

LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT

MEMORANDUM

DATE: **AUGUST 25, 2020**

TO: **BOARD OF DIRECTORS**
 Lake Arrowhead Community Services District

FROM: **CATHERINE CERRI, General Manager**

SUBJECT: **CONSIDER APPROVAL OF AGREEMENT WITH
THE UNITED STATES GEOLOGICAL SURVEY
FOR 2020-2021 OPERATIONS AND
MAINTENANCE OF STREAM AND RAIN
GAGING STATIONS**

A. RECOMMENDATION

Authorize the General Manager to execute the renewal of the Joint Funding Agreement between the Lake Arrowhead Community Services District (District) and the United States Geological Survey (USGS) for the continuation of the Cooperative Water Resources Program which funds the operation and maintenance of a stream gaging station and a precipitation monitoring station.

B. REASON FOR RECOMMENDATION

The Lake Arrowhead Community Services District (LACSD) relies on the data provided by the stream gage between Lake Arrowhead and Grass Valley Lake. The precipitation gage provides data for inflow and infiltration analysis.

C. BACKGROUND INFORMATION

The proposed agreement for the period November 1, 2020 to September 30, 2021 will cover maintenance and data storage for one precipitation gage and one stream flow gage at the tunnel outflow to Lake Arrowhead. The total cost of the proposed cooperative water-resources program for this period is \$19,470, a 10.7% decrease from the prior contract due to a change in the contract length. If Federal matching funds are not available, the entire cost of \$26,810 will be the responsibility of the Lake Arrowhead Community Services District. Since 2009, the matching funds have always been made available.

The duration of this year’s agreement is only for 11 months to sync the agreement with the Federal Fiscal Year. The monthly cost of the stream gage is slightly lower than prior year at \$1,312 per month compared to \$1,317 last year. The monthly cost of the precipitation monitor went down to \$458 per month compared to \$500 per month last year. An increase is expected in the next Federal fiscal year to account for inflation.

The proposed costs are as follows:

Program Element	LACSD Funds	USGS Funds	Total
1.Surface-Water Monitoring	\$14,430	\$7,340	\$21,770
2. Precipitation Monitoring Network	5,040	-0-	5,040
TOTAL	\$19,470	\$7,340	\$26,810

D. FISCAL IMPACT

This is a budgeted item and the cost will be shared between the Water (100) and Wastewater (200) Operating Funds. If Federal matching funds are approved, the cost to LACSD will be \$19,470.

E. ENVIRONMENTAL IMPACT

This does not qualify as a project under the California Environmental Quality Act.

F. ATTACHMENTS

- Draft USGS Proposal Letter

California Water Science Center
6000 J Street, Placer Hall
California State University
Sacramento, California 95819-6129
Phone: (916) 278-3000 Fax: (916) 278-3070
<https://ca.water.usgs.gov>

July 30, 2020

Ms. Catherine Cerri, General Manager
Lake Arrowhead Community Services District
27307 State Highway 189
P.O. Box 700
Lake Arrowhead, California 92352

Dear Ms. Cerri:

This letter confirms discussions between our respective staffs, concerning the continuation of our cooperative water resources program between Lake Arrowhead Community Services District (LACSD), and the U.S. Geological Survey (USGS) for the 2021 WY covering the period November 1, 2020 to September 30, 2021.

To improve financial management processes, the USGS is shifting the period of all monitoring program agreements to the Federal or cooperator fiscal year. Because the previous agreement period is from November 1 through October 31, this new agreement will end on September 30 for an 11 month program, and the next agreement period will be from October 1 through September 30.

Changes to the LACSD WY21 program from WY20 as result of USGS improvements to financial management processes are as follows.

- Customer Matching Funds (CMF) were reduced due to stagnate Federal Funding over the last ten years. CMF were reduced from \$7,950 in WY 2020 to \$7,340 in WY 2021. The CMF of \$7,340 will remain flat for the upcoming years unless there is a change in Federal Funding coming in.
- Standard Gage Costs remain the same as WY 2020.
- Due to the 11month Joint Funding Agreement (JFA), costs for LACSD were reduced from \$21,800 to \$19,470 which is a decrease of 11.7%. Please keep in mind that the increase for next year will be inflated due to going back to a 12 month agreement.

The proposed program elements and associated costs are as follows:

The surface water program will consist of the continued operation and maintenance of the streamgaging station on Grass Valley Lake Tunnel Outlet at Lake Arrowhead, installed during water year 2008. The station consists of a Data Collection Platform (DCP) equipped with a pressure transducer capable of recording gage height (stage) readings at 15 minute intervals. Data

Ms. Catherine Cerri, General Manager - Lake Arrowhead Community Services District

collected from the streamgaging station is transmitted hourly and stored in the National Water Information System (NWIS) at <http://nwis.waterdata.usgs.gov>. Data for Grass Valley Lake Tunnel Outlet may be viewed at http://waterdata.usgs.gov/nwis/uv?site_no=10260855.

1. Surface Water Monitoring

The station costs are as follows:

<u>Station number and name</u>	<u>LACSD Funds</u>	<u>USGS Funds</u>	<u>Total Funds</u>
10260855 Grass Valley Lake Tunnel outlet at Lake Arrowhead	\$14,430	\$7,340	\$21,770
TOTAL	\$14,430	\$7,340	\$21,770

All data collected will be entered into the USGS database with appropriate quality control, published, and will be available upon request.

Total WY 2021 cost for Element 1 -- \$ 21,770

Ms. Catherine Cerri, General Manager - Lake Arrowhead Community Services District

2. Precipitation Monitoring

The precipitation monitoring program will consist of the continued operation and maintenance of the Bernina Drive Precipitation Gage at Lake Arrowhead (341545117124001). The USGS will perform an annual calibration of the precipitation gage and will work in cooperation with LACSD staff to ensure that the gage is functioning properly or repaired as necessary. The measured data from the precipitation gage will be reviewed for quality assurance and input into the National Water Information System (NWIS). The USGS will publish the precipitation data in the USGS annual data report at the end of WY20. Data for the site can be viewed online at http://waterdata.usgs.gov/nwis/uv?site_no=341545117124001.

The station costs are as follows:

<u>Station number and name</u>	<u>LACSD Funds</u>	<u>USGS Funds</u>	<u>Total Funds</u>
341545117124001 Bernina Drive Precipitation Gage at Lake Arrowhead	\$5,040	\$-0-	\$5,040
TOTAL	\$5,040	\$-0-	\$5,040

Total WY 2021 cost for Element 2 -- \$5,500

SUMMARY

The total cost of the proposed cooperative water-resources program in WY21 is \$27,270. The cost to LACSD is \$19,470 and subject to the availability of Federal matching funds, the USGS will provide \$7,340. The proposed costs for WY21 by program element are as follows:

Program Element	LACSD Funds	USGS Funds	Total Funds
1. Surface-Water Monitoring	\$14,430	\$7,340	\$21,770
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TOTAL	\$19,470	\$7,340	\$26,810

Enclosed are two originals of Joint Funding Agreement (JFA) XXXXXXXXXXXXXXX, signed by our agency, for your approval. If you are in agreement with this proposed program, please return one fully executed JFA to our office. Work performed with funds from this agreement will be conducted on a fixed-price basis. Billing for this agreement will be rendered quarterly.

The USGS is required to have an agreement in place prior to any work being performed on a project. We request that a fully executed JFA be returned prior to November 1, 2020. If it is not received by November 1, we will be required to suspend operations until an agreement is received.

Ms. Catherine Cerri, General Manager - Lake Arrowhead Community Services District

If you have any questions concerning this program please contact Al Caldwell (Associate Director for Data) in our San Diego office at (619) 225-6103, or Jonathan Newby, Redlands Field Office Chief.. If you have any administrative questions please contact Janee Hiatt in our Sacramento Office at (916) 278-3001.

Sincerely,

Eric G, Reichard
Director, USGS California Water Science Center

Enclosures

cc: Al Caldwell, USGS CAWSC

DRAFT

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California State University
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TOTAL	\$5,040	\$-0-	\$5,040

Total WY 2021 cost for Element 2 -- \$5,500

SUMMARY

The total cost of the proposed cooperative water-resources program in WY21 is \$27,270. The cost to LACSD is \$19,470 and subject to the availability of Federal matching funds, the USGS will provide \$7,340. The proposed costs for WY21 by program element are as follows:

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Eric G, Reichard
Director, USGS California Water Science Center

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