

San Gorgonio Pass Water Agency

DATE: November 8, 2021

TO: Board of Directors

FROM: Lance Eckhart, General Manager

BY: Lance Eckhart, General Manager

SUBJECT: JOINT FUNDING AGREEMENT BETWEEN SAN GORGONIO PASS WATER AGENCY AND THE UNITED STATES GEOLOGICAL SURVEY FOR THE ANNUAL EXTENSION OF THE COOPERATIVE WATER RESOURCES PROGRAM

RECOMMENDATION

Staff recommends the Board approve the execution of a Joint Funding Agreement regarding the annual extension of the Cooperative Water Resources Program between the Agency and the United States Geological Survey (USGS) for the fiscal year 2021-2022 (FY 2021-22).

PREVIOUS CONSIDERATION

- Board of Directors: A cooperative agreement has been considered annually and approved by the Board since 1995.

BACKGROUND

A cooperative water resources program between the Agency and the USGS has been in place since 1995. The program has served, and continues to serve, as an integral part of the Agency's ability to understand and manage the basin(s). The extension of this program for FY 2021-22 will be crucial to the Agency's ongoing basin management efforts.

The elements of this cooperative agreement consist of:

1. Basin Wide Groundwater-Level Monitoring Network
 - USGS staff will monitor water levels at selected wells to supplement regional monitoring efforts and maintain the regional water level monitoring program.
2. Basin Wide Groundwater Water-Quality Monitoring Network
 - USGS staff will collect water quality samples at selected wells to supplement regional monitoring efforts and maintain the regional water-quality monitoring program.

ANALYSIS

Below is a list of tasks and funds associated with this program for FY 2021-22.

<u>Task No.</u>	<u>Description of Work</u>	<u>Agency Funds</u>	<u>USGS Funds</u>	<u>Total Funds</u>
1	Basin Wide Groundwater-Level Monitoring Network	57,355	12,520	69,875
2	Basin Wide Water-Quality Monitoring Network	73,875	14,950	88,825
<i>Total:</i>		131,230	\$27,470	\$158,700

The USGS has procured Cooperative Matching Funds (CMF) of \$27,470 to augment the total cost of this year's program. This is a slight increase in USGS matching funds over last year and almost a \$20,000 reduction in the Agency portion compared to the previous year.

A draft letter specifying work and expected matching funds from the USGS is attached (Attachment 1). Signing this letter will commit parties to specified work associated with Tasks 1 & 2 (Attachment 2). Following the signing of the attached letter, matching funds will be secured and the USGS will prepare a Joint Funding Agreement.

FISCAL IMPACT

The fiscal impact for the Agency would be \$131,230, with \$27,470 being matched by the USGS for a total of \$158,700 for FY 2021-22.

The Agency has budgeted \$150,000 in the FY 2021-22 General Fund Budget for USGS services.

ACTION

Enter into the USGS Joint Funding Agreement with the USGS for FY 2021-22.

ATTACHMENT

1. November 1, 2021 Draft USGS Letter to enter a Joint Funding Agreement
2. San Geronio Pass Water Agency Cooperative Program: Progress, Plans, and Costs



United States Department of the Interior

U.S. GEOLOGICAL SURVEY
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<https://www.usgs.gov/centers/ca-water/>

November 1, 2021

Lance Eckhart, PG, CHG
General Manager/Chief Hydrogeologist
San Geronio Pass Water Agency
1210 Beaumont Ave.
Beaumont CA 92223

Dear Mr. Eckhart:

This letter confirms discussions between our respective staffs, concerning the cooperative program between the San Geronio Pass Water Agency (SGPWA) and the U.S. Geological Survey (USGS) during the period October 31, 2021 to November 30, 2022. The work proposed under the enclosed Joint Funding Agreement (JFA) is a continuation of the cooperative basin-wide monitoring network and study to identify, characterize and evaluate potential artificial-recharge sites for conjunctive use in the San Geronio Pass area. The program consists of two main tasks: (Task 1) basin-wide Water-level monitoring and (Task 2) basin-wide Water-quality monitoring. A description of progress on these tasks is included as an attachment to this letter.

The total cost of the proposed cooperative water-resources program is \$158,700.00. Of this total, SGPWA will contribute \$131,230.00 and, subject to the availability of Cooperative Matching Funds (CMF), the USGS will contribute \$27,470.00 The proposed period for this program is October 31, 2021 to November 30, 2022. Summary of costs attached.

Table 1. FFY22 Budget

Program element	USGS	SGPWA	Total
Task 1 Water-Level Monitoring	\$12,520	\$57,355	\$69,875
Task 2 Water-Quality Monitoring	\$14,950	\$73,875	\$88,825
Total	\$27,470	\$131,230	\$158,700

Enclosed are two copies of Joint Funding Agreement (JFA) xxx for your approval. Work performed with funds from this agreement will be conducted on a fixed-price basis. If the JFA is acceptable, please return one of the signed copies with original signatures to our office for further processing. The other is for your files.

If you have any questions concerning the program described above, please contact Allen Christensen at (619) 225-6175 or Christina Stamos-Pfeiffer at (619) 225-6144 in our San Diego Office. If you have any administrative questions, please contact Irene Rios at (619) 225-6156.

Sincerely,

Eric Reichard
Director, USGS California Water Science Center

Enclosures:

Cc Allen Christensen, USGS CAWSC
Christina Stamos-Pfeiffer, USGS CAWSC

San Gorgonio Pass Water Agency Cooperative Program: Progress, Plans, and Costs

Task 1 – Groundwater-Level Monitoring

Progress

A basin-wide groundwater-level monitoring network was established in the San Gorgonio Pass area in Federal Fiscal Year 1997 (FFY97) to evaluate existing hydrologic conditions and to monitor the effects of pumping and artificial recharge on the groundwater system. A key component of the network is collecting data from the multiple-well monitoring sites, which provide information on water-level changes and potential vertical gradients within aquifers.

Plans

In FFY22, U.S. Geological Survey (USGS) personnel accompanied San Gorgonio Pass Water Agency (SGPWA) personnel in the spring and fall to measure water levels at 113 wells (table 2 and figure 2). Data collected as part of the water-level network are available through the USGS National Water Information System (NWIS) online database (Figure 1 and table 2).

Total cost for the above work is \$69,875. Of this total, SGPWA will contribute \$57,355 and subject to the availability of Cooperative Matching Funds (CMF), the USGS will contribute \$12,520, as reflected in the summary funding table 1.

Task 1, FFY 2022 cost for water-level monitoring \$ 69,875

Task 2 – Water-quality Monitoring

Progress

In FFY21, the USGS sampled 13 of the planned 13 wells, the samples collected were analyzed for major ions, nutrients, selected trace elements, stable isotopes of oxygen and hydrogen. Complete results for all samples collected as part of the water-quality monitoring network are available through the USGS NWIS online database. NWIS links to individual wells are provided in table 3.

Per conversation between our respective staffs in FFY20, it was decided to restructure the water-quality network to minimize the increase in network costs as result the 11 additional wells added to the network (sites 11-13). In FFY22, the water-quality network the sample interval of each well in the network was increased to well sampled every four years instead of three (previous sample interval). This will allow for each site to be sampled every four years and help maintain reasonable cost of previous years.

San Geronio Pass Water Agency Cooperative Program: Progress, Plans, and Costs

Plans

The FFY22 water-quality monitoring network includes 49 wells (table 1 and figure 2). The USGS plans to sample 13 wells. The samples will be analyzed for major ions, nutrients, selected trace elements, and stable isotopes of oxygen and hydrogen. All data collected will be entered into the USGS database with appropriate quality control and will be available on NWISWeb.

Total cost for Task 2 is \$88,825. Of this total, SGPWA will contribute \$73,875 and subject to the availability of Cooperative Matching Funds (CMF), the USGS will contribute \$14,950, as reflected in the summary funding table 1.

Task 2, 2022 cost for water-quality monitoring **\$ 88,825**

Total FFY 2022 costs for task 1-3 **\$ 158,700**

DRAFT