



United States Department of the Interior

U.S. GEOLOGICAL SURVEY
California Water Science Center
6000 J Street
Sacramento, CA 95819

September 27, 2023

Mr. Kevin Booker
Water Agency Engineer
Sonoma County Water Agency
404 Aviation Boulevard
Santa Rosa, CA 95403

Dear Mr. Booker:

Attached is the Joint Funding Agreement (JFA) 24ZGJFA01000012, signed by our agency, for your approval to enact the cost changes to the project(s) California Water Science Center Water Resources Investigations, during the period October 1, 2023 through September 30, 2024 in the amount of \$663,240 from your agency. U.S. Geological Survey contributions for this agreement are \$44,100 for a combined total of \$707,340. If you are in agreement with this proposed program, please return the fully executed signed copy to CAgagAdmin@usgs.gov (preferred) or send one fully executed paper copy to Cade Castro at the address in the letter head.

Federal law requires that we have a signed agreement before we start or continue work. Please return the signed agreement by **October 1, 2023**. If, for any reason, the agreement cannot be signed and returned by the date shown above, please contact Andrew Watson by phone number (707) 468-4042 or email afwatson@usgs.gov to make alternative arrangements.

This is a fixed cost agreement to be billed quarterly via Down Payment Request (automated Form DI-1040). Please allow 30-days from the end of the billing period for issuance of the bill. If you experience any problems with your invoice(s), please contact Cade Castro at phone number (970) 462-2034 or email at ccastro@usgs.gov.

The results of all work performed under this agreement will be available for publication by the U.S. Geological Survey. We look forward to continuing this and future cooperative efforts in these mutually beneficial water resources studies.

Sincerely,

ANKE MUELLER-
SOLGER

Digitally signed by ANKE
MUELLER-SOLGER
Date: 2023.09.28
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Anke Mueller-Solger
Director, USGS California Water Science Center

Enclosure
Detailed Summary

Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 600000828
Agreement #: 24ZGJFA01000012
Project #: ZG00GZV
TIN #: 94-6000539

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of the October 1, 2023, by the U.S. GEOLOGICAL SURVEY, California Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the Sonoma County Water Agency party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation Water Resource Investigations (per attachment), herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00.

- (a) \$44,100 by the party of the first part during the period October 1, 2023 to September 30, 2024
- (b) \$663,240 by the party of the second part during the period October 1, 2023 to September 30, 2024
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: \$0.00.

Description of the USGS regional/national program:

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website (<https://www2.usgs.gov/fsp/>).

Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 600000828
Agreement #: 24ZGJFA01000012
Project #: ZG00GZV
TIN #: 94-6000539

9. Billing for this agreement will be rendered quarterly. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

USGS Technical Point of Contact

Name: Andrew Watson
Supervisory Hydrologic Technician
Address: 2550 No. State Street Suite 1
Ukiah, CA 95482
Telephone: (707) 468-4042
Fax: (707) 468-4022
Email: afwatson@usgs.gov

Customer Technical Point of Contact

Name: Kevin Booker
Water Agency Engineer
Address: 404 Aviation Boulevard
Santa Rosa, CA 95403
Telephone: (707) 521-1865
Fax:
Email: Kevin.Booker@scwa.ca.gov

USGS Billing Point of Contact

Name: Cade Castro
Budget Analyst
Address: 6000 J Street Placer Hall
Telephone: (970) 462-2034
Fax:
Email: ccastro@usgs.gov

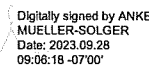
Customer Billing Point of Contact

Name: Kevin Booker
Water Agency Engineer
Address: 404 Aviation Boulevard
Santa Rosa, CA 95403
Telephone: (707) 521-1865
Fax:
Email: Kevin.Booker@scwa.ca.gov

U.S. Geological Survey
United States
Department of Interior

Sonoma County Water Agency

Signature

ANKE
MUELLER-
By SOLGER  Date: _____
Name: Anke Mueller-Solger
Title: Director, USGS California Water Science
Center

Signatures

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

Sonoma County Water Agency
Attachment for 24ZGJFA01000012
2023-10-01 to 2024-09-30

SURFACE WATER							
SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST.OTHER CASHFUNDS	TOTAL COST
*****	Discharge, Measurement	QMEAS	40	1		\$14,000	
	Discharge, Measurement	QMEAS	37	1		(\$12,950)	
				SW Total:			\$1,050
11458433	SONOMA CREEK A KENWOOD CA Full Range Streamflow Station	QCONT	1	1	\$7,350	\$17,850	
				SW Total:			\$25,200
11458500	SONOMA C A AGUA CALIENTE CA Full Range Streamflow Station	QCONT	1	1		\$13,150	
				SW Total:			\$13,150
11458600	NATHANSON C A SONOMA CA Full Range Streamflow - Seasonal	QCONT-SEASON	1	1		\$15,800	
				SW Total:			\$15,800
11461500	EF RUSSIAN R NR CALPELLA CA Full Range Streamflow Station	QCONT	1	1	\$7,350	\$17,850	
				SW Total:			\$25,200
11462080	RUSSIAN R NR TALMAGE CA Full Range Streamflow Station	QCONT	1	1		\$13,150	
				SW Total:			\$13,150
11463000	RUSSIAN R NR CLOVERDALE CA Full Range Streamflow Station	QCONT	1	1	\$7,350	\$17,850	
				SW Total:			\$25,200
11463200	BIG SULPHUR C NR CLOVERDALE CA Full Range Streamflow Station	QCONT	1	1		\$26,300	
				SW Total:			\$26,300
11463500	RUSSIAN R A GEYSERVILLE CA Full Range Streamflow Station	QCONT	1	1		\$26,300	
				SW Total:			\$26,300
11463682	RUSSIAN R A JIMTOWN CA Full Range Streamflow Station	QCONT	1	1		\$26,300	
				SW Total:			\$26,300
11463900	MAACAMA C NR KELLOGG CA Full Range Streamflow Station	QCONT	1	1		\$26,300	
				SW Total:			\$26,300
11463980	RUSSIAN R A DIGGER BEND NR HEALDSBURG CA Partial range streamflow O&M	QPART	1	1		\$15,800	
				SW Total:			\$15,800
11464000	RUSSIAN R NR HEALDSBURG CA Full Range Streamflow Station	QCONT	1	1		\$19,730	
				SW Total:			\$19,730
11465240	DRY C BLW LAMBERT BR NR GEYSERVILLE CA Full Range Streamflow Station	QCONT	1	1		\$26,300	
				SW Total:			\$26,300
11465350	DRY C NR MOUTH NR HEALDSBURG CA Full Range Streamflow Station	QCONT	1	1		\$26,300	
				SW Total:			\$26,300
11465390	RUSSIAN R NR WINDSOR CA Full Range Streamflow - Seasonal	QCONT-SEASON	1	1		\$15,800	
				SW Total:			\$15,800
11465660	COPELAND C A ROHNERT PARK CA						

	Full Range Streamflow - Seasonal	QCONT-SEASON	1	1		\$15,800	
					SW Total:		\$15,800
11465680	LAGUNA DE SANTA ROSA A STONY PT RD NR COTATI CA Full Range Streamflow Station	QCONT	1	1	\$7,350	\$17,850	
					SW Total:		\$25,200
11465690	COLGAN C NR SANTA ROSA CA Full Range Streamflow - Seasonal	QCONT-SEASON	1	1		\$15,800	
					SW Total:		\$15,800
11465700	COLGAN C NR SEBASTOPOL CA Full Range Streamflow Station	QCONT	1	1	\$7,350	\$17,850	
					SW Total:		\$25,200
11465820	SANTA ROSA C DIV A VORTEX NR SANTA ROSA CA Stage, Measurement, Crest Stage Gage	STGMEAS-CREST	1	1		\$5,490	
					SW Total:		\$5,490
11465821	SANTA ROSA C DIV A ORIFICE NR SANTA ROSA CA Stage, Measurement, Crest Stage Gage	STGMEAS-CREST	1	1		\$5,490	
					SW Total:		\$5,490
11466065	BRUSH C A SANTA ROSA CA Stage, Measurement, Crest Stage Gage	STGMEAS-CREST	1	1		\$5,490	
					SW Total:		\$5,490
11466150	MATANZAS C RES OUTFLOW NR SANTA ROSA CA Stage, Measurement, Crest Stage Gage	STGMEAS-CREST	1	1		\$5,490	
					SW Total:		\$5,490
11466170	MATANZAS C A SANTA ROSA CA Full Range Streamflow - Seasonal	QCONT-SEASON	1	1		\$15,800	
					SW Total:		\$15,800
11466200	SANTA ROSA C A SANTA ROSA CA Full Range Streamflow - Seasonal	QCONT-SEASON	1	1		\$15,800	
					SW Total:		\$15,800
11466800	MARK WEST C NR MIRABEL HEIGHTS CA Full Range Streamflow Station	QCONT	1	1		\$26,300	
					SW Total:		\$26,300
11467002	RUSSIAN R A JOHNSONS BEACH A GUERNEVILLE CA Seasonal stage gage	STAGE-SEASON	1	1		\$5,600	
					SW Total:		\$5,600
11467200	AUSTIN C NR CAZADERO CA Full Range Streamflow Station	QCONT	1	1	\$7,350	\$17,850	
					SW Total:		\$25,200
11467270	RUSSIAN R A HIGHWAY 1 BRIDGE NR JENNER CA Stage, Continuous	STGCONT	1	1		\$9,200	
					SW Total:		\$9,200
SW Grand Total:						\$44,100	\$485,640
							\$529,740

WATER QUALITY

SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST. CASH FUNDS	OTHER FUNDS	TOTAL COST
11458433	SONOMA CREEK A KENWOOD CA							
	Water Quality, Continuous	WQCONT	1	1		\$12,260		
								WQ Total: \$12,260
11461500	EF RUSSIAN R NR CALPELLA CA							
	Water Quality, Continuous	WQCONT	1	1		\$3,040		
	Water Quality, Continuous	WQCONT	1	1		\$9,800		
	Water Quality, Continuous	WQCONT	1	1		\$2,990		
	Water Quality, Continuous	WQCONT	1	1		\$12,260		
								WQ Total: \$28,090
11462500	RUSSIAN R NR HOPLAND CA							
	Water Quality, Continuous	WQCONT	1	1		\$9,800		
	Water Quality, Continuous	WQCONT	1	1		\$2,990		
	Water Quality, Continuous	WQCONT	1	1		\$3,040		
	Water Quality, Continuous	WQCONT	1	1		\$12,260		
								WQ Total: \$28,090
11463000	RUSSIAN R NR CLOVERDALE CA							
	Water Quality, Continuous	WQCONT	1	1		\$2,590		
	Water Quality, Continuous	WQCONT	1	1		\$1,520		
								WQ Total: \$4,110
11463500	RUSSIAN R A GEYSERVILLE CA							
	Water Quality, Continuous	WQCONT	1	1		\$5,170		
	Water Quality, Continuous	WQCONT	1	1		(\$5,070)		
								WQ Total: \$100
11463682	RUSSIAN R A JIMTOWN CA							
	Water Quality, Continuous	WQCONT	1	1		\$9,600		
	Water Quality, Continuous	WQCONT	1	1		\$2,070		
	Water Quality, Continuous	WQCONT	1	1		\$1,500		
	Water Quality, Continuous	WQCONT	1	1		\$1,520		
	Water Quality, Continuous	WQCONT	1	1		\$6,130		
								WQ Total: \$20,820
11463980	RUSSIAN R A DIGGER BEND NR HEALDSBURG CA							
	Water Quality, Continuous	WQCONT	1	1		\$9,800		
	Water Quality, Continuous	WQCONT	1	1		\$3,040		
	Water Quality, Continuous	WQCONT	1	1		\$2,990		
	Water Quality, Continuous	WQCONT	1	1		\$12,260		
								WQ Total: \$28,090
11465240	DRY C BLW LAMBERT BR NR GEYSERVILLE CA							
	Water Quality, Continuous	WQCONT	1	1		\$9,600		
	Water Quality, Continuous	WQCONT	1	1		\$1,500		
	Water Quality, Continuous	WQCONT	1	1		\$1,520		
	Water Quality, Continuous	WQCONT	1	1		\$6,130		
								WQ Total: \$18,750
11467000	RUSSIAN R A HACIENDA BRIDGE NR GUERNEVILLE CA							
	Water Quality, Continuous	WQCONT	1	1		\$9,800		
	Water Quality, Continuous	WQCONT	1	1		\$2,990		
	Water Quality, Continuous	WQCONT	1	1		\$3,040		
	Water Quality, Continuous	WQCONT	1	1		\$12,260		
								WQ Total: \$28,090
								WQ Grand Total: \$168,400
						\$168,400		\$168,400

GROUND WATER

SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST. CASH FUNDS	OTHER FUNDS	TOTAL COST
11463500	RUSSIAN R A GEYSERVILLE CA							
	Groundwater level, Continuous	GWCONT	1	1		\$9,200		
	Groundwater level, Continuous	GWCONT	1	1		(\$9,200)		
				GW Total:				
383930122494801	009N009W02F001M							
	Groundwater level, Continuous	GWCONT	1	1		\$9,200		
				GW Total:				\$9,200
				GW Grand Total:		\$9,200		\$9,200

SUMMARY FOR

TYPE	USGS FUNDS	CUST. CASH	OTHER FUNDS	TOTAL COST
SURFACE WATER (SW)	\$44,100	\$485,640		\$529,740
WATER QUALITY (WQ)		\$168,400		\$168,400
GROUND WATER (GW)		\$9,200		\$9,200
GRAND TOTAL				\$707,340