs Bank	1.000%	7/27/2021	8/4/2021	3/4/2022	8/4/2026	250,000.00	-	250,000.00	250,000.00	-
61768EAQ6	CD	Morgan Stanley Pvt Bank	1.800%	2/13/2020	2/20/2020	8/20/2021	2/20/2025	50,000.00	-	50,000.00	52,088.00	2,088.00
664760CA4	CD	Northern Bank and Trust	3.000%	5/17/2018	5/30/2018	11/30/2021	11/30/2021	100,000.00				

<u>Transaction Date</u>	<u>Quantity</u>	<u>Description</u>	<u>Price</u>	<u>Amount</u> <u>Int Purch/Sold</u>	<u>Premium/Gain</u> <u>(Discount)/(Loss)</u>
<b>Investment Portfolio - Wells Fargo Advisors</b>					
7/1/2021 Interest Received	375.00	Burbank Airport Authority 5.0% due 7/01/2024	1.000	375.00	
7/1/2021 Interest Received	273.83	Rosedale Rio Bravo CA Water Storage District 1.217% due 1/01/2023	1.000	273.83	
7/1/2021 Interest Received	487.50	Industry CA 3.25% due 1/01/2023	1.000	487.50	
7/1/2021 Interest Received	336.30	No. Carolina Housing Authority 3.363% due 1/01/2022	1.000	336.30	
7/1/2021 Interest Received	607.20	San Francisco BART Disrict 2.208% due 7/01/2025	1.000	607.20	
7/1/2021 Interest Received	170.67	West Stanislaus CA Irrigation District 1.28% due 1/01/2026	1.000	170.67	
7/6/2021 Interest Received	818.22	Sallie Mae Bank 3.3% due 7/03/2023	1.000	818.22	
7/13/2021 Interest Received	249.32	BMO Harris Bank 1.0% due 4/13/2026	1.000	249.32	
7/15/2021 Interest Received	227.88	Carson CA 1.823% due 1/15/2025	1.000	227.88	
7/15/2021 Interest Received	29.17	National Rurual Utilities Corp 1.0% due 9/15/2025	1.000	29.17	
7/19/2021 CD purchased	200,000.00	Sallie Mae Bank 1.0% due 7/21/2026	1.000	200,000.00	
7/21/2021 Transfer	196,346.83	From Wells Fargo checking to Wells Fargo Advisors money market	1.000	196,346.83	
7/22/2021 Interest Received	495.89	State Bank of India 2.0% due 1/22/2025	1.000	495.89	
7/22/2021 Interest Received	0.07	Wells Fargo Advisors Interest allocation	1.000	0.07	
7/23/2021 Interest Received	61.64	UBS Bank 0.75% due 6/23/2026	1.000	61.64	
7/27/2021 CD purchased	250,000.00	Goldman Sachs Bank 1.0% due 8/04/2026	1.000	250,000.00	
7/30/2021 Interest Received	80.68	BankUnited 0.95% due 3/31/2026	1.000	80.68	
<b>Local Agency Investment Fund</b>					
7/15/2021 Interest Received	1,120.33	From Local Agency Investment Fund	1.000	1,120.33	

7/20/2021 Transfer	100,000.00	To Wells Fargo checking from Local Agency Investment Fund	1.000	100,000.00
-----------------------	------------	--	-------	------------

Item H8





Item II

**To:** Board of Directors  
**From:** Henry N. White  
**Date:** September 1, 2021  
**Subject:** Revised Drilling Program Plan and installation of hydraulic piezometers

---

Blackburn Consulting submitted a Drilling Program Plan to replace the existing hydraulic piezometers in Sugar Pine Dam on July 2, 2021. The Board of Directors approved this plan on July 14, 2021 for an amount not to exceed \$37,834.

This plan was submitted to the California Division of Safety of Dams (DSOD) for approval. During their review, the DSOD provided comments substantially changing the proposed plan. The changes consisted of an additional bore, additional equipment and a revision to the boring method.

Blackburn Consulting submitted a revised Drilling Program Plan to accommodate the DSOD comments on August 26, 2021. The DSOD has reviewed the revised plan and indicate that it is acceptable. The revised plan cost is not to exceed \$83,288.

Funding for this project includes a grant through the Placer County Water Agency Financial Assistance Program for \$65,089. Staff proposes funding the balance with the Repair and Replacement Fund (\$18,199). There are sufficient funds in the Repair and Replacement Fund to complete the project.

File No.782.8  
August 26, 2021

Mr. Hank White, General Manager  
Foresthill Public Utility District  
P.O. Box 266  
Foresthill, CA 95631

Subject:           **PROPOSAL FOR DRILLING PROGRAM PLAN AND PIEZOMETER REPLACEMENT, REV 2**  
                    Sugar Pine Dam  
                    Placer County, California

Dear Mr. White:

Blackburn Consulting (Blackburn) prepared this revised proposal in response to DSOD comments to our June 25, 2021 Drilling Plan Program (DPP). Below we present a revised Project Description, Scope of Services, Fee and Schedule that reflects DSOD comments and our responses.

## **PROJECT DESCRIPTION**

The United States Bureau of Reclamation (USBR) constructed Sugar Pine Dam between 1979 and 1981, with first filling completed in February 1982. USBR installed a variety of instruments measuring groundwater levels, embankment settlement, and embankment movement during construction. Sugar Pine Dam is a zoned earthfill dam that consists of a central clay core and rockfill shell located approximately 7.6 miles north of Foresthill, California. In 2003, Foresthill Public Utility District (FPUD) purchased the dam from the USBR, and now operates the dam under the jurisdiction of California Division of Safety of Dams (DSOD). Blackburn provided an instrumentation report in 2006 that recommended monitoring only select hydraulic twin tube piezometers. DSOD concurred with these recommendations. FPUD has read the hydraulic twin tube piezometers monthly and Blackburn has completed annual instrumentation reports.

DSOD requires that the FPUD monitor the performance of the dam and submit yearly instrumentation reports. Blackburn prepared an initial instrumentation report in July of 2006 and annual reports for 2006 through 2020. As part of the conclusions in our reports, we state that the hydraulic twin tube piezometers installed in the dam during construction were reaching the end of their design life and new piezometers should be installed to provide accurate water level readings within the dam. Two piezometers are no longer functioning, and others show irregular readings.

Based on DSOD's response to our June 25, 2021 DPP, Blackburn now proposes to install four vibrating wire piezometers in two boreholes drilled in the core of the dam. The vibrating piezometers and seepage weir will become the primary instruments to monitor the seepage in the dam. The existing hydraulic twin tube piezometers will continue to be monitored for 6 months for reference purposes.

## SCOPE OF SERVICES

### **Task 1: Preparation of Drilling Program Plan (DPP) and DSOD Consultation (completed)**

Blackburn has completed a Drilling Program Plan (DPP) for the installation of the new piezometers. The DPP included:

- The number and location of the new piezometers.
- General description of the methods that will be used to install the new piezometers.
- Description of the piezometer construction details.
- Plan and cross section showing the location of the proposed piezometers.
- Piezometer schematic.

The DPP was to FHPUD who forwarded it to DSOD for review and comment. DSOD returned comments and we addressed the DSOD comments in a revised DPP plan submitted to FHPUD. We are currently waiting for final DSOD approval.

### **Task 2: New Piezometer Installation (revised per DSOD comments on DPP)**

Blackburn will drill, log, and sample two soil borings through the crest of the dam and install two vibrating wire piezometers in each boring to maximum depths of approximately 140 and 175 feet. The vibrating piezometers will be installed at approximately 74 and 139 feet below ground surface in the 140-foot boring and 107 and 172 feet below ground surface in the 175-foot boring. The borings will be advanced using a Boart Longyear sonic drill rig (100C, 200C, 600C, or 600T) using 6-inch sonic methods.

Sonic drilling methods collect continuous samples. Blackburn's engineer/geologist will log the borings and note groundwater elevations. Drill cuttings and any fluids will be contained, collected, and disposed of off-site.

The vibrating wire piezometers will be attached to 1-inch pvc pipe. The pipe will be lowered to place the piezometers at the target elevations. The hole will be tremie grouted through the pvc pipe in accordance with the manufacturer's instruction. We will install a flush mount covers at the crest and install a data loggers to collect readings.

The borings will require minor traffic control. We will acquire a Placer County encroachment permit. We assume traffic control will consist of signs and cones and no flaggers will be required.

### **Task 3: Data Report**

We will prepare and submit a summary memorandum that will include:

- Project location map
- Site plan with boring locations
- Summary of subsurface conditions
- Discussion of groundwater conditions
- As-built schematics of piezometer construction

- Initial piezometer readings
- Report limitations

Groundwater levels in the piezometers will be monitored by the FPUD and included in future annual instrumentation reports. Please call if you have any questions on this proposal or require additional information.

### **Task 3: Data Logger Training**

We will meet with FPUD staff and provide:

- Documentation for the instruments
- Data logger instructions
- Assistance in installing and setting up appropriate software to download the data logger software on a FPUD laptop.
- One site visit to train district personnel to download data from the datalogger.

### **FEE AND SCHEDULE**

Blackburn will perform the tasks outlined above for the lump sum of \$83,288. Changes in the exploration scope increase the fee \$45,454 above our original fee. We attach our fee itemization and 2021 fee schedule for reference. We will not exceed this budget without a scope change and your written authorization.

The Drilling Program Plan (DPP) is awaiting final DSOD approval. We will complete the field exploration and piezometer installation within 4 weeks of receipt of all comments from DSOD and approval of the DPP. We will provide a final report within 2 weeks following the field exploration and piezometer installation.

Sincerely,

#### **BLACKBURN CONSULTING**



Nick Vasquez  
Project Geologist



Rob Pickard. P.G., C.E.G  
Senior Engineering Geologist

**Auburn Office:**  
 11521 Blocker Dr, Ste 110  
 Auburn, CA 95603  
 (530) 887-1494



**West Sacramento Office:**  
 (916) 375-8706  
**Fresno Office:**  
 (559) 438-8411

**REVISED FEE ITEMIZATION FOR GEOTECHNICAL REPORT, REV 2**  
**Sugar Pine Dam DPP and Piezometer Installation**  
**Foresthill Public Utility District**

August 26, 2021

File No. 782.8

TASK	ITEM	QUANTIT	RATE	UNIT	MULT.	ITEM COST	TASK SUBTOTAL
<b>TASK 1: Preparation of Drilling Program Plan (DPP) and DSOD Consultation</b>							
	Senior Principal	1	\$ 290	hour	1	\$ 290	
	Senior Project Manager	8	\$ 223	hour	1	\$ 1,784	
	Project Engineer/Geologist	12	\$ 162	hour	1	\$ 1,944	
						<b>Task 1</b>	<b>\$ 4,018</b>
<b>TASK 2: New Piezometer Installation</b>							
	Senior Project Manager	2	\$ 223	hour	1	\$ 446	
	Project Manager	63	\$ 198	hour	1	\$ 12,474	
	Drilling subcontractor	1	\$ 44,710	lump	1.2	\$ 53,652	
	VW Piezometers and Data Loggers	1	\$ 4,949	lump	1.2	\$ 5,939	
	Mileage	450	\$ 0.90	mile	1	\$ 405	
	Traffic Control	5	\$ 314.00	day	1	\$ 1,570	
						<b>Task 2</b>	<b>\$ 74,486</b>
<b>TASK 3: Data Report</b>							
	Principal	1	\$ 254	hour	1	\$ 254	
	Senior Project Manager	4	\$ 223	hour	1	\$ 892	
	Project Engineer/Geologist	10	\$ 162	hour	1	\$ 1,620	
	CAD/GIS	1	\$ 147	hour	1	\$ 147	
	Project Assistant	1	\$ 112	hour	1	\$ 112	
						<b>Task 3</b>	<b>\$ 3,025</b>
<b>TASK 3: Data Logger Training</b>							
	Project Manager	2	\$ 198	hour	1	\$ 396	
	Project Engineer/Geologist	8	\$ 162	hour	1	\$ 1,296	
	Mileage	75	\$ 0.90	mile	1	\$ 68	
							<b>\$ 1,760</b>
						<b>Total Estimated Fee Tasks 1 to 3</b>	<b>\$ 83,288</b>

**Auburn Main Office:**  
 11521 Blocker Drive, Suite 110  
 Auburn, CA 95603  
 (530) 887-1494, Fax (530) 887-1495

**West Sacramento Office:**  
 2491 Boatman Avenue  
 West Sacramento, CA 95691  
 (916) 375-8706, Fax (916) 375-8709



www.blackburnconsulting.com

**Fresno Office:**  
 4186 W. Swift Avenue, Suite 107  
 Fresno, CA 93722  
 (559) 438-8411, Alt. (559) 276-4246

## 2021 SCHEDULE OF FEES & SERVICES

Geotechnical ▪ Geo-Environmental ▪ Construction Services ▪ Forensics

### PROFESSIONAL HOURLY RATES:

Project Engineer/Geologist I	\$152	CAD/GIS	\$147
Project Engineer/Geologist II	\$162	Lab Aide	\$101
Senior Engineer/Geologist	\$177	Lab Manager	\$152
Project Manager	\$198	Field Services Manager	\$167
Senior Project Manager	\$223	Clerical	\$91
Principal	\$254	Project Assistant	\$112
Senior Principal	\$290	Administrative	\$135
Expert Testimony & Deposition	\$497	Senior Administrative	\$152

### SPECIAL INSPECTION PERSONNEL HOURLY RATES:

	Non-Prevailing Wage	Prevailing Wage
<b>Group 1</b>	\$142	\$195
<i>ASNT Level II-III, DSA Shotcrete, Lead Inspector, NICET Level IV</i>		
<b>Group 2</b>	\$142	\$190
<i>AWS-CWI, ICC Certified Structural Inspector, NICET Level III, Building/Construction Inspector, Shear Wall/Floor System Inspector</i>		
<b>Group 3</b>	\$122	\$175
<i>Soils/Asphalt, Earthwork Grading, Excavation and Backfill, NICET Level II</i>		

### MINIMUM BASIC CHARGES:

Outside Equipment & Services	Cost plus 20%
Vehicle Charge	\$8.00 per hour or \$0.90 per mile
Per Diem	Location specific, minimum \$160 per night
Technician Services	Charge includes time from office and return to office, minimum charge - 4 hours
Overtime	Over 8 hours: 1.5 x Hourly Rate Before 7:00am or after 4:00pm: 1.5 x Hourly Rate Rush Charge (less than 24 hours notice): 1.5 x Hourly Rate Saturday: 1.5 x Hourly Rate (minimum: 4 hr. increments) Sunday & Holiday: 2.0 x Hourly Rate (minimum: 4 hr increments)
Report Copies	4 Report copies provided
Additional Report Copies	\$100 for binding up to 50 pages, plus postage

### EQUIPMENT: *(personnel not included)*

Hand Sampling Equipment	\$284 / Day	Double Ring Infiltrometer Equipment	\$314 / Day
Nuclear Moisture/Density Testing	\$18 / Test	Level Survey Equipment	\$269 / Day
6" Sand Cone Testing	\$49 / Test	Pachometer	\$137 / Day
12" Sand Cone Testing	\$198 / Test	Rock Point Load Test Equipment	\$137 / Day
Coring Bit Charge	\$49 / Core	Roto Hammer	\$132 / Day
Coring Machine	\$274 / Day	Schmidt Hammer	\$112 / Day
Dynamic Cone Penetrometer	\$284 / Day	Torque Wrench	\$76 / Day
Electrical Resistivity Equipment	\$259 / Day	Seismic Refraction: 12 / 24 Channel	\$487 / Day
Generator	\$76 / Day	MASW Survey Equipment	\$487 / Day
Groundwater Level Indicator	\$71 / Day	Traffic Control/Safety	\$314 / Day
Inclinometer Survey Equipment	\$659 / Day	Concrete Vapor Emission Test Kit	\$41 / Ea
pH Test Strip Package	\$61 / Ea	Pull Testing Equipment	\$165 / Day

**Auburn Main Office:**

11521 Blocker Drive, Suite 110  
 Auburn, CA 95603  
 (530) 887-1494, Fax (530) 887-1495

**West Sacramento Office:**

2491 Boatman Avenue  
 West Sacramento, CA 95691  
 (916) 375-8706, Fax (916) 375-8709



www.blackburnconsulting.com

**Fresno Office:**

4186 W. Swift Avenue, Suite 107  
 Fresno, CA 93722  
 (559) 438-8411, Alt. (559) 276-4246

## 2021 LABORATORY FEE SCHEDULE

Geotechnical ▪ Geo-Environmental ▪ Construction Services ▪ Forensics

**Page 1 of 2**

SOIL CLASSIFICATION		
#200 Sieve Wash	ASTM D1140	\$127
Sieve Analysis to #200	ASTM D6913, CAL 202	\$196
Standard Hydrometer with Sieve Analysis	ASTM D422	\$385
Plasticity Index	ASTM D4318	\$279
Specific Gravity - Soils	AASHTO T100	\$122
Organic Matter	ASTM D2974	\$26
MOISTURE / DENSITY		
Moisture Content	ASTM D2216, CAL 226	\$46
Moisture/Density		\$86
SOIL COMPACTION		
Standard Proctor (4" or 6" mold)	ASTM D698	\$350
Modified Proctor (4" or 6" mold)	ASTM D1557	\$350
California Impact	CAL 216	\$350
Check Point (Standard or Modified)		\$162
VOLUME CHANGE		
One-Dimensional Consolidation (6 load increments, includes 2 time rate curves and 2 rebound decrements)	ASTM D2435	\$553
Additional Load or Rebound Decrement		\$39 / ea
Additional Time Rate Curves		\$120 / ea
Expansion Index	ASTM D4829	\$279
One-Dimensional Settlement Swell	ASTM D4546	\$248
STRENGTH		
Unconfined Compression	ASTM D2166	\$162
Compression, Rock <i>Prep &amp; Photos included</i>	ASTM D7012	\$188
Rock Point Load	ASTM D5731	\$76
California Bearing Ratio (CBR), with curve	ASTM D1883	\$862
California Bearing Ratio (CBR), without curve	ASTM D1883	\$517
Resistance Value	CAL 301	\$380
<b>Direct Shear: (per point)</b>		
Undisturbed	ASTM D3080	\$218
Remolded	ASTM D3080	\$279
<b>Triaxial Compression: (per point) Photos of failure upon request</b>		
Undrained, Unconsolidated w/out Pore Pressure	ASTM D2850	\$198
Consolidated, Undrained w/ Pore Pressure Measurements	ASTM D4767	\$573
Consolidated, Drained		\$821
Consolidated, Undrained, no Pore Pressure Measurements		\$324
Specimen Remolding		\$127

\* Client requests for rush testing require pre-approval and 20% surcharge.

<b>CORROSIVITY ANALYSIS</b>		
Corrosion Analysis Package	CAL 643, 417, 422	\$355
<i>Includes Soil Resistivity, Soil pH, Sulfates / Chlorides. Minimum size is 1,000 grams</i>		
pH	CTM643	\$46
Resistivity	CTM643	\$149
<b>PERMEABILITY</b>		
Flex-wall Permeability	ASTM D5084	
<i>Either Constant head or Falling Head / rising Tail Water. Method depends on soil type</i>		\$507
Each Additional Effective Stress		\$127
Specimen Remolding		\$127
<b>TREATED SOIL TESTS</b>		
% Lime for Stabilization - per point (%)	ASTM D6276	\$142
pH of Soil	CTM643	\$46
Modified Proctor	ASTM D1557	\$416
Unconfined Compression Test	ASTM D5102	\$233
One Dimensional Swell	ASTM D4546	\$233
<b>AGGREGATES</b>		
Bulk Specific Gravity - Course & Fine Aggregate	ASTM C127 & 128, CAL 206, 207	\$122
Coarse Durability	CAL 229	\$208
Fine Durability	CAL 229	\$208
Sand Equivalent	CAL 217, ASTM D2419	\$145
Cleanness Value	CAL 227	\$196
Moisture Content	CAL 226/370	\$112
Percent of Crushed Particles (per size fraction)	CAL 205	\$183
Fine Aggregate Angularity	AASHTO T304, Method A	\$183
Flat and Elongated Particles (per size)	AASHTO D 4791	\$183
Combined Grading 1" through no. 200	CAL 201/202	\$195
Bin Grading (First 2 Bins)	CAL 201/202	\$195
Each Bin Thereafter		\$76
LP-9 (RAP) Burn	LP-9, CT382	\$122
<b>ASPHALT</b>		
Bulk Specific Gravity - Compacted Hot Mix Asphalt	CAL 308	\$61
Theoretical Max Specific Gravity (Rice)	CAL 309	\$213
LTMD (Set of 5)	CAL 375	\$421
<b>Binder Content</b>		
Ignition Oven Correction Factor	CAL 382	\$360
Ignition Oven	CAL 382	\$213
Solvent	AASHTO T164	\$269
Stability (Set of 3)	CAL 366	\$375
<b>Void Content</b>		
With Stability and Rice	CAL 367	\$41
<b>CONCRETE &amp; MASONRY</b>		
Concrete Compression Test 6" x 12" or 4" x 8"	ASTM C39	\$41
Masonry or Grout Compression		\$59
Compression Test of Cored Concrete Spec. (per core)		\$132
Compression Test of Shotcrete Cores (per core)		\$166

**Other Tests Quoted Upon Request**

\* Client requests for rush testing require pre-approval and 20% surcharge.



File No. 782.8  
August 18, 2021

Mr. Hank White, General Manager  
Foresthill Public Utility District  
P.O. Box 266  
Foresthill, CA 95631

Subject: **DRILLING PROGRAM PLAN (DPP), REV 1**  
Sugar Pine Dam  
DSOD No. 2045-0  
Placer County, California

Dear Mr. White:

Blackburn Consulting (Blackburn) is pleased to submit this revised Drilling Program Plan (DPP) for Sugar Pine Dam, located in Placer County, California. Blackburn prepared this plan in accordance with California Division of Safety of Dams (DSOD) guidelines and in response to DSOD comments to our June 25, 2021 DPP.

Please call us if you have questions or require additional information.

Sincerely,

**BLACKBURN CONSULTING**



Rob Pickard, P.G., C.E.G.  
Senior Engineering Geologist



Haze Rodgers, P.E., G.E.  
Director of Geotechnical Services

Blackburn Consulting (Blackburn) prepared this revised Drilling Program Plan (DPP) for installation of new piezometers at Sugar Pine Dam. The new piezometers will replace aging hydraulic twin tube piezometers installed during construction.

The proposed piezometer replacement is planned to be performed in the late summer of 2021.

## **1. PURPOSE OF DRILLING PROGRAM**

Sugar Pine Dam is located in Placer County, California, approximately 8 miles (12.9 km) north of the town of Foresthill and approximately 22 miles (35.4 km) northeast of Auburn. The dam is situated in North Shirrtail Canyon, a short distance downstream from the confluence of the North Shirrtail and Forbes Creeks. The dam was constructed between 1979 and 1981 by the United States Bureau of Reclamation (USBR). Sugar Pine Dam is a zoned earthfill dam that consists of a central clay core and rockfill shell.

DSOD requires that the Foresthill PUD monitor the performance of the dam and submit yearly instrumentation reports. Blackburn prepared an initial instrumentation report in July of 2006 and annual reports for 2006 through 2020. As part of the conclusions in our reports, we state that the hydraulic twin tube piezometers installed in the dam during construction were reaching the end of their design life and new piezometers should be installed to provide accurate water level readings within the dam. Two piezometers are no longer functioning, and others show irregular readings.

Based on conversations with Alex Pires-Sturm of DSOD, Blackburn proposes to install four vibrating wire piezometers (installed in two borings) in the core of the dam. The vibrating wire piezometers and seepage weir will become the primary instruments to monitor the seepage in the dam. The existing hydraulic twin tube piezometers will continue to be monitored for 6 months for reference purposes. The instrumentation report for 2021/22 will compare historic hydraulic twin tube piezometer readings to the vibrating wire piezometer readings.

## **2. EXISTING INFORMATION**

Sugar Pine Dam is a zoned earthfill dam consisting of a central clay core and rockfill shells. The dam is 205 ft high, with crest length 594 ft, crest width 39.4 ft, and a storage capacity of 6,290 acre-feet. The USBR constructed the dam in 1979 to 1981, with first filling completed in February 1982.

A variety of instrumentation was installed during and immediately after construction to monitor the performance and stability of the foundation, embankment, and appurtenant structures. These instruments include the following:

- 30 hydraulic (twin-tube) piezometers
- 21 pneumatic piezometers
- 29 pneumatic total pressure cells
- 4 porous-tube piezometers
- 1 internal vertical movement (IVM) device

- 6 inclinometers
- 13 crest extensometer monuments
- 39 structural measurement points
- 20 embankment measurement points
- 2 multi-point borehole extensometers
- 1 V-notch weir seepage monitoring station

The USBR collected regular data on most of the instruments from 1982 through 1990. This data is summarized in a USBR report titled "Sugar Pine Dam Structural Behavior Report, Central Valley Project, Mid-Pacific Region", dated December 10, 1990.

Since 1990, The Foresthill PUD, as operator of the dam, has monitored the piezometers (hydraulic, pneumatic and porous-tube), total pressure cells, and seepage weir each quarter. The internal vertical movement device, inclinometer casing joints, and measurement points (including dam, spillway and outlet works points) were monitored in 1991 and every 5 years thereafter.

In 2003, the Foresthill PUD purchased the dam from the USBR, and the dam is now owned and operated by the PUD under the jurisdiction of DSOD.

Blackburn prepared an initial instrumentation report in July of 2006 and recommended continued monitoring of:

- Embankment Measuring Points
- Select Hydraulic Twin Tube Piezometers
- Seepage Weir
- Concrete Structures by visual inspection

DSOD approved our recommendations above. We provided Annual Instrumentation Reports for 2006-2020. Figures 1 and 2 show the location of the instruments that are currently monitored.

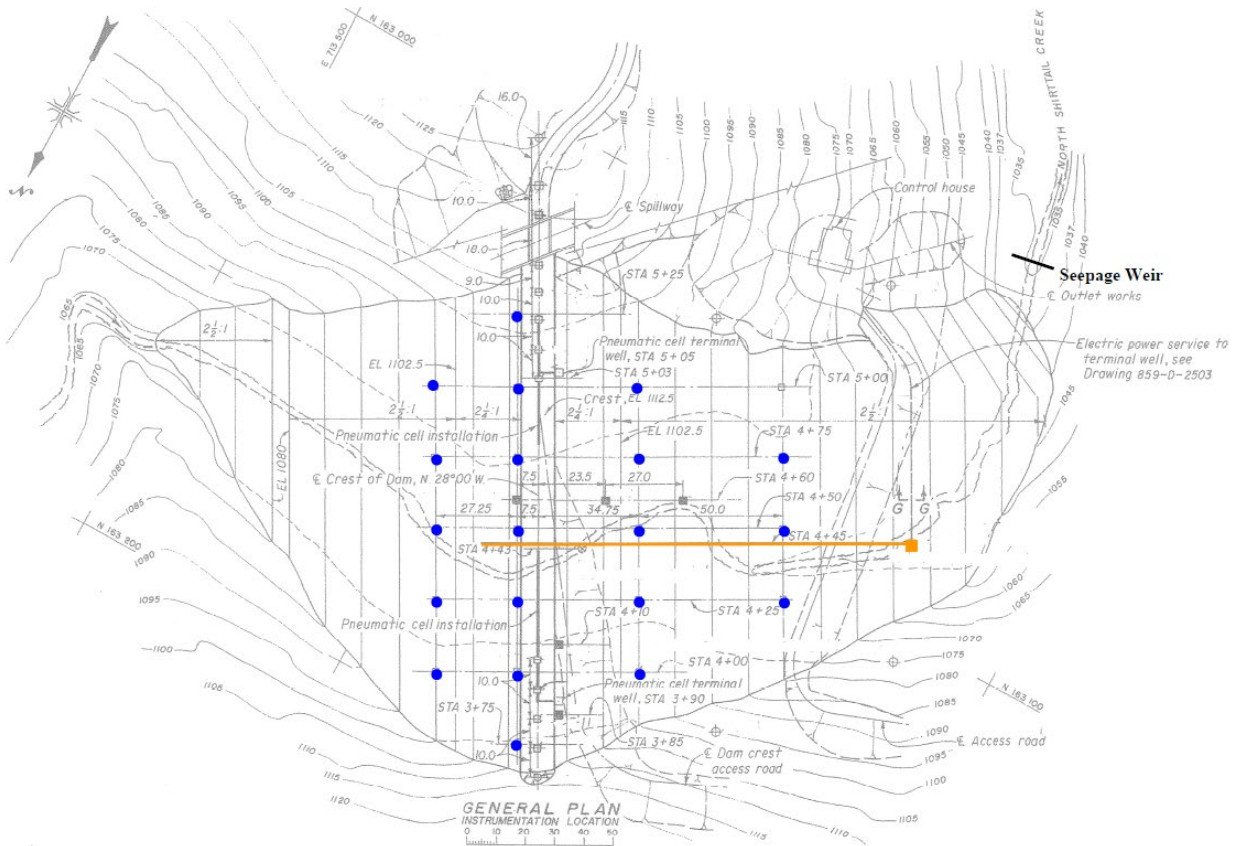


Figure 1: Plan view of locations of instruments currently monitored.

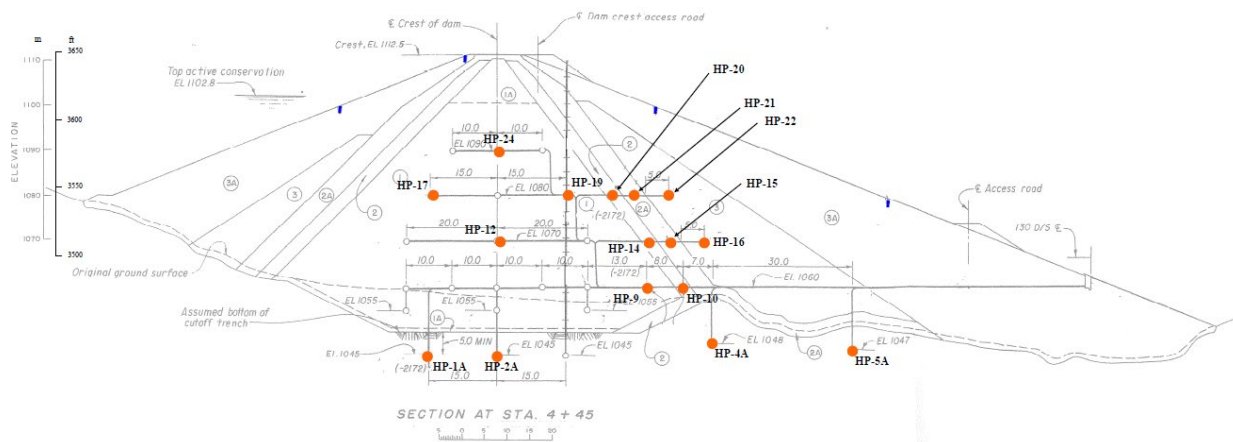


Figure 2: Cross section of locations of instruments currently monitored.

### 3. DRILLING SCOPE AND METHODOLOGY

The proposed piezometer installation plan includes drilling two soil borings through the crest of the dam and installation of 4 vibrating wire piezometers, 2 in each boring. We show the proposed vibrating wire piezometer location in plan and cross section in Figures 3 and 4.



Figure 3: Plan view of proposed boring through crest of dam.

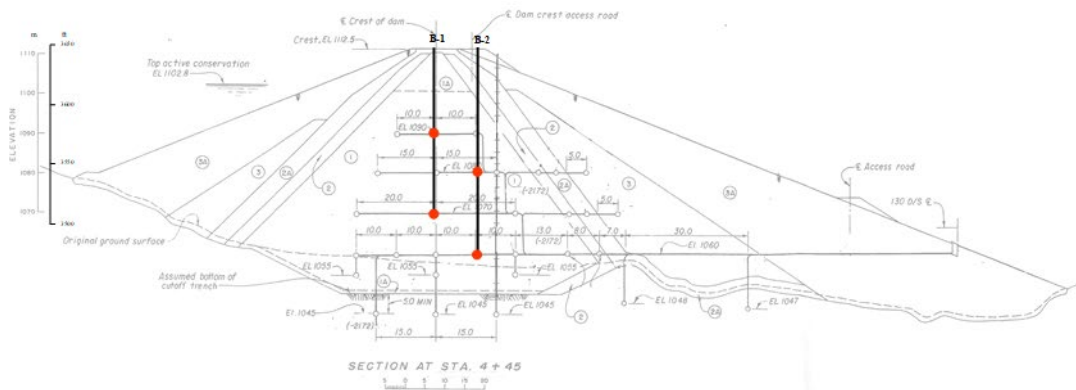


Figure 4: Cross section of proposed boring through crest of dam.

Table 1 shows the approximate boring and vibrating wire piezometer depths.

Boring Number (Location)	Number of Piezometers	Approximate Piezometer Depth/ Elevation (ft)	
		Depth	Top Elev.
B-1 (center of dam crest)	2	74	3575.9
		139	3510.9
B-2 (downstream side of centerline of dam crest)	2	107	3542.9
		172	3477.9

The borings will be advanced using a Boart Longyear sonic drill rig (100C, 200C, 600C, or 600T) using 6 inch sonic methods. Our current schedule for drilling is during the summer of 2021.

Sonic drilling methods collect continuous samples. Blackburn’s engineer/geologist will log the borings and note groundwater elevations. Drill cuttings and any fluids will be contained, collected, and disposed of off-site.

The vibrating wire piezometers will be attached to 1-inch pvc pipe. The pipe will be lowered to place the piezometers at the target elevations. The hole will be tremie grouted through the pvc pipe with 50 psi grout mixed in accordance with method “Installation C” from the manufacturer’s manual. We attach an excerpt from the manual in the Appendix A. We will install a flush mount, traffic rated covers at the crest. Appendix A shows a schematic of the piezometer construction details.

Based on historic measured piezometric levels measured in the dam we do not expect artesian conditions in the boring. The driller will have sand and bentonite chips on hand to respond to any unexpected artesian conditions.

### 3.1 Drilling Equipment and Personnel

The borings will be advanced using a Boart Longyear sonic drill rig (100C, 200C, 600C, or 600T). The drill rig is owned and operated by Cascade Drilling of West Sacramento, California.

Cascade has assigned Moises Roman to the job. His resume is attached in Appendix B.

The Geologists assigned to observe the drilling operations are Rob Pickard, P.G., C.E.G.; and Nicholas Vasquez, G.I.T., of Blackburn Consulting (Auburn, California) (resumes are attached in Appendix C). They will log the boring and monitor installation of the vibrating wire piezometers.

### 3.2 Subsurface Workplan Procedures to Minimize Impacts to the Structure

The borings will be advanced from the crest of the dam using sonic drilling methods. Sonic drilling does not use drilling fluid to advance the hole and will minimize the risk of excessive soil erosion. The sonic

drill stem will be left in place during installation of the piezometers and backfill. Based on the historic water levels within the core of the dam we do not anticipate artesian conditions.

### **3.3 Environmental Considerations**

Plastic sheeting will be placed in the boring to contain drill cuttings. Drill cuttings and any fluid will be collected and disposed of off-site.

### **3.4 Boring Backfill**

The boring will be backfilled with grout backfilled using tremie pipe pumped through the pvc pipe to within 3 feet of the sand or gravel filters. #3 sand will be placed to the top of the sand filter. Caltrans Class 2 permeable base will be used to backfill the gravel filter and rockfill zones to within approximately 1 foot of the ground surface.. The grout mix will be mixed in accordance with method "Installation C" from the attached manufacturer's manual and have a strength of approximately 50 psi. We attach an excerpt from the manual in the Appendix A. We will calculate the volume of the boring and record the approximate volume of grout used to backfill the boring. A traffic rated cover will be installed over the completed piezometers.

Drill cuttings will be drummed and disposed of off-site. If drill fluid is used the fluid displaced by the grouting process will be collected in the tub holding the fluid (discussed in Section 4.3), pumped into drums, and disposed of off-site.

## **4. FIELD LOGGING AND TESTING PROGRAM**

Soil logging will focus on soil classification of these materials. The boring will be logged in accordance with the USBR Engineering Geology Manual. Samples of the materials encountered will be collected for classification purposes. No laboratory tests are planned.

## **5. EMERGENCY PROCEDURES**

We do not expect emergency procedures will be required to prevent damage to the dam due to the use of sonic drilling methods and since historical data from the existing piezometers do not indicate artesian pressures. If artesian conditions are encountered when drilling the driller will stop/plug the seepage/artesian conditions using one of the following methods:

- Add lengths of casing to raise the casing elevation above the ground surface to decrease the pressure of the flow and in order to stop the flow with bentonite chips or a cement bentonite slurry poured/pumped down the casing.
- Pump a slurry consisting of either cement grout, or a sand cement grout mix (depending on flow volume and pressure) into the hole. Approximately 300 lbs of sand, 300 lbs of bentonite, and 300 lbs of fast setting cement (such as Quikrete 1240, Appendix D) will be supplied and on hand to mitigate artesian conditions.

We will then evaluate conditions and develop a strategy to seal the hole. The strategy will be dependent on the flow rate and pressure encountered.



We will notify DSOD's responsible representative if artesian conditions are encountered. If the above outlined measures do not seal the borehole, an alternate plan to seal the hole will be developed with DSOD input. The strategy will be dependent on the flow rate and pressure encountered and input from PG&E, FERC, and DSOD.

## **6. BOREHOLE COMPLETION**

We describe completion of the boring in Section 3.4 above.

## **7. PERSONNEL EXPERIENCE**

We outline personnel experience in Section 4 and attach resumes in Appendices A and B.

## **8. SITE ACCESS AND ENVIRONMENTAL CONSIDERATIONS**

Blackburn will drill the boring from existing paved Sugar Pine Road that crosses the crest of the dam. No impact to the ground surface is expected.

## **9. DOCUMENTATION AND COORDINATION**

Blackburn will prepare a data report that contains the results of the piezometer installation for review upon completion of the work. This report will include:

- Project location map
- Site plan with boring location
- Summary of subsurface conditions
- Discussion of groundwater conditions
- As-built schematics of piezometer construction
- Initial piezometer readings
- Report limitations

Groundwater levels in the piezometers will be monitored by the FPU and included in future instrumentation reports. Any significant changes that could adversely impact the dam will be communicated immediately with DSOD.



## **10. EVALUATION OF POTENTIAL RISKS**

The importance of the concept of “Do no harm” is considered paramount in drilling in earth embankment dams. The most significant concerns for this program include the possibility of excessive caving, hydrofracturing, and encountering artesian conditions while drilling. This DPP provides the means used to minimize and mitigate these risks. These include:

- Drilling with sonic drill methods.
- Having a materials on hand to seal the hole if artesian conditions are encountered.

Observation of ground water levels and any surface flows while drilling will be performed regularly. Materials will be available to contain drill cuttings and drilling fluids to ensure compliance with the applicable environmental requirements.

## **11. PRELIMINARY SCHEDULE**

Contingent upon DSOD approval of this DPP, Blackburn proposes to drill the boring in the Summer of 2021. Site mobilization, drilling, and piezometer installation is anticipated to take approximately five days. DSOD will be notified of the drilling schedule in advance of the work.

## **12. ATTACHED APPENDICES**

Appendix A- Vibrating Wire Piezometer Installation

Appendix B- Resumes of Drillers

Appendix C- Resume of Geologists

Appendix D- MSDS Data Sheets

# **DRILLING PROGRAM PLAN (DPP)**

**Sugar Pine Dam**

**DSOD No. 2045-0**

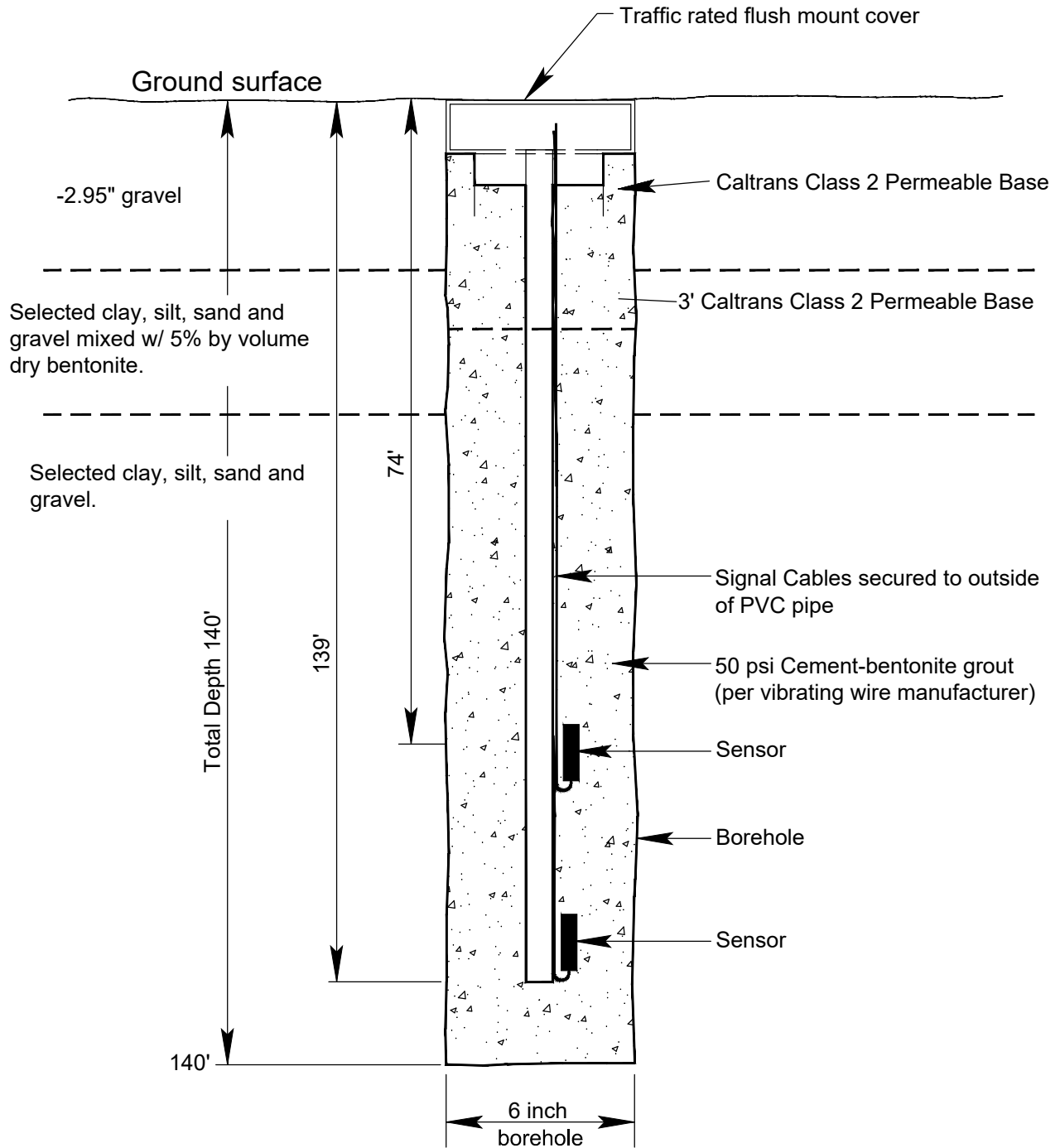
**Placer County, California**

**June 2021**

## **APPENDIX A**

**Vibrating Wire Piezometer Installation**

B1



Not to Scale

8/19/2021 782.8 Sugar Pine/VW Piezometers.dwg



**B1 VIBRATING WIRE PIEZOMETER SCHEMATIC**

Sugar Pine  
Placer County, California

File No. 782.8

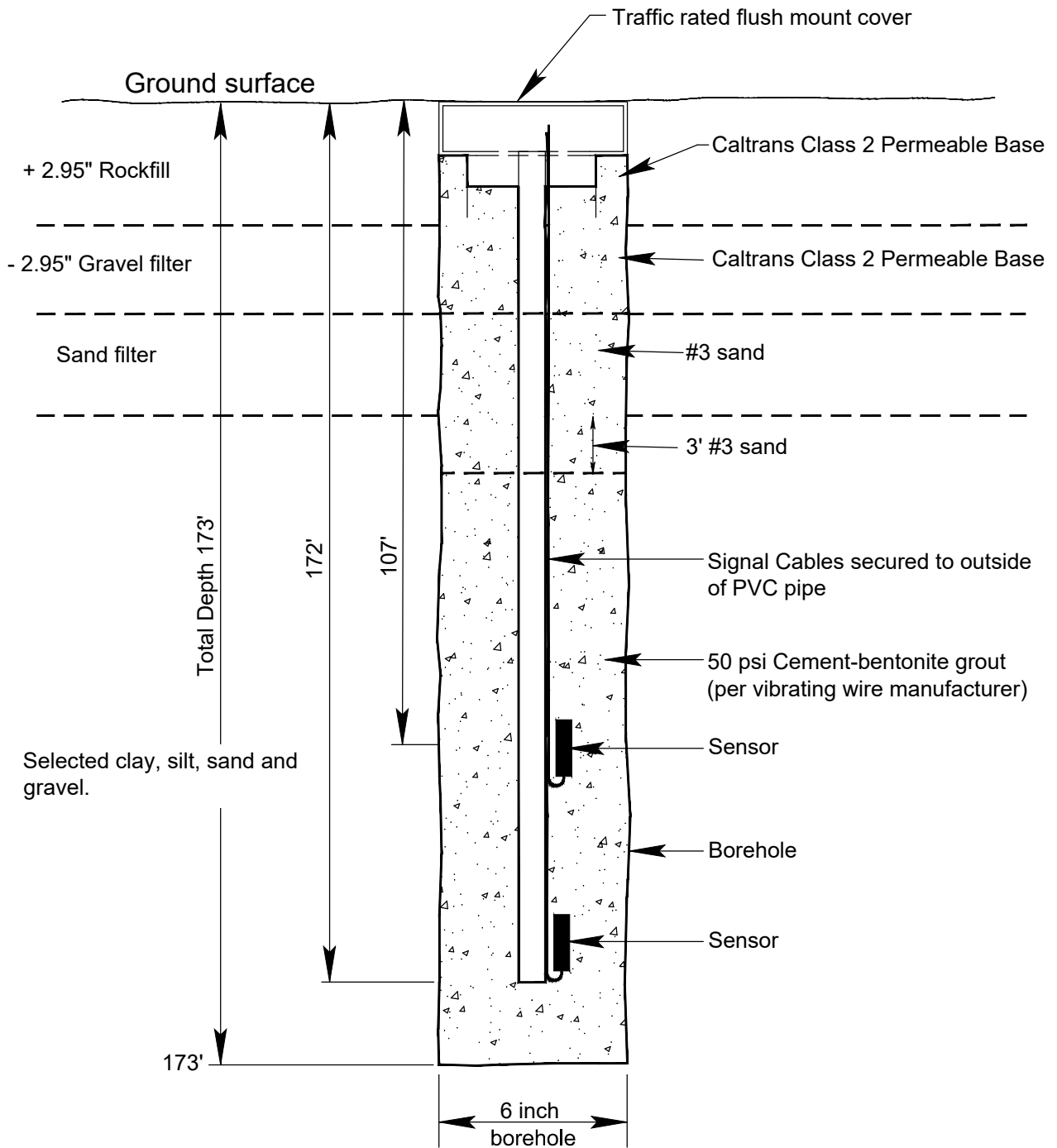
August 2021

Appendix

Page 39 of 69

2021 09 08 Special Board Packet.pdf

B2



Not to Scale

8/19/2021 782.8 Sugar Pine/VW Piezometers.dwg



### B2 VIBRATING WIRE PIEZOMETER SCHEMATIC

Sugar Pine  
Placer County, California

File No. 782.8

August 2021

Appendix

Page 36 of 69

## 4.2 Installation in Boreholes

Geokon piezometers can be installed in cased or uncased boreholes, in either single or multiple piezometer configurations. If pore pressures in a particular zone are to be monitored, careful attention must be paid to the borehole sealing technique.

The borehole should extend 6 to 12 inches below the proposed piezometer location. Boreholes should be drilled without using drilling mud, or by using a material that degrades rapidly with time, such as Revert™. Wash the borehole clean of drill cuttings. Backfill the borehole with clean fine sand to a point six inches below the desired piezometer tip location. The piezometer can then be lowered into position. (Preferably, the piezometer will be encapsulated in a canvas bag containing clean, saturated sand.) While holding the instrument in position, (a mark on the cable is helpful) fill the borehole with clean fine sand to a point six inches above the piezometer.

Three different methods of isolating the zone to be monitored are detailed below.

### Installation A:

Immediately above the area filled with clean fine sand, known as the “collection zone”, the borehole should be sealed by an impermeable bentonite cement grout mix, or with alternating layers of bentonite and sand backfill, tamped in place for approximately one foot, followed by common backfill. (See Figure 4.)

If multiple piezometers are to be used in a single hole, the bentonite and sand should be tamped in place below and above the upper piezometers, as well as at interval between the piezometer zones. When using tamping tools special care should be taken to ensure that the piezometer cable jackets are not cut during installation, as this could introduce a possible pressure leak in the cable.

### Installation B:

The borehole is filled from the “collection zone” upwards with an impermeable bentonite grout. (See Figure 4.)

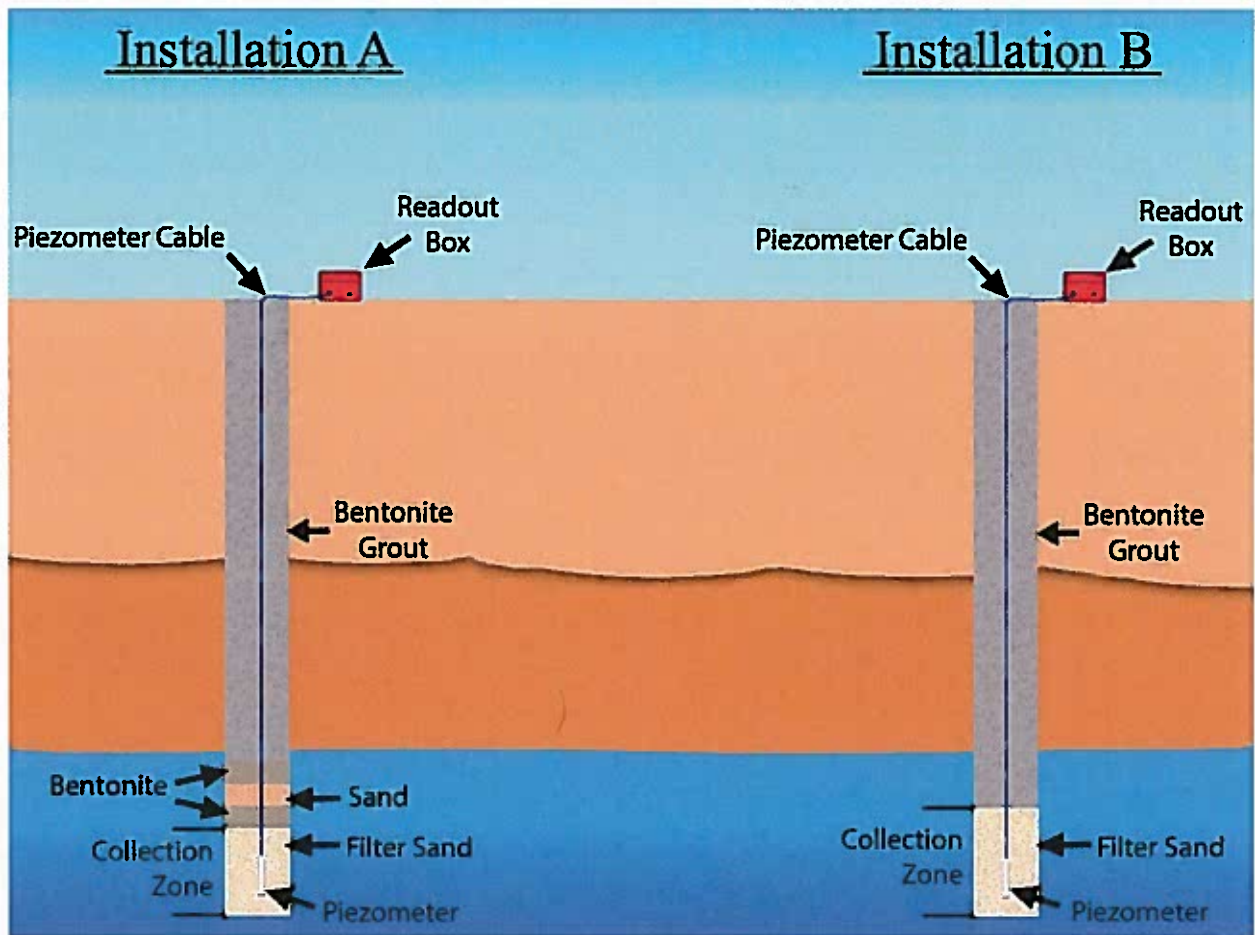


Figure 4 - Typical Borehole Installations

### Installation C:

It should be noted that since the vibrating wire piezometer is essentially a no flow instrument, collection zones of appreciable size are not required. The piezometer can be placed directly in contact with most materials, provided that the fines are not able to migrate through the filter. The latest thinking is that it is not necessary to provide sand zones and that the piezometer can be grouted directly into the borehole using a bentonite cement grout only. However, good results have been obtained by placing the piezometer inside a canvas bag filled with sand before grouting.

The general rule for installing piezometers in this way is to use a bentonite grout that mimics the strength of the surrounding soil. The emphasis should be on controlling the water to cement ratio. This is accomplished by *mixing the cement with the water first*. The most effective way of mixing the two substances is to use a drill rig pump to circulate the mix in a 50 to 200-gallon barrel or tub.

Any kind of bentonite powder combined with Type I or Type II Portland cement can be used to make drilling mud. The exact amount of bentonite needed will vary somewhat. Table 1 shows two possible mixes for strengths of 50 psi and 4 psi.

	<b>50 PSI Grout for Medium to Hard Soils</b>		<b>4 PSI Grout for Soft Soils</b>	
	<b>Amount</b>	<b>Ratio by Weight</b>	<b>Amount</b>	<b>Ratio by Weight</b>
<b>Water</b>	30 gallons	2.5	75 gallons	6.6
<b>Portland Cement</b>	94 lb. (one sack)	1	94 lb. (one sack)	1
<b>Bentonite</b>	25 lb. (as required)	0.3	39 lb. (as required)	0.4
<b>Note:</b>	The 28-day compressive strength of this mix is about 50 psi, similar to very stiff to hard clay. The modulus is about 10,000 psi		The 28-day strength of this mix is about 4 psi, similar to very soft clay.	

**Table 1 - Cement/Bentonite/Water ratios**

Add the measured amount of clean water to the barrel then gradually add the cement in the correct weight ratio. Slowly add the bentonite powder so that clumps do not form. Keep adding bentonite until the watery mix turns to an oily/slimy consistency. Let the grout thicken for 5 to 10 minutes. Add more bentonite as required until it is a smooth, thick cream, similar to pancake batter. It is now as heavy as it is feasible to pump.

When pumping grout (unless the tremie pipe is to be left in place,) withdraw the tremie pipe after each batch, by an amount corresponding to the grout level in the borehole.

**CAUTION! If the grout is pumped into the hole, rather than tremie piped, there is a danger that the piezometer will be overranged and damaged. Pumping directly into the bottom of the borehole should be avoided. It is good practice to read the piezometer while pumping.**

For more details on grouting, refer to "Piezometers in Fully Grouted Boreholes" by Mikkelson and Green, FMGM proceedings Oslo 2003. Copies are available from Geokon.

### **4.3 Installation in Fills and Embankments**

Geokon piezometers are normally supplied with direct burial cable suitable for placement in fills such as highway embankments and dams, both in the core and in the surrounding materials.

For installations in non-cohesive fill materials, the piezometer may be placed directly in the fill, or, if large aggregate sizes are present, in a saturated sand pocket in the fill. If installed in large aggregate, additional measures may be necessary to protect the cable from damage.

In fills such as impervious dam cores, where subatmospheric pore water pressure may need to be measured, (as opposed to the pore air pressure,) a ceramic tip with a high air entry value is often used. This type of filter should be carefully placed in direct contact with the compacted fill material. (See Figure 5).

Cables are normally installed inside shallow trenches with the fill material consisting of smaller size aggregate. This fill is carefully hand compacted around the cable. Bentonite plugs are placed at regular intervals to prevent migration of water along the cable path. In high traffic areas and in materials that exhibit pronounced "weaving", heavy-duty armored cable should be used.

# **DRILLING PROGRAM PLAN (DPP)**

**Sugar Pine Dam**

**DSOD No. 2045-0**

**Placer County, California**

**June 2021**

## **APPENDIX B**

**Resumes of Driller**



***Professional Experience***

Over eleven years of experience in the drilling industry including monitoring well construction, well abandonments, and deep well drilling.

2013 - Present      Cascade Drilling, LP. – West Sacramento, CA  
**Driller**

- Responsible for supervising on site
- Responsible for safety of others
- Completing jobs in a safe and timely manner
- Keeping drill rig and equipment in proper working condition

2009 – 2013      Boart Longyear – McCarren, NV  
**Driller**

- Responsible for supervising on site
- Responsible for safety of others
- Completing jobs in a safe and timely manner
- Keeping drill rig and equipment in proper working condition

2008-2009      Boart Longyear – McCarren, NV  
**Helper**

- Assisting driller
- Keeping tools and supplies organized and readily available
- Keeping equipment and tools clean and in working condition

**Project Experience**

**Anderson Dam – DWR -Full size track SONIC rig -2019**

- 9” borings up to 120’ on a barge on Anderson Lake

**Marysville Levee District – Full size truck rig - 2016**

- 6” borings to 40’

**Lake Oroville CA – DWR – Full size SONIC rig - 2016**

- Sonic drilling and hard rock coring with water down to depths of 60’

### **Pine Flat Dam, CA- Full size truck SONIC rig - 2017**

- Drilled 6" holes down to 100' to check for slope stability

### **Anderson Dam - Full size track SONIC rig - 2016**

- Drilled on barge, sonic 6" casing with rock coring

### **El Capitan Dam, CA – Full size track SONIC rig - 2015**

- Drilled 6" holes to 100' with SPT's

### **Gold/Copper Producing Mines, Nevada & Arizona - 2010-2015**

- Drilled full size track and truck sonic rig on various tails damn and holding dams. Set multiple styles of wells including monitoring/piezometers and inclinometers

### **Certifications**

- **OSHA 40 Health and Safety Training**
- **Smith System Defensive Driving**
- **OSHA 8 Supervisor Training**
- **CPR/First Aid Training**
- **Forklift Training**
- **Chevron & Exxon Loss Prevention System Training**
- **BP Safety Training**

# **DRILLING PROGRAM PLAN (DPP)**

**Sugar Pine Dam**

**DSOD No. 2045-0**

Placer County, California

June 2021

## **APPENDIX C**

Resume of Geologists



## Robert C. Pickard, PG, CEG

### Senior Engineering Geologist

With BCI Since 2005

#### Education

- *University of Nevada, Reno*  
*M.S. Geological*  
*Engineering, 2002*

#### Registrations

- *Professional Geologist, CA*  
*#7997*
- *Certified Engineering*  
*Geologist, CA #2508*

#### Affiliations

- *AEG - Association of*  
*Engineering Geologists*

Mr. Pickard is a Senior Engineering Geologist with Blackburn Consulting. He has a graduate degree from the University of Nevada, Reno in Geological Engineering and more than 17 years of experience in geotechnical/geologic engineering that include over 13 years of experience working on dams which includes 4 years of experience drilling in embankment dams. He has worked on a wide variety of projects including pipelines, dams, tanks, highways, and bridges throughout California and particularly in the Sierra Nevada Foothills. His experience includes subsurface investigation, soil, rock and groundwater analysis, excavatability, and slope stability studies.

### Representative Experience

#### **Scotts Flat Spillway Evaluation, Nevada Irrigation District** — Nevada County, CA — 2017-present

Senior Engineering Geologist for the evaluation of a 1940's dam spillway and uncontrolled gravity structure constructed in the 1960's which raised the reservoir level. Rob prepared a DPP that was reviewed and approved by DSOD and FERC. Significant concerns addressed in the DPP included contamination of underslab drainage with drill mud, hydrofracturing of underlying soils/rock (particularly near the gravity structure), and protection of the plunge pool from contamination. Rob performed the subsurface investigation and monitored fluid pressure, fluid loss during coring, grout volumes, and observed that all drilling activities were in accordance with the approved drill plan.

#### **Lost Creek Dam Modifications, South Feather Water and Power Agency** — Butte County, CA — 2007-2018

Rob served as Senior Engineering Geologist for design modifications of a concrete arch dam on a tributary to the South Fork of the Feather River in Butte County. The dam required spill and bridge deck modifications. The dam's new facing required retaining walls and approach modifications. Rob completed a field investigation which included exploratory angular drill holes through the base of the dam into underlying rock and installation of vibrating wire piezometers. Seepage pressures and volumes were closely monitored during drilling. Due to seepage pressures one boring had to be sealed with a mechanical packer and grouted. Two other piezometers were unable to be completely grouted due to the hydraulic pressure and required injection of a sealant. sealed with expanding polyurethane grout. He also performed seismic refraction, and geologic mapping. He also assisted in providing a geotechnical design report for the improvements. During construction of the facing, Rob provided inspection and approval of the foundation preparation prior to DSOD and FERC final inspection.

#### **Bell Canyon Dam, City of St. Helena** — Napa County, CA — 2007-2008

Project Engineering Geologist for geotechnical investigation that provided evaluation of seismic stability of an existing 95 ft. high, zoned earthfill dam, the major water source for the city of St. Helena. This investigation included drilling and sampling through the embankment using hollow stem auger and mud rotary methods and replacing old pneumatic piezometers. Rob supervised drilling methods and monitored drill fluid pressures to reduce risk of hydrofracturing. Rob also supervised installation vibrating wire and open-well piezometers in the embankment. Borings in the embankment were continuously sampled to assess embankment and foundation materials/conditions. Laboratory testing was performed to determine soil strength characteristics; evaluation of seismic ground motions; and stability analyses with recommendations for dam modifications to meet current DSOD requirements.

**Geotechnical**

**Geo-Environmental**

**Forensics**

**Construction Services**

**Sugar Pine Dam, Foresthill Public Utility District** — Placer County, CA — 2007-present

Project Engineering Geologist for preparation of an Initial Instrumentation Report for a 205 ft high, 6,920 acre-feet, zoned earthfill dam constructed by USBR in 1982. The dam is now owned by the Foresthill Public Utilities District under the jurisdiction of the state Division of Safety of Dams. The report includes an evaluation of all instrumentation, including embankment measuring points, concrete structures deformation; extensometers; inclinometers; rock slope deformation; twin-tube, pneumatic and porous-tube piezometers; seepage monitoring; and earth pressure monitoring. Recommendations included elimination of some instruments from future monitoring, and continued monitoring of other instruments for future performance evaluation. Prepared a DPP for replacement of piezometers.

**Auburn Dam Site Channel Reconstruction/Intake Facility, Bureau of Reclamation and Placer County Water Agency** — Auburn, CA — 2005-2007

Project Engineering Geologist for geologic investigations for reconstruction of the American River channel at the old Auburn Dam Site, a joint project between the Bureau of Reclamation and Placer County Water Agency. The project included reconstruction (grading, placement of riprap, and subsurface cutoffs) of approximately 1.5 mi of river channel, design and construction of new intake facilities, and closure of the dam diversion tunnel. Completed research of existing site documents, mapping and drilling for evaluation of geologic conditions, and prepared project reports. Recommendations were provided for foundation design, excavation and fill placement, construction of structures, rock slope stability, and rock bolting.

**Bear River Siphon, Nevada Irrigation District & Placer County Water Agency**

— Placer & Nevada Counties, CA — 2015-2018

Rob served as Senior Engineering Geologist for replacement of a suspension bridge approximately 70 to 90 ft above the Bear River. The new suspension bridge will be approximately 200 ft long and support a new 54-inch diameter siphon. Rob provided geologic mapping, managed subsurface exploration and laboratory testing program, performed rock slope stability analysis, and provided foundation recommendations. Rob provided geotechnical support during construction for foundation redesigns, unstable slopes, seepage, and soil nails and rock anchors.

**Lincoln Area Water Treatment Plant, Nevada Irrigation District** — Lincoln, CA — 2014

Project Engineering Geologist for pre-design geotechnical study for a regional project that includes 12 miles of new raw water pipeline, a new water treatment plant to deliver potable water to the City of Lincoln. The pipeline runs from the Combie Ophir Canal to the City of Lincoln. The project also included two off-stream reservoirs along tributaries to Coon Creek. The proposed dams are 85-110 ft high and will store 500-700 acre-ft of water. Each site is within a hard rock setting comprised of Mesozoic-age metavolcanic and metasedimentary rocks.

**UNIMIN Dams, UNIMIN Corporation** — Lone, CA — 2007-2008

Geotechnical investigation for design and construction of two new earth dams for containment of clay slurry from sand-pit mining operation. The projects include construction of a 35 ft. high, 600 ft. long dam set back from a 60 ft. high excavation pit, and a 30 ft. high, 2200 ft. long dam crossing an ephemeral drainage. Each dam is constructed with predominately claystone and under DSOD jurisdiction.



**With Blackburn  
Since 2021**

**Education**

- BS, Geology, California State University, Sacramento
- AS, Geology & Natural Science, Sierra College

**Registration**

- GIT #1269

**Geotechnical  
Geo-Environmental  
Forensics  
Construction Services**

**Nicholas Vasquez, GIT  
Project Geologist**



Nicholas Vasquez serves as a project geologist at Blackburn Consulting. His project experience includes roadways, pipelines, and schools. Nick has sampled and logged exploratory borings, characterized different types of soils and rock, and performed engineering analysis. He has a strong work ethic and a dedication to quality.

**Representative Experience**

**Folsom Lake Intake, Folsom, CA**

Project Geologist. Proposed raw water pump station improvements located on the south-eastern edge of Folsom Lake. Observed drilling, logged borings, and observed grout placement.

**Amports Antioch Vehicle Processing Facility, Antioch, CA**

Project Geologist. New vehicle processing building at the AMPORTS facility in Antioch, California. Observed drilling, logged borings, directed the sampling operations, and obtained soil samples. Assisted in preparing the draft geotechnical report.

**SR 99/120 Interchange, Austin Road Overhead (Replace) Structure, Manteca, CA**

Project Geologist. The Austin Road Overhead structure will replace the existing Austin Road Overcrossing that spans State Route 99. Performed field exploration, hand augered holes for infiltration testing, and prepared test pit logs.

**Tubbs Fire Home Rebuilds, Sonoma County, CA**

Project Geologist. Perform geotechnical investigations for residential homes affected by the 2017 Tubbs Fire in Sonoma County, California. Observed drilling, logged borings, directed the sampling operations, and obtained soil samples. Assisted in preparing the draft geotechnical report.

**AT&T Tower Tahoe Vista, Tahoe Vista, CA**

Project Geologist. New AT&T monopine cell tower in Tahoe Vista, CA. Observed drilling, logged borings, directed the sampling operations, and obtained soil and rock core samples. Assisted in preparing the draft geotechnical report.

**Canyon Dam Outlet, Plumas County, CA**

Project Geologist. The Canyon Dam is situated on the North Fork of the Feather River and forms Lake Almanor. Blackburn Consulting is providing geotechnical support during construction of the cut off wall. Prepared gINT logs and boring logs. Assisted in preparation of geotechnical data report.

**Hageman Road Extension Project – Bike Path Improvements, Bakersfield, CA**

Project Geologist. Prepared the ISA to identify hazardous and potentially hazardous materials issues that may significantly impact the project. Reviewed historical documents and previous environmental reports prepared by Blackburn.

**Montezuma Hills Facility, Rio Vista, CA**

Project Geologist. The Montezuma Hills Facility is a former Class I and II hazardous wastes facility. Perform Phase I and II environmental site assessments (ESA) to identify Recognized Environmental Conditions (RECs) and perform shallow soil sampling for analytical testing. Assisted in preparing the draft Phase I and II ESA reports.

# **DRILLING PROGRAM PLAN (DPP)**

**Sugar Pine Dam**

**DSOD No. 2045-0**

**Placer County, California**

**June 2021**

## **APPENDIX D**

**MSDS Data Sheets**

# QUIK-SETTING CEMENT

PRODUCT NO. 1240

**DIVISION 3**

Maintenance of Concrete  
03 01 00

## PRODUCT DESCRIPTION

QUIKRETE® Quick-Setting Cement is a Portland cement based formula specially formulated for making structural repairs to vertical and horizontal surfaces.

## PRODUCT USE

QUIKRETE® Quick-Setting Cement can be used anywhere that rapid setting is necessary, as it sets in approximately 10 minutes. Its unique properties allow the user to actually sculpt the material as it begins to harden. Quick-Setting Cement is used to repair:

- Concrete pipes, sewers and culverts
- Floors, steps and curbs
- Bridges and pavement
- Cold storage vaults and freezers
- Pre-stress panels
- Loading docks and tunnels
- Retaining walls
- Catch basins and septic tanks

## SIZES

- QUIKRETE® Quick-Setting Cement –
  - 50 lb (22.7 kg) bags or pails
  - 20 lb (9.1 kg) pails
  - 10 lb (4.5 kg) pails

## YIELD

- Each 50 lb (22.7 kg) bag of QUIKRETE® Quick- Setting Cement will yield 0.45 cu ft (13 L) of material.

## TECHNICAL DATA

### APPLICABLE STANDARDS

- ASTM International
- ASTM C109/C109M Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
  - ASTM C191 Standard Test Method for Time of Setting of Hydraulic Cement by Vicat Needle
  - ASTM C666 Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing
  - ASTM C672 Standard Test Method for Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals

### PHYSICAL/CHEMICAL PROPERTIES

Typical results obtained with Quick-Setting Cement when tested in accordance with the applicable ASTM standards are shown in Table 1. Additionally, Quick-Setting Cement can be built up to a thickness of 1" - 2" (25.4 - 51 mm) without sag on vertical surfaces.



**TABLE 1 TYPICAL PHYSICAL PROPERTIES**

Setting time, ASTM C191	
Initial set	5 - 10 minutes
Final set	10 - 20 minutes
Compressive strength, ASTM C109	
24 hours	3000 psi (20.7 MPa)
7 days	5000 psi (34.5 MPa)
28 days	6000 psi (41.3 MPa)
Post-freeze/thaw Compressive strength	6430 psi (44.3 MPa)
Scaling resistance, ASTM C672	Excellent

## INSTALLATION

### SURFACE PREPARATION

The surface to be repaired should be free of all foreign matter and loose materials. The bond will be enhanced if all smooth surfaces are roughened or etched. The application of QUIKRETE® Concrete Bonding Adhesive (#9902) to the area to be patched will further enhance bonding if the application is greater than 1" (25.4 mm) in thickness. QUIKRETE® Acrylic Fortifier (#8610) should be used with QUIKRETE® Quick-Setting Cement to enhance bond on applications less than 1" (25.4 mm) in thickness. After initial set, the material may be trimmed and shaped to match the existing contours of the patch area.

### MIXING

- Add 1 part water to 5 - 5 1/2 parts QUIKRETE® Quick-Setting Cement by volume. Reducing the water will hasten the set time.
- When using Acrylic Fortifier, replace 1/2 gal (1.9 L) of mixing water with Acrylic Fortifier per 50 lb (22.7 kg) bag. Add only enough water to get the proper consistency.



- Where large quantities of material may be used for deep patching, QUIKRETE® Quick-Setting Cement can be extended with up to 25 lb (11.4 kg) of 3/8" (9.5 mm) maximum size aggregate per 50 lb (22.7 kg) bag

**CURING**

Efficient damp curing is required for at least 48 hours.

**PRECAUTIONS**

- Mix no more than can be used in ~5 minutes
- During periods when temperatures are in the area of 40 degrees F (4 degrees C) or lower, precautions must be taken to prevent

freezing. Warm water should be used and insulation applied to protect the QUIKRETE® Quick-Setting Cement after placing. Hot weather conditions require cool water for mixing and steps to prevent rapid drying.

**WARRANTY**

NOTICE: Obtain the applicable LIMITED WARRANTY: at [www.quikrete.com/product-warranty](http://www.quikrete.com/product-warranty) or send a written request to The Quikrete Companies, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA. Manufactured under the authority of The Quikrete Companies, LLC. © 2018 Quikrete International, Inc.

*\* Refer to [www.quikrete.com](http://www.quikrete.com) for the most current technical data, SDS, and guide specifications  
Revised 08-15-18*

Item I2

**To:** Board of Directors  
**From:** Henry N. White  
**Date:** September 2, 2021  
**Subject:** Declare the Sugar Pine Dam Piezometer Replacement Project categorically exempt from the California Environmental Quality Act

---

The California Environmental Quality Act (CEQA) provides “exemptions” for certain projects. The exemption reduces effort for the lead agency to comply with environmental documentation requirements.

The Sugar Pine Dam Piezometer Replacement Project consists of replacing existing facilities that have substantially the same purpose as the existing facilities. This project is not likely to have impacts on the environment. Title 14 California Code of Regulation § 15302 (c), class 2 identifies these types of projects as categorically exempt from additional efforts to comply with CEQA.

Determining the project is categorically exempt completes the efforts necessary to comply with CEQA.

Filing a Notice of Exemption reduces the time period for legal challenges to the determination the project is exempt from CEQA. Staff recorded a Notice of Exemption for the Sugar Pine Dam Piezometer Replacement Project on August 23, 2021. This project has an extremely tight time line and the California Division of Safety of Dams requested a Notice of Exemption prior to reviewing the Drilling Program Plan to replace hydraulic piezometers in Sugar Pine Dam.

Staff recommends the Board of Directors ratify the declaration of the Sugar Pine Dam Piezometer Replacement Project as categorically exempt from CEQA and confirm the recording of a Notice of Exemption.

Notice of Exemption

Appendix E

To: Office of Planning and Research
P.O. Box 3044, Room 113
Sacramento, CA 95812-3044
County Clerk
County of: Placer
2854 Richardson Drive
Auburn, CA 95603

From: (Public Agency): Foresthill Public Utility District
P.O. Box 266
Foresthill, CA 95631
(Address)

Project Title: Sugar Pine Dam Piezometer Replacement Project

Project Applicant: Foresthill Public Utility District

Project Location - Specific:
Eight miles north east of Foresthill

Project Location - City: Foresthill Project Location - County: Placer

Description of Nature, Purpose and Beneficiaries of Project:
Replace piezometers installed within Sugar Pine Dam per the direction of the California Division of Safety of Dams in order to monitor the operation of the dam

Name of Public Agency Approving Project: Foresthill Public Utility District

Name of Person or Agency Carrying Out Project: Henry N. White, General Manager

- Exempt Status: (check one):
[ ] Ministerial (Sec. 21080(b)(1); 15268);
[ ] Declared Emergency (Sec. 21080(b)(3); 15269(a));
[ ] Emergency Project (Sec. 21080(b)(4); 15269(b)(c));
[X] Categorical Exemption. State type and section number: Class 2, Section 15302 (c)
[ ] Statutory Exemptions. State code number:

Reasons why project is exempt:
The project replaces existing facilities within the dam with equipment that performs the same function and will be located and will be located at the same site.

Lead Agency
Contact Person: Henry N. White, General Manager Area Code/Telephone/Extension: 530-367-2511

- If filed by applicant:
1. Attach certified document of exemption finding.
2. Has a Notice of Exemption been filed by the public agency approving the project? Yes No

Signature: [Handwritten Signature] Date: 8/23/2021 Title: General Manager

Signed by Lead Agency Signed by Applicant

Authority cited: Sections 21083 and 21110, Public Resources Code. Date Received for filing at OPR:
Reference: Sections 21108, 21152, and 21152.1, Public Resources Code.

POSTED AUG 23 2021
Through
RYAN RONCO, COUNTY CLERK
By [Handwritten Signature] Deputy Clerk

Handwritten: 4 21 - 201

State of California -- Department of Fish and Wildlife  
**2020 ENVIRONMENTAL FILING FEE CASH RECEIPT**  
 DFW 753.5a (Rev. 01/21)

RECEIPT#  <b>31-210201</b>
STATE CLEARING HOUSE# (if applicable)

SEE INSTRUCTIONS ON REVERSE. TYPE OR PRINT CLEARLY

LEAD AGENCY <b>FORESTHILL PUBLIC UTILITY DISTRICT</b>	DATE <b>08/23/2021</b>
--	---------------------------

COUNTY/STATE AGENCY OF FILING  
**PLACER COUNTY CLERK AUBURN**

PROJECT TITLE  
**SUGAR PINE DAM PIEZOMETER REPLACEMENT PROJECT**

PROJECT APPLICANT NAME <b>FORESTHILL PUBLIC UTILITY DISTRICT</b>	PHONE NUMBER <b>530-367-2511</b>
---	-------------------------------------

PROJECT APPLICANT ADDRESS <b>PO BOX 266</b>	CITY <b>FORESTHILL</b>	STATE <b>CA</b>	ZIP CODE <b>95631</b>
--	---------------------------	--------------------	--------------------------

PROJECT APPLICANT (Check appropriate box):

Local Public Agency    School District    Other Special District    State Agency    Private Entity

CHECK APPLICABLE FEES:

<input type="checkbox"/> Environmental Impact Report (EIR)	\$3,445.25	\$ _____
<input type="checkbox"/> Mitigated/Negative Declaration (MND) (ND)	\$2,480.25	\$ _____
<input type="checkbox"/> Application Fee Water Diversion <small>(State Water Resources Control Board Only)</small>	\$850.00	\$ _____
<input type="checkbox"/> Projects Subject to Certified Regulatory Programs (CRP)	\$1,171.25	\$ _____
<input checked="" type="checkbox"/> County Administrative Fee	\$50.00	\$ <u>50.00</u>
<input checked="" type="checkbox"/> Project that is exempt from fees		
<input checked="" type="checkbox"/> Notice of Exemption (attach)		
<input type="checkbox"/> DFG No Effect Determination (attach)		
<input type="checkbox"/> Other _____		\$ _____

PAYMENT METHOD:

Cash    Credit    Check    Other \_\_\_\_\_

TOTAL RECEIVED **\$50.00**

SIGNATURE <b>X C Wheeler</b>	TITLE <b>C. Wheeler, DEPUTY</b>
---------------------------------	------------------------------------

PROJECT APPLICANT COPY   CDFWASB COPY   LEAD AGENCY COPY   COUNTY CLERK COPY   FG 753.5a (Rev. 01/21)

Foresthill Public Utility District  
Hank White, General Manager  
P.O. Box 266  
Foresthill, CA 95631

August 26, 2021

**Subject: Proposal to provide Response to Comments on Draft EIR/EIS for Water Right Extension**

Dear Mr. White,

Western Hydrologics, L.L.P. (WHC) is pleased to present this proposal to provide consulting services in support of the District's ongoing efforts to protect its water rights. As requested, this proposal includes technical support for the completion of the Environmental Impact Report (EIR)/Environmental Impact Study (EIS) for the Extension of the District's Water Right Application 21945 (Permit 15375). This proposal provides a scope of work, a budget limit and rate sheet, attached. All work must be approved by the General Manager prior to initiation.

### Scope of Work

The District recently published the Draft EIR/EIS for the extension of the District's Water Right Permit 15375 which allows the District to directly divert or store at Sugar Pine Reservoir the waters of North Shirttail Creek. Following the publication of the Draft EIR/EIS, there is a comment period providing the opportunity for interested parties to comment on the document. ECORP Consulting has requested assistance in responding to some of the comments they have received. We anticipate review of and response to comments will require approximately 10 hours.

This task can be completed on a time and materials basis. Rates charged will be in accordance with Attachment A, Rate Schedule for Professional Services.

### AMOUNT OF TASK ORDER COMPENSATION

The estimate to complete this task is **\$2,050**. Compensation will be based upon actual hours expended multiplied by our current standard billing rates. 2021 billing rates are identified in Exhibit "A", attached hereto and incorporated in by reference.

Western Hydrologics appreciates the opportunity to provide this proposal. Tasks will be invoiced based on the Rate Schedule for Professional Services (Attachment A). If you have any questions, please contact me at (916) 390-5829.

Sincerely,



Jeffrey K. Meyer, P.E.  
Principal  
Attachment(s)

Rate Schedule for Professional Services

**"Attachment A"**

**RATE SCHEDULE FOR PROFESSIONAL SERVICES<sup>1</sup>**

Project Principal .....	\$205.00
Senior Water Resources Engineer .....	\$180.00

---

**Expense Reimbursement/Other:**

1. Computer, facsimile, and telephone are included in the billing rates, and there is no additional charge.
2. Copies (color and black and white), equipment and other direct expenses are reimbursed with a 5% administrative handling charge (excluding per diem).
3. Subcontractor expenses are reimbursed with a 5% administrative handling charge.
4. Mileage is reimbursed at current IRS rate with a 14% administrative handling charge.
5. Per Diem, depending upon location, may be charged where overnight stays are required.
6. Expert Witness Testimony, including Depositions, is billed at time and a half.
7. When non-standard billing is requested, time spent by office administrative personnel in invoice preparation is a cost to the project and charged as technical labor.

---

<sup>1</sup> Rates effective January 2021 and are subject to change. Depending on the project requirements, titles may vary.



Phone: 408-374-0977  
Email: info@rauchcc.com  
Web: www.rauchcc.com  
936 Old Orchard Rd. Campbell, CA 95008

**Dynamic Public Outreach, Smart Strategic Planning**  
*For local governments, special districts, and the engineering, environmental and law firms that support them.*

**DATE:** August 27, 2021 **NO OF PAGES:** 14  
**TO:** Hank White, General Manager Foresthill PUD  
**FROM:** Martin Rauch **RE:** Proposed Scope for Public Engagement Program

This document provides a proposal, as requested, to provide public engagement services.

**Our role.** Rauch Communication Consultants (RCC) facilitates open communication between special districts and their customers and stakeholders. We help the public understand the various technical, legal, financial, and regulatory challenges their district faces in serving them. And we help the District listen to public input and respond.

**Purpose of this project** The purpose of the public engagement program is to assist the District to engage with the public to provide accurate information about its services, and help the District respond to customer questions and concerns, listen to their input, and then recommend changes to their programs in response to the public.

**Here’s why Foresthill PUD would be well served by Rauch Communication Consultants (RCC):**

- In-Depth Public Engagement Program Experience, across dozens of projects over nearly one-half century.
- Local and Regional Experience, around Northern California and across the state with every type of special district, including with FPUD.
- We Know Special Districts. We focus exclusively on special districts and understand special district governance, finance, operations, community relations, and the many issues faced by them.
- We have worked with over 225 Special Districts over the years. We are faculty for the California Special District Leadership Academy and teach regularly at statewide conferences on public engagement.
- Cost Effective and targeted to meet your needs. We tailor our work to focus specifically on providing only the help your District and your customers need.

We look forward to working with you on this critical project.

A handwritten signature in black ink, appearing to read 'Martin Rauch', is written in a cursive style.

Martin Rauch, Principal Consultant  
Rauch Communication Consultants, Inc.



## PROJECT UNDERSTANDING

Foresthill Public Utility District, California, and the entire western United States are in the midst of an epic drought. The lack of precipitation and heat are linked to many large fires in recent years and causing massive damage and dislocation from both the fires and smoke. The result is that the public is concerned about water supplies, fire, conservation, maintaining landscapes and more. As a result, there will be an ongoing need to communicate about these issues to your customers and respond to their questions and concerns.

In addition, the District recently emerged from several years of discord around rates. In 2020, the District suffered a protest vote of over 50% of its customers and property owners over a proposed rates. There were lawsuits and conflicting news and opinions in the community. More recently, the District recently smoothly approved a new rate with only two protests. What's more, in general public discord around the District has subsided.

The District has worked diligently to increase its communication and engagement with customers over the past year or two. The goal for the next year is to continue communicating, maintain the progress that has been earned to date, and keep the community updated and answer their questions as water issues evolve.

## KEY STEPS AND DELIVERABLES IN THE PUBLIC ENGAGEMENT PROCESS

**The following preliminary tasks contain the basic essential elements of a successful public engagement program. To limit costs, staff will carry out as much of the outreach as possible, with RCC providing support where staff lacks the resources or experience. The consultant will work flexibly to provide just the right mix of services to meet District needs.**

### BASIC PROGRAM ELEMENTS

**Task 1. Update The Outreach and Engagement Plan.** This involves reviewing the current activities, challenges and programs facing the district, reviewing the types of calls and questions are received by staff and updating the messaging and outreach plan. This is updated periodically over time

**Task 2. Implement Public Engagement Plan.** The details of the outreach plan will be developed over time. We are going to approach this step-by-step, seeking to limit consulting costs, and obtain the most public outreach at the lowest costs. Some of the elements that may be implemented include:

### CORE OUTREACH

2.1 Update Messaging. The narrative states the program's key messages and themes: what one would tell an interested customer, stakeholder or reporter if one had only a minute or two to present the issues. The narrative must be simple, clear and be easily remembered and repeated. It starts with the problems, has a middle (describing the process) and a proposed end (the program implementation). If the public does not understand and accept the beginning of the story (the problem), they will never support the end (implementing the solution).

2.2 Bill Stuffers. The District publishes a monthly bill stuffer. RCC supports staff by writing, editing and formatting, and is training them to increasingly take the lead on this.

2.3 Press Relations and Newspaper Advertisements. We can provide press support, as well as assist the Board and staff to respond quickly and accurately to press inquiries and needs.

2.4 Social media. Assist periodically with social media issues and questions.

2.5 Ongoing Support. Different people and groups react in varied and unexpected ways to public engagement. RCC will provide as-needed consulting support to help modify the program and offer

support to staff as the outreach is implemented. This includes responding to questions, updating the message, working with the District to explain complex issues, respond to the press, etc. Close coordination will be maintained between the District and the consultant if media and other challenges arise, and we will provide on-call support to adjust existing proposed actions and undertake other methods and media as needed.

#### ADDITIONAL RECOMMENDED OUTREACH ACTION

Complete website rebuild. While the District website has been maintained and updated over time, it is built on very old technology and with out of date approaches. The aging software is still functional but there are fewer people available to support it, it requires expert help to make updates which makes the update process slow and costly. Looking to the future, it will be less well supported than newer software in terms of security, features and plugins, and updates to work with new servers and protocols, etc.

A public agency website is the principle method for the public to find important information about their services – and the importance of having a fully functional website that the staff can keep up to date without outside help is multiplied during the current pandemic.

We propose to rebuild the site on a completely new software to ensure the sites long-term sustainability and security on an open source platform. The updated site would meet all legal requirements for local governments and can easily be added to in the future. if desired. It will be attractive and have an easy-to-use content management system that would allow the District staff to easily make updates, changes and additions. It is also pre-built with security in mind. The content would remain the same to keep the cost down, but could be readily updated in the future.

#### OTHER POTENTIAL OUTREACH ACTIVITIES

Fact Sheets, Question-and-Answer Sheets. These elements provide additional detail to the public about particular issues. We may provide fact sheets or question-and-answer sheets as needed on pertinent issues raised by the public. These would be mailed to those who raise questions, and provide content for the website, newsletters and press releases.

Web and Teleconference Meetings Presentations and Hearings. In recent weeks and days restrictions are being put on in-person contact due to Coronavirus. We will find creative ways, such as web or teleconference meetings, to replace the inability to carry out normal public meetings and interactions.

Customer Contact Tracking Log. It is helpful to have a customer contact tracking log to track all customer contacts, ensure quick, consistent and effective response to public comments and questions.

Bill Stuffers or mailers. There will likely be a need for one or more bill stuffers and or mailers.

Email list development and e-newsletter. The district does not have a large email list and we suggest it be a priority

Website Updates. The District has an existing website. We are available to prepare materials for the District's webmaster to upload, or we can provide this service to the District.

Meeting facilitation. We have extensive experience facilitating meetings and can assist the District as needed with meeting facilitation.

## APPROACH TO THE PROJECT

This proposal is based on proven public engagement approaches learned through almost five decades of experience with hundreds of projects dealing with water, finance, and many other issues of community interest. Here are some highlights of our approach.

1. Focus on Community Engagement. This involves opening up the agency to genuinely hear public ideas, questions and concerns. This must be accomplished so that the staff and board can respond with changes in direction and programs when it is beneficial and fair to the community, and meets legal, regulatory, and other boundaries the public agency must work within.
2. People learn step-by-step, needing time to ask questions and assimilate new information over time. The District must present accurate information incrementally, and provide opportunities for input over time.
3. Customers want assurance that your agency is working efficiently and spending their money prudently. Therefore, we incorporate information about District cost effectiveness, and specific ways your District is keeping costs down.
4. Every customer and stakeholder deserve respect and to be listened to. There is usually a continuum of public engagement: a small constituency of people that are very engaged and often critical. They must be listened to. On the other end of the continuum, there is also usually a majority of people that are not engaged, and ways must be found to inform them and obtain their input and support.
5. Use Time to Assist the Process. It is critical that the District take needed time and not rush into changes that may not be understood or accepted. Finding a path forward that is understood by and acceptable to the community is critical—even if it takes time and requires changes in direction.
6. The end goal is to best meet customer and stakeholder needs. The only purpose of a public agency is to serve the public—it must be clear how the District is doing that and intends to continue into the future.

## EXPERIENCE AND QUALIFICATIONS

### EXPERIENCE HELPING DISTRICTS RESPOND SUCCESSFULLY AMID PUBLIC CONTROVERSY AND DISAGREEMENT

**Sacramento Regional County Sanitation District. Facilitated major change in a project leading to public support.** Animosity and mistrust arose in the public during the environmental and design phase of the agency's multi-year to build a large diameter (12 foot), pipeline through a residential community. RCC was asked to provide improved and proactive public engagement to other public agencies, local schools, churches, businesses, homeowners and others. The result was to reopen lines of communication and build trust with the public. In response to public input, the sponsoring agency agreed to build a portion of the project by tunnel rather than open trench and then build the next trenched section at the same time to decrease the overall impact on the community, keep the project on schedule, and lower costs. The community accepted the project, which was completed successfully.

**Diablo Water District threatened by consolidation.** The agency was facing negative public opinion based upon a perception of high rates and consolidation threats from the City in its service area. The project began with in-depth customer phone interviews of a wide range of customers. This provided the initial understanding of public concerns upon which the comprehensive public outreach program was developed. Today, Diablo Water District is a highly respected public agency.

**Cambria Community Services District. Following a lost election, build community support leading to an election win.** The client had suffered an election defeat following an attempt to develop a new water supply for the community. RCC facilitated a large Citizens Committee of over 20 people that worked with the engineer and client to redesign a desalination facility in a manner that could develop community support. Extensive public outreach was carried out along the way. The end result was a 68% public election victory.

**Pajaro Valley Water Management District. Helped district recover from an election defeat.** Helped recover from a lost election and intensive attacks by local groups and public agencies to develop a public support for a Basin Management Plan and groundwater charge that culminated in a successful election. This project required rebuilding the technical studies from the beginning with intensive public input. It involved working with local farm groups, individuals, the local city, county, and other agencies and individuals to craft a project that would meet area water needs at a reasonable cost.

**Montecito Water District: Water supply project and rate increases.** In a historically "no growth, no new water" coastal region, RCC helped develop public consensus to support a major water supply facility, including their share of a \$600 million pipeline from the State Water Project, and an accompanying steep rate increase. The agency won two public elections on the program and maintained public support after the project faced a strong counter-campaign. Since then, RCC helped the District change its rate structure and raise rates and fees several times.

**Sunset Pointe Lighting and Landscape District successful assessment election.** Following a failed election, helped the District re-engage with their community, modify their plan and assessment and win a successful assessment election.

**Arcade Water District. Build support for this District that was struggling with an aging and worn system.** Worked with client on major master planning effort, pre-design, and design through construction. After extensive public engagement in the redesign for over two years, the public accepted the Master Plan and the steep required rate increases to pay for the work—100% rate increase the first year followed by four 25% rate increases in following years.

**City of Santa Barbara. Work with City and public to develop an acceptable plan to cover a reservoir.** This involved covering a formerly open reservoir in an area with high fire danger and lots of community concern and engagement. Facilitated a series of stakeholder’s meetings on options and limitation for covering the reservoir. It resulted in consensus on options for a solution, followed by an extensive outreach program and unanimous approval by city officials without appeal or lawsuit. This project involved focus groups, facilitating a citizens committee, close work with neighbors and interested parties, etc.

**Upper San Gabriel Valley Municipal Water District—successful recycled outreach despite intense opposition.** “Upper District” designed a water project that would percolate and/or inject recycled water into the ground. The District faced well-funded and organized attacks. An intensive outreach program was provided for community leaders, the press and local residents. The District patiently and persistently explained the program, answered questions, and responded to concerns. Highlight was a series of bus tours to the recycled water plant, arranged through the League of Women Voters. Reception was excellent, opposition faded, and the program has been declared a success.

**Casitas Municipal Water District Fish Ladder.** The District was required by regulators to build a Fish Ladder to protect endangered steelhead. There was extensive efforts by differing groups both in support and opposition—a couple of hundred upset people attended one public meeting in this small community. The concerns focused around how to share the limited water supply among fish, agriculture and urban uses, costs and more. After a long and extensive public engagement program a compromise solution was found and the project was completed.

**Santa Fe Irrigation District Conservation and Rate Structure Changes.** The District was faced with a double challenge: its customers have very large properties, and many are large water users. During a severe drought there was a need to cut water use dramatically while changing the rate structure and raising revenue. There was organized opposition and support for the various changes. Extensive media coverage—including in the national television and press added pressure and negative attention. Many hundreds of people attended one large public meeting. An extensive engagement program over more than a year led to solutions that were accepted and implemented.

## EXAMPLES OF RATE PROGRAM OUTREACH

**City of San Rafael.** Newsletter and Budget Document. Developed City of San Rafael newsletters and special budget document. The document was designed to help citizens become more engaged in the budget process.

**Goleta Sanitary District.** Carried out extensive outreach programs from the 1980s to around 2017. This outreach program was centered around a long running and successful newsletter, annual open house, and included promoting and supporting the District through many issues throughout the years, including numerous rate increases.

**La Cumbre Mutual Water Company supermajority vote.** Worked with this mutual water company to develop an outreach program resulting in a super majority vote to increase charges to fund a critical capital facilities loan.

**City of La Puente.** Developed a successful outreach program to approve a new city sewer service charge. This program was fully bilingual in Spanish and English.

**Sausalito-Marin City Sanitary District.** Faced with a need to impose a high rate increase under intense time pressure and having a low public profile, the agency turned to RCC. While developing an overall strategy and timelines for the rate increase, RCC conducted a general outreach program to explain to customers the agency's excellent and economical service record. Despite some initial opposition, the new rates gained general public acceptance and praise from initial opponents.

**South Coast Water and Sanitary District.** This district was formed from a merger of three agencies with five service areas. With an uncertain Board consensus and negative press coverage, a complex and controversial rate change called for varying increases in each service areas of up to 50%. A full-scale public outreach program resulted in the changes being approved unanimously by the Board.

**Tamalpais Community Services District.** Developed and helped the District implement a full-scale outreach program to increase rates using web updates, a series of newsletters, newspaper outreach and more. Also developed and mailed 218 documents.

**City of El Monte.** Developed and implemented a successful outreach program to approve a new city sewer service charge. One notable feature of this program was that some materials were prepared in English, Spanish, Chinese and Vietnamese.

**City of San Rafael Sanitary District.** Developed outreach materials leading up to successful proposition 218 rate increases.

**Sanitary District No 5 of Marin County.** Developed and implemented three successful outreach programs, including preparation and mailing of the Proposition 218 documents to increase rates in the communities of Belvedere and Tiburon.

**San Antonio Water Company.** During a period when the company had been under sustained attack by opponents, we planned and facilitated a citizens committee that helped develop a new rate structure that was later adopted. Previously, the controversial issue had stymied the Company.

**Cambria Community Services District:** Following a failed election and firing of a general manager, organized and facilitated a citizens Committee that helped lead to a successful majority election to pay for a desalination project.

**City of San Rafael: Support on Multiple Issues.** Produced a special budget summary to assist with public participation and understanding of City budget realities. Also produced a city wide newsletters, including introductory information about to-come assessment votes to meet City needs.

## EXPERIENCE IN BRINGING TOGETHER PARTIES TOGETHER:

Rauch Communication Consultants LLC (RCC) is skilled at bringing together parties with different interests and perspectives, working with them to resolve difficult situations, and assisting in the resolution of conflicts. Some examples of our experience follow:

- **Monterey Regional Water Pollution Control Agency and Marina Water District.** Helped to resolve issues surrounding a joint project to develop a recycled water marketing distribution program, along with related issues. Several workshops were conducted with representatives from both Boards, legal counsels and general managers.
- **Conjunctive Use Working Group.** Worked with dozens of water agencies and stakeholders about use of vacant storage space in the Central and West Coast Basin of Los Angeles County. They did not reach full agreement but identified many potential joint projects that have been used over time. Funded by the State Department of Water Resources.
- **San Diego County Water Authority Water Storage Plan.** Facilitated monthly discussion meetings with over 20 water agencies and the Water Authority in developing a countywide water storage plan. Relationships among the players were difficult initially, but we successfully reached consensus on a plan.
- **Big Bear Municipal Water District and San Bernardino Valley Municipal Water District Legal Dispute.** Facilitated a solution to a long-simmering water dispute following years of court fights in a single Board-to-Board meeting.
- **Three Valleys Water District Regional Water Supply Plan.** Assisted agency to begin building consensus on regional conjunctive use plan with numerous member agencies. Involves, strategizing, planning, communicating, facilitating both internally with the Board and externally with member agencies and the press.
- **Friant Water Authority.** Worked with this large Board of 23 that were divided into many camps and subgroups and becoming near paralyzed with dissension. We helped them to rebuild the group from the ground up with new governance, new CEO and a strategic plan that is being implemented. The organization is now flourishing.
- **San Luis Delta Mendota Water Authority.** This large Joint Powers Authority was struggling to function effectively as it lost key executive staff and there were disagreements and lack of consensus on the Board on how to move forward. An extensive strategic planning process rebuilt consensus on the way forward, including the hiring of new executive leadership. The Board and staff leadership are moving forward strongly and effectively under the new consensus.
- **Kern County Water District Strategic Plan.** Developed a complete strategic plan for a regional water agency working with a large and sometimes contentious group of member agencies.
- **Big Bear Municipal Water District and San Bernardino Valley Municipal Water District Legal Dispute.** Facilitated a solution to a long-simmering water dispute following years of court fights.



## WHAT OUR CLIENTS ARE SAYING ABOUT US

*“There are a lot of public relations firms that put out nice newsletters and send out standard public information materials. But in a tough situation, I want to have Rauch Communication Consultants on my side.*

*You were always looking ahead, working to solve problems before they occurred. You were also willing to challenge project decisions when you thought we were going in the wrong direction. You gave us insight into people, and used a bulletproof process to track all the details and complicated interactions between the project team, policy makers and the public...”* **Meredith Husted Sacramento Regional County Sanitation District**

*Throughout the project, your guidance and counsel were insightful and invaluable. Your years of experience working with water industry clients on public information and strategic planning efforts were clearly evident. In addition, your project management skills and ability to juggle multiple deliverables at once is commendable.*

*Several aspects of the outreach program bear your signature mark. One is the customer service log that you so diligently championed and utilized as vital input to the program. The other is the series of community forums for which you so ably prepared Mike and me. Another is the final customer newsletter that received commendations across the board from our Directors, staff, and customers.* **Betty Burnett, Assistant General Manager, South Coast Water District**

*“Thank you...for a fine overall public relations campaign...on the very complicated and political education process concerning our water needs and needs for steelhead fish. Your media outreach, organizing large public meetings, support materials, letters, press release, and newsletter all helped to positively change the public attitude about water in the Ojai Valley and west Ventura County.”* **Chuck Bennett, Director, Casitas Municipal Water District**

*Rauch Communication Consultants Inc. has been in charge of the public outreach for Novato Sanitary District for the past six years. Over that time, they did the outreach for our \$90 million wastewater treatment plant upgrade project and the rate increase to fund the project. In both cases, the public outreach program resulted in very positive public support of the District's programs.*

*I have come to rely on them for very quick responses on a number of occasions. Most recently we had an odor complaint from neighbors of the treatment plant. Martin provided talking points for the press within hours of being contacted. He also assisted on short notice to prepare a presentation for the Board of Directors and develop an outreach program to the neighborhood.*

**Beverly James, General Manager Novato Sanitary District**

*You have helped us to successfully convey to our customers the importance of the work we are doing for them in providing them with water service. I receive complements on a regular basis from members of the public on the newsletters you prepare for us and how well they tell the story of Diablo Water District. I believe the best indication of how the work you have done for us has been received by our customers was in the public opinion poll that was conducted by the City in which our customers ranked the reliability of our water service second highest only to the fire department who of course is able to provide reliable protection due to dependability of our water system.* **Mike Yeraka, Diablo Water District**



## OUR TEAM

### **Martin Rauch**

Martin Rauch is President of Rauch Communications Consultants, a full-service strategic planning and public outreach firm with main office near San Jose California that has served over 225 clients in California during the past 40+ years.

Martin manages the San Jose office, which is devoted primarily to the planning and implementation of strategic communication programs for public agencies throughout the state. Working closely with the Board of Directors and senior managers, he tailors public involvement projects that range from individual events to major multi-year projects.

He is an expert at effectively communicating to the public about financial needs and realities of water agencies, providing the proper venues for citizens to ask questions and provide input, and then communicating that public input back to public agency staffs and boards.

Martin, his staff, and affiliates have daily experience implementing virtually every type of communication activity from productive public meetings, to small stakeholder meetings, eye-catching mailers, interactive websites and more. These experiences on past projects directly mirror activities that may be needed by the District and provide him and his staff with a broad base of knowledge which they can apply to this project.

Martin also conducts strategic planning sessions for the Boards and senior managers of client organizations, as well as training in effective Board meetings, roles and relationships of Board members and managers and other related topics. He specializes in the preparation and facilitation of a wide variety of meetings. These complex events include focus groups, citizen's advisory committees, community presentations and public meetings.

Mr. Rauch has served as a speaker and seminar leader for the Association of California Water Agencies (ACWA), California Association of Sanitary Agencies (CASA), California Special Districts Association (CSDA) and others. He was a regular faculty member of the Special District Institute, is a regular speaker for CSDA, and is on the Board of the Special District Leadership Foundation. He is the principle author of the Special District Leadership Foundation certificate course on strategic planning, as well as Governance Foundations. He has been invited as a speaker to other statewide associations.

Prior to his work for public agencies, he served for several years as a community organizer and educator for nonprofit organizations, organizing community groups and producing educational and information materials. He holds a Bachelor of Arts degree with High Honors from the University of California at Santa Barbara. Martin's formal training also includes completion of Business Mediation Training at UC Berkeley, as well as courses in Facilitating and Mediating Effective Agreements. Martin is a certified Balanced Scorecard Professional (BSP) from the Strategy Management Group and The George Washington University College of Professional Studies.

### **Lynda Boyd (Production Management), Staff**

Lynda manages all of the production for Rauch Communication Consultants, coordinating the writing, printing and mailing of materials, setting up schedules and coordinating project team activities to keep projects moving smoothly and on-schedule. Lynda has extensive experience mapping and developing accurate and cost-effective mail lists

**Viveca Hess (Social Media), Affiliate**

Combining a decade of her legal background, transactional work and marketing, Viveca offers a solid track record in creating, developing and executing social media programs over many years with Rauch Communication Consultants. Initiating online presence based on well-researched source information has provided successful content strategies for clients ranging from private water resource consultants, World Trade Center water-specific initiatives for developing countries, United States Department of Commerce International Trade Administration, various Chambers of Commerce across the U.S. and several non-profit organizations. Viveca has helped modernize and update media platforms for private and public sector interests by utilizing her fluency in Twitter, Facebook, LinkedIn, YouTube, Foursquare, Blogs, Excel, PowerPoint, Word, Photoshop, Analytics, Constant Contact, Wordpress, along with various webinar programs and mobile applications. Recognized for international publications (*Turning Insider Trading Inside Out* April 2000, *International Law Journal*) and American Jurisprudence Awards for Writing, Research and Analysis, Viveca provides thorough research, effective writing and creative thinking for meaningful results bridging the transition from traditional to social media and applying relevant industry-specific combinations of media

**Jay and Mike Zeballos (Webmasters), Affiliate**

Rauch Communication Consultants develops, maintains and upgrades numerous websites for public agencies around the state on a daily basis. Our webmasters have many years of experience with all aspects of web design and development, with a special expertise in meeting the needs of public agencies. Jay and Mike are technically expert, with extensive programming capabilities, and the ability to implement any web-based program, survey, or features. They also have a flair for developing sites that load fast, look great and communicate effectively.

Some of their core competencies include: UX & UI design, strategy and planning; iPhone, iPad application programming; Web application proof-of-concepts; Hand-coding HTML/CSS; Usability & analytics; MODx, Wordpress CMS configuration, theming, customizing; Project management; Troubleshooting & problem solving; Training and support

Their technical background includes working experience with the following; Windows, Mac, Linux, FreeBSD; CSS, XHTML, XML, PHP, ASP.NET, MySQL, Javascript, Actionscript ; MODx, CodeIgniter, Wordpress, ExtJS, jQuery, Mootools

**Chris Crimi (Graphic Design), Affiliate**

Christopher has over three decades experience producing graphic materials from simple reports, to full-color brochures, web graphics, displays, posters, newsletters, and slide presentations. During his career, he has produced excellent designs for clients like Apple Computer, KLA-Tencor, Santa Clara Valley Water District, Trimble Navigation, Essex Property Trust, Adobe and Cisco Systems. He has worked with RCC on hundreds of public outreach projects for two decades, bringing a high degree of graphic sophistication to every piece he works on.

## PARTIAL CLIENT LIST

### ASSOCIATIONS, JPAs, STATE, FEDERAL, CORPORATIONS, AND OTHERS

Association of California Water Agencies (ACWA)	Sewer Authority Mid-Coastside
California Special Districts Association (CSDA)	Mission Research Corporation
California Association of Sanitation Agencies (CASA)	Stone Creek Company
California Department of Water Resources	Suburban Water Systems
Special Districts Institute	Boyle Engineering
California Sanitation Risk Management Authority	Dokken Engineering
California Association of Public Cemeteries	El Solutions
Friant Water Authority	McCormick, Kidman and Behrens
WaterReuse Association	Pennfield and Smith
California Mosquito and Vector Control Association	Redwine and Sherill
American Desalting Association	White House Office of Policy Development
Association of Groundwater Agencies	National Water Resource Association
San Luis Delta-Mendota Water Authority	North Bay Watershed Authority
San Joaquin River Exchange Contractors Water Authority	San Gabriel Valley Water Association
North Bay Water Reuse Authority	San Gabriel Basin WQA
Faculty Association of Community Colleges	Santa Barbara Special District Association
National Water Resource Association	Cachuma Operations Maintenance Board
Water Education Foundation	Cachuma Conservation Release Board
Pacific Coast Association of Port Authorities	California Sign Association

### LOCAL GOVERNMENT AGENCIES

<b>BUTTE COUNTY</b>	North Bakersfield Rec. and Park District	<b>MARIN COUNTY</b>
Oroville-Wyandotte ID	Inyokern Community Services District	Las Gallinas Valley Sanitary District
<b>CALAVERAS COUNTY</b>	Shafter Park and Recreation District	North Marin Water District
Calaveras County WD	<b>LASSEN COUNTY</b>	Sausalito-Marín City Sanitation Dst.
<b>CONTRA COSTA COUNTY</b>	Lassen Municipal Utility District	Tamalpais CSD
Diablo Water District	<b>LOS ANGELES COUNTY</b>	Sanitary District #5 (Tiburon)
Contra Costa Water District	Los Angeles County Park and Rec	Novato Sanitary District
Stege Sanitary District	Castaic Lake Water Agency	Ross Valley Sanitary District
Dublin San Ramon Service District	Central Basin MWD	San Rafael Sanitation District
<b>EL DORADO COUNTY</b>	Pico Water District	City of San Rafael
South Lake Tahoe PUD	Upper San Gabriel Valley MWD	Central Marin Sanitary Agency
<b>IMPERIAL COUNTY</b>	West Basin MWD	County of Marin
Imperial Irrigation District	San Gabriel Valley MWD	Novato Disposal Services, Inc.
<b>KERN COUNTY</b>	Water Replenishment Dst. of So. Cal.	San Quentin Village and Murray Park
Arvin Edison Water Storage District	San Gabriel County Water District	<b>MERCED COUNTY</b>
Indian Wells Valley Airport District	Main San Gabriel Basin Watermaster	Central California Irrigation District
Indian Wells Valley Water District	California Domestic Water Company	<b>MONO COUNTY (and MADERA)</b>
Kern County Water Agency	Pasadena Historical Museum	Mammoth Community Water District
West Kern Water District	Three Valleys MWD	<b>MONTEREY COUNTY</b>
North of the River Municipal Water District (Bakersfield)	Newhall County Water District	Marina Coast Water District
Oildale Mutual Water Company	Las Virgenes Municipal Water District	Monterey Peninsula Water Management District
North Kern Water Storage District	Conjunctive Use Working Group (?)	Monterey Regional Water Pollution Control Agency
Golden Empire Transit District	Palmdale Water District	Pebble Beach CSD
Terra Bella Irrigation District	City of Sierra Madre	<b>NAPA COUNTY</b>
Friant Water Users Authority	City of Arcadia	Napa County
Cawelo Water District	City of El Monte	Napa Sanitation District
Arvin Community Services District	City of La Puente	
	East Pasadena Water Company	
	Foothill Municipal Water District	
	Valley County Water District	

NEVADA COUNTY  
Northstar CSD  
Truckee-Donner Public Utility District  
Tahoe Truckee Unified School District

ORANGE COUNTY  
Municipal Water District of Orange County  
Mesa Consolidated Water District  
Los Alamitos County Water District  
SouthCoast Water District  
Serrano Irrigation District  
El Toro Water District  
Orange County Water District  
Costa Mesa Sanitary District  
Capistrano Beach County Water District  
Coastal Municipal Water District  
Midway City Sanitary District  
TriCities Municipal Water District  
Yorba Linda Water District  
Placentia Library District  
Laguna Beach County Water District  
Emerald Bay Service District  
Moulton Niguel Water District  
Orange County Vector Control

PLACER COUNTY  
Foresthill PUD  
San Juan Water District  
North Tahoe Public Utility District  
Squaw Valley Public Services District

PLUMAS COUNTY  
East Plumas Health Care District

RIVERSIDE COUNTY  
Coachella Valley Mosquito & Vector Control District  
Mission Springs Water District  
29 Palms Municipal Water District  
Rancho California Water District  
South Mesa Water Company  
Elsinore Valley MWD  
Santa Rosa CSD  
Beaumont Cherry Valley Water District  
Santa Ana Watershed Project Authority  
Desert Healthcare District

SACRAMENTO COUNTY  
County of Sacramento Public Works Agcy.  
Sacramento Regional County Sanitation District  
Fair Oaks Water District  
Arcade Water District  
Sacramento Metropolitan WA  
Carmichael Water District  
Rio Linda Water District

Northridge Water District  
Rancho Murrieta CSD  
Cordova Recreation and Park District

SAN BERNARDINO COUNTY  
Big Bear Municipal Water District  
Monte Vista Water District  
Big Bear Airport District  
Yucaipa Valley Water District  
Bear Valley Community Hospital District  
Bear Valley Community Services District  
City of Big Bear Water and Power Department  
Joshua Basin Water District  
Inland Empire Utility Agency  
East Valley Water District  
Big Bear Area Regional Wastewater Agency  
Victor Valley Water District  
Cucamonga County Water District  
San Antonio Water Company  
Chino Basin Watermaster  
ITI Desert Water District  
San Bernardino Valley Water Conservation District  
Big Bear City CSD  
City of Big Bear Lake  
Hi-Desert Water District  
West San Bernardino County WD

SAN DIEGO COUNTY  
San Diego County Water Authority  
Padre Dam Municipal Water District  
Rincon del Diablo MWD  
Vallecitos Water District  
Helix Water District  
Leucadia Wastewater District  
North County Fire Protection District  
Olivenhain Municipal Water District  
Sante Fe Irrigation District  
Otay Water District  
Fallbrook Public Utility District  
Rainbow Water District  
Vista Irrigation District

SAN FRANCISCO COUNTY  
Golden Gate Bridge, Highway, & Trans. District

SAN JOAQUIN COUNTY  
Ripon Fire Department

SAN LUIS OBISPO  
Templeton CSD  
Port San Luis Harbor District  
San Simeon CSD  
Cambria Community Services District

Nipomo Community Services District

SAN MATEO COUNTY  
East Palo Alto Sanitary District  
San Mateo County Harbor District  
Montara Water & Sanitation District  
Sewer Authority Mid-Coastside

SANTA BARBARA COUNTY  
City of Santa Barbara  
Goleta Sanitary District  
Montecito Sanitary District  
Carpinteria Sanitary District  
Santa Maria Public Airport District  
Goleta Water District  
Montecito Water District  
Cachuma Project Authority  
Goleta West Sanitary District  
Mosquito and Vector Management District  
Isla Vista Recreation and Park District  
Lompoc Hospital District  
Santa Barbara County Vector Control District  
Carpinteria Valley Water District  
Santa Ynez Community Services District  
La Cumbre Mutual Water Company

SANTA CLARA  
Santa Clara Valley Water District  
West Valley Sanitation District

SANTA CRUZ COUNTY  
Scotts Valley Water District  
Pajaro Valley Water Management Agency (Watsonville)  
Central Fire Protection District  
Santa Cruz FPD  
Soquel Creek Water District

SOLANO COUNTY  
Rural North Vacaville Water District

TULARE COUNTY  
Friant Water User Authority  
Visalia Public Cemetery District

VENTURA COUNTY  
Camrosa County Water District  
Rancho Simi Rec. & Park District  
Casitas Municipal Water District  
Conejo Recreation and Park District  
Ojai Valley Sanitary District  
Calleguas Municipal Water District  
Meiners Oak County Water District  
Marina Coast Water District  
Camarillo Health Care District

## ESTIMATED COSTS

This program is designed to be as flexible and cost-effective as possible. To do this, we propose to team with the District—supporting them to carry out many of the public outreach and engagement tasks and filling in where staff does not have the resources, time, or expertise.

Therefore, we have designed this program as a not-to-exceed, time and materials proposal for \$13,000. We will only charge for work actually carried at District request.

No work will be undertaken without prior email approval from the agency. Out-of-scope work includes new tasks, or extra work on existing tasks, which exceeds the total estimated cost for the project.

Item	Deliverable	Quantity	Total Estimated Hours	Cost
#1	Update the Outreach and Engagement Plan	1	5	\$1,000
#2	Implement the Public Engagement Plan	--	--	--
2.1	Update messaging	2	3	\$1,200
2.2	Bill Stuffers	12	24	\$4,800
2.3	Press releases and Newspaper ads	3	12	\$2,400
2.4	Social media posts	3	6	\$1,200
2.5	Ongoing support	12	12	\$2,400
			TOTAL	\$13,000

### ADDITIONAL RECOMMENDED OUTREACH ACTION

We have previously submitted a proposal for \$7,500 to completely update the website (July 2020). We recommend this as an outreach priority since the web is the central outreach and communication tool for the District and it is available 24/7.

**Flexible Program.** It is important that a program of this sort be flexible to respond to the needs of the community. Therefore, the deliverables, quantities, and estimated hours are estimates designed to give an initial scope of the effort. The specific deliverables may change and the amount of time for each deliverable may also change depending on the evolving needs of the District and the public it serves.

**Current Rates.** Outreach and public involvement programs rate for the senior consultants is \$195 per hour. Outreach and public involvement programs rate for associate consultants is \$115 per hour. Graphic designer and webmaster services rate is \$105 per hour. Social media, writing specialist's rate and Administration, Production Manager, is \$75 per hour.

**Travel and Expenses Additional.** Material expenses, including, travel expense (transportation and lodging), office printing, shipping, and sales tax are additional and passed on at cost. Car mileage is at the IRS California rate at the time or actual rental car cost plus fuel. For meetings involving travel, the minimum charge is four hours.