

UPPER COLORADO RIVER ENDANGERED FISH RECOVERY PROGRAM

FY 2022-23 SCOPE OF WORK

PROJECT: 19

Project Title

Recovery Program Hydrology Support

Bureau of Reclamation Agreement Number:

N/A

Reclamation Agreement Term

N/A

Note: Recovery Program FY22-23 scopes of work are drafted in May 2021. They often are revised before final Program approval and may subsequently be revised again in response to changing Program needs. Program participants also recognize the need and allow for some flexibility in scopes of work to accommodate new information (especially in nonnative fish management projects) and changing hydrological conditions.

Lead Agency:

U.S. Fish and Wildlife Service

Principal Investigator:

Don Anderson, Instream Flow Coordinator
Upper Colorado Endangered Fish Recovery Program
P.O. Box 25486, DFC
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Lakewood, Colorado 80228
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Email: donald_anderson@fws.gov

Category:

- Ongoing project
- Ongoing-revised project
- Requested new project
- Unsolicited proposal

Expected Funding Source:

- Annual funds
- Capital funds
- Other [explain]

Relationship to RIPRAP:

General Recovery Program Support Action Plan:

I.A. Evaluate methods for defining habitat-flow needs and select methods most appropriate to specific stream reaches.

Green River Action Plan: Mainstem

I.A.3.d. Operate Flaming Gorge Dam to provide winter and spring flows and revised summer/fall flows, pursuant to the 1992 Biological Opinion and 2006 Record of Decision.

I.A.4., I.B.3. Legally protect identified flows.

I.D.1. Evaluate and revise as needed, flow regimes to benefit endangered fish populations.

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I.D.2.f. Evaluate effect of baseflow variability on backwater maintenance and quality.

Yampa River Action Plan:

I.A.1.f Install, operate, and/or maintain stream flow monitoring gages.

I.B.2.a.2.(c). Deliver water for endangered fish.

Duchesne River Action Plan:

I.D. Coordinate reservoir operations.

I.F. Determine need and feasibility of additional gaging.

White River Action Plan:

I.A. Assess need for tributary management plan for the White River.

I.B.3. Develop and implement a White River Management Plan.

I.F. Evaluate and revise as needed, flow regimes to benefit endangered fish populations.

Colorado River Action Plan

I.A.3.a. Collect data for 15-MR PBO depletion accounting.

I.A.5. Provide and legally protect instream flows pursuant to Colorado River PBO

I.A.5.a. Deliver Ruedi flows to 15-Mile Reach

I.A.5.f. Pursuant to Wolford Mountain (Muddy Creek) Biological Opinion, deliver up to 6,000 acre-feet of water.

I.A.5.g. Coordinated Reservoir operations (CROS)

I.A.5.l. Coordinated Facilities operations (CFOPS)

I.A.6. Review implementation of RIPRAP items to determine timely compliance with applicable schedules (every 2 yrs. beginning in 2003).

I.B.4.c.2. Continue annual Aspinall Unit coordinating meetings.

Gunnison River Action Plan

I.C.3.e.(3). Deliver flows from Aspinall Unit pursuant to Aspinall Biological Opinion and record of decision.

I.D.1.a.(6). Evaluate effects of operations to meet the Proposed Action on the Gunnison River thermal regime.

I.E. Evaluate and revise, as needed, Gunnison River flow regimes to benefit endangered fish populations.

I.G. Evaluate and revise as needed, flow regimes to benefit endangered fish populations.

Study Background/Rationale and Hypotheses:

This proposal represents the U.S. Fish and Wildlife Service Hydrologist activities that support the Program Directors Office, river temperature monitoring, and associated research and monitoring activities. Also, this includes river temperature data collection support provided by the Grand Junction and Vernal Fish and Wildlife Conservation offices (Task 1). Activities are, for the most part, broken down in this document by specific task, with separate task descriptions and deliverables.

Study Goals, Objectives, End Product(s):

Study Goal: To identify, evaluate, support, and protect instream flows to benefit Colorado River endangered fish.

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Study Objectives:

1. To negotiate contracts and implement water leases for endangered fish.
2. To collect river temperature and other hydrologic data in support of the Recovery Program's research and resource-management priorities.
3. To manage water for augmenting instream flows on behalf of the Recovery Program, and coordinate with other water managers, water users, and third-party interests to maximize instream-flow benefits for endangered fish.
4. To provide staff support to the Recovery Program Directors Office on an as-needed basis for various hydrologic and habitat evaluations and proposals, including instream flow identification, protection, and augmentation.

Study Area:

The Colorado River and the Green River Basin above Lake Powell.

Study Methods/Approach:

The Program Hydrologist performs a variety of specific tasks (described below) to support instream flows that promote endangered fish recovery on behalf of the Recovery Program. This includes providing hydrological and water temperature information to Recovery Program researchers and field crews.

Task Description, Deliverables and Schedule:

Task 1. Temperature Data Collection and Analysis:

In coordination with the Grand Junction Fish and Wildlife Conservation Office (GJFWCO) in Grand Junction, Colorado and the Green River Basin Fish and Wildlife Conservation Office (GRBFWCO) in Vernal, Utah, water temperature data will continue to be systematically gathered to support temperature monitoring and modeling, fish life stage monitoring and forecasting, and other monitoring and research efforts. Temperature loggers are currently installed at the following locations on the Gunnison, Uncompaghre, Colorado, Green and White rivers (single asterisks denote those currently serviced by the Grand Junction FWCO; double asterisks denote recently-initiated sites serviced by the Vernal FWCO which are likely to become 'permanent' monitoring locations):

- Gunnison River above Blue Mesa Reservoir*
- Gunnison River below the North Fork Confluence* (aka "Austin")
- Gunnison River above the Uncompaghre confluence*
- Gunnison River at Peeple's Orchard*
- Uncompaghre River Near Delta*
- Colorado River at the Slide*
- Colorado River at Palisade*
- Colorado River at Rulison*
- Colorado River at Walker*
- Colorado River at Gold Bar*
- Green River at Mitten Park (2 locations)

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- Green River at Dinosaur National Monument Visitor Center
- Green River at Ouray Refuge
- Green River at Brown's Park
- Yampa River at Craig
- Yampa River at Juniper Bridge
- Yampa River at Shepherd's Crossing
- Yampa River at Echo Park
- White River at Enron Crossing**
- White River at Hardaway**

These thermographs will be checked periodically and serviced following the Recovery Programs' [temperature monitoring and reporting protocol](#). The temperature data, together with climatic, hydrologic, and stream geometry data, will be used to support ongoing research and future river temperature modeling and habitat studies. The temperature data from each of the thermographs will be made available on the Recovery Program website within a few weeks after the data are collected. The temperature data along with the channel monitoring and sediment monitoring data will add to the Recovery Program Physical Data Repository.

Temperature data collection on the Colorado and Gunnison Rivers by the Grand Junction FWCO was consolidated into this Scope of Work beginning in FY99 and is included in the budget table. Information for all temperature monitoring sites can be found at: www.fws.gov/mountain-prairie/riverdata/temperatures.html.

Task 2. Hydrology Support for Upper Colorado River Basin Biological Opinions:

The Program Hydrologist will help coordinate releases from Flaming Gorge Reservoir (Green River) and the Aspinall Unit (Gunnison River) for endangered fish, pursuant to the corresponding reservoir operation plans and the biological opinions of 2005 and 2009. Releases are monitored and researchers and administrators will be notified of important changes in planned releases. The Program Hydrologist will also schedule and monitor releases from Ruedi, Granby, Williams Fork and Wolford Mountain reservoirs for flow augmentation in the mainstem Colorado River pursuant to the 1999 15-Mile Reach programmatic biological opinion (PBO).

The Program Hydrologist will support activities identified in the Yampa River Management Plan and Programmatic Biological Opinion (2005) for managing the water from Elkhead Reservoir. For the White River basin, the Program Hydrologist will continue coordinating efforts to develop a White River management plan that: 1) identifies historic and future depletion scenarios; 2) uses (and refines) the Recovery Program's interim endangered fish flow recommendations and current hydrology to identify the effects of water development and protect endangered fish habitat; and 3) identifies recovery actions needed to offset depletion effects. A description of preferred management actions and their anticipated benefits will be incorporated into a White River Management Plan that may serve as the basis for a Section 7 consultation and development of a White River PBO.

Task 3. Hydrology Support for Other Scopes of Work:

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Coordinates Reservoir Operations: The Program Hydrologist will provide assistance to Bureau of Reclamation and CWCB in implementing the annual coordinated reservoir operations (CROS) program. Monitoring activities may be implemented to identify the habitat benefits of coordinated reservoir activities. Operations will be coordinated with the Loveland and Grand Junction offices of Bureau of Reclamation, Denver Water, CWCB, and the State Engineer. Program Hydrologist activities will include: representing the Service at coordinated reservoirs work group meetings, assisting in public outreach, assisting in the preparation of press releases, representing the Recovery Program at public meetings, monitoring runoff, and participating in scheduling reservoir releases to enhance peaks.

Promotes Flow Protection: The Program Hydrologist will continue working with the Water Acquisition Committee to describe and implement strategies for achieving recommended flows that protect the environment and protect endangered fish. The Hydrologist will also coordinate efforts to evaluate and implement strategies to help ensure the protection and enhancement of instream flows for the endangered fishes over the long-term, i.e., beyond the life of the Colorado River Recovery Program and/or beyond the de-listing of one or more species.

Task 4. USGS Gage Installation and Maintenance (See SOW #8)

The Program Hydrologist will continue to work with the U.S. Geological Survey, Bureau of Reclamation, and Colorado Division of Wildlife to contract payments to maintain certain streamflow and temperature gages.

Task 5. Hydrology Support for the Water Acquisition Committee and Water Right Acquisition

The Program Hydrologist chairs the Water Acquisition Committee (WAC) which oversees water concerns, water investigations, water-related agreements, and possible water leasing opportunities. Over the years, water right acquisition has become less of a Program focus, while access to stored water supplies and optimization of existing operations has become more of a WAC focus. The tasks listed below support the current mission of the WAC.

- Develops scopes of work for water studies, oversees contracts, and reviews the contracted work.
- Coordinates flow releases from Elkhead Reservoir to the Yampa River with the Colorado River District, the City of Craig, Tri-State Power, and the District Engineer's office, and holds a weekly Yampa River flow coordination call during the irrigation season with interested parties.
- Supports the Utah Ecological Services Field Office in their involvement with the Flaming Gorge Technical Work Group to coordinate flows for critical habitat for the Green River.
- Prepares scopes of work and compiles annual reports for projects in support of WAC-endorsed activities. Annual reports will be submitted to the PDO in November of each year.

Task 6. General Support Activities

The Program Hydrologist will participate in technical discussions with CWCB staff in an effort to identify appropriate instream flow targets for endangered fish. The work will include attending meetings, reviewing reports, providing comments, performing independent analyses, and reporting back to the Service and the WAC. This effort supports the flow filings outlined in the RIPRAP.

The Program Hydrologist will represent the Service and the Recovery Program as a representative at

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meetings with various water organizations. This may include meetings with basin roundtable groups, irrigation and water conservancy districts, river recreation interests, river conservation organizations, and others. It may also include attending major annual events involving water stakeholders, such as conferences convened by the Colorado Water Congress, the Utah Water Users Association, the Wyoming Water Association, and the Colorado River Water Users Association.

One key role of the Program Hydrologist will be to represent the Service at meetings of the “HUP Managing Entities”, a group established to implement the Orchard Mesa Check Settlement and manage the ‘Historic Users Account’ at Green Mountain Reservoir. This will include attending annual kickoff and wrap-up meetings on the west slope, and participation in weekly conference calls beginning early in July and ending when irrigation ends in October. Each week, projected and actual river flows must be tracked, flow targets coordinated with Service biologists, and recommendations made on how best to utilize reservoir water secured by the Recovery Program and Program partners to meet targets and provide benefits to endangered fish.

The Program Hydrologist also will serve as Recovery Program liaison with the Utah Department of Natural Resources and The Nature Conservancy regarding potential additional instream flow protection and enhancement activities on the Price and Duchesne rivers in Utah. Similarly, the Hydrologist will remain engaged in discussions with the State of Utah, the U.S. Fish & Wildlife Service Ecological Services Office, and environmental interests for the evaluation and development of strategies to address potential impacts of future water resources development along the Green River in Utah.

The Program Hydrologist will participate in updating the RIPRAP, developing Program Guidance, providing annual hydrology summaries, and other activities in support of the Program Directors Office.

Deliverables, Due Dates, and Budget by Fiscal Year:

Given the diverse and continually evolving nature of the issues identified and the follow-up work involved, some deliverables are hard to specify in advance. Annual progress presentations will be prepared for the Recovery Program and submitted to the WAC for consideration. Deliverables that are direct products of the tasks outlined above include:

- A database of temperature data (thermographs) updated each year for each monitoring site, and maintained by the Recovery Program Database Manager (when this position is not vacant) or the Program Hydrologist. The data will be made available on the Recovery Program’s River Data Web Page (under ‘General’ /‘Recovery Program Data’ / ‘River Temperature Data’ at: <https://www.fws.gov/mountain-prairie/riverdata/temperatures.html>)
- A report generated each year documenting releases from Green Mountain, Ruedi, Granby, and Wolford Mountain reservoirs and returned via the Palisade Bypass Pipeline that describe release volumes to benefit the 15-Mile Reach for endangered fish habitat.
- A report prepared as necessary to document work on flow recommendations implementation. The Program Hydrologist will continue to coordinate the reviews by the Geomorphology Peer Review Panel, serve as Chair of the Water Acquisition Committee, develop annual updates for

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the RIPRAP, coordinate scopes of work, develop meeting agendas, distribute meeting materials, and conduct meetings.

- Hydrologic updates will be presented at the Management Committee.
- Scopes of work will be prepared for projects under the purview of the WAC.

Budget Summary:

Fiscal Year	Total
2022	\$184,138
2023	\$189,473
2024	\$193,416
2025	\$197,290
2026	\$201,241

Reviewers:

Tom Chart, Kevin McAbee, Recovery Program Water Acquisition Committee.

SUMMARY OF PROPOSED COSTS

Name of Servicing Agency:	US Fish and Wildlife Service
Project Name:	#19 Recovery Program Hydrology Support

	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
	10/1/2021		10/1/2022		10/2/2023		10/1/2024		10/1/2025		
	Through		Through		Through		Through		Through		
Enter the BEGINNING dates for each year ----->	9/30/2022		10/1/2023		9/30/2024		9/30/2025		9/30/2026		
Enter the ENDING dates for each year ----->	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
DIRECT LABOR AND FRINGE BENEFIT COSTS:											
Direct Labor - Hourly	\$	126,700.16	\$	130,423.28	\$	133,031.74	\$	135,692.38	\$	138,406.23	\$ 664,253.79
Fringe Benefits - Hourly	\$	45,759.43	\$	47,090.81	\$	48,032.62	\$	48,993.27	\$	49,973.14	\$ 239,849.27
Subtotal of Direct Labor & Fringe Benefits:	\$	172,459.59	\$	177,514.08	\$	181,064.37	\$	184,685.65	\$	188,379.37	\$ 904,103.06
OTHER DIRECT COSTS:											
Materials and Supplies	\$	1,001.09	\$	1,001.09	\$	1,171.23	\$	1,194.65	\$	1,218.54	\$ 5,586.60
Travel Costs	\$	3,465.00	\$	3,553.00	\$	3,622.00	\$	3,701.00	\$	3,780.00	\$ 18,121.00
Equipment	\$	1,995.00	\$	2,034.90	\$	2,075.60	\$	2,117.11	\$	2,159.45	\$ 10,382.06
Contractors	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Subtotal of Other Direct Costs:	\$	6,461.09	\$	6,588.99	\$	6,868.83	\$	7,012.76	\$	7,157.99	\$ 34,089.66
INDIRECT/OVERHEAD COSTS:											
Subtotal of Labor and Other Direct Costs:	\$	178,920.68	\$	184,103.07	\$	187,933.19	\$	191,698.41	\$	195,537.36	
Total dollars exempt from indirect/overhead base:	\$	5,000.00	\$	5,100.00	\$	5,200.00	\$	5,300.00	\$	5,400.00	
<Enter Description of Indirect/OH Cost #1>	3.00%	\$ 5,217.62	3.00%	\$ 5,370.09	3.00%	\$ 5,482.00	3.00%	\$ 5,591.95	3.00%	\$ 5,704.12	\$ 27,365.78
Total dollars exempt from indirect/overhead base:	\$	-	\$	-	\$	-	\$	-	\$	-	
<Enter Description of Indirect/OH Cost #2>	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	\$ -
Subtotal of Indirect/Overhead Costs:	\$	5,217.62	\$	5,370.09	\$	5,482.00	\$	5,591.95	\$	5,704.12	\$ 27,365.78
GRAND TOTAL:	\$	184,138.30	\$	189,473.17	\$	193,415.19	\$	197,290.37	\$	201,241.48	\$ 965,558.50

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Enter Escalation Rates ----->	Yr 2 Escalation Rate	2.00%
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	Task # or Description	Federal Employee Name	Position Title	GS/WG Grade	GS/WG Step	OPM Pay Location	Current Hourly Rate	YEAR 1					YEAR 2				
								10/1/2021		Through	9/30/2022		10/1/2022		Through	10/1/2023	
								# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost
1	SOW 19 - Task 1	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	120.0	\$ 58.29	\$ 6,994.80	35.00%	\$ 2,448.18	120.0	\$ 59.46	\$ 7,134.70	35.00%	\$ 2,497.14
2	SOW 19 - GJ FWCO	Dale Ryden	Project Leader	14	8	Rest of US	\$ 64.35	28.0	\$ 64.35	\$ 1,801.80	42.80%	\$ 771.17	28.0	\$ 65.64	\$ 1,837.84	42.80%	\$ 786.59
3	SOW 19 - GJ FWCO		Fishery Biologist	11	8	Rest of US	\$ 38.21	16.0	\$ 38.21	\$ 611.36	51.50%	\$ 314.85	16.0	\$ 38.97	\$ 623.59	51.50%	\$ 321.15
4	SOW 19 - GJ FWCO		Admin Officer	9	8	Rest of US	\$ 23.72	160.0	\$ 23.72	\$ 3,795.20	65.00%	\$ 2,466.88	160.0	\$ 24.19	\$ 3,871.10	65.00%	\$ 2,516.22
5	SOW 19 - GJ FWCO		Biological Technician	7	5	Rest of US	\$ 20.72	20.0	\$ 20.72	\$ 414.40	43.30%	\$ 179.44	20.0	\$ 21.13	\$ 422.69	43.30%	\$ 183.02
6	SOW 19 - Task 2	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	440.0	\$ 58.29	\$ 25,647.60	35.00%	\$ 8,976.66	440.0	\$ 59.46	\$ 26,160.55	35.00%	\$ 9,156.19
7	SOW 19 - Task 3	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	200.0	\$ 58.29	\$ 11,658.00	35.00%	\$ 4,080.30	240.0	\$ 59.46	\$ 14,269.39	35.00%	\$ 4,994.29
8	SOW 19 - Task 4	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	200.0	\$ 58.29	\$ 11,658.00	35.00%	\$ 4,080.30	280.0	\$ 59.46	\$ 16,647.62	35.00%	\$ 5,826.67
9	SOW 19 - Task 5	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	520.0	\$ 58.29	\$ 30,310.80	35.00%	\$ 10,608.78	480.0	\$ 59.46	\$ 28,538.78	35.00%	\$ 9,988.57
10	SOW 19 - Task 6	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	580.0	\$ 58.29	\$ 33,808.20	35.00%	\$ 11,832.87	520.0	\$ 59.46	\$ 30,917.02	35.00%	\$ 10,820.96
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								2,284.00		\$ 126,700.16		\$ 45,759.43	2,304.00		\$ 130,423.28		\$ 47,090.81

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Yr 3 Escalation Rate 2.00%

Yr 4 Escalation Rate 2.00%

	Task # or Description	Federal Employee Name	Position Title	GS/WG Grade	GS/WG Step	OPM Pay Location	Current Hourly Rate	YEAR 3					YEAR 4				
								10/2/2023		Through	9/30/2024		10/1/2024		Through	9/30/2025	
								# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost
1	SOW 19 - Task 1	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	120.0	\$ 60.64	\$ 7,277.39	35.00%	\$ 2,547.09	120.0	\$ 61.86	\$ 7,422.94	35.00%	\$ 2,598.03
2	SOW 19 - GJ FWCO	Dale Ryden	Project Leader	14	8	Rest of US	\$ 64.35	28.0	\$ 66.95	\$ 1,874.59	42.80%	\$ 802.33	28.0	\$ 68.29	\$ 1,912.08	42.80%	\$ 818.37
3	SOW 19 - GJ FWCO		Fishery Biologist	11	8	Rest of US	\$ 38.21	16.0	\$ 39.75	\$ 636.06	51.50%	\$ 327.57	16.0	\$ 40.55	\$ 648.78	51.50%	\$ 334.12
4	SOW 19 - GJ FWCO		Admin Officer	9	8	Rest of US	\$ 23.72	160.0	\$ 24.68	\$ 3,948.53	65.00%	\$ 2,566.54	160.0	\$ 25.17	\$ 4,027.50	65.00%	\$ 2,617.87
5	SOW 19 - GJ FWCO		Biological Technician	7	5	Rest of US	\$ 20.72	20.0	\$ 21.56	\$ 431.14	43.30%	\$ 186.68	20.0	\$ 21.99	\$ 439.76	43.30%	\$ 190.42
6	SOW 19 - Task 2	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	440.0	\$ 60.64	\$ 26,683.76	35.00%	\$ 9,339.32	440.0	\$ 61.86	\$ 27,217.44	35.00%	\$ 9,526.10
7	SOW 19 - Task 3	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	240.0	\$ 60.64	\$ 14,554.78	35.00%	\$ 5,094.17	240.0	\$ 61.86	\$ 14,845.88	35.00%	\$ 5,196.06
8	SOW 19 - Task 4	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	280.0	\$ 60.64	\$ 16,980.58	35.00%	\$ 5,943.20	280.0	\$ 61.86	\$ 17,320.19	35.00%	\$ 6,062.07
9	SOW 19 - Task 5	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	480.0	\$ 60.64	\$ 29,109.56	35.00%	\$ 10,188.35	480.0	\$ 61.86	\$ 29,691.75	35.00%	\$ 10,392.11
10	SOW 19 - Task 6	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	520.0	\$ 60.64	\$ 31,535.36	35.00%	\$ 11,037.37	520.0	\$ 61.86	\$ 32,166.06	35.00%	\$ 11,258.12
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21							\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
22							\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
23							\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
24							\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
25							\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
26							\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
27							\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
28							\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
29							\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
30							\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
31							\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
								2,304.00		\$ 133,031.74		\$ 48,032.62	2,304.00		\$ 135,692.38		\$ 48,993.27

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Yr 5 Escalation Rate	2.00%
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								YEAR 5							
								10/1/2025		Through	9/30/2026				
Task # or Description	Federal Employee Name	Position Title	GS/WG Grade	GS/WG Step	OPM Pay Location	Current Hourly Rate	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	Total Salary Cost	Total Fringe Cost	Total Labor Cost	
1	SOW 19 - Task1	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	120.0	\$ 63.09	\$ 7,571.40	35.00%	\$ 2,649.99	\$ 36,401.22	\$ 12,740.43	\$ 49,141.65
2	SOW 19 - GJ FWCO	Dale Ryden	Project Leader	14	8	Rest of US	\$ 64.35	28.0	\$ 69.65	\$ 1,950.33	42.80%	\$ 834.74	\$ 9,376.64	\$ 4,013.20	\$ 13,389.84
3	SOW 19 - GJ FWCO		Fishery Biologist	11	8	Rest of US	\$ 38.21	16.0	\$ 41.36	\$ 661.76	51.50%	\$ 340.80	\$ 3,181.54	\$ 1,638.49	\$ 4,820.04
4	SOW 19 - GJ FWCO		Admin Officer	9	8	Rest of US	\$ 23.72	160.0	\$ 25.68	\$ 4,108.05	65.00%	\$ 2,670.23	\$ 19,750.37	\$ 12,837.74	\$ 32,588.12
5	SOW 19 - GJ FWCO		Biological Technician	7	5	Rest of US	\$ 20.72	20.0	\$ 22.43	\$ 448.56	43.30%	\$ 194.23	\$ 2,156.55	\$ 933.79	\$ 3,090.34
6	SOW 19 - Task 2	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	440.0	\$ 63.09	\$ 27,761.79	35.00%	\$ 9,716.63	\$ 133,471.14	\$ 46,714.90	\$ 180,186.04
7	SOW 19 - Task 3	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	240.0	\$ 63.09	\$ 15,142.79	35.00%	\$ 5,299.98	\$ 70,470.84	\$ 24,664.79	\$ 95,135.63
8	SOW 19 - Task 4	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	280.0	\$ 63.09	\$ 17,666.59	35.00%	\$ 6,183.31	\$ 80,272.98	\$ 28,095.54	\$ 108,368.52
9	SOW 19 - Task 5	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	480.0	\$ 63.09	\$ 30,285.59	35.00%	\$ 10,599.96	\$ 147,936.48	\$ 51,777.77	\$ 199,714.25
10	SOW 19 - Task 6	TBD	Program Hydrologist	13	7	Denver	\$ 58.29	520.0	\$ 63.09	\$ 32,809.38	35.00%	\$ 11,483.28	\$ 161,236.02	\$ 56,432.61	\$ 217,668.63
11						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
12						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
13						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
14						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
15						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
16						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
17						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
18						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
19						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
20						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
21						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
22						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
23						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
24						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
25						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
26						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
27						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
28						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
29						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
30						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
31						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
								2,304.00		\$ 138,406.23		\$ 49,973.14	\$ 664,253.79	\$ 239,849.27	\$ 904,103.06

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES, AND SERVICES

Yr 2 Escalation Rate	0.00%
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	Task # or Description	Item Description	Rationale for Proposed Cost	Year 1			Year 2		
				Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal
1	SOW 19 Task 1 (PI + GJFWCO)	Logger anchoring replacement supplies, such as cables, clamps, weights.	\$749 was funded in FY20 Agreement (R20PG00024): Please see year 3 in linked document	\$ 749.00	1	\$ 623.92	\$ 749.00	1	\$ 623.92
2	SOW 19 Task 1 (PI + GJFWCO)	GSA Lease of Equip Code 6359 (monthly lease)	http://www.gsa.gov/portal/category/21852	\$ 448.00	0.133	\$ 59.58	\$ 448.00	0.133	\$ 59.58
3	SOW 19 Task 1 (PI + GJFWCO)	GSA Lease of Equip Code 6359 (mileage rate)	http://www.gsa.gov/portal/category/21852	\$ 0.40	792	\$ 317.59	\$ 0.40	792	\$ 317.59
4				\$ -	0	\$ -	\$ -	0	\$ -
5				\$ -	0	\$ -	\$ -	0	\$ -
6				\$ -	0	\$ -	\$ -	0	\$ -
7				\$ -	0	\$ -	\$ -	0	\$ -
8				\$ -	0	\$ -	\$ -	0	\$ -
9				\$ -	0	\$ -	\$ -	0	\$ -
10				\$ -	0	\$ -	\$ -	0	\$ -
11				\$ -	0	\$ -	\$ -	0	\$ -
12				\$ -	0	\$ -	\$ -	0	\$ -
13				\$ -	0	\$ -	\$ -	0	\$ -
14				\$ -	0	\$ -	\$ -	0	\$ -
15				\$ -	0	\$ -	\$ -	0	\$ -
16				\$ -	0	\$ -	\$ -	0	\$ -
17				\$ -	0	\$ -	\$ -	0	\$ -
18				\$ -	0	\$ -	\$ -	0	\$ -
19				\$ -	0	\$ -	\$ -	0	\$ -
20				\$ -	0	\$ -	\$ -	0	\$ -
21				\$ -	0	\$ -	\$ -	0	\$ -
TOTAL:						\$ 1,001.09			\$ 1,001.09

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES, SERVICES	Yr 3 Escalation Rate	4.00%	Yr 4 Escalation Rate	2.00%
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	Task # or Description	Item Description	Year 3			Year 4		
			Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal
1	SOW 19 Task 1 (PI + GJFWCO)	Logger anchoring replacement supplies, such as cables, clamps, weights.	\$ 778.96	1	\$ 778.96	\$ 794.54	1	\$ 794.54
2	SOW 19 Task 1 (PI + GJFWCO)	GSA Lease of Equip Code 6359 (monthly lease)	\$ 465.92	0.133	\$ 61.97	\$ 475.24	0.133	\$ 63.21
3	SOW 19 Task 1 (PI + GJFWCO)	GSA Lease of Equip Code 6359 (mileage rate)	\$ 0.42	792	\$ 330.30	\$ 0.43	792	\$ 336.90
4			\$ -	0	\$ -	\$ -	0	\$ -
5			\$ -	0	\$ -	\$ -	0	\$ -
6			\$ -	0	\$ -	\$ -	0	\$ -
7			\$ -	0	\$ -	\$ -	0	\$ -
8			\$ -	0	\$ -	\$ -	0	\$ -
9			\$ -	0	\$ -	\$ -	0	\$ -
10			\$ -	0	\$ -	\$ -	0	\$ -
11			\$ -	0	\$ -	\$ -	0	\$ -
12			\$ -	0	\$ -	\$ -	0	\$ -
13			\$ -	0	\$ -	\$ -	0	\$ -
14			\$ -	0	\$ -	\$ -	0	\$ -
15			\$ -	0	\$ -	\$ -	0	\$ -
16			\$ -	0	\$ -	\$ -	0	\$ -
17			\$ -	0	\$ -	\$ -	0	\$ -
18			\$ -	0	\$ -	\$ -	0	\$ -
19			\$ -	0	\$ -	\$ -	0	\$ -
20			\$ -	0	\$ -	\$ -	0	\$ -
21			\$ -	0	\$ -	\$ -	0	\$ -
					\$ 1,171.23	\$ 1,194.65		

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES, SERVICES	Yr 5 Escalation Rate	2.00%
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			Year 5			
	Task # or Description	Item Description	Unit Price	Unit Quantity	Subtotal	TOTAL
1	SOW 19 Task 1 (PI + GJFWCO)	Logger anchoring replacement supplies, such as cables, clamps, weights.	\$ 810.43	1	\$ 810.43	\$ 3,631.77
2	SOW 19 Task 1 (PI + GJFWCO)	GSA Lease of Equip Code 6359 (monthly lease)	\$ 484.74	0.133	\$ 64.47	\$ 308.81
3	SOW 19 Task 1 (PI + GJFWCO)	GSA Lease of Equip Code 6359 (mileage rate)	\$ 0.43	792	\$ 343.64	\$ 1,646.02
4			\$ -	0	\$ -	\$ -
5			\$ -	0	\$ -	\$ -
6			\$ -	0	\$ -	\$ -
7			\$ -	0	\$ -	\$ -
8			\$ -	0	\$ -	\$ -
9			\$ -	0	\$ -	\$ -
10			\$ -	0	\$ -	\$ -
11			\$ -	0	\$ -	\$ -
12			\$ -	0	\$ -	\$ -
13			\$ -	0	\$ -	\$ -
14			\$ -	0	\$ -	\$ -
15			\$ -	0	\$ -	\$ -
16			\$ -	0	\$ -	\$ -
17			\$ -	0	\$ -	\$ -
18			\$ -	0	\$ -	\$ -
19			\$ -	0	\$ -	\$ -
20			\$ -	0	\$ -	\$ -
21			\$ -	0	\$ -	\$ -
					\$ 1,218.54	\$ 5,586.60

SUMMARY OF TRAVEL COSTS

Cost Element	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
Trip #	1	1	1	1	1	
From-To	Denver - Rest of West	Denver - Rest of West	Denver - Rest of West	Denver - Rest of West	Denver - Rest of West	
Reason	Deploy and retrieve thermographs (Task 1), reservoir ops meetings (Tasks 2 & 3), water user/stakeholder	Deploy and retrieve thermographs (Task 1), reservoir ops meetings (Tasks 2 & 3), water user/stakeholder	Deploy and retrieve thermographs (Task 1), reservoir ops meetings (Tasks 2 & 3), water user/stakeholder	Deploy and retrieve thermographs (Task 1), reservoir ops meetings (Tasks 2 & 3), water user/stakeholder	Deploy and retrieve thermographs (Task 1), reservoir ops meetings (Tasks 2 & 3), water user/stakeholder meetings	
# of Days (include travel days)	16	16	16	16	16	
Airfare	\$ -	\$ -	\$ -	\$ -	\$ -	
Lodging (Per Night)	\$ 96.00	\$ 98.00	\$ 100.00	\$ 102.00	\$ 104.00	
MI&E Per Day	\$ 55.00	\$ 57.00	\$ 58.00	\$ 59.00	\$ 60.00	
Auto Rental Per Day	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Per Trip	\$ 2,388.50	\$ 2,451.50	\$ 2,499.00	\$ 2,546.50	\$ 2,594.00	
No. of persons	1	1	1	1	1	
SUBTOTAL =	\$ 2,388.50	\$ 2,451.50	\$ 2,499.00	\$ 2,546.50	\$ 2,594.00	\$ 12,479.50

Cost Element	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
Trip #	2	2	2	2	2	
From-To	Denver to St George UT	Denver to St George UT	Denver to St George UT	Denver to St George UT	Denver to St George UT	
Reason	UT Water Users Mtg	UT Water Users Mtg	UT Water Users Mtg	UT Water Users Mtg	UT Water Users Mtg	
# of Days (include travel days)	4	4	4	4	4	
Airfare	\$ 500.00	\$ 510.00	\$ 520.00	\$ 540.00	\$ 560.00	
Lodging (Per Night)	\$ 96.00	\$ 98.00	\$ 100.00	\$ 102.00	\$ 104.00	
MI&E Per Day	\$ 55.00	\$ 57.00	\$ 58.00	\$ 59.00	\$ 60.00	
Auto Rental Per Day	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Per Trip	\$ 1,076.50	\$ 1,101.50	\$ 1,123.00	\$ 1,154.50	\$ 1,186.00	
No. of persons	1	1	1	1	1	
SUBTOTAL =	\$ 1,076.50	\$ 1,101.50	\$ 1,123.00	\$ 1,154.50	\$ 1,186.00	\$ 5,641.50

	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
TOTAL COST BY PERIOD =	\$ 3,465.00	\$ 3,553.00	\$ 3,622.00	\$ 3,701.00	\$ 3,780.00	\$ 18,121.00

SUMMARY OF EQUIPMENT COSTS

SUMMARY OF EQUIPMENT

Enter Escalation Rates ----->

Yr 2 Escalation Rate	2.00%	Yr 3 Escalation Rate	2.00%
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	Task # or Description	Item Description	Rationale for Proposed Cost	Year 1			Year 2			Year 3		
				Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal
1	SOW 19 Task 1	Hobo Temperature Data Loggers	https://microdaq.com/onset-hobo-tidbit-temperature-data-loggers	\$ 133.00	15	\$ 1,995.00	\$ 135.66	15	\$ 2,034.90	\$ 138.37	15	\$ 2,075.60
2	2b			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
3				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
4				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
5				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
6				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
7				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
8				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
9				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
10				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
11				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
12				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
13				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
14				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
15				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
16				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
17				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
18				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
19				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
20				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
21				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
22				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
23				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
24				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
25				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
26				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
27				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
28				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
29				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
30				\$ -	0	\$ -	\$ -	0	\$ -	\$ -	0	\$ -
TOTAL:						\$ 1,995.00			\$ 2,034.90			\$ 2,075.60

SUMMARY OF EQUIPMENT COSTS

SUMMARY OF EQUIPMENT	Yr 4 Escalation Rate	2.00%	Yr 5 Escalation Rate	2.00%
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	Task # or Description	Item Description	Year 4			Year 5			TOTAL	
			Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal		
1	SOW 19 Task 1	Hobo Temperature Data Loggers	\$ 141.14	15	\$ 2,117.11	\$ 143.96	15	\$ 2,159.45	\$ 10,382.06	
2	2b		\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
3			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
4			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
5			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
6			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
7			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
8			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
9			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
10			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
11			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
12			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
13			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
14			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
15			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
16			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
17			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
18			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
19			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
20			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
21			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
22			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
23			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
24			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
25			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
26			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
27			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
28			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
29			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
30			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
					\$ 2,117.11				\$ 2,159.45	\$ 10,382.06