

**RECOVERY PROGRAM  
FY 2020-2021 SCOPE OF WORK for:**

Recovery Program Project Number: 158

Assessment of larval Colorado pikeminnow presence and survival in low velocity habitats in the middle Green River

Reclamation Agreement number: R19AP00059 (UDWR) & TBD (FWS-GRBFWCO)

Reclamation Agreement term: Oct. 1, 2019 – Sept. 30, 2024

Note: Recovery Program FY20-21 scopes of work are drafted in May 2019. 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: Utah Division of Wildlife Resources

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Date Last Modified: 5/6/2020 1:32:00 PM

Category:

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

Expected Funding Source:

- Annual funds  
 Capital funds  
 Other *[explain]*

I. Title of Proposal: Assessment of larval Colorado pikeminnow presence and survival in low velocity habitats in the middle Green River

II. Relationship to RIPRAP:

GENERAL RECOVERY PROGRAM SUPPORT ACTION PLAN

- IV. Conserve genetic integrity and augment or restore populations.  
IV.A.4.a.(1) Maintain genetic refuge for each endangered species in the Middle Green River.

- IV.A.4.d.(1) Upper Colorado River Basin (Broodstock currently represented at Southwest Native ARRC and by wild fish in the river).
- V.B. Conduct research to acquire needed life history information.
- V.B.2. Conduct appropriate studies to provide needed life history information.

GREEN RIVER ACTION PLAN: MAINSTEM

- IV.A. Augment or restore populations as needed, and as guided by the Genetic Management Plan.
- V.C.3 Monitor age-0 Colorado pikeminnow in backwaters.

III. Study Background/Rationale and Hypotheses:

Fall Interagency Standardized Monitoring Program (ISMP) sampling of age-0 Colorado pikeminnow (CPM) has been conducted annually since the mid-1980s to assess the abundance and distribution of young fish (USFWS 1987). Since 1994, these surveys have shown a reduction in the abundance of age-0 CPM in the alluvial section of the Green River between Split Mountain and Desolation Canyon (Breen et al. 2011). Other studies monitoring the upstream abundance of larval CPM drifting from the Yampa Canyon spawning site during the same time suggest that larval fish production has not decreased from previous levels when age-0 CPM were more abundant in this reach (Bestgen et al. 1998, 2006; Bestgen and Hill 2016). Several possibilities exist for why age-0 CPM are not captured as frequently as they once were, including an increase in nonnative predatory fishes, nonnative competitors, and habitat alterations (e.g., Breen and Jones 2019). Other researchers have investigated environmental conditions such as changes in habitat related to flow and temperature. For example, analysis of available data obtained from 1979–2012 demonstrates that larger Colorado pikeminnow year-class production occurs in the middle Green River when mean August–September base flow levels were 1,700–3,000 cfs (Bestgen and Hill 2016). Prior to 2019, this study sought to monitor the arrival of larval CPM in middle Green River backwaters and investigate how nonnative fishes influence age-0 CPM as they arrive and grow in backwater habitats. Although continuing this work will build a more robust dataset, allowing for comparisons across years with different hydrologic regimes, the focus of this project will shift for the near future for reasons discussed below.

The declining size of the Green River subbasin CPM population in recent years as estimated by Project #128 (Bestgen et al. 2018a; Bestgen et al. 2018b) prompted the Recovery Program to reorient the scope of this project in 2019. As a result, the Utah Division of Wildlife Resources Vernal (UDWR V) will no longer deplete backwaters of nonnative fish in preparation for backwater blocking treatments or conduct fyke netting in backwaters to determine predation effects (previously tasks 2 and 5). Instead, UDWR V will focus all efforts on age-0 CPM monitoring in the middle Green River from Split Mountain to the Duchesne River confluence throughout the summer base flow period. Additionally, the Green River Basin Fish and Wildlife Conservation Office (GRB FWCO) will no longer monitor larval CPM drift at Split Mountain and presence in the middle Green River (previously task 1), but instead focus all efforts on collecting age-0 CPM that will be held as broodstock at Southwestern Native Aquatic Resources & Recovery Center (SNARRC). These fish will enhance diversity of the SNARRC CPM broodstock and produce offspring that will augment the Green River CPM population in the future.

#### IV. Study Goals, Objectives, End Product(s):

##### Goal:

Monitor age-0 Colorado pikeminnow in the middle Green River to determine their presence, location, and status during the summer (UDWR) and collect age-0 CPM in early fall (GRB FWCO) that will become broodstock at SNARRC to bolster the Green River subbasin CPM population in the future.

##### Objectives:

1. Document densities of age-0 CPM in backwaters as the season progresses.
2. Collect sufficient numbers of age-0 CPM from backwaters during the fall to enhance the CPM broodstock at SNARRC.

##### End product:

1. Documentation of relative abundance of age-0 CPM in the middle Green River throughout the summer base flow period in relation to experimental Flaming Gorge Dam releases.
2. Young-of-year Colorado pikeminnow collected in the middle Green River will bolster the SNARRC broodstock.

#### V. Study Area:

The study area encompasses the middle Green River from Split Mountain boat ramp (river mile [RM] 319.5) to the Duchesne River confluence (RM 247.9).

#### VI. Study Methods/Approach:

To document age-0 recruitment success in relation to experimental Flaming Gorge Dam releases, we will seine backwater habitats in the middle Green River on a temporal basis throughout the summer base flow period until brood collection begins in early fall (see below). Larval drift sampling conducted for Recovery Program Project #22f will guide the timing of this project. More specifically, seining in the middle Green River will begin shortly after larval CPM are detected on the lower Yampa River at the Echo Park site (e.g., Bestgen and Jones 2018). Once detected, UDWR V crews will conduct a scouting trip from Split Mountain to the Duchesne River confluence to identify available backwater habitats that meet ISMP criteria (USFWS 1987), then randomly select a subset of backwaters encompassing the entire reach. We will sample selected backwaters and collect habitat information following the ISMP sampling protocol (USFWS 1987; some flexibility in seining locations within backwaters will be exercised using the PI's best judgment) every two weeks to document age-0 CPM abundance and overall fish community composition over the course of the summer until standardized ISMP sampling initiates in mid-September.

Depending upon weather and hydrology, age-0 CPM will be collected by seining backwaters in the middle Green River and transferred to SNARRC between mid-September and mid-October.

GRB FWCO crews will attempt to increase efficiency by communicating with UDWR V and conducting occasional early fall sampling to determine reaches with previously observed higher CPM densities. All efforts will be made to increase survival of the CPM intended for broodstock in the field such as minimizing handling and transport time. These fish will be held at the Ouray National Fish Hatchery until collections are complete and the fish are transferred to SNARRC.

VII. Task Description and Schedule:

Task 1. Determine age-0 Colorado pikeminnow presence, densities, and overall fish community composition in backwaters throughout the summer base flow period.

Task 2. Collect age-0 Colorado pikeminnow from backwaters during fall and transfer them to SNARRC where they will be used for broodstock.

Task 3. Data analysis and reporting.

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
1							X	X	X			
2									X	X		
3											X	

VIII. Deliverables, Due Dates, and Budget by Fiscal Year:

FY 2020-2024

Program annual reports due each November.

Project data will be submitted to the Recovery Program Database Manager by January.

IX. Budget Summary:

	UDWR	GRBFWCO	Total
FY 2020	\$86,731	\$46,113	\$132,844
FY 2021	\$81,364	\$40,874	\$122,238
FY 2022	\$82,991	\$41,713	\$124,704
FY 2023	\$84,651	\$42,592	\$127,243
FY 2024	\$86,344	\$50,052	\$136,396
	<b>TOTAL</b>		<b>\$643,425</b>

X. Reviewers:

XI. References:

Bestgen, K.R., R.T. Muth, and M.A. Trammell. 1998. Downstream transport of Colorado squawfish larvae in the Green River drainage: temporal and spatial variation in abundance and relationships with juvenile recruitment. Colorado State University Larval Fish Laboratory, Final Report to the Recovery Implementation Program for Endangered

Fishes in the Upper Colorado River Basin, U.S. Fish and Wildlife Service, Denver, Colorado.

Bestgen, K.R., D.W. Beyers, J.A. Rice, and G.B. Haines. 2006. Factors affecting recruitment of young Colorado pikeminnow: synthesis of predation experiments, field studies, and individual-based modeling. *Transactions of the American Fisheries Society* 135:1722-1742.

Bestgen, K.R. and A.A. Hill. 2016. Reproduction, abundance, and recruitment dynamics of young Colorado pikeminnow in the Green and Yampa rivers, Utah and Colorado, 1979- 2012. Final report to the Upper Colorado River Endangered Fish Recovery Program, Project FW 51 BW-Synth, Denver, Colorado. Department of Fish, Wildlife, and Conservation Biology, Colorado State University, Fort Collins. Larval Fish Laboratory Contribution 183.

Bestgen, K.R. and T. Jones. 2018. Interagency standardized monitoring program (ISMP) assessment of endangered fish reproduction in relation to Flaming Gorge operations in the middle Green and lower Yampa rivers. Project #22f annual report to the Upper Colorado River Endangered Fish Recovery Program. Denver, CO.

Bestgen, K.R., C.D. Walford, G.C. White, J.A. Hawkins, M.T. Jones, P.A. Webber, M. Breen, J.A. Skorupski Jr., J. Howard, K. Creighton, J. Logan, K. Battige, and F.B. Wright. 2018a. Population Status and Trends of Colorado Pikeminnow in the Green River Sub-Basin, Utah and Colorado, 2000-2013. Final Report to the Colorado River Recovery Implementation Program, Project Number 128, Denver, Colorado. Larval Fish Laboratory Contribution 183.

Bestgen, K.R., J.A. Hawkins, G.C. White, C.D. Walford, M. Breen, M.T. Jones, K. Creighton. 2018b. Abundance Estimates for Colorado pikeminnow in the Green River Basin, Utah and Colorado. Project #128 annual report to the Upper Colorado River Endangered Fish Recovery Program, Denver, Colorado.

Breen, M.J., M. Swasey, P. Badame, and K. Creighton. 2011. Upper Colorado River basin young of year Colorado pikeminnow (*Ptychocheilus lucius*) monitoring: summary report 1986-2009. Final report of Utah Division of Wildlife Resources to Upper Colorado River Endangered Fish Recovery Program, Denver Colorado.

Breen, M.J. and M.T. Jones. 2019. Assessment of larval Colorado pikeminnow presence and survival in low velocity habitats in the middle Green River: 2009–2012. Project #158 Final Report of Utah Division of Wildlife Resources to the Upper Colorado River Endangered Fish Recovery Program, Denver, Colorado.

USFWS. 1987. Interagency standardized monitoring protocol handbook. U.S. Fish and Wildlife Service. Grand Junction, Colorado.

### SUMMARY OF PROPOSED COSTS

<b>Name of Servicing Agency:</b>	US Fish & Wildlife Service Green River Basin FWCO
<b>Project Name:</b>	Recovery Program Project 158: Assessment of larval Colorado pikeminnow presence and survival in low velocity habitats in the middle Green River

	Enter the BEGINNING dates for each year ----->		Enter the ENDING dates for each year ----->									<b>TOTAL</b>
	<b>YEAR 1</b>	<b>YEAR 2</b>	<b>YEAR 3</b>	<b>YEAR 4</b>	<b>YEAR 5</b>							
	10/1/2019	9/30/2020	10/1/2021	10/1/2022	10/1/2023							
	Through	Through	Through	Through	Through							
	9/29/2020	9/30/2021	9/30/2022	9/30/2023	9/29/2024							
<b>DIRECT LABOR AND FRINGE BENEFIT COSTS:</b>	<b>YEAR 1</b>	<b>YEAR 2</b>	<b>YEAR 3</b>	<b>YEAR 4</b>	<b>YEAR 5</b>						<b>TOTAL</b>	
Direct Labor - Hourly	\$ 30,559.67	\$ 26,720.38	\$ 27,254.79	\$ 27,799.88	\$ 33,078.77						\$ 145,413.49	
Fringe Benefits - Hourly	\$ 11,271.51	\$ 9,785.70	\$ 9,981.41	\$ 10,181.04	\$ 12,200.65						\$ 53,420.32	
Subtotal of Direct Labor & Fringe Benefits:	\$ 41,831.18	\$ 36,506.08	\$ 37,236.20	\$ 37,980.93	\$ 45,279.42						\$ 198,833.80	
<b>OTHER DIRECT COSTS:</b>	<b>YEAR 1</b>	<b>YEAR 2</b>	<b>YEAR 3</b>	<b>YEAR 4</b>	<b>YEAR 5</b>						<b>TOTAL</b>	
Materials and Supplies	\$ 4,281.84	\$ 4,367.47	\$ 4,476.66	\$ 4,610.97	\$ 4,772.35						\$ 22,509.29	
Travel Costs	\$ -	\$ -	\$ -	\$ -	\$ -						\$ -	
Equipment	\$ -	\$ -	\$ -	\$ -	\$ -						\$ -	
Contractors	\$ -	\$ -	\$ -	\$ -	\$ -						\$ -	
Subtotal of Other Direct Costs:	\$ 4,281.84	\$ 4,367.47	\$ 4,476.66	\$ 4,610.97	\$ 4,772.35						\$ 22,509.29	
<b>INDIRECT/OVERHEAD COSTS:</b>	<b>YEAR 1</b>	<b>YEAR 2</b>	<b>YEAR 3</b>	<b>YEAR 4</b>	<b>YEAR 5</b>						<b>TOTAL</b>	
Subtotal of Labor and Other Direct Costs:	\$ 46,113.02	\$ 40,873.55	\$ 41,712.86	\$ 42,591.90	\$ 50,051.77							
Total dollars exempt from indirect/overhead base:	\$ -	\$ -	\$ -	\$ -	\$ -							
<Enter Description of Indirect/OH Cost #1>	3.00%	\$ 1,382.67	3.00%	\$ 1,225.49	3.00%	\$ 1,251.39	3.00%	\$ 1,277.76	3.00%	\$ 1,501.55	\$ 6,638.85	
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:	\$ 1,382.67	\$ 1,225.49	\$ 1,251.39	\$ 1,277.76	\$ 1,501.55						\$ 6,638.85	
<b>GRAND TOTAL:</b>	<b>YEAR 1</b>	<b>YEAR 2</b>	<b>YEAR 3</b>	<b>YEAR 4</b>	<b>YEAR 5</b>						<b>TOTAL</b>	
	\$ 47,495.69	\$ 42,099.04	\$ 42,964.25	\$ 43,869.65	\$ 51,553.32						\$ 227,981.95	

**MMARY OF DIRECT LABOR & FRINGE BENEFI**

Enter Escalation Rates ----->	Yr 2 Escalation Rate	2.00%
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	Task	Position Title	GS/WG Grade	GS/WG Step	OPM Pay Location	Current Hourly Rate	YEAR 1					YEAR 2				
							10/1/2019		Through	9/29/2020		9/30/2020		Through	9/30/2021	
							# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost
1	2	Fish Biologist	GS 11	5	Rest of United States	\$ 31.81	120.0	\$ 31.81	\$ 3,817.20	40.00%	\$ 1,526.88	80.0	\$ 32.45	\$ 2,595.70	40.00%	\$ 1,038.28
2	2	Fish Biologist	GS 11	3	Rest of United States	\$ 33.80	120.0	\$ 33.80	\$ 4,056.00	35.00%	\$ 1,419.60	80.0	\$ 34.48	\$ 2,758.08	35.00%	\$ 965.33
3	2	Fisheries Technician	GS 8	9	Rest of United States	\$ 28.27	196.0	\$ 28.27	\$ 5,540.92	40.00%	\$ 2,216.37	196.0	\$ 28.84	\$ 5,651.74	40.00%	\$ 2,260.70
4	2	Biological Science Tec	GS 6	1	Rest of United States	\$ 18.50	80.0	\$ 18.50	\$ 1,480.00	23.78%	\$ 351.94	80.0	\$ 18.87	\$ 1,509.60	23.78%	\$ 358.98
5	2	Biological Science Tec	GS 5	1	Rest of United States	\$ 16.59	240.0	\$ 16.59	\$ 3,981.60	33.00%	\$ 1,313.93	240.0	\$ 16.92	\$ 4,061.23	33.00%	\$ 1,340.21
6	2	Small Craft Operator	WG 5	1	Rest of United States	\$ 17.78	80.0	\$ 17.78	\$ 1,422.40	33.00%	\$ 469.39	80.0	\$ 18.14	\$ 1,450.85	33.00%	\$ 478.78
7	3	Fish Biologist	GS 11	5	Rest of United States	\$ 33.80	40.0	\$ 33.80	\$ 1,352.00	35.00%	\$ 473.20	40.0	\$ 34.48	\$ 1,379.04	35.00%	\$ 482.66
8	3	Fish Biologist	GS 11	3	Rest of United States	\$ 31.81	40.0	\$ 31.81	\$ 1,272.40	35.00%	\$ 445.34	40.0	\$ 32.45	\$ 1,297.85	35.00%	\$ 454.25
9	3	Administrative Officer	GS 9	8	Rest of United States	\$ 30.40	69.0	\$ 30.40	\$ 2,097.60	40.00%	\$ 839.04	53.0	\$ 31.01	\$ 1,643.42	40.00%	\$ 657.37
10	3	Project Leader	GS 13	5	Rest of United States	\$ 48.17	115.0	\$ 48.17	\$ 5,539.55	40.00%	\$ 2,215.82	89.0	\$ 49.13	\$ 4,372.87	40.00%	\$ 1,749.15
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**MMARY OF DIRECT LABOR & FRINGE BENEFI**

Yr 3 Escalation Rate 2.00%

Yr 4 Escalation Rate 2.00%

							YEAR 3					YEAR 4				
							10/1/2021		Through	9/30/2022		10/1/2022		Through	9/30/2023	
Task	Position Title	GS/WG Grade	GS/WG Step	OPM Pay Location	Current Hourly Rate	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	
1	2	Fish Biologist	GS 11	5	Rest of United States	\$ 31.81	80.0	\$ 33.10	\$ 2,647.61	40.00%	\$ 1,059.04	80.0	\$ 33.76	\$ 2,700.56	40.00%	\$ 1,080.22
2	2	Fish Biologist	GS 11	3	Rest of United States	\$ 33.80	80.0	\$ 35.17	\$ 2,813.24	35.00%	\$ 984.63	80.0	\$ 35.87	\$ 2,869.51	35.00%	\$ 1,004.33
3	2	Fisheries Technician	GS 8	9	Rest of United States	\$ 28.27	196.0	\$ 29.41	\$ 5,764.77	40.00%	\$ 2,305.91	196.0	\$ 30.00	\$ 5,880.07	40.00%	\$ 2,352.03
4	2	Biological Science Tec	GS 6	1	Rest of United States	\$ 18.50	80.0	\$ 19.25	\$ 1,539.79	23.78%	\$ 366.16	80.0	\$ 19.63	\$ 1,570.59	23.78%	\$ 373.49
5	2	Biological Science Tec	GS 5	1	Rest of United States	\$ 16.59	240.0	\$ 17.26	\$ 4,142.46	33.00%	\$ 1,367.01	240.0	\$ 17.61	\$ 4,225.31	33.00%	\$ 1,394.35
6	2	Small Craft Operator	WG 5	1	Rest of United States	\$ 17.78	80.0	\$ 18.50	\$ 1,479.86	33.00%	\$ 488.36	80.0	\$ 18.87	\$ 1,509.46	33.00%	\$ 498.12
7	3	Fish Biologist	GS 11	5	Rest of United States	\$ 33.80	40.0	\$ 35.17	\$ 1,406.62	35.00%	\$ 492.32	40.0	\$ 35.87	\$ 1,434.75	35.00%	\$ 502.16
8	3	Fish Biologist	GS 11	3	Rest of United States	\$ 31.81	40.0	\$ 33.10	\$ 1,323.80	35.00%	\$ 463.33	40.0	\$ 33.76	\$ 1,350.28	35.00%	\$ 472.60
9	3	Administrative Officer	GS 9	8	Rest of United States	\$ 30.40	53.0	\$ 31.63	\$ 1,676.29	40.00%	\$ 670.52	53.0	\$ 32.26	\$ 1,709.82	40.00%	\$ 683.93
10	3	Project Leader	GS 13	5	Rest of United States	\$ 48.17	89.0	\$ 50.12	\$ 4,460.33	40.00%	\$ 1,784.13	89.0	\$ 51.12	\$ 4,549.54	40.00%	\$ 1,819.81
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							<b>978.00</b>		<b>\$ 27,254.79</b>		<b>\$ 9,981.41</b>	<b>978.00</b>		<b>\$ 27,799.88</b>		<b>\$ 10,181.04</b>



**MMARY OF DIRECT LABOR & FRINGE BENEFI**

Yr 5 Escalation Rate	2.00%
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							YEAR 5						
							10/1/2023	Through	9/29/2024				
Task	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	
1	2	Fish Biologist	GS 11	5	Rest of United States	\$ 31.81	120.0	\$ 34.43	\$ 4,131.86	40.00%	\$ 1,652.74	\$ 15,892.93	\$ 6,357.17
2	2	Fish Biologist	GS 11	3	Rest of United States	\$ 33.80	120.0	\$ 36.59	\$ 4,390.34	35.00%	\$ 1,536.62	\$ 16,887.17	\$ 5,910.51
3	2	Fisheries Technician	GS 8	9	Rest of United States	\$ 28.27	196.0	\$ 30.60	\$ 5,997.67	40.00%	\$ 2,399.07	\$ 28,835.17	\$ 11,534.07
4	2	Biological Science Tec	GS 6	1	Rest of United States	\$ 18.50	80.0	\$ 20.02	\$ 1,602.00	23.78%	\$ 380.96	\$ 7,701.98	\$ 1,831.53
5	2	Biological Science Tec	GS 5	1	Rest of United States	\$ 16.59	240.0	\$ 17.96	\$ 4,309.81	33.00%	\$ 1,422.24	\$ 20,720.41	\$ 6,837.73
6	2	Small Craft Operator	WG 5	1	Rest of United States	\$ 17.78	80.0	\$ 19.25	\$ 1,539.65	33.00%	\$ 508.08	\$ 7,402.23	\$ 2,442.73
7	3	Fish Biologist	GS 11	5	Rest of United States	\$ 33.80	40.0	\$ 36.59	\$ 1,463.45	35.00%	\$ 512.21	\$ 7,035.86	\$ 2,462.55
8	3	Fish Biologist	GS 11	3	Rest of United States	\$ 31.81	40.0	\$ 34.43	\$ 1,377.29	35.00%	\$ 482.05	\$ 6,621.62	\$ 2,317.57
9	3	Administrative Officer	GS 9	8	Rest of United States	\$ 30.40	69.0	\$ 32.91	\$ 2,270.51	40.00%	\$ 908.20	\$ 9,397.64	\$ 3,759.06
10	3	Project Leader	GS 13	5	Rest of United States	\$ 48.17	115.0	\$ 52.14	\$ 5,996.19	40.00%	\$ 2,398.47	\$ 24,918.48	\$ 9,967.39
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%	\$ -	\$ -	\$ -	
							<b>1,100.00</b>		<b>\$ 33,078.77</b>		<b>\$ 12,200.65</b>	<b>\$ 145,413.49</b>	<b>\$ 53,420.32</b>

**MMARY OF DIRECT LABOR & FRINGE BENEFI**

						Current Hourly Rate	Total Labor Cost
1	Task	Position Title	GS/WG Grade	GS/WG Step	OPM Pay Location		
1	2	Fish Biologist	GS 11	5	Rest of United States	\$ 31.81	\$ 22,250.10
2	2	Fish Biologist	GS 11	3	Rest of United States	\$ 33.80	\$ 22,797.68
3	2	Fisheries Technician	GS 8	9	Rest of United States	\$ 28.27	\$ 40,369.24
4	2	Biological Science Tec	GS 6	1	Rest of United States	\$ 18.50	\$ 9,533.51
5	2	Biological Science Tec	GS 5	1	Rest of United States	\$ 16.59	\$ 27,558.14
6	2	Small Craft Operator	WG 5	1	Rest of United States	\$ 17.78	\$ 9,844.96
7	3	Fish Biologist	GS 11	5	Rest of United States	\$ 33.80	\$ 9,498.41
8	3	Fish Biologist	GS 11	3	Rest of United States	\$ 31.81	\$ 8,939.19
9	3	Administrative Officer	GS 9	8	Rest of United States	\$ 30.40	\$ 13,156.70
10	3	Project Leader	GS 13	5	Rest of United States	\$ 48.17	\$ 34,885.87
11						\$ -	\$ -
12						\$ -	\$ -
13						\$ -	\$ -
14						\$ -	\$ -
15						\$ -	\$ -
16						\$ -	\$ -
17						\$ -	\$ -
18						\$ -	\$ -
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22						\$ -	\$ -
23						\$ -	\$ -
24						\$ -	\$ -
25						\$ -	\$ -
26						\$ -	\$ -
27						\$ -	\$ -
28						\$ -	\$ -
							\$ 198,833.80



# SUMMARY OF MATERIALS AND SUPPLIES

<b>SUMMARY OF MATERIALS, SUPPLI</b>	Yr 3 Escalation Rate	2.50%	Yr 4 Escalation Rate	3.00%
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	Task #	Item Description	Year 3			Year 4		
			Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal
1	1	GSA Lease of Equip Code 6351 (monthly lease)	\$ 247.41	1	\$ 247.41	\$ 254.83	1	\$ 254.83
2	1	GSA Lease of Equip Code 6351 (mileage rate)	\$ 0.33	1300	\$ 434.93	\$ 0.34	1300	\$ 447.98
3	1	GSA Lease of Equip Code 6352 (monthly lease)	\$ 260.20	1	\$ 260.20	\$ 268.01	1	\$ 268.01
4	1	GSA Lease of Equip Code 6352 (mileage rate)	\$ 0.35	1600	\$ 552.02	\$ 0.36	1600	\$ 568.58
5	1	Sampling gear	\$ 989.21	1	\$ 989.21	\$ 1,018.89	1	\$ 1,018.89
6	1	Boating gear	\$ 989.21	1	\$ 989.21	\$ 1,018.89	1	\$ 1,018.89
7	1	Boat fuel (gal)	\$ 4.18	240	\$ 1,003.68	\$ 4.31	240	\$ 1,033.79
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	\$ -
					<b>\$ 4,476.66</b>			<b>\$ 4,610.97</b>

# SUMMARY OF MATERIALS AND SUPPLIES

<b>SUMMARY OF MATERIALS, SUPPLI</b>	Yr 5 Escalation Rate	3.50%
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			Year 5			
Task #	Item Description	Unit Price	Unit Quantity	Subtotal	TOTAL	
1	1	GSA Lease of Equip Code 6351 (monthly lease)	\$ 263.75	1	\$ 263.75	\$ 1,244.00
2	1	GSA Lease of Equip Code 6351 (mileage rate)	\$ 0.36	1300	\$ 463.65	\$ 2,186.88
3	1	GSA Lease of Equip Code 6352 (monthly lease)	\$ 277.39	1	\$ 277.39	\$ 1,308.34
4	1	GSA Lease of Equip Code 6352 (mileage rate)	\$ 0.37	1600	\$ 588.49	\$ 2,775.65
5	1	Sampling gear	\$ 1,054.55	1	\$ 1,054.55	\$ 4,973.89
6	1	Boating gear	\$ 1,054.55	1	\$ 1,054.55	\$ 4,973.89
7	1	Boat fuel (gal)	\$ 4.46	240	\$ 1,069.97	\$ 5,046.64
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	\$ -	\$ -
22			\$ -	0	\$ -	\$ -
23			\$ -	0	\$ -	\$ -
24			\$ -	0	\$ -	\$ -
25			\$ -	0	\$ -	\$ -
26			\$ -	0	\$ -	\$ -
27			\$ -	0	\$ -	\$ -
28			\$ -	0	\$ -	\$ -
29			\$ -	0	\$ -	\$ -
30			\$ -	0	\$ -	\$ -
				<b>\$ 4,772.35</b>	<b>\$ 22,509.29</b>	

**SUMMARY OF PROPOSED COSTS**

<b>Name of Servicing Agency:</b>	Utah Division of Wildlife Services
<b>Project Name:</b>	Project 158 Larval Pikeminnow Backwater Survival (Vernal Field Office)

	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
	10/1/2019		10/1/2020		10/1/2021		10/1/2022		10/1/2023		
	Through	9/30/2020	Through	9/30/2021	Through	9/30/2022	Through	9/30/2023	Through	9/30/2024	
<b>DIRECT LABOR AND FRINGE BENEFIT COSTS:</b>	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
Direct Labor - Hourly	\$	49,653.60	\$	50,646.67	\$	51,659.61	\$	52,692.80	\$	53,746.65	\$ 258,399.33
Fringe Benefits - Hourly	\$	15,513.30	\$	15,823.57	\$	16,140.04	\$	16,462.84	\$	16,792.10	\$ 80,731.85
Subtotal of Direct Labor & Fringe Benefits:	\$	65,166.90	\$	66,470.24	\$	67,799.65	\$	69,155.64	\$	70,538.75	\$ 339,131.18
<b>OTHER DIRECT COSTS:</b>	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
Materials Supplies and Services	\$	19,699.44	\$	12,991.04	\$	13,250.86	\$	13,515.88	\$	13,786.18	\$ 73,243.40
Travel Costs	\$	1,864.96	\$	1,902.26	\$	1,940.30	\$	1,979.11	\$	2,018.69	\$ 9,705.33
Equipment	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Contractors	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Subtotal of Other Direct Costs:	\$	21,564.40	\$	14,893.30	\$	15,191.16	\$	15,494.99	\$	15,804.87	\$ 82,948.73
<b>INDIRECT/OVERHEAD COSTS:</b>	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
Subtotal of Labor and Other Direct Costs:	\$	86,731.30	\$	81,363.54	\$	82,990.81	\$	84,650.63	\$	86,343.62	
Total dollars exempt from indirect/overhead base:	\$	-	\$	-	\$	-	\$	-	\$	-	
Indirect/Overhead not charged to UCRRP Program 0.00%	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Total dollars exempt from indirect/overhead base:	\$	-	\$	-	\$	-	\$	-	\$	-	
Indirect/Overhead not charged to UCRRP Program 0.00%	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Subtotal of Indirect/Overhead Costs:	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
<b>GRAND TOTAL:</b>	\$	86,731.30	\$	81,363.54	\$	82,990.81	\$	84,650.63	\$	86,343.62	\$ 422,079.90

**SUMMARY OF DIRECT LABOR & F**

Enter Escalation Rates ----->	Yr 2 Escalation Rate	2.00%
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	Task # or Description	Employee Name	Position Title	Current Hourly Rate	YEAR 1					YEAR 2				
					10/1/2019		Through	9/30/2020		10/1/2020		Through	9/30/2021	
					# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost
1	1	Matt Breen	Project Leader	\$ 27.46	500.0	\$ 27.46	\$ 13,729.20	40.00%	\$ 5,491.68	500.0	\$ 28.01	\$ 14,003.78	40.00%	\$ 5,601.51
2	1	Mike Partlow	Biologist II	\$ 25.09	340.0	\$ 25.09	\$ 8,531.28	40.00%	\$ 3,412.51	340.0	\$ 25.59	\$ 8,701.91	40.00%	\$ 3,480.76
3	1	Bobby-Ray Jenki	Journey Maint. Spec	\$ 25.52	420.0	\$ 25.52	\$ 10,718.57	40.00%	\$ 4,287.43	420.0	\$ 26.03	\$ 10,932.94	40.00%	\$ 4,373.18
4	1	Seasonal	Technician I	\$ 17.56	240.0	\$ 17.56	\$ 4,215.46	0.00%	\$ -	240.0	\$ 17.92	\$ 4,299.77	0.00%	\$ -
5	1	Seasonal	Shuttle Drivers	\$ 17.94	160.0	\$ 17.94	\$ 2,870.69	0.00%	\$ -	160.0	\$ 18.30	\$ 2,928.10	0.00%	\$ -
10	3	Matt Breen	Project Leader	\$ 27.46	120.0	\$ 27.46	\$ 3,295.01	40.00%	\$ 1,318.00	120.0	\$ 28.01	\$ 3,360.91	40.00%	\$ 1,344.36
11	3	Mike Partlow	Biologist II	\$ 25.09	100.0	\$ 25.09	\$ 2,509.20	40.00%	\$ 1,003.68	100.0	\$ 25.59	\$ 2,559.38	40.00%	\$ 1,023.75
12	3	Seasonal	Technician II	\$ 18.92	200.0	\$ 18.92	\$ 3,784.20	0.00%	\$ -	200.0	\$ 19.30	\$ 3,859.88	0.00%	\$ -
15				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
16				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
17				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
18				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
19				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
20				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
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%	\$ -
					<b>2,080.00</b>		<b>\$ 49,653.60</b>		<b>\$ 15,513.30</b>	<b>2,080.00</b>		<b>\$ 50,646.67</b>		<b>\$ 15,823.57</b>

# SUMMARY OF DIRECT LABOR & F

Yr 3 Escalation Rate	2.00%
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Yr 4 Escalation Rate	2.00%
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Task # or Description	Employee Name	Position Title	Current Hourly Rate	YEAR 3					YEAR 4				
				10/1/2021		Through	9/30/2022		10/1/2022		Through	9/30/2023	
				# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost
1	Matt Breen	Project Leader	\$ 27.46	500.0	\$ 28.57	\$ 14,283.86	40.00%	\$ 5,713.54	500.0	\$ 29.14	\$ 14,569.54	40.00%	\$ 5,827.81
2	Mike Partlow	Biologist II	\$ 25.09	340.0	\$ 26.11	\$ 8,875.94	40.00%	\$ 3,550.38	340.0	\$ 26.63	\$ 9,053.46	40.00%	\$ 3,621.39
3	Bobby-Ray Jenki	Journey Maint. Spec	\$ 25.52	420.0	\$ 26.55	\$ 11,151.60	40.00%	\$ 4,460.64	420.0	\$ 27.08	\$ 11,374.63	40.00%	\$ 4,549.85
4	Seasonal	Technician I	\$ 17.56	240.0	\$ 18.27	\$ 4,385.76	0.00%	\$ -	240.0	\$ 18.64	\$ 4,473.48	0.00%	\$ -
5	Seasonal	Shuttle Drivers	\$ 17.94	160.0	\$ 18.67	\$ 2,986.66	0.00%	\$ -	160.0	\$ 19.04	\$ 3,046.40	0.00%	\$ -
10	Matt Breen	Project Leader	\$ 27.46	120.0	\$ 28.57	\$ 3,428.13	40.00%	\$ 1,371.25	120.0	\$ 29.14	\$ 3,496.69	40.00%	\$ 1,398.68
11	Mike Partlow	Biologist II	\$ 25.09	100.0	\$ 26.11	\$ 2,610.57	40.00%	\$ 1,044.23	100.0	\$ 26.63	\$ 2,662.78	40.00%	\$ 1,065.11
12	Seasonal	Technician II	\$ 18.92	200.0	\$ 19.69	\$ 3,937.08	0.00%	\$ -	200.0	\$ 20.08	\$ 4,015.82	0.00%	\$ -
15			\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
16			\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
17			\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
18			\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
19			\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
20			\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
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%	\$ -
				<b>2,080.00</b>		<b>\$ 51,659.61</b>		<b>\$ 16,140.04</b>	<b>2,080.00</b>		<b>\$ 52,692.80</b>		<b>\$ 16,462.84</b>



# SUMMARY OF DIRECT LABOR & F

Yr 5 Escalation Rate	2.00%
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					YEAR 5							
					10/1/2023		Through	9/30/2024				
Task # or Description	Employee Name	Position Title	Current Hourly Rate		# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	Total Salary Cost	Total Fringe Cost	Total Labor Cost
1	1	Matt Breen	Project Leader	\$ 27.46	500.0	\$ 29.72	\$ 14,860.93	40.00%	\$ 5,944.37	\$ 71,447.31	\$ 28,578.92	\$ 100,026.23
2	1	Mike Partlow	Biologist II	\$ 25.09	340.0	\$ 27.16	\$ 9,234.53	40.00%	\$ 3,693.81	\$ 44,397.12	\$ 17,758.85	\$ 62,155.97
3	1	Bobby-Ray Jenki	Journey Maint. Spec	\$ 25.52	420.0	\$ 27.62	\$ 11,602.12	40.00%	\$ 4,640.85	\$ 55,779.86	\$ 22,311.94	\$ 78,091.80
4	1	Seasonal	Technician I	\$ 17.56	240.0	\$ 19.01	\$ 4,562.95	0.00%	\$ -	\$ 21,937.40	\$ -	\$ 21,937.40
5	1	Seasonal	Shuttle Drivers	\$ 17.94	160.0	\$ 19.42	\$ 3,107.33	0.00%	\$ -	\$ 14,939.18	\$ -	\$ 14,939.18
10	3	Matt Breen	Project Leader	\$ 27.46	120.0	\$ 29.72	\$ 3,566.62	40.00%	\$ 1,426.65	\$ 17,147.35	\$ 6,858.94	\$ 24,006.30
11	3	Mike Partlow	Biologist II	\$ 25.09	100.0	\$ 27.16	\$ 2,716.04	40.00%	\$ 1,086.42	\$ 13,057.98	\$ 5,223.19	\$ 18,281.17
12	3	Seasonal	Technician II	\$ 18.92	200.0	\$ 20.48	\$ 4,096.14	0.00%	\$ -	\$ 19,693.13	\$ -	\$ 19,693.13
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%	\$ -	\$ -	\$ -	\$ -
					<b>2,080.00</b>		<b>\$ 53,746.65</b>		<b>\$ 16,792.10</b>	<b>\$ 258,399.33</b>	<b>\$ 80,731.85</b>	<b>\$ 339,131.18</b>

# SUMMARY OF MATERIALS AND SUPPLIES

## SUMMARY OF MATERIALS, SUPPLIES, AND SERVICES

Yr 2 Escalation Rate	2.00%
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	Task #	Item Description	Rationale for Proposed Cost	Year 1			Year 2		
				Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal
1	1	(2) 4x4 Truck Lease UDWR Motorpo	Allocation of Total Fleet Lease for Vernal	\$ 16,646.40	0.20	\$ 3,329.28	\$ 16,979.33	0.20	\$ 3,395.87
2	1	Boat Fuel	Based on previous experience & SOWs fund	\$ 4.16	264.00	\$ 1,098.66	\$ 4.24	264.00	\$ 1,120.64
3	1	Boating gear repair/replacement:	Based on previous experience & SOWs fund	\$ 554.53	1.00	\$ 554.53	\$ 565.62	1.00	\$ 565.62
4	1	Sampling gear	Based on previous experience & SOWs fund	\$ 3,142.01	1.00	\$ 3,142.01	\$ 3,204.85	1.00	\$ 3,204.85
7	1	Boating gear repair/replacement:	Based on previous experience & SOWs fund	\$ 1,040.40	6.00	\$ 6,242.40	\$ 1,061.21	1.00	\$ 1,061.21
8	1	Sampling gear	Based on previous experience & SOWs fund	\$ 1,810.30	1.00	\$ 1,810.30	\$ 1,846.50	1.00	\$ 1,846.50
11	1	Sampling gear	Based on previous experience & SOWs fund	\$ 1,761.13	2.00	\$ 3,522.26	\$ 1,796.35	1.00	\$ 1,796.35
12				\$ -	0.00	\$ -	\$ -	0.00	\$ -
13				\$ -	0.00	\$ -	\$ -	0.00	\$ -
14				\$ -	0.00	\$ -	\$ -	0.00	\$ -
15				\$ -	0.00	\$ -	\$ -	0.00	\$ -
16				\$ -	0.00	\$ -	\$ -	0.00	\$ -
17				\$ -	0.00	\$ -	\$ -	0.00	\$ -
18				\$ -	0.00	\$ -	\$ -	0.00	\$ -
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	\$ -
<b>TOTAL:</b>						<b>\$ 19,699.44</b>			<b>\$ 12,991.04</b>

# SUMMARY OF MATERIALS AND SUPPLIES

<b>SUMMARY OF MATERIALS,</b>	Yr 3 Escalation Rate	2.00%	Yr 4 Escalation Rate	2.00%
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	Task #	Item Description	Year 3			Year 4		
			Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal
1	1	(2) 4x4 Truck Lease UDWR Motorpo	\$ 17,318.91	0.20	\$ 3,463.78	\$ 17,665.29	0.20	\$ 3,533.06
2	1	Boat Fuel	\$ 4.33	264.00	\$ 1,143.05	\$ 4.42	264.00	\$ 1,165.91
3	1	Boating gear repair/replacement:	\$ 576.94	1.00	\$ 576.94	\$ 588.48	1.00	\$ 588.48
4	1	Sampling gear	\$ 3,268.95	1.00	\$ 3,268.95	\$ 3,334.32	1.00	\$ 3,334.32
7	1	Boating gear repair/replacement:	\$ 1,082.43	1.00	\$ 1,082.43	\$ 1,104.08	1.00	\$ 1,104.08
8	1	Sampling gear	\$ 1,883.43	1.00	\$ 1,883.43	\$ 1,921.10	1.00	\$ 1,921.10
11	1	Sampling gear	\$ 1,832.28	1.00	\$ 1,832.28	\$ 1,868.93	1.00	\$ 1,868.93
12			\$ -	0.00	\$ -	\$ -	0.00	\$ -
13			\$ -	0.00	\$ -	\$ -	0.00	\$ -
14			\$ -	0.00	\$ -	\$ -	0.00	\$ -
15			\$ -	0.00	\$ -	\$ -	0.00	\$ -
16			\$ -	0.00	\$ -	\$ -	0.00	\$ -
17			\$ -	0.00	\$ -	\$ -	0.00	\$ -
18			\$ -	0.00	\$ -	\$ -	0.00	\$ -
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	\$ -
					<b>\$ 13,250.86</b>	<b>\$ 13,515.88</b>		

# SUMMARY OF MATERIALS AND SUPPLIES

<b>SUMMARY OF MATERIALS,</b>	Yr 5 Escalation Rate	2.00%
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			Year 5			
	Task #	Item Description	Unit Price	Unit Quantity	Subtotal	TOTAL
1	1	(2) 4x4 Truck Lease UDWR Motorpo	\$ 18,018.60	0.20	\$ 3,603.72	\$ 17,325.71
2	1	Boat Fuel	\$ 4.50	264.00	\$ 1,189.23	\$ 5,717.49
3	1	Boating gear repair/replacement:	\$ 600.24	1.00	\$ 600.24	\$ 2,885.81
4	1	Sampling gear	\$ 3,401.01	1.00	\$ 3,401.01	\$ 16,351.14
7	1	Boating gear repair/replacement:	\$ 1,126.16	1.00	\$ 1,126.16	\$ 10,616.28
8	1	Sampling gear	\$ 1,959.52	1.00	\$ 1,959.52	\$ 9,420.85
11	1	Sampling gear	\$ 1,906.30	1.00	\$ 1,906.30	\$ 10,926.12
12			\$ -	0.00	\$ -	\$ -
13			\$ -	0.00	\$ -	\$ -
14			\$ -	0.00	\$ -	\$ -
15			\$ -	0.00	\$ -	\$ -
16			\$ -	0.00	\$ -	\$ -
17			\$ -	0.00	\$ -	\$ -
18			\$ -	0.00	\$ -	\$ -
19			\$ -	0	\$ -	\$ -
20			\$ -	0	\$ -	\$ -
21			\$ -	0	\$ -	\$ -
22			\$ -	0	\$ -	\$ -
23			\$ -	0	\$ -	\$ -
24			\$ -	0	\$ -	\$ -
25			\$ -	0	\$ -	\$ -
26			\$ -	0	\$ -	\$ -
27			\$ -	0	\$ -	\$ -
28			\$ -	0	\$ -	\$ -
29			\$ -	0	\$ -	\$ -
30			\$ -	0	\$ -	\$ -
					<b>\$ 13,786.18</b>	<b>\$ 73,243.40</b>

# SUMMARY OF TRAVEL COSTS

Cost Element	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
<b>Trip #</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	
<b>From-To</b>	Middle Green River	Middle Green River	Middle Green River	Middle Green River	Middle Green River	
<b>Reason</b>	Task 1 - Day trips	Task 1 - Day trips	Task 1 - Day trips	Task 1 - Day trips	Task 1 - Day trips	
<b># of Days (include travel days)</b>	32	32	32	32	32	
<b>Airfare</b>	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Lodging (Per Night)</b>	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>MI&amp;E Per Day</b>	\$ 14.57	\$ 14.86	\$ 15.16	\$ 15.46	\$ 15.77	
<b>Auto Rental Per Day</b>	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Misc Costs/Adjustments/Trip</b>	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total Per Trip</b>	\$ <b>466.24</b>	\$ <b>475.56</b>	\$ <b>485.08</b>	\$ <b>494.78</b>	\$ <b>504.67</b>	
<b>No. of persons</b>	4	4	4	4	4	
<b>Mileage rate</b>	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Total miles</b>	0	0	0	0	0	
<b>SUBTOTAL =</b>	\$ <b>1,864.96</b>	\$ <b>1,902.26</b>	\$ <b>1,940.30</b>	\$ <b>1,979.11</b>	\$ <b>2,018.69</b>	\$ <b>9,705.33</b>