

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

Recovery Program Project Number: 167

Smallmouth bass control in the White River

Reclamation Agreement numbers: TBA (USFWS) & R19AP00059 (UDWR)
Reclamation Agreement terms: October 1, 2019 – September 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.

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Category:

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

Expected Funding Source:

- Annual funds
 Capital funds
 Other

I. Title of Proposal: Smallmouth bass control in the White River

II. Relationship to RIPRAP:

White River Action Plan:

- III. Reduce negative impacts of nonnative fishes and sportfish management activities (nonnative and sportfish management)
- III.B. Reduce negative impacts to endangered fishes from sportfish management activities.
- III.B.2. Preclude new nonnative species introductions, translocations or invasions to preserve native species dominance within critical habitat.
- III.B.2.a. Determine and implement an adequate level of mechanical removal to reduce smallmouth bass.

III. Study Background/Rationale and Hypotheses:

The Upper Colorado River Endangered Fish Recovery Program has determined that control of nonnative fish in the upper Colorado River basin is essential to the recovery of the four endangered fish species (USFWS 2002a-c): Colorado pikeminnow (*Ptychocheilus lucius*), razorback sucker (*Xyrauchen texanus*), humpback chub (*Gila cypha*), and bonytail (*G. elegans*). The highest catch rates of adult and sub-adult Colorado pikeminnow in the Green River sub-basin were observed in the White River during earlier Colorado pikeminnow abundance estimates (Bestgen et al. 2010). Furthermore, adult razorback sucker, many in spawning condition, have recently been collected in the White River during spring sampling (STReaMs Database) and larval razorback sucker were documented for the first time in June 2011 (Webber et al. 2013a), suggesting this species is now utilizing this system for spawning purposes. Additionally, the White River is a stronghold for unlisted native species (Lanigan and Berry 1981; Martinez et al. 1994; Breen and Hedrick 2009, 2010), thus providing an important forage base for Colorado pikeminnow (Osmundson et al. 1998).

Smallmouth bass (*Micropterus dolomieu*) have been documented in the White River for over three decades (Crosby 1975), yet proliferation of this population did not occur until recently. However, 41 smallmouth bass were collected during one low flow native species sampling pass (42.5 mile reach in Utah) conducted during 2009 (Breen and Hedrick 2010). In addition, increasing numbers of smallmouth bass were collected from 2011-2013 during Colorado pikeminnow abundance estimate sampling. During our initial investigation in 2012, we learned that the majority of smallmouth bass were found in the first ten miles below Taylor Draw Dam, and densities decreased dramatically downstream of this area (Breen et al. 2012). This has continued to be the overall distribution of bass in the river, but adult and sub-adult densities have increased in downstream reaches, particularly after low discharge and warm river conditions that are conducive to bass reproduction (Webber et al. 2013b). More recent removal efforts have demonstrated that smallmouth bass have successfully reproduced and recruited every year since 2012 regardless of hydrology, and as a result, bass densities have continued to increase (Smith et al. 2018).

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

Goal:

Sufficiently reduce the abundance of adult smallmouth bass in the White River such that their potential to spawn and their predatory and competitive impacts on the growth, recruitment, and

survival of endangered and other native fishes is minimized.

Objectives:

1. Conduct removal passes for smallmouth bass in the White River from the Taylor Draw Dam (RM 104) to the BLM Enron boat ramp (RM 24). Effort will be distributed based on greatest efficiency of bass removal.
2. Identify levels of control necessary to prevent population expansion.

End Product:

An annual report will provide information on the extent of the smallmouth bass population in the White River, as well as annual fluctuations in densities. Metrics to be summarized include: total numbers of adult and juvenile smallmouth bass removed, total CPUE, CPUE by river reach and size class, numbers of other nonnatives removed, and knowledge of spawning periods and locations.

V. Study Area:

The study area encompasses the White River below Kenney Reservoir (Colorado and Utah), where we will remove smallmouth bass from the Taylor Draw Dam (RM 104) to the Enron boat ramp (RM 24). Crews from USFWS Green River Basin FWCO (USFWS-GRBFWCO), UDWR Vernal, and Colorado Parks and Wildlife (see SOW 126b) will share the workload to complete removal efforts through this reach. Previously the Colorado-Utah border (RM 72) served as a break point for two distinct sections. However, river access was further compromised in 2019 eliminating our ability to launch anywhere between the BLM Big Trujillo boat ramp (RM 87.5) and the Bonanza bridge (RM 59). Therefore, beginning in 2020 USFWS-GRBFWCO will extend their portion of removal efforts downstream into Utah, ending at the Bonanza bridge, and UDWR Vernal will conduct removal efforts from the Bonanza bridge to the Enron boat ramp.

VI. Study Methods/Approach:

Temporarily reducing riverine smallmouth bass and northern pike populations appears viable under certain environmental conditions but both species can easily reverse these reductions in population abundance and return to pre-removal abundances under favorable environmental conditions (Breton et al. 2014; Zelasko et al. 2015). Therefore, mechanical removal efforts will attempt to reach eradication of nonnative fish populations in the river. However, recent synthesis reports investigating effectiveness of in-river removal efforts for northern pike and smallmouth bass determined that reducing in-river populations of these two species would not be successful unless in-river reproduction and reservoir escapement were controlled (Breton et al. 2014; Zelasko et al. 2015). Therefore, mechanical removal efforts will continue to temporarily suppress riverine populations, and will focus on reducing in-river reproduction when feasible. Simultaneously, Program partners will work on other means to reduce in-river reproduction and reservoir escapement, in order to make mechanical removal more effective

and to attempt to reach complete eradication of riverine populations.

Smallmouth bass will be removed by electrofishing. Two electrofishing rafts will simultaneously electrofish each shoreline of the river. Effort will be focused on shoreline habitat that is likely to contain smallmouth bass. Sampling crews will conduct removal activities in a manner that minimizes potential negative impacts to endangered fish as a result of electrofishing activities. This includes discontinuing electrofishing when elevated numbers of endangered and threatened fishes are known to be present, especially when actively spawning. Electrofishing passes will be conducted from May to early July, focusing on the descending limb of the hydrograph when water temperatures will likely favor smallmouth bass spawning and nesting (~16°C). Additionally, one pass of bass removal (more if extremely productive) will occur in October in the Utah portion of the White River given that this strategy has increased the number of adults removed from this reach (Smith et al. 2018). Smallmouth bass captured in this project will not be tagged and released for population estimates.

Several methods will be used in an attempt to identify spawning periods and locations. First, crews will examine shoreline areas for nests and destroy any found. Second, all bass captured will be examined for spawning condition; fish >200 mm TL will be dissected to make this determination if not visibly ripe upon inspection. Finally, the time and locations of YOY smallmouth appearance in catches will be noted and tracked to estimate spawning period and to locate spawning areas. Otolith collection and preservation may provide further insight on exact hatch dates at the request of the Recovery Program.

In addition to the targeted smallmouth bass, other nonnative species encountered will be removed as feasible with the exception of common carp (*Cyprinus carpio*), channel catfish (*Ictalurus punctatus*), and small-bodied cyprinids. All endangered fishes captured will be scanned for a PIT tag, tagged if needed, weighed (g), measured TL (mm), and released alive.

VII. Task Description and Schedule:

Task 1. Fourteen days of smallmouth bass removal from Taylor Draw Dam (RM 104) to BLM boat launch (RM 87.5) and three passes (three days of effort per pass) from the BLM boat ramp to the Bonanza bridge (RM 59).

Task 2. Three smallmouth bass removal passes (or a total of 9 days of effort) from the Bonanza bridge (RM 59) to Enron boat ramp (RM 24); two passes will be completed in spring/summer and one pass in the fall as described above. *Note: prior to the onset of 2019 field sampling, effort to conduct one spring and one fall pass (or 8 days of total effort) was shifted from Project #123b. Following access issues described above, removal passes for this task will now only take three days to complete instead of four.*

Task 3. Data entry, analysis, and reporting.

Schedule: FY 2020-2024

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

	USFWS-GRBFWCO	UDWR-Vernal	FY Total
FY 2020	\$59,629	\$31,403	\$91,032
FY 2021	\$57,074	\$32,031	\$89,105
FY 2022	\$57,423	\$45,192	\$102,615
FY 2023	\$58,571	\$46,096	\$104,667
FY 2024	\$64,544	\$47,018	\$111,562
TOTAL	\$297,241	\$226,767	\$524,008

X. Reviewers:

XI. References:

Bestgen, K.R., J.A.Hawkins, G.C. White, C.D. Walford, P. Badame, and L. Monroe. 2010. Population status of Colorado pikeminnow in the Green River Basin, Utah and Colorado, 2006-2008. Final Report of the Larval Fish Laboratory, Colorado State University to the Upper Colorado River Endangered Fish Recovery Program, Denver, Colorado.

Breen, M.J. and T.N. Hedrick. 2009. Status of bluehead sucker, flannelmouth sucker, and roundtail chub populations in three drainages of northeastern Utah. Three Species 2008 Statewide Monitoring Summary. Publication number: 09-27. Salt Lake City, Utah.

Breen, M.J. and T.N. Hedrick. 2010. Conservation activities for Bluehead Sucker, Flannelmouth Sucker, and Roundtail Chub in four drainages of northeastern Utah. Three Species 2009 Statewide Monitoring Summary. Publication number: 10-25. Salt Lake City, Utah.

Breen, M.J., J.A. Skorupski Jr., A. Webber, and T. Jones. 2012. Smallmouth bass control in the White River. Annual Report to the Upper Colorado River Endangered Fish Recovery Program. Denver, Colorado.

Breton, A.R, D.L. Winkelman, J.A. Hawkins, and K.R. Bestgen. 2014. Population trends of smallmouth bass in the upper Colorado River basin with an evaluation of

- removal effects. Final report to the Upper Colorado River Endangered Fish Recovery Program, Denver, Colorado. Larval Fish Laboratory Contribution 169.
- Crosby, C. 1975. White River report 1974-1975. Utah Division of Wildlife Resources, Salt Lake City, Utah.
- Lanigan, S.H. and C.R. Berry. 1981. Distribution of Fishes in the White River, Utah. *The Southwestern Naturalist* 26(4):389-393.
- Martinez, P.J., T.E. Chart, M.A. Trammell, J.G. Wullschleger, E.P. Bergersen. 1994. Fish species composition before and after construction of a mainstem reservoir on the White River, Colorado. *Environmental Biology of Fishes* 40:227-239.
- Osmundson, D.B., R.J. Ryel, M.E. Tucker, B.D. Burdick, W.R. Elmblad & T.E. Chart. 1998. Dispersal patterns of subadult and adult Colorado squawfish in the upper Colorado River. *Transactions of the American Fisheries Society* 127(6):943-956.
- Smith, C., T. Jones, M.J. Breen, and J. Logan. 2018. Smallmouth bass control in the White River. Annual Report to the Upper Colorado River Endangered Fish Recovery Program. Denver, Colorado.
- U.S. Fish and Wildlife Service (USFWS). 2002a. Colorado pikeminnow (*Ptychocheilus lucius*) recovery goals: amendment and supplement to the humpback chub recovery plan. U.S. Fish and Wildlife Service, Mountain-Prairie Region (6), Denver, Colorado.
- U.S. Fish and Wildlife Service (USFWS). 2002b. Razorback sucker (*Xyrauchen texanus*) recovery goals: amendment and supplement to the humpback chub recovery plan. U.S. Fish and Wildlife Service, Mountain-Prairie Region (6), Denver, Colorado.
- U.S. Fish and Wildlife Service (USFWS). 2002c. Bonytail (*Gila elegans*) recovery goals: amendment and supplement to the humpback chub recovery plan. U.S. Fish and Wildlife Service, Mountain-Prairie Region (6), Denver, Colorado.
- Webber, P.A., K.R. Bestgen, and G.B. Haines. 2013a. Tributary spawning by endangered Colorado River basin fishes in the White River. *North American Journal of Fisheries Management* 33:1166-1171.
- Webber, A., M.J. Breen, and J.A. Skorupski Jr. 2013b. Smallmouth bass control in the White River. Annual Report to the Upper Colorado River Endangered Fish Recovery Program. Denver, Colorado.
- Zelasko, K.A., K.R. Bestgen, J.A. Hawkins, and G.C. White. 2015. Abundance and population dynamics of invasive northern pike *Esox lucius*, Yampa River, Colorado, 2004–2010. Final Report to the Upper Colorado River Endangered Fish Recovery Program, Project 161b, Denver, Colorado. Larval Fish Laboratory Contribution 185.

SUMMARY OF PROPOSED COSTS

Name of Servicing Agency:	Utah Division of Wildlife Services
Project Name:	Project 167 Smallmouth Bass control White River (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		Through		Through		Through		Through		
Enter the BEGINNING dates for each year ----->	9/30/2020		9/30/2021		9/30/2022		9/30/2023		9/30/2024		
Enter the ENDING dates for each year ----->											
DIRECT LABOR AND FRINGE BENEFIT COSTS:	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
Direct Labor - Hourly	\$ 21,579.78		\$ 22,011.38		\$ 32,171.26		\$ 32,814.69		\$ 33,470.98		\$ 142,048.10
Fringe Benefits - Hourly	\$ 4,006.40		\$ 4,086.52		\$ 6,482.20		\$ 6,611.84		\$ 6,744.08		\$ 27,931.04
Subtotal of Direct Labor & Fringe Benefits:	\$ 25,586.18		\$ 26,097.90		\$ 38,653.46		\$ 39,426.53		\$ 40,215.06		\$ 169,979.14
OTHER DIRECT COSTS:	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
Materials Supplies and Services	\$ 4,412.34		\$ 4,500.58		\$ 4,590.59		\$ 4,682.41		\$ 4,776.05		\$ 22,961.97
Travel Costs	\$ 1,404.45		\$ 1,432.54		\$ 1,948.25		\$ 1,987.22		\$ 2,026.96		\$ 8,799.42
Equipment	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Contractors	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Subtotal of Other Direct Costs:	\$ 5,816.79		\$ 5,933.12		\$ 6,538.84		\$ 6,669.63		\$ 6,803.01		\$ 31,761.39
INDIRECT/OVERHEAD COSTS:	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
Subtotal of Labor and Other Direct Costs:	\$ 31,402.97		\$ 32,031.02		\$ 45,192.30		\$ 46,096.16		\$ 47,018.07		
Total dollars exempt from indirect/overhead base:	\$ -		\$ -		\$ -		\$ -		\$ -		
Indirect/Overhead not charged to UCRRP Programs	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	\$ -
Total dollars exempt from indirect/overhead base:	\$ -		\$ -		\$ -		\$ -		\$ -		
Indirect/Overhead not charged to UCRRP Programs	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	\$ -
Subtotal of Indirect/Overhead Costs:	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
GRAND TOTAL:	\$ 31,402.97		\$ 32,031.02		\$ 45,192.30		\$ 46,096.16		\$ 47,018.07		\$ 201,740.53

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	(3) 4x4 Truck Lease UDWR Motorpool	Allocation of Total Fleet Lease for Vernal	\$ 16,646.40	0.04	\$ 665.86	\$ 16,979.33	0.04	\$ 679.17
2	1	Boat Fuel	Based on previous experience & SOWs fund	\$ 4.16	144.00	\$ 599.27	\$ 4.24	144.00	\$ 611.26
3	1	Boating gear repair/replacement:	Based on previous experience & SOWs fund	\$ 1,014.39	1.00	\$ 1,014.39	\$ 1,034.68	1.00	\$ 1,034.68
4	1	Camping supplies	Based on previous experience & SOWs fund	\$ 468.18	1.00	\$ 468.18	\$ 477.54	1.00	\$ 477.54
5	1	Sampling gear repair/replacement	Based on previous experience & SOWs fund	\$ 1,664.64	1.00	\$ 1,664.64	\$ 1,697.93	1.00	\$ 1,697.93
6				\$ -	0.00	\$ -	\$ -	0.00	\$ -
7				\$ -	0.00	\$ -	\$ -	0.00	\$ -
8				\$ -	0.00	\$ -	\$ -	0.00	\$ -
9				\$ -	0.00	\$ -	\$ -	0.00	\$ -
10				\$ -	0.00	\$ -	\$ -	0.00	\$ -
11				\$ -	0.00	\$ -	\$ -	0.00	\$ -
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	\$ -
TOTAL:						\$ 4,412.34			\$ 4,500.58

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, S	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	(3) 4x4 Truck Lease UDWR Motorpool	\$ 17,318.91	0.04	\$ 692.76	\$ 17,665.29	0.04	\$ 706.61
2	1	Boat Fuel	\$ 4.33	144.00	\$ 623.48	\$ 4.42	144.00	\$ 635.95
3	1	Boating gear repair/replacement:	\$ 1,055.37	1.00	\$ 1,055.37	\$ 1,076.48	1.00	\$ 1,076.48
4	1	Camping supplies	\$ 487.09	1.00	\$ 487.09	\$ 496.84	1.00	\$ 496.84
5	1	Sampling gear repair/replacement	\$ 1,731.89	1.00	\$ 1,731.89	\$ 1,766.53	1.00	\$ 1,766.53
6			\$ -	0.00	\$ -	\$ -	0.00	\$ -
7			\$ -	0.00	\$ -	\$ -	0.00	\$ -
8			\$ -	0.00	\$ -	\$ -	0.00	\$ -
9			\$ -	0.00	\$ -	\$ -	0.00	\$ -
10			\$ -	0.00	\$ -	\$ -	0.00	\$ -
11			\$ -	0.00	\$ -	\$ -	0.00	\$ -
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	\$ -
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26			\$ -	0	\$ -	\$ -	0	\$ -
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28			\$ -	0	\$ -	\$ -	0	\$ -
29			\$ -	0	\$ -	\$ -	0	\$ -
30			\$ -	0	\$ -	\$ -	0	\$ -
					\$ 4,590.59	\$ 4,682.41		

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, S	Yr 5 Escalation Rate	2.00%
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	Task #	Item Description	Year 5			TOTAL
			Unit Price	Unit Quantity	Subtotal	
1	1	(3) 4x4 Truck Lease UDWR Motorpool	\$ 18,018.60	0.04	\$ 720.74	\$ 3,465.14
2	1	Boat Fuel	\$ 4.50	144.00	\$ 648.67	\$ 3,118.63
3	1	Boating gear repair/replacement:	\$ 1,098.01	1.00	\$ 1,098.01	\$ 5,278.93
4	1	Camping supplies	\$ 506.77	1.00	\$ 506.77	\$ 2,436.42
5	1	Sampling gear repair/replacement	\$ 1,801.86	1.00	\$ 1,801.86	\$ 8,662.85
6			\$ -	0.00	\$ -	\$ -
7			\$ -	0.00	\$ -	\$ -
8			\$ -	0.00	\$ -	\$ -
9			\$ -	0.00	\$ -	\$ -
10			\$ -	0.00	\$ -	\$ -
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	\$ -	\$ -
20			\$ -	0	\$ -	\$ -
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29			\$ -	0	\$ -	\$ -
30			\$ -	0	\$ -	\$ -
					\$ 4,776.05	\$ 22,961.97

SUMMARY OF TRAVEL COSTS

Cost Element	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
Task #	1	1	1	1	1	
From-To	White R to Enron	White R to Enron	White R to Enron	White R to Enron	White R to Enron	
Reason	Task 2 SMB Control	Task 2 SMB Control	Task 2 SMB Control	Task 2 SMB Control	Task 2 SMB Control	
# of Days (include travel days)	9	9	12	12	12	
Airfare	\$ -	\$ -	\$ -	\$ -	\$ -	
Lodging (Per Night)	\$ -	\$ -	\$ -	\$ -	\$ -	
MI&E Per Day	\$ 31.21	\$ 31.83	\$ 32.47	\$ 33.12	\$ 33.78	
Auto Rental Per Day	\$ -	\$ -	\$ -	\$ -	\$ -	
Misc Costs/Adjustments/Trip	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Per Trip	\$ 280.89	\$ 286.51	\$ 389.65	\$ 397.44	\$ 405.39	
No. of persons	5	5	5	5	5	
Mileage rate	\$ -	\$ -	\$ -	\$ -	\$ -	
Total miles	0	0	0	0	0	
SUBTOTAL =	\$ 1,404.45	\$ 1,432.54	\$ 1,948.25	\$ 1,987.22	\$ 2,026.96	\$ 8,799.42

SUMMARY OF PROPOSED COSTS

Name of Servicing Agency:	US Fish & Wildlife Service Green River Basin FWCO
Project Name:	Recovery Program Project 167: Smallmouth Bass Control in the White River

	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
	Enter the BEGINNING dates for each year ----->		Enter the BEGINNING dates for each year ----->		Enter the BEGINNING dates for each year ----->		Enter the BEGINNING dates for each year ----->		Enter the BEGINNING dates for each year ----->		
	10/1/2019	9/30/2020	10/1/2021	10/1/2022	10/1/2023	9/29/2024	Through	Through	Through	Through	
	Enter the ENDING dates for each year ----->		Enter the ENDING dates for each year ----->		Enter the ENDING dates for each year ----->		Enter the ENDING dates for each year ----->		Enter the ENDING dates for each year ----->		
	9/29/2020	9/30/2021	9/30/2022	9/30/2023	9/29/2024						
DIRECT LABOR AND FRINGE BENEFIT COSTS:	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL					
Direct Labor - Hourly	\$ 39,483.62	\$ 37,038.25	\$ 37,779.02	\$ 38,534.60	\$ 42,738.34	\$ 195,573.82					
Fringe Benefits - Hourly	\$ 13,907.46	\$ 12,896.28	\$ 13,154.21	\$ 13,417.29	\$ 15,053.88	\$ 68,429.12					
Subtotal of Direct Labor & Fringe Benefits:	\$ 53,391.08	\$ 49,934.53	\$ 50,933.22	\$ 51,951.89	\$ 57,792.22	\$ 264,002.94					
OTHER DIRECT COSTS:	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL					
Materials and Supplies	\$ 4,238.31	\$ 5,099.92	\$ 4,409.55	\$ 4,497.72	\$ 4,587.68	\$ 22,833.17					
Travel Costs	\$ 1,999.73	\$ 2,039.72	\$ 2,080.51	\$ 2,122.12	\$ 2,164.57	\$ 10,406.65					
Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -					
Contractors	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -					
Subtotal of Other Direct Costs:	\$ 6,238.04	\$ 7,139.64	\$ 6,490.06	\$ 6,619.84	\$ 6,752.25	\$ 33,239.82					
INDIRECT/OVERHEAD COSTS:	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL					
Subtotal of Labor and Other Direct Costs:	\$ 59,629.11	\$ 57,074.17	\$ 57,423.28	\$ 58,571.73	\$ 64,544.47						
Total dollars exempt from indirect/overhead base:	\$ -										
<Enter Description of Indirect/OH Cost #1>	3.00%	\$ 1,788.87	3.00%	\$ 1,712.22	3.00%	\$ 1,722.70	3.00%	\$ 1,757.15	3.00%	\$ 1,936.33	\$ 8,917.28
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:	\$ 1,788.87	\$ 1,712.22	\$ 1,722.70	\$ 1,757.15	\$ 1,936.33	\$ 8,917.28					
	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL					
GRAND TOTAL:	\$ 61,417.99	\$ 58,786.39	\$ 59,145.98	\$ 60,328.88	\$ 66,480.80	\$ 306,160.04					

SUMMARY OF DIRECT LABOR & FRINGE BENEFIT

Enter Escalation Rates ----->	Yr 2 Escalation Rate	2.00%
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Task # or Description	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	1	Fish Biologist	GS 11	5	Rest of United	\$ 33.80	40.0	\$ 33.80	\$ 1,352.00	40.00%	\$ 540.80	20.0	\$ 34.48	\$ 689.52	40.00%	\$ 275.81
2	1	Fish Biologist	GS 11	3	Rest of United	\$ 31.81	232.0	\$ 31.81	\$ 7,379.92	35.00%	\$ 2,582.97	232.0	\$ 32.45	\$ 7,527.52	35.00%	\$ 2,634.63
3	1	Fisheries Technician	GS 8	9	Rest of United	\$ 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	1	Biological Science Technician Crew Leader	GS 6	1	Rest of United	\$ 18.50	128.0	\$ 18.50	\$ 2,368.00	23.78%	\$ 563.11	160.0	\$ 18.87	\$ 3,019.20	23.78%	\$ 717.97
5	1	Biological Science Technician	GS 5	1	Rest of United	\$ 16.59	128.0	\$ 16.59	\$ 2,123.52	33.00%	\$ 700.76	160.0	\$ 16.92	\$ 2,707.49	33.00%	\$ 893.47
6	1	Small Craft Operator	WG 5	2	Rest of United	\$ 17.78	128.0	\$ 17.78	\$ 2,275.84	33.00%	\$ 751.03	160.0	\$ 18.14	\$ 2,901.70	33.00%	\$ 957.56
7	1	Biological Science Technician Crew Leader OT	GS 6	1	Rest of United	\$ 27.75	24.0	\$ 27.75	\$ 666.00	0.00%	\$ -	18.0	\$ 28.31	\$ 509.49	0.00%	\$ -
8	1	OT	GS 5	1	Rest of United	\$ 24.89	24.0	\$ 24.89	\$ 597.24	0.00%	\$ -	18.0	\$ 25.38	\$ 456.89	0.00%	\$ -
9	1	Small Craft Operator OT	WG 5	1	Rest of United	\$ 26.67	24.0	\$ 26.67	\$ 640.08	0.00%	\$ -	18.0	\$ 27.20	\$ 489.66	0.00%	\$ -
10	3	Fish Biologist	GS 11	5	Rest of United	\$ 33.80	40.0	\$ 33.80	\$ 1,352.00	40.00%	\$ 540.80	20.0	\$ 34.48	\$ 689.52	40.00%	\$ 275.81
11	3	Fish Biologist	GS 11	3	Rest of United	\$ 31.81	40.0	\$ 31.81	\$ 1,272.40	35.00%	\$ 445.34	48.0	\$ 32.45	\$ 1,557.42	35.00%	\$ 545.10
12	3	Administrative Officer	GS 9	8	Rest of United	\$ 30.40	125.0	\$ 30.40	\$ 3,800.00	40.00%	\$ 1,520.00	96.0	\$ 31.01	\$ 2,976.77	40.00%	\$ 1,190.71
13	3	Project Leader	GS 13	5	Rest of United	\$ 48.17	210.0	\$ 48.17	\$ 10,115.70	40.00%	\$ 4,046.28	160.0	\$ 49.13	\$ 7,861.34	40.00%	\$ 3,144.54
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						\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	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%	\$ -
						1,339.00		\$ 39,483.62			\$ 13,907.46	1,306.00		\$ 37,038.25		\$ 12,896.28

SUMMARY OF DIRECT LABOR & FRINGE BENEFIT

Yr 3 Escalation Rate	2.00%
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Yr 4 Escalation Rate	2.00%
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Task # or Description	Position Title	GS/WG Grade	GS/WG Step	OPM Pay Location	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	Fish Biologist	GS 11	5	Rest of United	\$ 33.80	20.0	\$ 35.17	\$ 703.31	40.00%	\$ 281.32	20.0	\$ 35.87	\$ 717.38	40.00%	\$ 286.95
2	Fish Biologist	GS 11	3	Rest of United	\$ 31.81	232.0	\$ 33.10	\$ 7,678.07	35.00%	\$ 2,687.32	232.0	\$ 33.76	\$ 7,831.63	35.00%	\$ 2,741.07
3	Fisheries Technician	GS 8	9	Rest of United	\$ 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	Biological Science Technician Crew Leader	GS 6	1	Rest of United	\$ 18.50	160.0	\$ 19.25	\$ 3,079.58	23.78%	\$ 732.33	160.0	\$ 19.63	\$ 3,141.18	23.78%	\$ 746.97
5	Biological Science Technician	GS 5	1	Rest of United	\$ 16.59	160.0	\$ 17.26	\$ 2,761.64	33.00%	\$ 911.34	160.0	\$ 17.61	\$ 2,816.87	33.00%	\$ 929.57
6	Small Craft Operator	WG 5	2	Rest of United	\$ 17.78	160.0	\$ 18.50	\$ 2,959.73	33.00%	\$ 976.71	160.0	\$ 18.87	\$ 3,018.92	33.00%	\$ 996.25
7	Biological Science Technician Crew Leader OT	GS 6	1	Rest of United	\$ 27.75	18.0	\$ 28.87	\$ 519.68	0.00%	\$ -	18.0	\$ 29.45	\$ 530.07	0.00%	\$ -
8	OT	GS 5	1	Rest of United	\$ 24.89	18.0	\$ 25.89	\$ 466.03	0.00%	\$ -	18.0	\$ 26.41	\$ 475.35	0.00%	\$ -
9	Small Craft Operator OT	WG 5	1	Rest of United	\$ 26.67	18.0	\$ 27.75	\$ 499.45	0.00%	\$ -	18.0	\$ 28.30	\$ 509.44	0.00%	\$ -
10	Fish Biologist	GS 11	5	Rest of United	\$ 33.80	20.0	\$ 35.17	\$ 703.31	40.00%	\$ 281.32	20.0	\$ 35.87	\$ 717.38	40.00%	\$ 286.95
11	Fish Biologist	GS 11	3	Rest of United	\$ 31.81	48.0	\$ 33.10	\$ 1,588.57	35.00%	\$ 556.00	48.0	\$ 33.76	\$ 1,620.34	35.00%	\$ 567.12
12	Administrative Officer	GS 9	8	Rest of United	\$ 30.40	96.0	\$ 31.63	\$ 3,036.30	40.00%	\$ 1,214.52	96.0	\$ 32.26	\$ 3,097.03	40.00%	\$ 1,238.81
13	Project Leader	GS 13	5	Rest of United	\$ 48.17	160.0	\$ 50.12	\$ 8,018.57	40.00%	\$ 3,207.43	160.0	\$ 51.12	\$ 8,178.94	40.00%	\$ 3,271.58
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					\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	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%	\$ -
						1,306.00		\$ 37,779.02		\$ 13,154.21	1,306.00		\$ 38,534.60		\$ 13,417.29

SUMMARY OF DIRECT LABOR & FRINGE BENEFIT

Yr 5 Escalation Rate	2.00%
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							YEAR 5							
							10/1/2023	Through	9/29/2024					
Task # or Description	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	1	Fish Biologist	GS 11	5	Rest of United	\$ 33.80	40.0	\$ 36.59	\$ 1,463.45	40.00%	\$ 585.38	\$ 4,925.66	\$ 1,970.26	\$ 6,895.92
2	1	Fish Biologist	GS 11	3	Rest of United	\$ 31.81	232.0	\$ 34.43	\$ 7,988.26	35.00%	\$ 2,795.89	\$ 38,405.40	\$ 13,441.89	\$ 51,847.29
3	1	Fisheries Technician	GS 8	9	Rest of United	\$ 28.27	196.0	\$ 30.60	\$ 5,997.67	40.00%	\$ 2,399.07	\$ 28,835.17	\$ 11,534.07	\$ 40,369.24
4	1	Biological Science Technician Crew Leader	GS 6	1	Rest of United	\$ 18.50	128.0	\$ 20.02	\$ 2,563.20	23.78%	\$ 609.53	\$ 14,171.16	\$ 3,369.90	\$ 17,541.06
5	1	Biological Science Technician	GS 5	1	Rest of United	\$ 16.59	128.0	\$ 17.96	\$ 2,298.57	33.00%	\$ 758.53	\$ 12,708.08	\$ 4,193.67	\$ 16,901.75
6	1	Small Craft Operator	WG 5	2	Rest of United	\$ 17.78	128.0	\$ 19.25	\$ 2,463.44	33.00%	\$ 812.94	\$ 13,619.63	\$ 4,494.48	\$ 18,114.11
7	1	Biological Science Technician Crew Leader OT	GS 6	1	Rest of United	\$ 27.75	24.0	\$ 30.04	\$ 720.90	0.00%	\$ -	\$ 2,946.14	\$ -	\$ 2,946.14
8	1	OT	GS 5	1	Rest of United	\$ 24.89	24.0	\$ 26.94	\$ 646.47	0.00%	\$ -	\$ 2,641.97	\$ -	\$ 2,641.97
9	1	Small Craft Operator OT	WG 5	1	Rest of United	\$ 26.67	24.0	\$ 28.87	\$ 692.84	0.00%	\$ -	\$ 2,831.48	\$ -	\$ 2,831.48
10	3	Fish Biologist	GS 11	5	Rest of United	\$ 33.80	40.0	\$ 36.59	\$ 1,463.45	40.00%	\$ 585.38	\$ 4,925.66	\$ 1,970.26	\$ 6,895.92
11	3	Fish Biologist	GS 11	3	Rest of United	\$ 31.81	40.0	\$ 34.43	\$ 1,377.29	35.00%	\$ 482.05	\$ 7,416.01	\$ 2,595.60	\$ 10,011.61
12	3	Administrative Officer	GS 9	8	Rest of United	\$ 30.40	125.0	\$ 32.91	\$ 4,113.24	40.00%	\$ 1,645.30	\$ 17,023.34	\$ 6,809.34	\$ 23,832.68
13	3	Project Leader	GS 13	5	Rest of United	\$ 48.17	210.0	\$ 52.14	\$ 10,949.56	40.00%	\$ 4,379.82	\$ 45,124.12	\$ 18,049.65	\$ 63,173.76
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%	\$ -	\$ -	\$ -	\$ -	\$ -
							1,339.00		\$ 42,738.34		\$ 15,053.88	\$ 195,573.82	\$ 68,429.12	\$ 264,002.94

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	GSA Lease of Equip Code 6351 (monthly lease)	http://www.gsa.gov/portal/category/2185	\$ 236.64	1	\$ 236.64	\$ 241.37	2	\$ 482.75
2	1	GSA Lease of Equip Code 6351 (mileage rate)	http://www.gsa.gov/portal/category/2185	\$ 0.32	2380	\$ 761.60	\$ 0.33	2380	\$ 776.83
3	1	GSA Lease of Equip Code 6352 (monthly lease)	http://www.gsa.gov/portal/category/2185	\$ 248.88	4	\$ 995.52	\$ 253.86	4	\$ 1,015.43
4	1	GSA Lease of Equip Code 6352 (mileage rate)	http://www.gsa.gov/portal/category/2185	\$ 0.33	4760	\$ 1,570.80	\$ 0.34	4760	\$ 1,602.22
5	1	Sampling gear repair/replacement	Please refer to Reclamation Agreement	\$ 333.33	1	\$ 333.33	\$ 340.00	1	\$ 340.00
6	1	Boating gear repair/replacement	Please refer to Reclamation Agreement	\$ 333.33	1	\$ 333.33	\$ 340.00	1	\$ 340.00
7	1	Camping gear repair/replacement	Please refer to Reclamation Agreement	\$ 333.33	1	\$ 333.33	\$ 340.00	1	\$ 340.00
8	1	Boat fuel (gal)	Please refer to Reclamation Agreement	\$ 4.00	168	\$ 672.00	\$ 4.08	168	\$ 685.44
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	\$ -
TOTAL:									
						\$ 4,238.31			\$ 5,099.92

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS,	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	GSA Lease of Equip Code 6351 (monthly lease)	\$ 246.20	2	\$ 492.40	\$ 251.12	2	\$ 502.25	
2	1	GSA Lease of Equip Code 6351 (mileage rate)	\$ 0.33	2380	\$ 776.83	\$ 0.33	2380	\$ 792.37	
3	1	GSA Lease of Equip Code 6352 (monthly lease)	\$ 258.93	4	\$ 1,035.74	\$ 264.11	4	\$ 1,056.45	
4	1	GSA Lease of Equip Code 6352 (mileage rate)	\$ 0.34	4760	\$ 1,634.26	\$ 0.35	4760	\$ 1,666.95	
5	1	Sampling gear repair/replacement	\$ 346.80	1	\$ 346.80	\$ 353.73	1	\$ 353.73	
6	1	Boating gear repair/replacement	\$ 346.80	1	\$ 346.80	\$ 353.73	1	\$ 353.73	
7	1	Camping gear repair/replacement	\$ 346.80	1	\$ 346.80	\$ 353.73	1	\$ 353.73	
8	1	Boat fuel (gal)	\$ 4.16	168	\$ 699.15	\$ 4.24	168	\$ 713.13	
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	\$ -	
					\$ 4,409.55				\$ 4,497.72

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS,	Yr 5 Escalation Rate	2.00%
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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)	\$256.15	2	\$ 512.29	\$ 2,226.32
2	1	GSA Lease of Equip Code 6351 (mileage rate)	\$0.34	2380	\$ 808.22	\$ 3,915.85
3	1	GSA Lease of Equip Code 6352 (monthly lease)	\$ 269.40	4	\$ 1,077.58	\$ 4,942.12
4	1	GSA Lease of Equip Code 6352 (mileage rate)	\$ 0.36	4760	\$ 1,700.28	\$ 8,174.51
5	1	Sampling gear repair/replacement	\$ 360.81	1	\$ 360.81	\$ 1,734.67
6	1	Boating gear repair/replacement	\$ 360.81	1	\$ 360.81	\$ 1,734.67
7	1	Camping gear repair/replacement	\$ 360.81	1	\$ 360.81	\$ 1,734.67
8	1	Boat fuel (gal)	\$ 4.33	168	\$ 727.39	\$ 3,497.11
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	\$ -	\$ -
				\$ 4,587.68	\$ 22,833.17	

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	Vernal to Big Trujillo	Vernal to Big Trujillo	Vernal to Big Trujillo	Vernal to Big Trujillo	Vernal to Big Trujillo	
Reason	Field work	Field work	Field work	Field work	Field work	
# of Days (include travel days)	9	9	9	9	9	
Airfare	\$ -	\$ -	\$ -	\$ -	\$ -	
Lodging (Per Night)	\$ -	\$ -	\$ -	\$ -	\$ -	
MI&E Per Day	\$ 36.97	\$ 37.71	\$ 38.46	\$ 39.23	\$ 40.02	
Auto Rental Per Day	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Per Trip	\$ 314.25	\$ 320.53	\$ 326.94	\$ 333.48	\$ 340.15	
No. of persons	5	5	5	5	5	
SUBTOTAL =	\$ 1,571.23	\$ 1,602.65	\$ 1,634.70	\$ 1,667.40	\$ 1,700.74	\$ 8,176.72

Cost Element	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
Trip #	2	2	2	2	2	
From-To	Vernal to Grand Junction	Vernal to Grand Junction	Vernal to Grand Junction	Vernal to Grand Junction	Vernal to Grand Junction	
Reason	NNF Meeting	NNF Meeting	NNF Meeting	NNF Meeting	NNF Meeting	
# of Days (include travel days)	3	3	3	3	3	
Airfare	\$ -	\$ -	\$ -	\$ -	\$ -	
Lodging (Per Night)	\$ 97.00	\$ 98.94	\$ 100.92	\$ 102.94	\$ 105.00	
MI&E Per Day	\$ 55.00	\$ 56.10	\$ 57.22	\$ 58.37	\$ 59.53	
Auto Rental Per Day	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Per Trip	\$ 428.50	\$ 437.07	\$ 445.81	\$ 454.73	\$ 463.82	
No. of persons	1	1	1	1	1	
SUBTOTAL =	\$ 428.50	\$ 437.07	\$ 445.81	\$ 454.73	\$ 463.82	\$ 2,229.93

	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
TOTAL COST BY PERIOD =	\$ 1,999.73	\$ 2,039.72	\$ 2,080.51	\$ 2,122.12	\$ 2,164.57	\$ 10,406.65