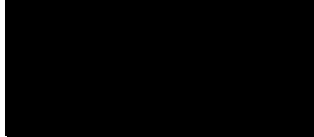




Hidden Valley Lake Community Services District



January 5, 2016

Mr. Les Grober, Deputy Director
State Water Resources Control Board
Division of Water Rights
P.O. Box 2000
Sacramento, CA 95812-2000

**Re: *Hidden Valley Lake Community Services District, Lake County
Water Right License 9674 (A022033)
Alternative Compliance Plan for Measuring and Reporting
Water Diversions***

Dear Mr. Grober:

We are hereby submitting an Alternative Compliance Plan (Plan) for Measuring and Reporting Water Diversions for the referenced water right held by Hidden Valley Lake Community Services District in Lake County pursuant to Section 935 of the adopted text of Drought Emergency Regulation for Measuring and Reporting Water Diversions (Regulations). The attached Plan is intended to fulfill the requirements of the Regulations. We are submitting this Plan because strict compliance with sections 933 or 934 of the Regulations would be unreasonably expensive.

We appreciate your review and approval of this Plan. Please contact me if you have any questions regarding this matter.

Very truly yours,

Hidden Valley Lake Community Services District

A handwritten signature in blue ink that reads "Kirk Cloyd".

Kirk Cloyd, General Manager

Encl. ✓

cc: Paula Whealen (via email)
Vince Maples (via email)



Hidden Valley Lake Community Services District

ALTERNATIVE COMPLIANCE PLAN HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT WATER RIGHT LICENSE 9674 (APPLICATION 22033)

Section 1. Required Information

- A. Name and contact information for all diverters covered by the Plan.

Hidden Valley Lake Community Services District (hereinafter "District")

- B. Name and contact information for the person designated to represent all diverters covered by the Plan in matters before the board.

Paula J. Whealen, Principal

Wagner & Bonsignore Consulting Civil Engineers, A Corporation

Sacramento, CA 95833

- C. Identification of each individual water right type and priority covered by the Plan.

This Plan covers appropriative water right License 9674 (A022033). The priority of this right dates from January 22, 1965.

- D. Detailed description of the area served by the plan, including all points of diversion whether used or not used, all methods of diversion, any conveyance systems, all beneficial uses of water, and all acreage served.

This reservoir, known as Hidden Valley Lake, is an amenity within the Hidden Valley Lake Estates community. Water diverted pursuant to License 9674 is impounded behind an earthen dam that forms Hidden Valley Lake. The point of diversion is at the dam on Coyote Creek (tributary to Putah Creek). The point of diversion is located South 68° 08'54" West, 4,044.93 feet from NE corner of Projected Section 18. T11N, R6W, MDB&M, being within SW1/4 of NW1/4 of said Section 18. The beneficial use of this reservoir is non-consumptive, consisting of recreational uses at the reservoir (swimming, boating, water contact sports, fishing) and fire protection.

E. Assessor's parcel numbers and ownership of parcel(s) on which Hidden Valley Lake is situated.

There is no assessor's parcel number assigned for Hidden Valley Lake. Hidden Valley Lake Association holds fee title to the land underlying the lake, subject to an easement authorizing Hidden Valley Lake Community Services District to flood said lands with water diverted and stored pursuant to License 9674.

F. Identification of the proposed measurement frequency.

The District proposes to measure lake levels weekly.

G. Identification of the proposed measurement methodology.

The water level of Hidden Valley Lake reservoir will be read from the existing staff gage in the reservoir. The staff gage corresponds with the spillway elevation. An area-capacity curve prepared from a survey made by United States Department of Agriculture Soil Conservation Service in 1964 is used to translate the water level elevations into acre-feet.

H. Topographic map(s) or aerial photograph(s) of the area covered by the plan that show the separate places of use authorized to be served by claimed water rights covered by the plan and showing the acreage served.

A topographic map and aerial photograph showing the location of Hidden Valley Lake is attached. Water is not authorized for consumptive use and there is no authorized place of use other than the Lake itself.

I. An implementation schedule, including date-specific, objective milestones of plan implementation from date of filing through final implementation, including the estimated milestones for acquiring permits required for plan implementation and the estimated milestones for compliance with the California Environmental Quality Act, if required.

The District will begin the weekly readings of staff gage on the Lake and record the corresponding water levels beginning on January 1, 2017.

J. Budget for implementation of the plan and the source(s) of financing for the plan.

This methodology will use already accounted for District staff time to implement weekly level measurements of the Lake.

K. List of any permits required for plan implementation, the agencies that will issue the permits, and expected dates for issuance.

No regulatory permits will be necessary.

- L. Affirmation, signed by all diverters covered by the plan, that the plan will be implemented in accordance with the schedule contained herein and that all claimed water rights covered by the plan will not be exercised outside the scope of the plan.

See attached Affirmation from District.

Section 2. Explanation of Alternative Compliance

As strict compliance with the hourly measurement and recording requirements of sections 933 and 934 of the Regulations are not feasible for the District, alternative compliance will be achieved per the method described in Item G above. All other requirements of sections 933 and 934 will be met.

Section 3. Unreasonable Expense of Strict Compliance with Regulations Sections 933 and 934

Hidden Valley Lake is a non-consumptive reservoir. The District obtained a cost estimate for installation of a pressure transducer, data logger and related appurtenances to provide for the hourly water level measurements. The estimate was \$43,527.51 (see attached). This is a major financial burden to place on this small community that has experienced hardship due to the 2015 Valley Fire, which resulted in the loss of over 70 homes and the area being declared a natural disaster. The methodology proposed in Item G above is a feasible and accurate method to determine the amount of water diverted to storage and the loss of water from storage due to evaporation and/or seepage. Installation of an hourly measuring and recording device is excessive for a non-consumptive reservoir funded by this small District.

Section 4. Certification of Alternative Compliance

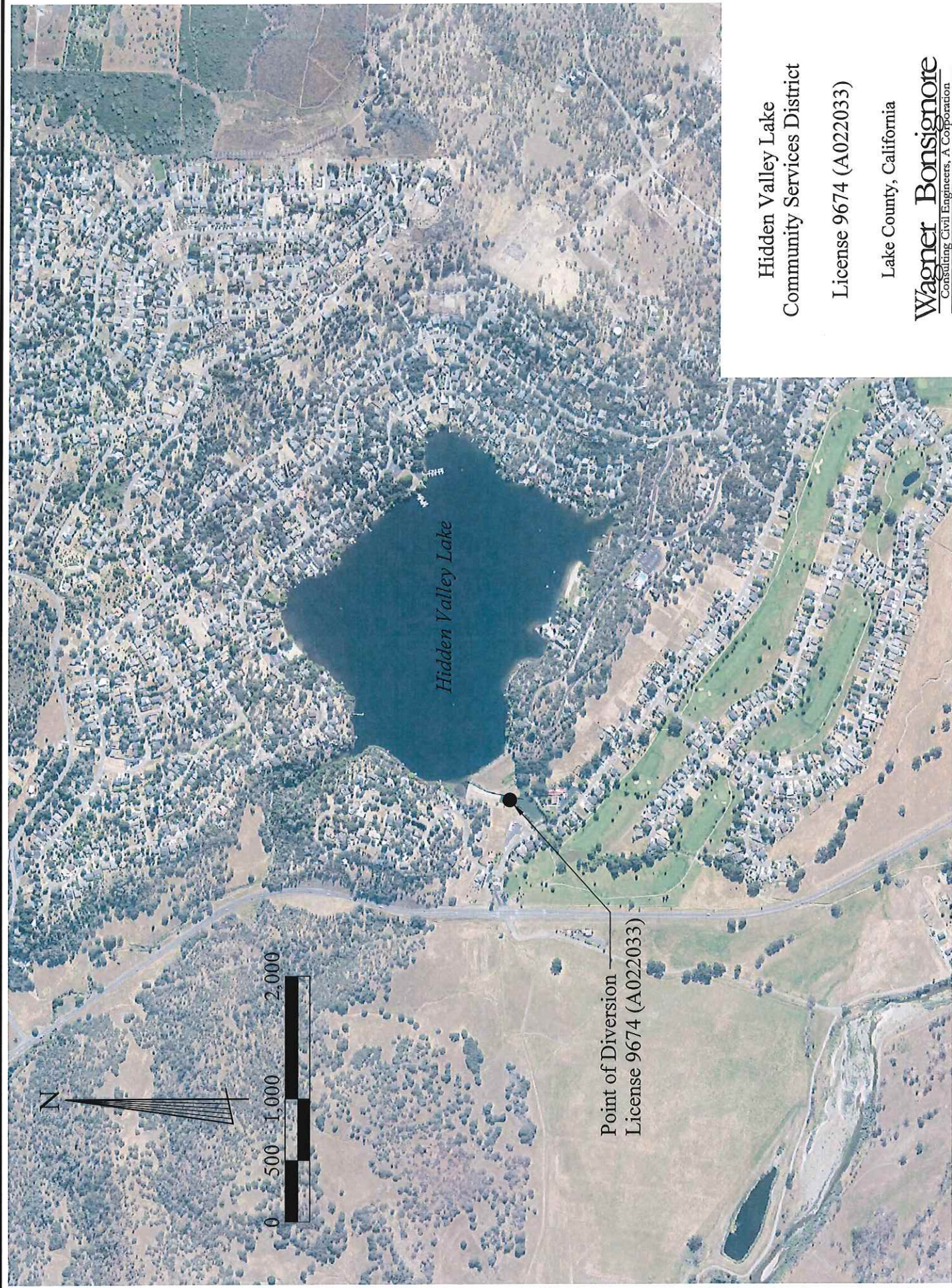
I hereby certify that the plan described herein is in compliance with CCR Title 23, Chapter 2.8 and will be implemented on January 1, 2017 for the purpose of determining the amount of surface water diverted under the subject right; and that the water right covered by the plan will not be exercised outside the scope of the plan.

Hidden Valley Lake Community Services District



Kirk Cloyd, General Manager

Date: 1-5-17



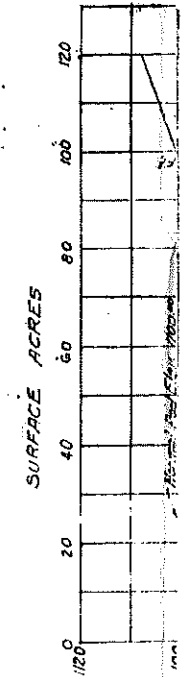
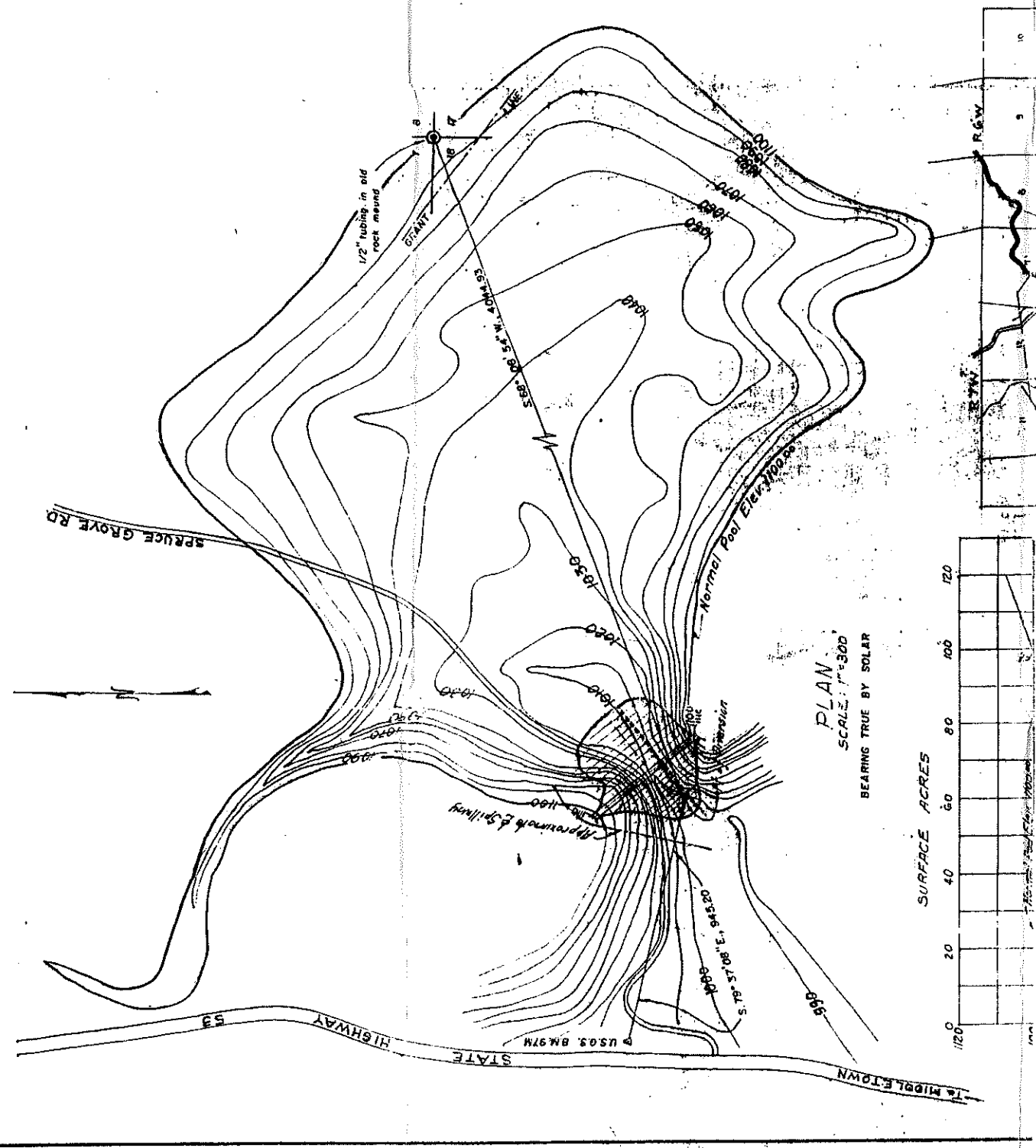
Point of Diversion
License 9674 (A022033)

Hidden Valley Lake
Community Services District
License 9674 (A022033)

Lake County, California

Wagner Bonsignore
Consulting Civil Engineers, A Corporation

This area is for
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Cost estimate for measuring device installation



Aqua Sierra Controls, Inc.

Engineering General and Electrical Contractor
Sales & Service (800) 649-4287



1650 Industrial Drive, Auburn, CA 95603
Office (530) 823-3241 Fax (530) 823-3475
service@aquasierra.com/www.aquasierra.com
Contractor License 474023 A & C-10

DESIGN BUILD - SCADA - AUTOMATION - MOTOR CONTROLS
PUMP STATIONS - UL508 PANEL SHOP - INSTRUMENTATION SERVICES AND
TESTING - FLOW STUDIES AND EVALUATION

November 28, 2016

Hidden Valley Lake CSD
19400 Hartmann Road
Hidden Valley Lake, CA 95467

Attention: Dennis White, Field Operations

Subject: Lake Level Telemetry
Re: Lake Level and Temperature
Quote: QA04951

Dear Dennis

Thanks for meeting with me at the lake site to review your proposed project. The project as I understand it is to measure the lake water level and temperature and telemeter the analog values back to the water plant via the existing SCADA PAK telemetry system. Our bid will include: two new SCADA PAK RTU's at the lake and one at the DAM levee. They will be incorporated into the plant SCADA system network

The sloping banks of the lake and the large Rip-Rap protecting the banks of the lake prevent us from locating the lake level transmitter and temperature transmitter at its edge. Instead we propose to install a new SCADA PAK telemetry RTU and measuring instrumentation out by the lake aerators. The RTU, solar battery box and instrumentation would be made part of and attached to a ACCUDOCK flotation device. Because power at the lake site is unavailable, we will utilize 90W solar array and battery power to power up the two new RTU's. The lake site will have two RTU's, one RTU on a float in the lake and another RTU on top of the DAM levee. The RTU mounted to the flotation device will transmit level and temperature to the second RTU located on top of the dam. The second RTU will store the data from the lake RTU and then transmit it back to the water plant. The two RTU's at the lake will be configured to poll and transmit every 15 minutes to conserve solar power. The two new RTU's will be made part of the existing SCADA PAK SCADA system and be included in the Wonderware operating software. We will configure the SCADA Pak RTU's for polling address, instrumentation ranges and configure the Wonderware software to add the two sites. All enclosures, mounting strut

and strut fasteners will be made of non-metallic fiberglass or Poly materials and the fastener materials will be 316 Stainless steel.

Scope of work

1. We will provide submittal documents and drawings for the new station equipment
2. We will provide the SCADA Pak 350 Telemetry modules, radios, antennas and instruments assembled in the two new RTU telemetry enclosures.
3. We will furnish a new pre-assembled fiberglass Accu-Dock with two 8" cleats and fenders to mount the lake RTU enclosure on. We will mount the solar array panel, solar mount, battery enclosure on the Accu Dock. The Accu Dock can support up to 1000 lbs., but we will keep the final weight under 545 pounds. We will keep the enclosure and other equipment low on the float platform to help maintain float stability and maintain visual acceptability.
The lake level transmitter will be a Keller 720 with a range of 0-10'. The level transducer will hang below the float platform with the Dwyer temp RTD attached. We will program the SCADA Pak and Wonderware software to convert 0-10' level to equal to 0-60' actual lake level. The Dwyer temp readout will be located inside the RTU enclosure.
4. We will deliver the second RTU to the top of the dam and install the RTU on support posts as needed. We will mount the solar power system, battery enclosure next to the RTU. Once power is supplied to both RTU'S we will align the antennas and verify communication.
5. We will provide PLC programming to configure the SCADA PAK RTU's and Wonderware software at the master to provide active workstation screens and historical data logging. Instruments will be calibrated and tested and communication will be verified from the lake to the water plant

Equipment

1. (1) Accu-Dock 4'x8'x8" full floatation support station.
2. (1) Dwyer 650-1 RTD Transmitter, range 0-1000 ohms
3. (1) Keller 720 submersible water level transducer with Nema 4X bellows J box
4. (2) SCADA PAK 350 assembled RTU's with free wave radios
5. (2) OGRE 90W solar power system with array mount, battery enclosure, batteries, charge controllers.
6. Misc. installation materials: Hardware, fasteners, electrical, Etc.

Proposal

1. Lake Float platform: pre-assembled RTU enclosure & instruments.	\$ 9,191.65
2. Dam pre-assembled RTU and solar power system:	5,581.63
3. Shipping and handling.	485.88
4. Sales tax.	1,220.73
<hr/>	
5. Sub total parts and materials.	\$ 16,479.89
6. Labor & expense to provide turnkey scope of work.	\$ 27,047.62
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7. Total project proposal.	\$ 43,527.51

- This quote is valid for 30-days
- Labor and workmanship is guaranteed for 1-year
- This bid includes prevailing wage
- Equipment used on this project guaranteed for 1-year
- Equipment delivery 2 to 3 weeks

Items not included in this proposal

1. Permits, bid bonds or premium time work
2. Boat rental has not been included for access to the lake aerators

If you have any questions concerning this quote, please do not hesitate to contact me.

Sincerely,

Les Watson
Application Engineer



Cost analysis for measuring device

Hidden Valley Lake Community Services District Lake measuring device Cost Analysis

A project of this cost would have to be capitalized by the District, and there is no capital budget for Water Operations for this fiscal year, nor has there been for recent years.

HVL CSD 2016-2017 BUDGET: WATER	2015-2016 BUDGET	2016-2017 PROPOSED
SUMMARY		
Revenue	\$ 1,138,568	\$ 1,635,557
2015-2016 Carry Overs	-	-
Operating Expenses	1,313,313	1,467,740
Capital Projects	-	-
Reserves	-	-
BALANCE	\$ (174,745)	\$ (4,143)

			NET IS LOSS:	(174,746)
	2014-2015 BUDGET	2014-2015 AS OF 5/1/2015	2014-2015 PROJECTED	2015-2016 PROPOSED
TOTAL REVENUE	1,134,100	897,068	1,046,609	1,138,568
TOTAL EXPENDITURES	1,326,771	1,030,323	1,202,078	1,313,314
	(192,671)	(133,255)	(155,469)	(174,746)

Implementing this project at the exclusion of on-going maintenance and repair items would place a hardship on field service personnel, as well as present a danger to water distribution integrity.