

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

Recovery Program Project Number: 125

Middle Yampa smallmouth bass and northern pike removal

Reclamation Agreement number: New Agreement pending
 Agreement term: Oct. 1, 2018 – Sep. 30, 2023

Lead agency: Larval Fish Laboratory (LFL)
 Submitted by: John Hawkins (Lead)
 Larval Fish Laboratory
 Department of Fish, Wildlife, and Conservation
 Biology Colorado State University
 Ft Collins, CO 80523
 Voice: (970) 491-2777 FAX: (970) 491-5091
John.Hawkins@ColoState.EDU

This project includes personnel and equipment assistance from USFWS- see attached budgets.

Date Submitted: 5/15/2019
 Date Last Modified: 5/15/2019

<p><u>Category:</u></p> <p><input checked="" type="checkbox"/> Ongoing project</p> <p><input type="checkbox"/> Ongoing-revised project</p> <p><input type="checkbox"/> Requested new project</p> <p><input type="checkbox"/> Unsolicited proposal</p>	<p><u>Expected Funding Source:</u></p> <p><input checked="" type="checkbox"/> Annual funds</p> <p><input type="checkbox"/> Capital funds</p> <p><input type="checkbox"/> Other <i>[explain]</i></p>
---	---

I. Title of Proposal: **Evaluation of smallmouth bass and northern pike management in the middle Yampa River.**

II. Relationship to RIPRAP: *See RIPRAP at <http://www.coloradoriverrecovery.org/documents-publications/foundational-documents/recovery-action-plan.html>*

	Action Plan: General Recovery Program Support.
III.	REDUCE NEGATIVE IMPACTS OF NONNATIVE FISHES AND SPORTFISH MANAGEMENT ACTIVITIES (NONNATIVE AND SPORTFISH MANAGEMENT)
III.A.	Reduce negative interactions between nonnative and endangered fishes.
III.A.1.	Where not already generally known, identify negative impacts (e.g., predation, competition, hybridization) of problem species.
III.A.1.c.	Re-evaluate levels of hybridization with white sucker and assess effects on razorback sucker populations. (Program will monitor for evidence of hybridization as razorbacks increase in the system.)
III.A.1.c.(1)	If necessary, implement actions to minimize hybridization between white sucker and razorback sucker.
III.A.2.	Identify and implement viable active control measures.

III.A.2.c.	Evaluate the effectiveness (e.g., nonnative and native fish response), develop, and implement an integrated, viable active control program.
III.A.2.c.(1)	Project-level synthesis: synthesize data on each species/river nonnative fish control effort and concomitant native fish response (e.g., smallmouth bass in the Yampa River and native fish response in the Yampa River) (completed by PI's and identified as a task in individual scopes of work). (YS G-3) See Bestgen et al., 2007 for Yampa River native fish response report (2003-2006) and Skorupski et al 2012 for Middle Green River native fish response report (2005-2008).
	Action Plan: Yampa River.
III.B.1.c.(1)	Implement remedial measures to reduce pike reproduction in Yampa River.
III.B.2.	Control nonnative fishes via mechanical removal
III.B.2.a.	Estimate nonnative abundance, status, trends & distribution (YS I-3)
III.B.2.c.	Identify and evaluate gear types and methods to control nonnative fishes (YS I-5)
III.B.2.d.	Remove (formerly "and translocate") northern pike from Yampa River. See Hawkins et al. 2005. (YS J-1)
III.B.2.d.(1)	Remove northern pike and smallmouth bass above designated critical habitat (Craig, CO) (YS C-3).
III.B.2.e.	Remove (formerly "and translocate") smallmouth bass in Yampa River designated critical habitat. (YS J-1).
III.B.2.h.	Monitor native and endangered fish response (YS L-2)

III. Study Background/Rationale and Hypotheses:

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.

IV. Study Goals, Objectives, End Products

We are implementing mechanical removal of nonnative smallmouth bass and northern pike in the middle and upper Yampa River; we coordinate our sampling with Colorado Parks and Wildlife (CPW) and U.S. Fish and Wildlife Service (FWS) who are responsible for removal of those species in adjacent reaches during certain times of the year.

CPW will be responsible for management and analysis of northern pike data collected from this project in the middle Yampa River. We (CSU) will be responsible for management and analysis of smallmouth bass data collected by CPW and CSU from the middle Yampa River, and northern

pike data collected from our study reach in the upper Yampa River.

Smallmouth bass

The goal is to reduce the number of smallmouth bass and decrease their spawning success in the middle Yampa River in order to benefit native fishes and assist in the recovery of endangered fishes.

Objectives:

- Obtain an annual estimate of the number of smallmouth bass in Little Yampa Canyon using a mark-recapture abundance estimator.
- Conduct at least one adequate marking pass in Little Yampa Canyon and additional removal passes in the reaches of the Yampa River between South Beach and Deerlodge Park.
- Reduce the success of smallmouth bass spawning in the South Beach, Little Yampa Canyon, Lower Juniper, and Maybell reaches.
- Calculate the proportion of juvenile and adult smallmouth bass removed from Little Yampa Canyon based on initial population size.
- Remove large numbers of age-0 and age-1 smallmouth bass from a 12-mile treatment reach (RM100-112) in Little Yampa Canyon in coordination with Recovery Program Project 140 (Native fish response evaluation).

Northern pike

The goal is to reduce the number of northern pike from the middle Yampa River between South Beach and Deerlodge Park and from the upper Yampa River between Steamboat Springs, CO and the Hayden Power Station Intake Boat ramp (originally Project 98c) in order to benefit native fishes and assist in the recovery of endangered fishes. We will coordinate northern pike removal with CPW and FWS.

Objectives:

In the upper Yampa River between Steamboat Springs and Hayden (Project 98c):

- Obtain an estimate of the number of northern pike using a mark-recapture abundance estimator in 2019 and future years as directed.
- Remove northern pike on two or more removal passes.
- Identify potential spawning locations.

In the lower Yampa River sites:

- Conduct removal passes for northern pike.
- Provide data on pike removed to CPW for analysis.

Other species

The goal is to reduce the number of other nonnative species from all treatment reaches in order to benefit native fishes and assist in the recovery of endangered fishes.

Objectives:

- Remove white sucker, white sucker hybrids, common carp, and other nonnative species such as green sunfish, black crappie, black bullhead, and brook stickleback. These species will be removed on all sample occasions if the effort for their removal does not

- reduce our ability to remove target species of smallmouth bass and northern pike.
- Evaluate changes in relative abundance of these species over time using catch per unit effort (CPUE).

V. Study Area:

Upper Yampa River:

Steamboat – Hayden: 24 miles: Tree Haus Bridge (RM 189.2) to CPW boat ramp at Highway 40 Bridge and Hayden Power plant intake (RM 170.6).

March-April: Adult pike sampling with raft electrofishing (timing dependent upon flows, temperatures, and access).

June-October: Young-of-year (YOY) pike sampling with seine, dipnet, backpack electrofisher, light traps, or electric seine.

Middle Yampa River:

South Beach – Deerlodge Park 90 miles:

April – July: Smallmouth bass sampling with boat electrofishing using a 10-days on and 4-days off rotation including eight consecutive sampling days and two travel days. Both northern pike and smallmouth bass are susceptible to electrofishing when they occupy shallow shoreline and flooded off-channel habitats during runoff flows. Spring runoff sampling also allows for safer navigation with large electrofishing boats. As discharge declines and water clears, young smallmouth bass become more susceptible to capture.

July- August: Age-0 bass sampling during base flow from Lily Park and the lower 12-miles of the Little Yampa Canyon reach. Removing age-0 bass only in the 12-mile treatment reach in Little Yampa Canyon maintains the Control-Treatment study design originally designated in 2004 in the native fish response evaluation by Project 140.

VI. Study Methods/Approach:

Upper Yampa River- Pike: This reach is primarily located within private property and most of the access points (boat ramps) require landowner permission. Although much of the work can occur on the water without touching land, gaining access to launch boats, take-out boats, set nets, or process fish requires landowner permission. The short section through Steamboat Springs contains several low bridges that are not navigable during higher flow events and this section has minimal northern pike habitat. For those reasons, it will be excluded from sampling if navigation is deemed unsafe or unproductive for catching northern pike. The PI will contact and seek landowner permission for bank access for the mentioned activities. CPW will provide electrofishing rafts for CSU use. We will focus primarily on sampling backwaters to reduce potential negative effects on sport fish (trout and whitefish). The reach will be sampled on at least three occasions, typically in April or May, depending on access and flows. We will remove northern pike on all sampling occasions except in years determined necessary to monitor abundance. In those years, we will complete at least two mark-recapture occasions, followed by three or more removal occasions. Abundance will be estimated using a modified Lincoln-Petersen estimator. Abundance was estimated in 2019 and we suggest it be repeated in 4 years or after significant management actions are complete. Catch per unit effort will be calculated for each pass for comparison with other reaches where pike are being removed.

We will note sex and sexual conditions of all pike captured and obtain GPS locations of confirmed or potential spawning sites. If we can obtain permission, we will return to those locations and sample with fyke, trammel, or gill nets during high flows.

Spawning locations will be confirmed by sampling for YOY later in the year. We will sample backwaters where we captured ripe fish or where there is suitable spawning habitat. Knowledge of spawning locations will direct future removal or management efforts that target removal of spawning pike in an attempt to reduce production.

Lower Yampa River:

Sampling protocol— Each year, we will remove northern pike and smallmouth bass from the middle Yampa River on multiple occasions in an attempt to reduce their number and size structure. In three of five years (FY 2021-2023), effort will also focus on monitoring of Colorado pikeminnow to support population estimation under project 128. Sampling in May and early June will be accomplished in coordination with CPW, who has committed to assist according to the specifics found in project 98a. CSU crews will maintain flexibility to react to hydrologic conditions to accomplish early season sampling in conjunction with CPW.

Fish will be captured with boat electrofishing from April through July when flow is sufficient (>1000 cfs) to navigate the river with 17-ft. aluminum, Jon-boats fitted with outboard jet motors. Both shorelines will be sampled concurrently with two electrofishing boats using ETS brand, pulsed-DC current following Standard Operating Procedures (Martinez and Kolz, 2015). Sampling will occur in a downstream direction covering about 6-10 miles per day until the entire reach is sampled.

Other sampling gear may include backpack or bank electrofisher, seine, trammel, fyke, or gill net, angling, or suction devices for young fish. A third boat will be used to process, maintain, and transport live fish as needed. We will sample each reach on multiple occasions each year with an interval of 4–10 days between occasions. In the Little Yampa Canyon reach only, smallmouth bass >100 mm TL will be marked with a numbered Floy tag and released on at least one sample occasion each year to serve as a mark for abundance estimation. On all other non-marking sample occasions, smallmouth bass will be removed from the river. For a description of the sampling protocol see Hawkins et al. (2009a).

Marked smallmouth bass that are returned to the river will be Floy tagged and released within the ½-mile section from which they were captured. Backwater and flooded tributary mouth areas will be sampled by electrofishing boat, fyke, gill, or trammel nets or block-and-shock techniques described by Nesler (1995). To determine spawning locations and timing of smallmouth bass reproduction, we will note when we observe males moving off nests and the reproductive condition of captured fish. Spawning areas will be intensively targeted for removal of nesting, spawning or nest guarding adult fish, young bass will be removed from active nests, and nest sites will be physically destroyed when possible.

Removal effort— We will complete at least three removal passes per year or more based on time

and resources.

Removal evaluation— Each year we will estimate the abundance and capture probability of smallmouth bass at Little Yampa Canyon using mark-recapture methods. We will calculate catch per unit effort (CPUE) for adult smallmouth bass for each sample occasion and obtain an average CPUE for all sample occasions each year. Removal effectiveness will be determined primarily by examining changes in annual abundance of juvenile (100-199mm TL) and adult (>200 mm TL) smallmouth bass in Little Yampa Canyon.

The Surge-Intensive sampling during smallmouth bass spawning —We will use current knowledge about smallmouth bass spawning ecology to focus and increase removal of spawning smallmouth bass. Once temperatures reach 16° C, we will increase removal efforts in areas with known or potential spawning habitat by organizing and coordinating a multi-agency effort known as “The Surge”. Our goal is to disrupt all stages of the spawning period, including pre-spawn nest building, spawning, and nest guarding. This activity has been shown to increase the catch of adult fish, disrupt the spawning event, remove guarding males from active nests, and is expected to ultimately reduce the survival of young hatchlings. Modeling shows that disrupting early season nests via the Surge is an effective means to reduce overwinter survival of young bass, thus reducing the abundance of year classes throughout the future. Removing spawning adults from nesting areas during the earlier nest building and spawning stages will create a sink in these areas for late spawners which will then be targeted for removal. Adult bass on nests are vulnerable to electrofishing gear because they are in shallow water and they have a tendency to remain and protect the nest rather than flee.

Our plan is to remove spawning fish and create a void in desirable spawning habitat so that new bass can move in and occupy those areas and be removed on subsequent sampling occasions. In that process, we will also be disrupting and decreasing the survival of eggs or young in nests. Sampling effort will be directed at river sections with concentrations of spawning bass. We will focus on the reaches between South Beach and Lower Juniper (RM 135–90), because those reaches have abundant spawning habitat.

Smallmouth bass spawning —Spawning activity begins when temperatures reach about 16–18° C (60–65° F) which in the Yampa River can range from early to late June. Hatching dates based on otolith increments support a start of spawning near 16° C but vary depending on discharge volume and timing (Bestgen and Hill 2016). Hatching dates range from two to nine days after spawning, depending on temperatures. Optimum incubation and hatching temperatures range from 19–22° C (66-72° F) and shorten hatching time. After hatching, larvae drop into the gravel nest and they eventually emerge and remain in the nest for an additional 6–15 days. Males will often remain in the area and guard the slowly dispersing young for as long as 28 days.

Removing the male from a nest (typically reported in the literature by angling) often results in large losses of eggs or larvae due to predation on the young or abandonment of the nest by the male if released back to the water.

Additional resources during The Surge— Increased removal effort requires additional people and

equipment; therefore, we (CSU) will work closely with CPW and FWS crews. During intensive spawning sampling, CPW will increase sampling in South Beach, upper and lower Maybell, and Lower Juniper and will contribute a total of six people and three boats. FWS Grand Junction FWCO will assist with intensive sampling for 2 weeks and provide three people, two electrofishing jet boats or rafts, and two trucks. FWS Green River Basin FWCO will assist for 2 weeks and provide two people and one truck. See attached budgets for FWS field station participation. CPW budget is included in the SOW for project 98a.

Effort required to complete one pass of the South Beach, Little Yampa Canyon, and lower Juniper reaches is about 7 days. But with one extra crew (in addition to the CSU crew), we can increase our sampling effort to complete all three reaches within 3-4 days. We will also allow each section to have about a 3-4-day reset period before returning to resample in order to allow spawning habitat to reset with either displaced fish or new spawners.

Prediction of spawning period—CSU will measure water temperature daily at the Maybell gage and report to CPW and FWS when temperatures are expected to reach 16⁰ C. Based on past years, this typically occurs between late-May and the end of June. Spawning generally starts during the last part of the descending hydrograph and ends when young bass leave the nest about the time runoff drops to base flow. Bass nests are active for 10-20 days depending on temperatures and we plan to sample intensively so that almost all nests, no matter when started, would be disturbed on two to five occasions. Intensive sampling should start within 5 days of temperatures reaching 16⁰ C and continue for approximately 4 weeks or until water levels decline to a point that the river is un-navigable.

Spawning habitat probably occurs in all reaches but nests are often dispersed along the river shoreline or in backwaters and can vary in density. We propose sampling through all three spawning reaches at least once to discover and document either specific locations or sections of river where spawning is concentrated. We will then target spawning concentrations or river sections with high densities of spawning habitat on future removal occasions. If time and logistics allow, we will extend some effort in other reaches where spawning could be occurring after we have confirmed that spawning is occurring in known reaches.

YOY bass removal: After spawning and during low stream discharge in July and August, we will focus on removing young (age-0 and age-1) smallmouth bass from the lower 12-mile section of the Little Yampa Canyon study site (i.e. the original treatment reach designated in 2004). This reach is part of the control-treatment design within the native fish evaluation study (Bestgen et al. 2007). Young smallmouth bass will be captured with a 10 m-long electric seine powered by a 2000-watt generator.

Other gear may include boat or backpack electrofisher, angling, seine, trap net, or cages with baited or scented attractants. We will conduct at least three separate sampling occasions, in July and August, each about 10 days long and reaches will be sampled multiple times on each occasion. We will sample primarily shallow, low-velocity shorelines associated with backwaters, embayments, or among boulders deposited from talus slopes. All native and nonnative species will be handled as they are during boat electrofishing and as specified in Table 2 unless specified

differently by the state collecting permit. Results from this sampling will be analyzed and reported under Project 140.

Fish handling — Fish captured with boat electrofishing will be placed in a live well, total length (TL) measured to the nearest mm, and weighed with a Pesola® spring scale. Northern pike will be euthanized. Smallmouth bass > 100 mm TL captured in Little Yampa Canyon will be tagged with a numbered, Floy® t-bar anchor tag (model FD-94) and released on one sampling occasion for information about abundance, growth, and movement and on all other sample occasions they will be euthanized. At all other reaches smallmouth bass will be euthanized on all sample occasions. Fish that are euthanized will be overdosed with Tricaine methanesulfonate (MS-222). Fish that are euthanized will be provided to CPW researchers, kept as voucher specimens, cataloged into the LFL fish collection, or disposed of per state collecting permit requirements. We will evaluate if we are having a removal effect on white sucker and common carp by comparing their CPUE and relative abundance.

Endangered fishes and roundtail chub will be handled per guidelines and permits of the CPW and the FWS. All Colorado pikeminnow and roundtail chub will be captured, PIT tagged per Recovery Program protocol, and their location recorded within 0.1 mile. Other native fishes will be captured, measured, and released. All trout species and channel catfish will be measured and released in the river. Other nonnative species captured that will be euthanized include northern pike, centrarchids, black bullhead, walleye, brook stickleback, common carp, white sucker, and white sucker hybrids. Any other species captured that is on the Colorado prohibited species list will be removed and euthanized. When large numbers of non-targeted, nonnative species are captured in a sample, we will reduce handling time by counting the number captured and subsampling lengths for length-frequency histograms. See Colorado's prohibited species list: <http://wildlife.state.co.us/RulesRegs/Regulations/>.

Justification for marking and releasing fish: Middle Yampa Smallmouth bass

Methods: Smallmouth bass ≥ 100 mm total length in the 24-mile Little Yampa Canyon (LYC) reach would be marked with a numbered Floy tag on one sampling occasion (pass). On all other passes, bass will be removed and euthanized. Reasons to mark bass include:

- The primary purpose is to obtain abundance (population size) data.
- We have marked smallmouth bass here since 2003 and consider it a sentinel reach because it is within the epicenter of smallmouth bass production in the Yampa River.
- It will allow us to continue monitoring the effects of changing management activities on smallmouth bass population dynamics.
- Marked fish will provide information about dispersal, movement, and growth; things that may change as the population responds to environmental or removal effects.
- Tracking abundance and immigration into LYC may help evaluate the effectiveness of the Elkhead screen. Recall that most of the bass that escaped Elkhead Reservoir moved into LYC and abundance data could help determine the effectiveness of that screen in reducing immigration and therefore abundance of smallmouth bass in LYC.
- Abundance data from mark and release studies have historically provided the best evidence of the effects of removal.

Upper Yampa northern pike

Methods: Northern pike in the upper 28-mile reach of the Yampa River from Steamboat Springs-Hayden Power Plant Intake will be removed and euthanized, except in years we are conducting an abundance estimate, and marking and releasing tagged fish on the first two sample occasions.

Reasons to mark pike include:

- The primary purpose is to obtain abundance data and secondary purpose will be to track movement.
- Since 2005, there has been a large effort by CPW to remove northern pike from the river upstream of Steamboat Springs and from Catamount Reservoir. This effort has most likely reduced the dispersal of northern pike into the study reach and an abundance estimate will determine the population change compared to 10 years ago.
- An initial abundance estimate in 2019 will provide a baseline population estimate and future estimates will help assist the success of management or removal projects in or near the reach.

VII. Task Description and Schedule:

Task 1 Oct-Jan: (Project 125/ 98c) Consolidate data collected during previous fiscal year, write annual report, assemble and submit data to Recovery Program and Colorado Collecting Permit (SciColl) databases. Summarize results for National Park Service Investigator's Annual Report. Attend coordinating meetings and workshops with other agencies and PIs including database workshop, nonnative PI coordinating meeting, and training workshops. Prepare and present results of the previous year's fieldwork at: Dinosaur River Symposium, nonnative workshops, and Researcher's Annual Meeting. (6 weeks)

Task 2 Feb-Mar: (Project 125/ 98c) Prepare equipment, train crew, assemble maps and land ownership information, coordinate with CPW regarding access. Contact landowners and obtain permission for access on private property. Hire and train field crew; purchase, prepare, and fabricate equipment. (4 weeks)

Task 3 Apr: (Project 98c) Conduct three passes for northern pike between Steamboat and Highway 40 Bridge (4 weeks).

Task 4a Apr-May: (Project 125) Early season sampling. This activity will shift to Colorado pikeminnow sampling (Project 128) for abundance estimation in FY 2021-2023, but nonnative fish removal will still occur during Project 128 passes. In 2020, focus on removal of northern pike and smallmouth bass as part of this project. Coordinate with CPW to accomplish sampling during May (4 weeks in 2020).

This task is included in SOW 128 in FY 2021-2023 because it will focus on providing data for Colorado pikeminnow population estimates.

Task 4b Jun-Jul: (Project 125) Sampling in middle Yampa River to capture and remove smallmouth bass, northern pike and other invasive nonnative species. Coordinate with CPW in early June. (8 weeks) – **This task reduced by budget cuts.**

Task 5 Jul-Aug: (Project 125) Coordinate and conduct smallmouth bass removal and spawning disruption during the spawning period. (4 weeks)

Task 6 Jun-Aug: (Project 98c) Sampling for YOY pike to confirm spawning locations. Otolith removal, preparation, and aging to determine spawning dates. (4 weeks)

Task 7 Aug: (Project 125) Capture and remove YOY and yearling smallmouth bass from treatment sites. (4 weeks)

Task 8 Sept: (Project 125/ 98c) Equipment maintenance. Data entry and analysis. Meetings, interaction, and data sharing with other biologists and researchers. (4 weeks)

Table of Task schedule, Note Task 4a for Project 128 which samples in April and May and concentrates on capturing pikeminnow for abundance estimates

Task	Project	Oct	Sep	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	125 98c	x	x	x	x	x								
2a	125 98c					x	x	x						
3	98c								x					
4a	125 128								x	x				
4b	125										x	x		
5	125											x	x	
6	98c										x	x	x	
7	125												x	
8	125 98c													x

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

FY —2020-2021

Deliverables: Project annual reports to Program Directors Office by November each year.

Budget details in attached BOR Budget projection spreadsheets for each participating agency/group.

IX. Budget Summary:

	CSU- LFL	FWS- Grand Junction	FWS- Vernal	Total
FY-2020	\$439,790	\$16,587	\$25,479	\$481,856
FY-2021	\$360,772	\$16,831	\$21,875	\$399,478
FY-2022	\$366,943	\$17,080	\$22,310	\$406,333
FY-2023	\$373,255	\$17,334	\$22,754	\$413,343
FY-2024	\$470,531	\$17,592	\$27,102	\$515,225
Totals	\$2,011,291	\$85,424	\$119,519	\$2,216,235

X. Reviewers: Tildon Jones

XI. References:

Anderson, R. 2000. Riverine fish flow investigations. Federal Aid Project F-289-R3, Colorado Division of Wildlife, Ft Collins, Colorado.

Anderson, R. 2004. Riverine fish flow investigation. Quantification of impacts of the 2002 drought on native fish populations in the Yampa and Colorado rivers. Colorado Division of Wildlife, Fort Collins, Colorado.

Bestgen, K. R., Walford, C. D, and A. A. Hill. 2007. Native fish response to removal of non-native predator fish in the Yampa River, Colorado. Final Report Upper Colorado River Basin Recovery Implementation Program Project Number 140. Larval Fish Laboratory Contribution 150. Colorado State University.

Bestgen, K. R., and A. A. Hill. 2016. River regulation affects reproduction, early growth, and suppression strategies for invasive smallmouth bass in the upper Colorado River basin. Final report submitted to the Upper Colorado River Endangered Fish Recovery Program, Denver, Colorado. Department of Fish, Wildlife, and Conservation Biology, Colorado State University, Fort Collins. Larval Fish Laboratory Contribution 187.

CPW (AKA CDOW; Colorado Division of Wildlife). 2010. Aquatic Wildlife Management Plan: Yampa River Basin, Colorado. Colorado Division of Wildlife, Aquatic Wildlife Section, Denver.

Finney, S. and B. Atkinson. 2004 Upper Yampa River Northern Pike tagging. Annual Report to the Upper Colorado River Endangered Fish Program. Denver, Colorado.
<http://www.coloradoriverrecovery.org/documents-publications/work-plan-documents/arpts/2004/nna/98c.pdf>

Finney, S. and B. Atkinson. 2005 Upper Yampa River Northern Pike tagging. Annual Report to the Upper Colorado River Endangered Fish Program. Denver, Colorado.
<http://www.coloradoriverrecovery.org/documents-publications/work-plan-documents/arpts/2005/nna/98c.pdf>

Hill, C. 2004. Dynamics of northern pike spawning and nursery habitat in the Yampa River, Colorado. Project C-31. Final report to the Upper Colorado River Endangered Fish Recovery Program, Denver, Colorado.
<http://www.colostate.edu/Dept/coopunit/pdfs/THESISFINALCHIL.pdf>

Kaeding, L R and M. A. Zimmerman. 1983. Life history and ecology of the humpback chub in the Little Colorado and Colorado rivers of the Grand Canyon. Transactions of the American Fisheries Society 112:577-594.

Karp, C.A. and H. M. Tyus 1990. Humpback chub (*Gila cypha*) in the Yampa and Green river, Dinosaur National Monument, with observations on roundtail chub (*G. robusta*) and other

sympatric species. *Great basin Naturalist* 50: 257-264.

Hawkins, J. A. and T. P. Nesler. 1991. Nonnative fishes of the Upper Colorado River Basin: an issue paper. Larval Fish Laboratory, Colorado State University, Ft. Collins, Colorado.

Hawkins, J. C. Walford, and T. Sorensen. 2005. Northern pike management studies in the Yampa River, 1999–2002. Contribution number 137 of the Larval Fish Laboratory, Colorado State University, Ft Collins.

Hawkins, J. C. Walford, and A. Hill. 2009a. Smallmouth bass control in the middle Yampa River, 2003–2007. Contribution number 154 of the Larval Fish Laboratory, Colorado State University, Ft Collins.

Hawkins, J., C. Walford, B. Wright, J. Logan. and A. Hill. 2009b. Evaluation of smallmouth bass and northern pike management in the middle Yampa River. Annual Report to the Colorado River Recovery Program. 28 pp.

Mann, R. H. K. 1980. The numbers and production of pike (*Esox lucius*) in two Dorset rivers. *Journal of Animal Ecology* 49:899-915.

Marsh, P.C. and D. R. Langhorst. 1988. Feeding and fate of wild larval razorback sucker. *Environmental Biology of Fishes* 21:59-67.

Martinez, P. J. 1995. Coldwater Reservoir Ecology. Colorado Division of Wildlife Federal Aid in Fish and Wildlife Restoration Project. # F-242R-2, Job Final Report, Ft. Collins.

Martinez, P. J. and A. L. Kolz. 2015. Standard Operating Procedure (SOP), Recommended Electrofishing Guidelines for Upper Colorado River Basin Habitats Containing Endangered Fishes. Upper Colorado River Endangered Fish Recovery Program. April 2015.

McAda, C. M. 1983. Colorado squawfish, *Ptychocheilus lucius* (Cyprinidae), with a channel catfish, *Ictalurus punctatus* (Ictaluridae), lodged in its throat. *The Southwestern Naturalist* 28:119-120.

Nesler, T. P. 1995. Interactions between endangered fishes and introduced game fishes in the Yampa River, Colorado, 1987-1991. Final Report. Colorado River Recovery Implementation Program Project number 91-29, Federal Aid Project SE-3. Colorado Division of Wildlife, Aquatic Research Section, Ft. Collins, Colorado.

Vanicek, C. D. 1967. Ecological studies of native Green River fishes below Flaming Gorge Dam, 1964-1966. PhD. Dissertation, Utah State University, Logan.

Wick, E. J., J. A. Hawkins, and C.A. Carlson. 1985. Colorado squawfish and humpback chub population and habitat monitoring, 1981-1982. *Endangered Wildlife Investigations*, Colorado Division of Wildlife, Denver, CO.

White, G. C., D. A. Anderson, K. P. Burnham, and D. L. Otis. 1982. Capture-recapture and removal methods for sampling closed populations. Los Alamos National Laboratory, LA-8787-NERP, Los Alamos, New Mexico.

SUMMARY OF DIRECT LABOR & FRINGE

Enter Escalation Rates ----->	Yr 2 Escalation Rate	2.00%
2020	2021	

	Task # or Description	Position Title	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	Biologist	\$ 38.28	259.5	\$ 38.28	\$ 9,933.00	28.20%	\$ 2,801.00	259.5	\$ 39.04	\$ 10,132.00	28.20%	\$ 2,857.00
2	1	Biologist	\$ 18.76	259.5	\$ 18.76	\$ 4,869.00	28.20%	\$ 1,373.00	259.5	\$ 19.14	\$ 4,967.00	28.20%	\$ 1,401.00
3	1	Biologist	\$ 16.73	259.5	\$ 16.73	\$ 4,341.00	28.20%	\$ 1,224.00	259.5	\$ 17.06	\$ 4,428.00	28.20%	\$ 1,249.00
4	2	Biologist	\$ 26.65	173.0	\$ 26.65	\$ 4,611.00	28.20%	\$ 1,300.00	173.0	\$ 27.19	\$ 4,703.00	28.20%	\$ 1,326.00
5	2	Biologist	\$ 18.76	173.0	\$ 18.76	\$ 3,246.00	28.20%	\$ 915.00	173.0	\$ 19.14	\$ 3,311.00	28.20%	\$ 934.00
6	2	Biologist	\$ 16.73	173.0	\$ 16.73	\$ 2,894.00	28.20%	\$ 816.00	173.0	\$ 17.06	\$ 2,952.00	28.20%	\$ 832.00
7	2	Biologist	\$ 16.73	173.0	\$ 16.73	\$ 2,894.00	28.20%	\$ 816.00	173.0	\$ 17.06	\$ 2,952.00	28.20%	\$ 832.00
8	3	Biologist	\$ 38.28	173.0	\$ 38.28	\$ 6,622.00	28.20%	\$ 1,867.00	173.0	\$ 39.04	\$ 6,755.00	28.20%	\$ 1,905.00
9	3	Biologist	\$ 22.05	173.0	\$ 22.05	\$ 3,815.00	28.20%	\$ 1,076.00	173.0	\$ 22.49	\$ 3,891.00	28.20%	\$ 1,097.00
10	3	Biologist	\$ 19.54	173.0	\$ 19.54	\$ 3,381.00	28.20%	\$ 953.00	173.0	\$ 19.93	\$ 3,449.00	28.20%	\$ 973.00
11	3	Biologist	\$ 19.54	173.0	\$ 19.54	\$ 3,381.00	28.20%	\$ 953.00	173.0	\$ 19.93	\$ 3,449.00	28.20%	\$ 973.00
12	4a	Biologist	\$ 26.65	259.5	\$ 26.65	\$ 6,917.00	28.20%	\$ 1,951.00		\$ 27.19	\$ -	28.20%	\$ -
13	4a	Biologist	\$ 19.67	259.5	\$ 19.67	\$ 5,105.00	28.20%	\$ 1,440.00		\$ 20.07	\$ -	28.20%	\$ -
14	4a	Biologist	\$ 19.67	259.5	\$ 19.67	\$ 5,105.00	28.20%	\$ 1,440.00		\$ 20.07	\$ -	28.20%	\$ -
15	4a	Biologist	\$ 38.28	86.5	\$ 38.28	\$ 3,311.00	28.20%	\$ 934.00		\$ 39.04	\$ -	28.20%	\$ -
16	4a	Biologist	\$ 22.05	259.5	\$ 22.05	\$ 5,721.00	28.20%	\$ 1,613.00		\$ 22.49	\$ -	28.20%	\$ -
17	4a	Technician	\$ 18.16	259.5	\$ 18.16	\$ 4,713.00	28.20%	\$ 1,329.00		\$ 18.53	\$ -	28.20%	\$ -
18	4a	Technician	\$ 18.16	259.5	\$ 18.16	\$ 4,713.00	28.20%	\$ 1,329.00		\$ 18.53	\$ -	28.20%	\$ -
19	4a	Technician	\$ 18.16	86.5	\$ 18.16	\$ 1,571.00	28.20%	\$ 443.00		\$ 18.53	\$ -	28.20%	\$ -
20	4a	Technician	\$ 18.16	86.5	\$ 18.16	\$ 1,571.00	28.20%	\$ 443.00		\$ 18.53	\$ -	28.20%	\$ -
21	4b	Biologist	\$ 26.65	346.0	\$ 26.65	\$ 9,222.00	28.20%	\$ 2,601.00	346.0	\$ 27.19	\$ 9,407.00	28.20%	\$ 2,653.00
22	4b	Biologist	\$ 19.54	346.0	\$ 19.54	\$ 6,762.00	28.20%	\$ 1,907.00	346.0	\$ 19.93	\$ 6,897.00	28.20%	\$ 1,945.00
23	4b	Biologist	\$ 19.54	346.0	\$ 19.54	\$ 6,762.00	28.20%	\$ 1,907.00	346.0	\$ 19.93	\$ 6,897.00	28.20%	\$ 1,945.00
24	4b	Biologist	\$ 38.28	259.5	\$ 38.28	\$ 9,933.00	28.20%	\$ 2,801.00	259.5	\$ 39.04	\$ 10,132.00	28.20%	\$ 2,857.00
25	4b	Biologist	\$ 22.05	346.0	\$ 22.05	\$ 7,629.00	28.20%	\$ 2,151.00	346.0	\$ 22.49	\$ 7,781.00	28.20%	\$ 2,194.00
26	4b	Technician	\$ 18.16	346.0	\$ 18.16	\$ 6,285.00	28.20%	\$ 1,772.00	346.0	\$ 18.53	\$ 6,410.00	28.20%	\$ 1,808.00
27	4b	Technician	\$ 18.16	346.0	\$ 18.16	\$ 6,285.00	28.20%	\$ 1,772.00	346.0	\$ 18.53	\$ 6,410.00	28.20%	\$ 1,808.00
28	4b	Technician	\$ 18.16	346.0	\$ 18.16	\$ 6,285.00	28.20%	\$ 1,772.00	346.0	\$ 18.53	\$ 6,410.00	28.20%	\$ 1,808.00
29	4b	Technician	\$ 18.16	-	\$ 18.16	\$ -	28.20%	\$ -	-	\$ 18.53	\$ -	28.20%	\$ -
30	5	Biologist	\$ 26.65	173.0	\$ 26.65	\$ 4,611.00	28.20%	\$ 1,300.00	173.0	\$ 27.19	\$ 4,703.00	28.20%	\$ 1,326.00
31	5	Biologist	\$ 19.54	173.0	\$ 19.54	\$ 3,381.00	28.20%	\$ 953.00	173.0	\$ 19.93	\$ 3,449.00	28.20%	\$ 973.00
32	5	Biologist	\$ 19.54	173.0	\$ 19.54	\$ 3,381.00	28.20%	\$ 953.00	173.0	\$ 19.93	\$ 3,449.00	28.20%	\$ 973.00
33	5	Biologist	\$ 22.05	173.0	\$ 22.05	\$ 3,814.00	28.20%	\$ 1,076.00	173.0	\$ 22.49	\$ 3,891.00	28.20%	\$ 1,097.00
34	5	Technician	\$ 18.16	173.0	\$ 18.16	\$ 3,142.00	28.20%	\$ 886.00	173.0	\$ 18.53	\$ 3,205.00	28.20%	\$ 904.00
35	5	Technician	\$ 18.16	173.0	\$ 18.16	\$ 3,142.00	28.20%	\$ 886.00	173.0	\$ 18.53	\$ 3,205.00	28.20%	\$ 904.00
36	5	Technician	\$ 18.16	173.0	\$ 18.16	\$ 3,142.00	28.20%	\$ 886.00	173.0	\$ 18.53	\$ 3,205.00	28.20%	\$ 904.00
37	5	Technician	\$ 18.16	173.0	\$ 18.16	\$ 3,142.00	28.20%	\$ 886.00	173.0	\$ 18.53	\$ 3,205.00	28.20%	\$ 904.00
38	6	Biologist	\$ 38.28	86.5	\$ 38.28	\$ 3,311.00	28.20%	\$ 934.00	86.5	\$ 39.04	\$ 3,377.00	28.20%	\$ 952.00
39	6	Technician	\$ 18.16	173.0	\$ 18.16	\$ 3,142.00	28.20%	\$ 886.00	173.0	\$ 18.53	\$ 3,205.00	28.20%	\$ 904.00
40	6	Technician	\$ 18.16	173.0	\$ 18.16	\$ 3,142.00	28.20%	\$ 886.00	173.0	\$ 18.53	\$ 3,205.00	28.20%	\$ 904.00
41	6	Biologist	\$ 15.48	374.0	\$ 15.48	\$ 5,788.00	28.20%	\$ 1,632.00	374.0	\$ 15.79	\$ 5,904.00	28.20%	\$ 1,665.00
42	7	Biologist	\$ 26.65	173.0	\$ 26.65	\$ 4,611.00	28.20%	\$ 1,300.00	173.0	\$ 27.19	\$ 4,703.00	28.20%	\$ 1,326.00
43	7	Biologist	\$ 19.54	173.0	\$ 19.54	\$ 3,381.00	28.20%	\$ 953.00	173.0	\$ 19.93	\$ 3,449.00	28.20%	\$ 973.00
44	7	Biologist	\$ 19.54	173.0	\$ 19.54	\$ 3,381.00	28.20%	\$ 953.00	173.0	\$ 19.93	\$ 3,449.00	28.20%	\$ 973.00
45	7	Technician	\$ 18.16	173.0	\$ 18.16	\$ 3,142.00	28.20%	\$ 886.00	173.0	\$ 18.53	\$ 3,205.00	28.20%	\$ 904.00
46	7	Technician	\$ 18.16	173.0	\$ 18.16	\$ 3,142.00	28.20%	\$ 886.00	173.0	\$ 18.53	\$ 3,205.00	28.20%	\$ 904.00
47	8	Biologist	\$ 38.28	173.0	\$ 38.28	\$ 6,622.00	28.20%	\$ 1,867.00	173.0	\$ 39.04	\$ 6,755.00	28.20%	\$ 1,905.00
48	8	Biologist	\$ 18.76	173.0	\$ 18.76	\$ 3,246.00	28.20%	\$ 915.00	173.0	\$ 19.14	\$ 3,311.00	28.20%	\$ 934.00

SUMMARY OF DIRECT LABOR & FRINGE

49	8	Technician	\$ 18.16	173.0	\$ 18.16	\$ 3,142.00	28.20%	\$ 886.00	173.0	\$ 18.53	\$ 3,205.00	28.20%	\$ 904.00
50	8	Technician	\$ 18.16	173.6	\$ 18.16	\$ 3,153.00	28.20%	\$ 889.00	172.9	\$ 18.53	\$ 3,202.00	28.20%	\$ 903.00
51			\$ -	-	\$ -	\$ -		\$ -	-	\$ -	\$ -		\$ -
52			\$ -	-	\$ -	\$ -		\$ -	-	\$ -	\$ -		\$ -
53			\$ -	-	\$ -	\$ -		\$ -	-	\$ -	\$ -		\$ -
54			\$ -	-	\$ -	\$ -		\$ -	-	\$ -	\$ -		\$ -
55			\$ -	-	\$ -	\$ -		\$ -	-	\$ -	\$ -		\$ -
56			\$ -	-	\$ -	\$ -		\$ -	-	\$ -	\$ -		\$ -
57			\$ -	-	\$ -	\$ -		\$ -	-	\$ -	\$ -		\$ -
58			\$ -	-	\$ -	\$ -		\$ -	-	\$ -	\$ -		\$ -
				10,408.60		\$ 224,835.00		\$ 63,398.00	8,591.35		\$ 189,820.00		\$ 53,533.00

SUMMARY OF DIRECT LA

Yr 3 Escalation Rate	2.00%
2022	

Yr 4 Escalation Rate	2.00%
2023	

				YEAR 3					YEAR 4				
				10/1/2021		Through		9/30/2022	10/1/2022		Through		9/30/2023
	Task # or Description	Position Title	Current Hourly Rate	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost
1	1	Biologist	\$ 38.28	259.5	\$ 39.83	\$ 10,335.00	28.20%	\$ 2,914.00	259.5	\$ 40.62	\$ 10,541.00	28.20%	\$ 2,973.00
2	1	Biologist	\$ 18.76	259.5	\$ 19.52	\$ 5,066.00	28.20%	\$ 1,429.00	259.5	\$ 19.91	\$ 5,167.00	28.20%	\$ 1,457.00
3	1	Biologist	\$ 16.73	259.5	\$ 17.40	\$ 4,516.00	28.20%	\$ 1,274.00	259.5	\$ 17.75	\$ 4,607.00	28.20%	\$ 1,299.00
4	2	Biologist	\$ 26.65	173.0	\$ 27.73	\$ 4,797.00	28.20%	\$ 1,353.00	173.0	\$ 28.29	\$ 4,893.00	28.20%	\$ 1,380.00
5	2	Biologist	\$ 18.76	173.0	\$ 19.52	\$ 3,377.00	28.20%	\$ 952.00	173.0	\$ 19.91	\$ 3,445.00	28.20%	\$ 971.00
6	2	Biologist	\$ 16.73	173.0	\$ 17.40	\$ 3,011.00	28.20%	\$ 849.00	173.0	\$ 17.75	\$ 3,071.00	28.20%	\$ 866.00
7	2	Biologist	\$ 16.73	173.0	\$ 17.40	\$ 3,011.00	28.20%	\$ 849.00	173.0	\$ 17.75	\$ 3,071.00	28.20%	\$ 866.00
8	3	Biologist	\$ 38.28	173.0	\$ 39.83	\$ 6,890.00	28.20%	\$ 1,943.00	173.0	\$ 40.62	\$ 7,028.00	28.20%	\$ 1,982.00
9	3	Biologist	\$ 22.05	173.0	\$ 22.94	\$ 3,969.00	28.20%	\$ 1,119.00	173.0	\$ 23.40	\$ 4,049.00	28.20%	\$ 1,142.00
10	3	Biologist	\$ 19.54	173.0	\$ 20.33	\$ 3,517.00	28.20%	\$ 992.00	173.0	\$ 20.74	\$ 3,588.00	28.20%	\$ 1,012.00
11	3	Biologist	\$ 19.54	173.0	\$ 20.33	\$ 3,517.00	28.20%	\$ 992.00	173.0	\$ 20.74	\$ 3,588.00	28.20%	\$ 1,012.00
12	4a	Biologist	\$ 26.65		\$ 27.73	\$ -	28.20%	\$ -	-	\$ 28.29	\$ -	28.20%	\$ -
13	4a	Biologist	\$ 19.67		\$ 20.47	\$ -	28.20%	\$ -	-	\$ 20.88	\$ -	28.20%	\$ -
14	4a	Biologist	\$ 19.67		\$ 20.47	\$ -	28.20%	\$ -	-	\$ 20.88	\$ -	28.20%	\$ -
15	4a	Biologist	\$ 38.28		\$ 39.83	\$ -	28.20%	\$ -	-	\$ 40.62	\$ -	28.20%	\$ -
16	4a	Biologist	\$ 22.05		\$ 22.94	\$ -	28.20%	\$ -	-	\$ 23.40	\$ -	28.20%	\$ -
17	4a	Technician	\$ 18.16		\$ 18.90	\$ -	28.20%	\$ -	-	\$ 19.28	\$ -	28.20%	\$ -
18	4a	Technician	\$ 18.16		\$ 18.90	\$ -	28.20%	\$ -	-	\$ 19.28	\$ -	28.20%	\$ -
19	4a	Technician	\$ 18.16		\$ 18.90	\$ -	28.20%	\$ -	-	\$ 19.28	\$ -	28.20%	\$ -
20	4a	Technician	\$ 18.16		\$ 18.90	\$ -	28.20%	\$ -	-	\$ 19.28	\$ -	28.20%	\$ -
21	4b	Biologist	\$ 26.65	346.0	\$ 27.73	\$ 9,595.00	28.20%	\$ 2,706.00	346.0	\$ 28.29	\$ 9,787.00	28.20%	\$ 2,760.00
22	4b	Biologist	\$ 19.54	346.0	\$ 20.33	\$ 7,035.00	28.20%	\$ 1,984.00	346.0	\$ 20.74	\$ 7,176.00	28.20%	\$ 2,024.00
23	4b	Biologist	\$ 19.54	346.0	\$ 20.33	\$ 7,035.00	28.20%	\$ 1,984.00	346.0	\$ 20.74	\$ 7,176.00	28.20%	\$ 2,024.00
24	4b	Biologist	\$ 38.28	259.5	\$ 39.83	\$ 10,335.00	28.20%	\$ 2,914.00	259.5	\$ 40.62	\$ 10,541.00	28.20%	\$ 2,973.00
25	4b	Biologist	\$ 22.05	346.0	\$ 22.94	\$ 7,937.00	28.20%	\$ 2,238.00	346.0	\$ 23.40	\$ 8,095.00	28.20%	\$ 2,283.00
26	4b	Technician	\$ 18.16	346.0	\$ 18.90	\$ 6,538.00	28.20%	\$ 1,844.00	346.0	\$ 19.28	\$ 6,669.00	28.20%	\$ 1,881.00
27	4b	Technician	\$ 18.16	346.0	\$ 18.90	\$ 6,538.00	28.20%	\$ 1,844.00	346.0	\$ 19.28	\$ 6,669.00	28.20%	\$ 1,881.00
28	4b	Technician	\$ 18.16	346.0	\$ 18.90	\$ 6,538.00	28.20%	\$ 1,844.00	346.0	\$ 19.28	\$ 6,669.00	28.20%	\$ 1,881.00
29	4b	Technician	\$ 18.16	-	\$ 18.90	\$ -	28.20%	\$ -	-	\$ 19.28	\$ -	28.20%	\$ -
30	5	Biologist	\$ 26.65	173.0	\$ 27.73	\$ 4,797.00	28.20%	\$ 1,353.00	173.0	\$ 28.29	\$ 4,893.00	28.20%	\$ 1,380.00
31	5	Biologist	\$ 19.54	173.0	\$ 20.33	\$ 3,517.00	28.20%	\$ 992.00	173.0	\$ 20.74	\$ 3,588.00	28.20%	\$ 1,012.00
32	5	Biologist	\$ 19.54	173.0	\$ 20.33	\$ 3,517.00	28.20%	\$ 992.00	173.0	\$ 20.74	\$ 3,588.00	28.20%	\$ 1,012.00
33	5	Biologist	\$ 22.05	173.0	\$ 22.94	\$ 3,968.00	28.20%	\$ 1,119.00	173.0	\$ 23.40	\$ 4,048.00	28.20%	\$ 1,142.00
34	5	Technician	\$ 18.16	173.0	\$ 18.90	\$ 3,269.00	28.20%	\$ 922.00	173.0	\$ 19.28	\$ 3,335.00	28.20%	\$ 940.00
35	5	Technician	\$ 18.16	173.0	\$ 18.90	\$ 3,269.00	28.20%	\$ 922.00	173.0	\$ 19.28	\$ 3,335.00	28.20%	\$ 940.00
36	5	Technician	\$ 18.16	173.0	\$ 18.90	\$ 3,269.00	28.20%	\$ 922.00	173.0	\$ 19.28	\$ 3,335.00	28.20%	\$ 940.00
37	5	Technician	\$ 18.16	173.0	\$ 18.90	\$ 3,269.00	28.20%	\$ 922.00	173.0	\$ 19.28	\$ 3,335.00	28.20%	\$ 940.00
38	6	Biologist	\$ 38.28	86.5	\$ 39.83	\$ 3,445.00	28.20%	\$ 971.00	86.5	\$ 40.62	\$ 3,514.00	28.20%	\$ 991.00
39	6	Technician	\$ 18.16	173.0	\$ 18.90	\$ 3,269.00	28.20%	\$ 922.00	173.0	\$ 19.28	\$ 3,335.00	28.20%	\$ 940.00
40	6	Technician	\$ 18.16	173.0	\$ 18.90	\$ 3,269.00	28.20%	\$ 922.00	173.0	\$ 19.28	\$ 3,335.00	28.20%	\$ 940.00
41	6	Biologist	\$ 15.48	374.0	\$ 16.10	\$ 6,022.00	28.20%	\$ 1,698.00	374.0	\$ 16.42	\$ 6,142.00	28.20%	\$ 1,732.00
42	7	Biologist	\$ 26.65	173.0	\$ 27.73	\$ 4,797.00	28.20%	\$ 1,353.00	173.0	\$ 28.29	\$ 4,893.00	28.20%	\$ 1,380.00
43	7	Biologist	\$ 19.54	173.0	\$ 20.33	\$ 3,517.00	28.20%	\$ 992.00	173.0	\$ 20.74	\$ 3,588.00	28.20%	\$ 1,012.00
44	7	Biologist	\$ 19.54	173.0	\$ 20.33	\$ 3,517.00	28.20%	\$ 992.00	173.0	\$ 20.74	\$ 3,588.00	28.20%	\$ 1,012.00
45	7	Technician	\$ 18.16	173.0	\$ 18.90	\$ 3,269.00	28.20%	\$ 922.00	173.0	\$ 19.28	\$ 3,335.00	28.20%	\$ 940.00
46	7	Technician	\$ 18.16	173.0	\$ 18.90	\$ 3,269.00	28.20%	\$ 922.00	173.0	\$ 19.28	\$ 3,335.00	28.20%	\$ 940.00
47	8	Biologist	\$ 38.28	173.0	\$ 39.83	\$ 6,890.00	28.20%	\$ 1,943.00	173.0	\$ 40.62	\$ 7,028.00	28.20%	\$ 1,982.00
48	8	Biologist	\$ 18.76	173.0	\$ 19.52	\$ 3,377.00	28.20%	\$ 952.00	173.0	\$ 19.91	\$ 3,445.00	28.20%	\$ 971.00

SUMMARY OF DIRECT LA

49	8	Technician	\$ 18.16	173.0	\$ 18.90	\$ 3,269.00	28.20%	\$ 922.00	173.0	\$ 19.28	\$ 3,335.00	28.20%	\$ 940.00
50	8	Technician	\$ 18.16	173.3	\$ 18.90	\$ 3,275.00	28.20%	\$ 924.00	173.1	\$ 19.28	\$ 3,337.00	28.20%	\$ 941.00
51			\$ -	-	\$ -	\$ -	28.20%	\$ -	-	\$ -	\$ -	28.20%	\$ -
52			\$ -	-	\$ -	\$ -	28.20%	\$ -	-	\$ -	\$ -	28.20%	\$ -
53			\$ -	-	\$ -	\$ -	28.20%	\$ -	-	\$ -	\$ -	28.20%	\$ -
54			\$ -	-	\$ -	\$ -	28.20%	\$ -	-	\$ -	\$ -	28.20%	\$ -
55			\$ -	-	\$ -	\$ -	28.20%	\$ -	-	\$ -	\$ -	28.20%	\$ -
56			\$ -	-	\$ -	\$ -	28.20%	\$ -	-	\$ -	\$ -	28.20%	\$ -
57			\$ -	-	\$ -	\$ -	28.20%	\$ -	-	\$ -	\$ -	28.20%	\$ -
58			\$ -	-	\$ -	\$ -	28.20%	\$ -	-	\$ -	\$ -	28.20%	\$ -
				8,591.80		\$ 193,617.00		\$ 54,603.00	8,591.60		\$ 197,497.00		\$ 55,694.00

SUMMARY OF DIRECT LA

Yr 5 Escalation Rate	2.00%
2024	

		YEAR 5									
		10/1/2023		Through		9/29/2024					
Task # or Position	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	Biologist	\$ 38.28	259.5	\$ 41.43	\$ 10,752.00	28.20%	\$ 3,032.00	\$ 51,693.00	\$ 14,577.00	\$ 66,270.00
2	1	Biologist	\$ 18.76	259.5	\$ 20.31	\$ 5,271.00	28.20%	\$ 1,486.00	\$ 25,340.00	\$ 7,146.00	\$ 32,486.00
3	1	Biologist	\$ 16.73	259.5	\$ 18.11	\$ 4,699.00	28.20%	\$ 1,325.00	\$ 22,591.00	\$ 6,371.00	\$ 28,962.00
4	2	Biologist	\$ 26.65	173.0	\$ 28.85	\$ 4,991.00	28.20%	\$ 1,407.00	\$ 23,995.00	\$ 6,766.00	\$ 30,761.00
5	2	Biologist	\$ 18.76	173.0	\$ 20.31	\$ 3,514.00	28.20%	\$ 991.00	\$ 16,893.00	\$ 4,763.00	\$ 21,656.00
6	2	Biologist	\$ 16.73	173.0	\$ 18.11	\$ 3,133.00	28.20%	\$ 884.00	\$ 15,061.00	\$ 4,247.00	\$ 19,308.00
7	2	Biologist	\$ 16.73	173.0	\$ 18.11	\$ 3,133.00	28.20%	\$ 884.00	\$ 15,061.00	\$ 4,247.00	\$ 19,308.00
8	3	Biologist	\$ 38.28	173.0	\$ 41.43	\$ 7,168.00	28.20%	\$ 2,021.00	\$ 34,463.00	\$ 9,718.00	\$ 44,181.00
9	3	Biologist	\$ 22.05	173.0	\$ 23.87	\$ 4,130.00	28.20%	\$ 1,165.00	\$ 19,854.00	\$ 5,599.00	\$ 25,453.00
10	3	Biologist	\$ 19.54	173.0	\$ 21.15	\$ 3,660.00	28.20%	\$ 1,032.00	\$ 17,595.00	\$ 4,962.00	\$ 22,557.00
11	3	Biologist	\$ 19.54	173.0	\$ 21.15	\$ 3,660.00	28.20%	\$ 1,032.00	\$ 17,595.00	\$ 4,962.00	\$ 22,557.00
12	4a	Biologist	\$ 26.65	259.5	\$ 28.85	\$ 7,487.00	28.20%	\$ 2,111.00	\$ 14,404.00	\$ 4,062.00	\$ 18,466.00
13	4a	Biologist	\$ 19.67	259.5	\$ 21.29	\$ 5,526.00	28.20%	\$ 1,558.00	\$ 10,631.00	\$ 2,998.00	\$ 13,629.00
14	4a	Biologist	\$ 19.67	259.5	\$ 21.29	\$ 5,526.00	28.20%	\$ 1,558.00	\$ 10,631.00	\$ 2,998.00	\$ 13,629.00
15	4a	Biologist	\$ 38.28	86.5	\$ 41.43	\$ 3,584.00	28.20%	\$ 1,011.00	\$ 6,895.00	\$ 1,945.00	\$ 8,840.00
16	4a	Biologist	\$ 22.05	259.5	\$ 23.87	\$ 6,193.00	28.20%	\$ 1,746.00	\$ 11,914.00	\$ 3,359.00	\$ 15,273.00
17	4a	Technician	\$ 18.16	259.5	\$ 19.66	\$ 5,102.00	28.20%	\$ 1,439.00	\$ 9,815.00	\$ 2,768.00	\$ 12,583.00
18	4a	Technician	\$ 18.16	259.5	\$ 19.66	\$ 5,102.00	28.20%	\$ 1,439.00	\$ 9,815.00	\$ 2,768.00	\$ 12,583.00
19	4a	Technician	\$ 18.16	86.5	\$ 19.66	\$ 1,701.00	28.20%	\$ 480.00	\$ 3,272.00	\$ 923.00	\$ 4,195.00
20	4a	Technician	\$ 18.16	86.5	\$ 19.66	\$ 1,701.00	28.20%	\$ 480.00	\$ 3,272.00	\$ 923.00	\$ 4,195.00
21	4b	Biologist	\$ 26.65	346.0	\$ 28.85	\$ 9,983.00	28.20%	\$ 2,815.00	\$ 47,994.00	\$ 13,535.00	\$ 61,529.00
22	4b	Biologist	\$ 19.54	346.0	\$ 21.15	\$ 7,319.00	28.20%	\$ 2,064.00	\$ 35,189.00	\$ 9,924.00	\$ 45,113.00
23	4b	Biologist	\$ 19.54	346.0	\$ 21.15	\$ 7,319.00	28.20%	\$ 2,064.00	\$ 35,189.00	\$ 9,924.00	\$ 45,113.00
24	4b	Biologist	\$ 38.28	259.5	\$ 41.43	\$ 10,752.00	28.20%	\$ 3,032.00	\$ 51,693.00	\$ 14,577.00	\$ 66,270.00
25	4b	Biologist	\$ 22.05	346.0	\$ 23.87	\$ 8,257.00	28.20%	\$ 2,328.00	\$ 39,699.00	\$ 11,194.00	\$ 50,893.00
26	4b	Technician	\$ 18.16	346.0	\$ 19.66	\$ 6,803.00	28.20%	\$ 1,918.00	\$ 32,705.00	\$ 9,223.00	\$ 41,928.00
27	4b	Technician	\$ 18.16	346.0	\$ 19.66	\$ 6,803.00	28.20%	\$ 1,918.00	\$ 32,705.00	\$ 9,223.00	\$ 41,928.00
28	4b	Technician	\$ 18.16	346.0	\$ 19.66	\$ 6,803.00	28.20%	\$ 1,918.00	\$ 32,705.00	\$ 9,223.00	\$ 41,928.00
29	4b	Technician	\$ 18.16	-	\$ 19.66	\$ -	28.20%	\$ -	\$ -	\$ -	\$ -
30	5	Biologist	\$ 26.65	173.0	\$ 28.85	\$ 4,991.00	28.20%	\$ 1,407.00	\$ 23,995.00	\$ 6,766.00	\$ 30,761.00
31	5	Biologist	\$ 19.54	173.0	\$ 21.15	\$ 3,660.00	28.20%	\$ 1,032.00	\$ 17,595.00	\$ 4,962.00	\$ 22,557.00
32	5	Biologist	\$ 19.54	173.0	\$ 21.15	\$ 3,660.00	28.20%	\$ 1,032.00	\$ 17,595.00	\$ 4,962.00	\$ 22,557.00
33	5	Biologist	\$ 22.05	173.0	\$ 23.87	\$ 4,129.00	28.20%	\$ 1,164.00	\$ 19,850.00	\$ 5,598.00	\$ 25,448.00
34	5	Technician	\$ 18.16	173.0	\$ 19.66	\$ 3,401.00	28.20%	\$ 959.00	\$ 16,352.00	\$ 4,611.00	\$ 20,963.00
35	5	Technician	\$ 18.16	173.0	\$ 19.66	\$ 3,401.00	28.20%	\$ 959.00	\$ 16,352.00	\$ 4,611.00	\$ 20,963.00
36	5	Technician	\$ 18.16	173.0	\$ 19.66	\$ 3,401.00	28.20%	\$ 959.00	\$ 16,352.00	\$ 4,611.00	\$ 20,963.00
37	5	Technician	\$ 18.16	173.0	\$ 19.66	\$ 3,401.00	28.20%	\$ 959.00	\$ 16,352.00	\$ 4,611.00	\$ 20,963.00
38	6	Biologist	\$ 38.28	86.5	\$ 41.43	\$ 3,584.00	28.20%	\$ 1,011.00	\$ 17,231.00	\$ 4,859.00	\$ 22,090.00
39	6	Technician	\$ 18.16	173.0	\$ 19.66	\$ 3,401.00	28.20%	\$ 959.00	\$ 16,352.00	\$ 4,611.00	\$ 20,963.00
40	6	Technician	\$ 18.16	173.0	\$ 19.66	\$ 3,401.00	28.20%	\$ 959.00	\$ 16,352.00	\$ 4,611.00	\$ 20,963.00
41	6	Biologist	\$ 15.48	374.0	\$ 16.75	\$ 6,265.00	28.20%	\$ 1,767.00	\$ 30,121.00	\$ 8,494.00	\$ 38,615.00
42	7	Biologist	\$ 26.65	173.0	\$ 28.85	\$ 4,991.00	28.20%	\$ 1,407.00	\$ 23,995.00	\$ 6,766.00	\$ 30,761.00
43	7	Biologist	\$ 19.54	173.0	\$ 21.15	\$ 3,660.00	28.20%	\$ 1,032.00	\$ 17,595.00	\$ 4,962.00	\$ 22,557.00
44	7	Biologist	\$ 19.54	173.0	\$ 21.15	\$ 3,660.00	28.20%	\$ 1,032.00	\$ 17,595.00	\$ 4,962.00	\$ 22,557.00
45	7	Technician	\$ 18.16	173.0	\$ 19.66	\$ 3,401.00	28.20%	\$ 959.00	\$ 16,352.00	\$ 4,611.00	\$ 20,963.00
46	7	Technician	\$ 18.16	173.0	\$ 19.66	\$ 3,401.00	28.20%	\$ 959.00	\$ 16,352.00	\$ 4,611.00	\$ 20,963.00
47	8	Biologist	\$ 38.28	173.0	\$ 41.43	\$ 7,168.00	28.20%	\$ 2,021.00	\$ 34,463.00	\$ 9,718.00	\$ 44,181.00
48	8	Biologist	\$ 18.76	173.0	\$ 20.31	\$ 3,514.00	28.20%	\$ 991.00	\$ 16,893.00	\$ 4,763.00	\$ 21,656.00

SUMMARY OF DIRECT L₁

49	8	Technician	\$	18.16		173.0	\$	19.66	\$	3,401.00	28.20%	\$	959.00	\$	16,352.00	\$	4,611.00	\$	20,963.00
50	8	Technician	\$	18.16		173.6	\$	19.66	\$	3,413.00	28.20%	\$	962.00	\$	16,380.00	\$	4,619.00	\$	20,999.00
51			\$	-		-	\$	-	\$	-	28.20%	\$	-	\$	-	\$	-	\$	-
52			\$	-		-	\$	-	\$	-	28.20%	\$	-	\$	-	\$	-	\$	-
53			\$	-		-	\$	-	\$	-	28.20%	\$	-	\$	-	\$	-	\$	-
54			\$	-		-	\$	-	\$	-	28.20%	\$	-	\$	-	\$	-	\$	-
55			\$	-		-	\$	-	\$	-	28.20%	\$	-	\$	-	\$	-	\$	-
56			\$	-		-	\$	-	\$	-	28.20%	\$	-	\$	-	\$	-	\$	-
57			\$	-		-	\$	-	\$	-	28.20%	\$	-	\$	-	\$	-	\$	-
58			\$	-		-	\$	-	\$	-	28.20%	\$	-	\$	-	\$	-	\$	-
						10,408.60				243,376.00			68,627.00		1,049,145.00		295,855.00		1,345,000.00

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES, AND SERVICES

Yr 2 Escalation Rate

2020

2021

	Task	Item Description	Rationale for Proposed Cost	Year 1			Year 2	
				Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity
1	2	SERVICE-Annual boat Motor service	\$500 /boat X 5 boats- Based on previous experience & SOWs funded through BOR contract R14AP00001	\$ 550.00	5	\$ 2,750.00	\$ 561.00	5
2	2	SERVICE-Repair and maintenance- (welding, rigging, & repair) of field equipment-cost based on past experience.	Costs for annual maintenance of generators and electrofishing equipment and repair of broken equipment based on previous experience & SOWs funded through BOR contract R14AP00001.	\$ 2,300.00	1	\$ 2,300.00	\$ 2,346.00	1
4	3	SUPPLIES-Electrofishing generator gas	\$3/gal x 2 gal/day x 5 days/trip x 4 trips- Based on previous experience & SOWs funded through BOR contract R14AP00001	\$ 3.00	40	\$ 120.00	\$ 3.06	40
5	3	SUPPLIES-Electrofishing Raft maintenance/repair	Based on average expences for past 2 years of SOWs funded through BOR contract R14AP00001	\$ 1,150.00	1	\$ 1,150.00	\$ 1,173.00	1
7	4a	SUPPLIES-Electrofishing boat gas	\$3/gal. x 4 boats x 15gal./day x 8 day/trip x 4 trips- Based on previous experience & SOWs funded through BOR contract R14AP00001	\$ 3.00	1920	\$ 5,760.00	\$ 3.06	0
8	4a	SUPPLIES-Electrofishing boat motor 2-stroke oil	\$35/gal x 4 gal/boat/trip x 4 boats x 4 trips-Based on previous experience & SOWs funded through BOR contract R14AP00001	\$ 35.00	0	\$ -	\$ 35.70	0
9	4a	SUPPLIES-Field supplies: sampling nets, boots, waders, electrical safety gloves, tools, tune-up parts for generators, electrical connectors for safe electrofishing operation.	Based on previous experience & SOWs funded through BOR contract R14AP00001	\$ 3,800.00	1	\$ 3,800.00	\$ 3,876.00	0
10	4a	SERVICE- GPS Personal Locator Beacons and monthly service charge for emergency communication in remote areas: equipment and monthly service fees.	Based on previous experience & SOWs funded through BOR contract R14AP00001	\$ 600.00	1	\$ 600.00	\$ 612.00	0
12	4b	SUPPLIES-Electrofishing boat gas	\$3/gal. x 4 boats x 15gal./day x 8 day/trip x 5 trips- Based on previous experience & SOWs funded through BOR contract R14AP00001	\$ 3.00	2400	\$ 7,200.00	\$ 3.06	2400
13	4b	SUPPLIES-Field supplies: sampling nets, boots, waders, electrical safety gloves, tools, tune-up parts for generators, electrical connectors for safe electrofishing operation.	Based on previous experience & SOWs funded through BOR contract R14AP00001	\$ 4,200.00	1	\$ 4,200.00	\$ 4,284.00	1
14	4b	SUPPLIES-Electrofishing boat motor 2-stroke oil	\$35/gal x 4 gal/boat/trip x 4 boats x 5 trips-Based on previous experience & SOWs funded through BOR contract R14AP00001	\$ 35.00	0	\$ -	\$ 35.70	0

SUMMARY OF MATERIALS AND SUPPLIES

15				\$ -	0	\$ -	\$ -	0
17	4b	SERVICE-wireless broadband HotSpot modem for work-related email and internet access in the field	Based on previous experience & SOWs funded through BOR contract R14AP00001	\$ 234.00	1	\$ 234.00	\$ 238.68	1
18	6	SUPPLIES-Electrofishing safety gloves, batteries and lab supplies for otolith extraction.	Based on previous experience & SOWs funded through BOR contract R14AP00001	\$ 360.00	1	\$ 360.00	\$ 367.20	1
20	7	SUPPLIES-Field supplies: Electric seine repair and maintenance parts-replace connectors to maintain safe	Based on previous experience & SOWs funded through BOR contract R14AP00001	\$ 550.00	1	\$ 550.00	\$ 561.00	1
21	8	SUPPLIES-Computer upgrades-hardware and software for field data loggers.	Based on previous experience & SOWs funded through BOR contract R14AP00001	\$ 404.00	1	\$ 404.00	\$ 404.00	1
23				\$ -	0	\$ -	\$ -	0
24				\$ -	0	\$ -	\$ -	0
26				\$ -	0	\$ -	\$ -	0
27				\$ -	0	\$ -	\$ -	0
29				\$ -	0	\$ -	\$ -	0
30				\$ -	0	\$ -	\$ -	0
32				\$ -	0	\$ -	\$ -	0
33				\$ -	0	\$ -	\$ -	0
35				\$ -	0	\$ -	\$ -	0
TOTAL:						\$ 29,428.00		

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIAL			2.00%	Yr 3 Escalation Rate	2.00%	Yr 4 Escalation Rate	2.00%		
			2022			2023			
			Year 3			Year 4			
Task	Item Description	Subtotal	Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal	
1	2	SERVICE-Annual boat Motor service	\$ 2,805.00	\$ 572.22	5	\$ 2,861.10	\$ 583.66	5	\$ 2,918.32
2	2	SERVICE-Repair and maintenance- (welding, rigging, & repair) of field equipment-cost based on past experience.	\$ 2,346.00	\$ 2,392.92	1	\$ 2,392.92	\$ 2,440.78	1	\$ 2,440.78
4	3	SUPPLIES-Electrofishing generator gas	\$ 122.40	\$ 3.12	40	\$ 124.85	\$ 3.18	40	\$ 127.34
5	3	SUPPLIES-Electrofishing Raft maintenance/repair	\$ 1,173.00	\$ 1,196.46	1	\$ 1,196.46	\$ 1,220.39	1	\$ 1,220.39
7	4a	SUPPLIES-Electrofishing boat gas	\$ -	\$ 3.12	0	\$ -	\$ 3.18	0	\$ -
8	4a	SUPPLIES-Electrofishing boat motor 2- stroke oil	\$ -	\$ 36.41	0	\$ -	\$ 35.00	0	\$ -
9	4a	SUPPLIES-Field supplies: sampling nets, boots, waders, electrical safety gloves, tools, tune-up parts for generators, electrical connectors for safe electrofishing operation.	\$ -	\$ 3,953.52	0	\$ -	\$ 4,032.59	0	\$ -
10	4a	SERVICE- GPS Personal Locator Beacons and monthly service charge for emergency communication in remote areas: equipment and monthly service fees.	\$ -	\$ 624.24	0	\$ -	\$ 636.72	0	\$ -
12	4b	SUPPLIES-Electrofishing boat gas	\$ 7,344.00	\$ 3.12	2400	\$ 7,490.88	\$ 3.18	2400	\$ 7,640.70
13	4b	SUPPLIES-Field supplies: sampling nets, boots, waders, electrical safety gloves, tools, tune-up parts for generators, electrical connectors for safe electrofishing operation.	\$ 4,284.00	\$ 4,369.68	1	\$ 4,369.68	\$ 4,457.07	1	\$ 4,457.07
14	4b	SUPPLIES-Electrofishing boat motor 2- stroke oil	\$ -	\$ 36.41	0	\$ -	\$ 37.14	0	\$ -

SUMMARY OF MATERIALS AND SUPPLIES

15			\$ -	\$ -	0	\$ -	\$ -	0	\$ -
17	4b	SERVICE-wireless broadband HotSpot modem for work-related email and internet access in the field	\$ 238.68	\$ 243.45	1	\$ 243.45	\$ 248.32	1	\$ 248.32
18	6	SUPPLIES-Electrofishing safety gloves, batteries and lab supplies for otolith extraction.	\$ 367.20	\$ 374.54	1	\$ 374.54	\$ 382.03	1	\$ 382.03
20	7	SUPPLIES-Field supplies: Electric seine repair and maintenance parts-replace connectors to maintain safe	\$ 561.00	\$ 572.22	1	\$ 572.22	\$ 583.66	1	\$ 583.66
21	8	SUPPLIES-Computer upgrades-hardware and software for field data loggers.	\$ 404.00	\$ 404.00	1	\$ 404.00	\$ 412.08	1	\$ 412.08
23			\$ -	\$ -	0	\$ -	\$ -	0	\$ -
24			\$ -	\$ -	0	\$ -	\$ -	0	\$ -
26			\$ -	\$ -	0	\$ -	\$ -	0	\$ -
27			\$ -	\$ -	0	\$ -	\$ -	0	\$ -
29			\$ -	\$ -	0	\$ -	\$ -	0	\$ -
30			\$ -	\$ -	0	\$ -	\$ -	0	\$ -
32			\$ -	\$ -	0	\$ -	\$ -	0	\$ -
33			\$ -	\$ -	0	\$ -	\$ -	0	\$ -
35			\$ -	\$ -	0	\$ -	\$ -	0	\$ -
			\$ 19,645.00			\$ 20,030.00			\$ 20,431.00

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIAL			Yr 5 Escalation Rate			
			2.00%			
			2024			
			Year 5			
Task	Item Description	Unit Price	Unit Quantity	Subtotal	TOTAL	
1	2	SERVICE-Annual boat Motor service	\$ 595.34	5	\$ 2,976.69	\$ 14,311.11
2	2	SERVICE-Repair and maintenance- (welding, rigging, & repair) of field equipment-cost based on past experience.	\$ 2,489.59	1	\$ 2,489.59	\$ 11,969.29
4	3	SUPPLIES-Electrofishing generator gas	\$ 3.25	40	\$ 129.89	\$ 624.48
5	3	SUPPLIES-Electrofishing Raft maintenance/repair	\$ 1,244.80	1	\$ 1,244.80	\$ 5,984.65
7	4a	SUPPLIES-Electrofishing boat gas	\$ 3.25	1920	\$ 6,234.81	\$ 11,994.81
8	4a	SUPPLIES-Electrofishing boat motor 2-stroke oil	\$ 35.00	0	\$ -	\$ -
9	4a	SUPPLIES-Field supplies: sampling nets, boots, waders, electrical safety gloves, tools, tune-up parts for generators, electrical connectors for safe electrofishing operation.	\$ 4,113.24	1	\$ 4,113.24	\$ 7,913.24
10	4a	SERVICE- GPS Personal Locator Beacons and monthly service charge for emergency communication in remote areas: equipment and monthly service fees.	\$ 649.46	1	\$ 649.46	\$ 1,249.46
12	4b	SUPPLIES-Electrofishing boat gas	\$ 3.25	2400	\$ 7,793.51	\$ 37,469.09
13	4b	SUPPLIES-Field supplies: sampling nets, boots, waders, electrical safety gloves, tools, tune-up parts for generators, electrical connectors for safe electrofishing operation.	\$ 4,546.22	1	\$ 4,546.22	\$ 21,856.97
14	4b	SUPPLIES-Electrofishing boat motor 2-stroke oil	\$ 37.89	0	\$ -	\$ -

SUMMARY OF MATERIALS AND SUPPLIES

15			\$ -	0	\$ -	\$ -
17	4b	SERVICE-wireless broadband HotSpot modem for work-related email and internet access in the field	\$ 253.29	1	\$ 253.29	\$ 1,217.74
18	6	SUPPLIES-Electrofishing safety gloves, batteries and lab supplies for otolith extraction.	\$ 389.68	1	\$ 389.68	\$ 1,873.45
20	7	SUPPLIES-Field supplies: Electric seine repair and maintenance parts-replace connectors to maintain safe	\$ 595.34	1	\$ 595.34	\$ 2,862.22
21	8	SUPPLIES-Computer upgrades-hardware and software for field data loggers.	\$ 404.00	1	\$ 404.00	\$ 2,028.08
23			\$ -	0	\$ -	\$ -
24			\$ -	0	\$ -	\$ -
26			\$ -	0	\$ -	\$ -
27			\$ -	0	\$ -	\$ -
29			\$ -	0	\$ -	\$ -
30			\$ -	0	\$ -	\$ -
32			\$ -	0	\$ -	\$ -
33			\$ -	0	\$ -	\$ -
35			\$ -	0	\$ -	\$ -
					\$ 31,820.52	\$ 121,354.52

SUMMARY OF TRAVEL COSTS

2020

2021

2022

2023

2024

Task 1	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
Trip #	1	1	1	1	1	
From-To	Fort Collins to Grand Junction	Fort Collins to Grand Junction	Fort Collins to Grand Junction	Fort Collins to Grand Junction	Fort Collins to Grand Junction	
Reason	BC & UCRIP Meetings	BC & Research Meeting	BC & Research Meeting	BC & Research Meeting	BC & Research Meeting	
# of Days (include travel days)	4	4	4	4	4	
Airfare	\$ -					
Lodging (Per Night)	\$ 88.00	\$ 88.00	\$ 88.00	\$ 88.00	\$ 88.00	
MI&E Per Day	\$ 55.00	\$ 55.00	\$ 55.00	\$ 55.00	\$ 55.00	
Auto Rental Per Day	\$ -					
Misc Costs/Adjustments/Trip	\$ -					
Total Per Trip	\$ 456.50	\$ 456.50	\$ 456.50	\$ 456.50	\$ 456.50	
No. of persons	2	2	2	2	2	
Mileage rate	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	
Total miles Per Trip	617	617	617	617	617	
Number of Trips	3	3	3	3	3	
SUBTOTAL =	\$ 3,665.00	\$ 3,665.00	\$ 3,665.00	\$ 3,665.00	\$ 3,665.00	\$ 18,325.00

Task 2	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
Trip #	2	2	2	2	2	
From-To	Fort Collins-Craig, CO	Fort Collins-Craig, CO	Fort Collins-Craig, CO	Fort Collins-Craig, CO	Fort Collins-Craig, CO	
Reason	Coordinate with landowners	Coordinate with landowners	Coordinate with landowners	Coordinate with landowners	Coordinate with landowners	
# of Days (include travel days)	5	5	5	5	5	
Airfare						
Lodging (Per Night)	\$ 78.00	\$ 78.00	\$ 78.00	\$ 78.00	\$ 78.00	
MI&E Per Day	\$ 55.00	\$ 55.00	\$ 55.00	\$ 55.00	\$ 55.00	
Auto Rental Per Day						
Misc Costs/Adjustments/Trip						
Total Per Trip	\$ 559.50	\$ 559.50	\$ 559.50	\$ 559.50	\$ 559.50	
No. of persons	2	2	2	2	2	
Mileage rate	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	
Total miles Per Trip	419	419	419	419	419	
Number of Trips	1	1	1	1	1	
SUBTOTAL =	\$ 1,329.00	\$ 1,329.00	\$ 1,329.00	\$ 1,329.00	\$ 1,329.00	\$ 6,645.00

Task 3	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
Trip #	3	3	3	3	3	
From-To	Fort Collins-Hayden, CO	Fort Collins-Hayden, CO	Fort Collins-Hayden, CO	Fort Collins-Hayden, CO	Fort Collins-Hayden, CO	
Reason	Pike Removal	Pike Removal	Pike Removal	Pike Removal	Pike Removal	
# of Days (include travel days)	5	5	5	5	5	
Airfare						
Lodging (Per Night)						
MI&E Per Day	\$ 55.00	\$ 55.00	\$ 55.00	\$ 55.00	\$ 55.00	
Auto Rental Per Day						
Misc Costs/Adjustments/Trip						
Total Per Trip	\$ 247.50	\$ 247.50	\$ 247.50	\$ 247.50	\$ 247.50	
No. of persons	4	4	4	4	4	
Mileage rate	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	
Total miles Per Trip	567	567	567	567	567	
Number of Trips	4	4	4	4	4	
SUBTOTAL =	\$ 5,094.00	\$ 5,094.00	\$ 5,094.00	\$ 5,094.00	\$ 5,094.00	\$ 25,470.00

Task4a	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
Trip #	4	4	4	4	4	
From-To	Ft Collins-Craig, CO	Ft Collins-Craig, CO	Ft Collins-Craig, CO	Ft Collins-Craig, CO	Ft Collins-Craig, CO	
Reason	Nonnative fish removal	Nonnative fish removal	Nonnative fish removal	Nonnative fish removal	Nonnative fish removal	
# of Days (include travel days)	10				10	
Airfare						
Lodging (Per Night)	\$ 7.41				\$ 7.41	
MI&E Per Day	\$ 20				\$ 20	
Auto Rental Per Day						
Misc Costs/Adjustments/Trip						
Total Per Trip	\$ 256.67	\$ -	\$ -	\$ -	\$ 256.67	
No. of persons	7				7	
Mileage rate	\$ 0.50				\$ 0.50	
Total miles Per Trip	2,700				2,700	
Number of Trips	4				4	
SUBTOTAL =	\$ 12,586.00	\$ -	\$ -	\$ -	\$ 12,586.00	\$ 25,172.00

Task 4b total	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
Trip #	5	5	5	5	5	
From-To	Ft Collins-Craig, CO	Ft Collins-Craig, CO	Ft Collins-Craig, CO	Ft Collins-Craig, CO	Ft Collins-Craig, CO	
Reason	Nonnative fish removal	Nonnative fish removal	Nonnative fish removal	Nonnative fish removal	Nonnative fish removal	
# of Days (include travel days)	10	10	10	10	10	
Airfare						
Lodging (Per Night)	\$ 5.93	\$ 5.93	\$ 5.93	\$ 5.93	\$ 5.93	
MI&E Per Day	\$ 20.00	\$ 20.00	\$ 20.00	\$ 20.00	\$ 20.00	
Auto Rental Per Day						
Total Per Trip	\$ 243.33	\$ 243.33	\$ 243.33	\$ 243.33	\$ 243.33	
No. of persons	7	7	7	7	7	
Mileage rate	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	
Total miles Per Trip	2,680	2,680	2,680	2,680	2,680	
Number of Trips	5	5	5	5	5	
SUBTOTAL =	\$ 15,217.00	\$ 15,217.00	\$ 15,217.00	\$ 15,217.00	\$ 15,217.00	\$ 76,085.00

Task 5 total	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
Trip #	6	6	6	6	6	
From-To	Ft Collins-Craig, CO	Ft Collins-Craig, CO	Ft Collins-Craig, CO	Ft Collins-Craig, CO	Ft Collins-Craig, CO	
Reason	Nonnative fish removal	Nonnative fish removal	Nonnative fish removal	Nonnative fish removal	Nonnative fish removal	
# of Days (include travel days)	10	10	10	10	10	
Airfare						
Lodging (Per Night)	\$ 9.52	\$ 9.52	\$ 9.52	\$ 9.52	\$ 9.52	
MI&E Per Day	\$ 20.00	\$ 20.00	\$ 20.00	\$ 20.00	\$ 20.00	
Auto Rental Per Day						
Misc Costs/Adjustments/Trip						
Total Per Trip	\$ 275.71	\$ 275.71	\$ 275.71	\$ 275.71	\$ 275.71	
No. of persons	7	7	7	7	7	
Mileage rate	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	
Total miles Per Trip	2,127	2,127	2,127	2,127	2,127	
Number of Trips	2	2	2	2	2	
SUBTOTAL =	\$ 5,987.00	\$ 5,987.00	\$ 5,987.00	\$ 5,987.00	\$ 5,987.00	\$ 29,935.00

Task 6 total	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
Trip #	7	7	7	7	7	
From-To	Craig-Hayden	Craig-Hayden	Craig-Hayden	Craig-Hayden	Craig-Hayden	
Reason	Collect Young Pike	Collect Young Pike	Collect Young Pike	Collect Young Pike	Collect Young Pike	
# of Days (include travel days)	4	4	4	4	4	
Airfare						
Lodging (Per Night)						
MI&E Per Day	\$ 20.00	\$ 20.00	\$ 20.00	\$ 20.00	\$ 20.00	
Auto Rental Per Day						
Misc Costs/Adjustments/Trip						
Total Per Trip	\$ 70.00	\$ 70.00	\$ 70.00	\$ 70.00	\$ 70.00	
No. of persons	2	2	2	2	2	
Mileage rate	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	
Total miles Per Trip	452	452	452	452	452	
Number of Trips	4	4	4	4	4	
SUBTOTAL =	\$ 1,463.00	\$ 1,463.00	\$ 1,463.00	\$ 1,463.00	\$ 1,463.00	\$ 7,315.00

Task 7 total	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
Trip #	8	8	8	8	8	
From-To	Ft Collins-Craig, CO	Ft Collins-Craig, CO	Ft Collins-Craig, CO	Ft Collins-Craig, CO	Ft Collins-Craig, CO	
Reason	Young Nonnative fish removal	Young Nonnative fish removal	Young Nonnative fish removal	Young Nonnative fish removal	Young Nonnative fish removal	
# of Days (include travel days)	10	10	10	10	10	
Airfare						
Lodging (Per Night)	\$ 13.33	\$ 13.33	\$ 13.33	\$ 13.33	\$ 13.33	
MI&E Per Day	\$ 20.00	\$ 20.00	\$ 20.00	\$ 20.00	\$ 20.00	
Auto Rental Per Day						
Misc Costs/Adjustments/Trip						
Total Per Trip	\$ 310.00	\$ 310.00	\$ 310.00	\$ 310.00	\$ 310.00	
No. of persons	5	5	5	5	5	
Mileage rate	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	
Total miles Per Trip	1,487	1,487	1,487	1,487	1,487	
Number of Trips	2	2	2	2	2	
SUBTOTAL =	\$ 4,587.00	\$ 4,587.00	\$ 4,587.00	\$ 4,587.00	\$ 4,587.00	\$ 22,935.00

SUMMARY OF EQUIPMENT COSTS

SUMMARY OF EQUIPMENT

Enter Escalation Rates ----->
2020

Yr 2 Escalation Rate
2021

0.00%

Yr 3 Escalation Rate
2022

0.00%

	Task #	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						\$ -	\$ -	0	\$ -	\$ -	0	\$ -
2	3	ETS MBS-1D boat or backpack electrofisher in 2020-2023	See Sheet labeled "Equip-Cost ETS Catalog" for Manufacturer price list and highlighted item.	\$ 6,700.00	1	\$ 6,700.00	\$ 6,700.00	1	\$ 6,700.00	\$ 6,700.00	1	\$ 6,700.00
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	\$ -
TOTAL:						\$ 6,700.00			\$ 6,700.00			\$ 6,700.00

SUMMARY OF EQUIPMENT COSTS

SUMMARY O	Yr 4 Escalation Rate	0.00%	Yr 5 Escalation Rate	0.00%
	2023		2024	

	Task #	Item Description	Year 4			Year 5			TOTAL	
			Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal		
1			\$ -	0	\$ -	\$ -	0	\$ -	\$ -	
2	3	ETS MBS-1D boat or backpack electrofisher in 2020-2023	\$ 6,700.00	1	\$ 6,700.00	\$ 6,700.00	1	\$ 6,700.00	\$ 33,500.00	
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	\$ -	\$ -	
					\$ 6,700.00				\$ 6,700.00	\$ 33,500.00

SUMMARY OF PROPOSED COSTS

Name of Servicing Agency:	U.S.F.W.S. Grand Junction Fish and Wildlife Conservation Office
Project Name:	125, Remove spawning adult smallmouth bass from the middle Yampa 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	9/30/2022	10/1/2023	9/30/2024	10/1/2022	9/30/2023	10/1/2023	9/29/2024	
	Through	Through	Through	Through	Through	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	9/30/2024	9/30/2023	9/30/2024	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	\$ 6,306.40	\$ 6,432.53	\$ 6,561.18	\$ 6,692.40	\$ 6,826.25	\$ 32,818.76					
Fringe Benefits - Hourly	\$ 3,279.04	\$ 3,344.62	\$ 3,411.51	\$ 3,479.74	\$ 3,549.33	\$ 17,064.23					
Subtotal of Direct Labor & Fringe Benefits:	\$ 9,585.44	\$ 9,777.14	\$ 9,972.69	\$ 10,172.14	\$ 10,375.58	\$ 49,882.99					
OTHER DIRECT COSTS:	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL					
Materials and Supplies	\$ 2,609.00	\$ 2,661.18	\$ 2,714.40	\$ 2,768.69	\$ 2,824.06	\$ 13,577.33					
Travel Costs	\$ 4,392.75	\$ 4,392.75	\$ 4,392.75	\$ 4,392.75	\$ 4,392.75	\$ 21,963.75					
Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -					
Contractors	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -					
Subtotal of Other Direct Costs:	\$ 7,001.75	\$ 7,053.93	\$ 7,107.15	\$ 7,161.44	\$ 7,216.81	\$ 35,541.08					
INDIRECT/OVERHEAD COSTS:	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL					
Subtotal of Labor and Other Direct Costs:	\$ 16,587.19	\$ 16,831.07	\$ 17,079.84	\$ 17,333.58	\$ 17,592.39	\$ 85,424.07					
Total dollars exempt from indirect/overhead base:											
U.S.F.W.S Overhead Rate	3.00%	\$ 497.62	3.00%	\$ 504.93	3.00%	\$ 512.40	3.00%	\$ 520.01	3.00%	\$ 527.77	\$ 2,562.72
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:	\$ 497.62	\$ 504.93	\$ 512.40	\$ 520.01	\$ 527.77	\$ 2,562.72					
GRAND TOTAL:	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL					
	\$ 17,084.80	\$ 17,336.01	\$ 17,592.23	\$ 17,853.59	\$ 18,120.17	\$ 87,986.79					

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Enter Escalation Rates ----->	Yr 2 Escalation Rate	2.00%
-------------------------------	----------------------	-------

TASK # or Descrip	Federal Employee Name	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		Fish Biologist	11	8	Rest of US	\$ 36.18	40.0	\$ 36.18	\$ 1,447.20	51.50%	\$ 745.31	40.0	\$ 36.90	\$ 1,476.14	51.50%	\$ 760.21
2		Bio Technician (Crew	7	5	Rest of US	\$ 22.46	40.0	\$ 22.46	\$ 898.40	65.00%	\$ 583.96	40.0	\$ 22.91	\$ 916.37	65.00%	\$ 595.64
3		Bio Technician (Crew	6	4	Rest of US	\$ 19.62	80.0	\$ 19.62	\$ 1,569.60	49.80%	\$ 781.66	80.0	\$ 20.01	\$ 1,600.99	49.80%	\$ 797.29
4		Bio Technician	5	1	Rest of US	\$ 16.00	80.0	\$ 16.00	\$ 1,280.00	45.60%	\$ 583.68	80.0	\$ 16.32	\$ 1,305.60	45.60%	\$ 595.35
5	Overtime	Bio Technician (Crew	7	5	Rest of US	\$ 33.69	10.0	\$ 33.69	\$ 336.90	65.00%	\$ 218.99	10.0	\$ 34.36	\$ 343.64	65.00%	\$ 223.36
6	Overtime	Bio Technician (Crew	6	4	Rest of US	\$ 29.43	10.0	\$ 29.43	\$ 294.30	49.80%	\$ 146.56	10.0	\$ 30.02	\$ 300.19	49.80%	\$ 149.49
7	Overtime	Bio Technician	5	1	Rest of US	\$ 24.00	20.0	\$ 24.00	\$ 480.00	45.60%	\$ 218.88	20.0	\$ 24.48	\$ 489.60	45.60%	\$ 223.26
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						\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	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%	\$ -
							280.00		\$ 6,306.40		\$ 3,279.04	280.00		\$ 6,432.53		\$ 3,344.62

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Yr 3 Escalation Rate 2.00%

Yr 4 Escalation Rate 2.00%

Task # or Descrip	Federal Employee Name	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	11	8	Rest of US	\$ 36.18	40.0	\$ 37.64	\$ 1,505.67	51.50%	\$ 775.42	40.0	\$ 38.39	\$ 1,535.78	51.50%	\$ 790.93
2		Bio Technician (Crew)	7	5	Rest of US	\$ 22.46	40.0	\$ 23.37	\$ 934.70	65.00%	\$ 607.55	40.0	\$ 23.83	\$ 953.39	65.00%	\$ 619.70
3		Bio Technician (Crew)	6	4	Rest of US	\$ 19.62	80.0	\$ 20.41	\$ 1,633.01	49.80%	\$ 813.24	80.0	\$ 20.82	\$ 1,665.67	49.80%	\$ 829.50
4		Bio Technician	5	1	Rest of US	\$ 16.00	80.0	\$ 16.65	\$ 1,331.71	45.60%	\$ 607.26	80.0	\$ 16.98	\$ 1,358.35	45.60%	\$ 619.41
5	Overtime	Bio Technician (Crew)	7	5	Rest of US	\$ 33.69	10.0	\$ 35.05	\$ 350.51	65.00%	\$ 227.83	10.0	\$ 35.75	\$ 357.52	65.00%	\$ 232.39
6	Overtime	Bio Technician (Crew)	6	4	Rest of US	\$ 29.43	10.0	\$ 30.62	\$ 306.19	49.80%	\$ 152.48	10.0	\$ 31.23	\$ 312.31	49.80%	\$ 155.53
7	Overtime	Bio Technician	5	1	Rest of US	\$ 24.00	20.0	\$ 24.97	\$ 499.39	45.60%	\$ 227.72	20.0	\$ 25.47	\$ 509.38	45.60%	\$ 232.28
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						\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	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%	\$ -
							280.00		\$ 6,561.18		\$ 3,411.51	280.00		\$ 6,692.40		\$ 3,479.74

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Yr 5 Escalation Rate	2.00%
----------------------	-------

								YEAR 5							
								10/1/2023		Through	9/29/2024				
Task # or Descrip	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		Fish Biologist	11	8	Rest of US	\$ 36.18	40.0	\$ 39.16	\$ 1,566.50	51.50%	\$ 806.75	\$ 7,531.29	\$ 3,878.61	\$ 11,409.90	
2		Bio Technician (Crew)	7	5	Rest of US	\$ 22.46	40.0	\$ 24.31	\$ 972.46	65.00%	\$ 632.10	\$ 4,675.31	\$ 3,038.95	\$ 7,714.26	
3		Bio Technician (Crew)	6	4	Rest of US	\$ 19.62	80.0	\$ 21.24	\$ 1,698.99	49.80%	\$ 846.09	\$ 8,168.26	\$ 4,067.79	\$ 12,236.06	
4		Bio Technician	5	1	Rest of US	\$ 16.00	80.0	\$ 17.32	\$ 1,385.51	45.60%	\$ 631.79	\$ 6,661.17	\$ 3,037.49	\$ 9,698.67	
5	Overtime	Bio Technician (Crew)	7	5	Rest of US	\$ 33.69	10.0	\$ 36.47	\$ 364.67	65.00%	\$ 237.04	\$ 1,753.24	\$ 1,139.61	\$ 2,892.85	
6	Overtime	Bio Technician (Crew)	6	4	Rest of US	\$ 29.43	10.0	\$ 31.86	\$ 318.56	49.80%	\$ 158.64	\$ 1,531.55	\$ 762.71	\$ 2,294.26	
7	Overtime	Bio Technician	5	1	Rest of US	\$ 24.00	20.0	\$ 25.98	\$ 519.57	45.60%	\$ 236.92	\$ 2,497.94	\$ 1,139.06	\$ 3,637.00	
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						\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	
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%	\$ -	\$ -	\$ -	\$ -	
							280.00		\$ 6,826.25		\$ 3,549.33	\$ 32,818.76	\$ 17,064.23	\$ 49,882.99	

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES, AND SERVICES

Yr 2 Escalation Rate	2.00%
----------------------	-------

	Task	Item Description	Rationale for Proposed Cost	Year 1			Year 2		
				Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal
1		Miscellaneous Field Supplies	Refer to previous agreement number R17PG	\$ 100.00	1	\$ 100.00	\$ 102.00	1	\$ 102.00
2		Miscellaneous Boating Supplies, Repairs, Maintenance	Refer to previous agreement number R17PG	\$ 100.00	1	\$ 100.00	\$ 102.00	1	\$ 102.00
3		Boat Gas 91 Octane	Refer to previous agreement number R17PG	\$ 3.00	400	\$ 1,200.00	\$ 3.06	400	\$ 1,224.00
4		GSA Lease of Equip Code 6359 (monthly lease)	http://www.gsa.gov/portal/category/21852	\$ 453.00	1	\$ 453.00	\$ 462.06	1	\$ 462.06
5		GSA Lease of Equip Code 6359 (monthly lease)	http://www.gsa.gov/portal/category/21852	\$ 0.42	1800	\$ 756.00	\$ 0.43	1800	\$ 771.12
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	\$ -
TOTAL:						\$ 2,609.00			\$ 2,661.18

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES	Yr 3 Escalation Rate	2.00%	Yr 4 Escalation Rate	2.00%
---------------------------------------	----------------------	-------	----------------------	-------

	Task	Item Description	Year 3			Year 4			
			Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal	
1		Miscellaneous Field Supplies	\$ 104.04	1	\$ 104.04	\$ 106.12	1	\$ 106.12	
2		Miscellaneous Boating Supplies, Repairs, Maintenance	\$ 104.04	1	\$ 104.04	\$ 106.12	1	\$ 106.12	
3		Boat Gas 91 Octane	\$ 3.12	400	\$ 1,248.48	\$ 3.18	400	\$ 1,273.45	
4		GSA Lease of Equip Code 6359 (monthly lease)	\$ 471.30	1	\$ 471.30	\$ 480.73	1	\$ 480.73	
5		GSA Lease of Equip Code 6359 (monthly lease)	\$ 0.44	1800	\$ 786.54	\$ 0.45	1800	\$ 802.27	
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	\$ -	
					\$ 2,714.40				\$ 2,768.69

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES	Yr 5 Escalation Rate	2.00%
---------------------------------------	----------------------	-------

	Task	Item Description	Year 5			TOTAL
			Unit Price	Unit Quantity	Subtotal	
1		Miscellaneous Field Supplies	\$ 108.24	1	\$ 108.24	\$ 520.40
2		Miscellaneous Boating Supplies, Repairs, Maintenance	\$ 108.24	1	\$ 108.24	\$ 520.40
3		Boat Gas 91 Octane	\$ 3.25	400	\$ 1,298.92	\$ 6,244.85
4		GSA Lease of Equip Code 6359 (monthly lease)	\$ 490.34	1	\$ 490.34	\$ 2,357.43
5		GSA Lease of Equip Code 6359 (monthly lease)	\$ 0.45	1800	\$ 818.32	\$ 3,934.25
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	\$ -	\$ -
22			\$ -	0	\$ -	\$ -
23			\$ -	0	\$ -	\$ -
24			\$ -	0	\$ -	\$ -
25			\$ -	0	\$ -	\$ -
26			\$ -	0	\$ -	\$ -
27			\$ -	0	\$ -	\$ -
28			\$ -	0	\$ -	\$ -
29			\$ -	0	\$ -	\$ -
30			\$ -	0	\$ -	\$ -
					\$ 2,824.06	\$ 13,577.33

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	Grand Junction to Craig	Grand Junction to Craig	Grand Junction to Craig	Grand Junction to Craig	Grand Junction to Craig	
Reason	Hotel/Field Work	Hotel/Field Work	Hotel/Field Work	Hotel/Field Work	Hotel/Field Work	
# of Days (include travel days)	5	5	5	5	5	
Airfare	\$ -	\$ -	\$ -	\$ -	\$ -	
Lodging (Per Night)	\$ 94.00	\$ 94.00	\$ 94.00	\$ 94.00	\$ 94.00	
MI&E Per Day	\$ 58.25	\$ 58.25	\$ 58.25	\$ 58.25	\$ 58.25	
Auto Rental Per Day	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Per Trip	\$ 732.13	\$ 732.13	\$ 732.13	\$ 732.13	\$ 732.13	
No. of persons	3	3	3	3	3	
No. of trips	2	2	2	2	2	
SUBTOTAL =	\$ 4,392.75	\$ 4,392.75	\$ 4,392.75	\$ 4,392.75	\$ 4,392.75	\$ 21,963.75

SUMMARY OF PROPOSED COSTS

Name of Servicing Agency:	US Fish & Wildlife Service Green River Basin FWCO
Project Name:	Recovery Program Project 125: Middle Yampa smallmouth bass and northern pike removal

	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
	10/1/2019		9/30/2020		10/1/2021		10/1/2022		10/1/2023		
	Through		Through		Through		Through		Through		
	Enter the BEGINNING dates for each year ----->		Enter the ENDING dates for each year ----->		Enter the BEGINNING 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	\$ 14,883.26		\$ 12,512.45		\$ 12,762.70		\$ 13,017.96		\$ 16,110.12		\$ 69,286.49
Fringe Benefits - Hourly	\$ 5,539.45		\$ 4,647.74		\$ 4,740.70		\$ 4,835.51		\$ 5,996.08		\$ 25,759.49
Subtotal of Direct Labor & Fringe Benefits:	\$ 20,422.71		\$ 17,160.20		\$ 17,503.40		\$ 17,853.47		\$ 22,106.20		\$ 95,045.98
OTHER DIRECT COSTS:	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
Materials and Supplies	\$ 1,954.88		\$ 1,553.34		\$ 1,584.40		\$ 1,616.09		\$ 1,648.43		\$ 8,357.14
Travel Costs	\$ 3,101.50		\$ 3,161.17		\$ 3,222.03		\$ 3,284.11		\$ 3,347.44		\$ 16,116.25
Equipment	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Contractors	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Subtotal of Other Direct Costs:	\$ 5,056.38		\$ 4,714.51		\$ 4,806.43		\$ 4,900.20		\$ 4,995.87		\$ 24,473.39
INDIRECT/OVERHEAD COSTS:	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
Subtotal of Labor and Other Direct Costs:	\$ 25,479.09		\$ 21,874.71		\$ 22,309.84		\$ 22,753.67		\$ 27,102.07		\$ 119,519.38
Total dollars exempt from indirect/overhead base:	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
<Enter Description of Indirect/OH Cost #1>	3.00%	\$ 764.37	3.00%	\$ 656.24	3.00%	\$ 669.30	3.00%	\$ 682.61	3.00%	\$ 813.06	\$ 3,585.58
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:	\$ 764.37		\$ 656.24		\$ 669.30		\$ 682.61		\$ 813.06		\$ 3,585.58
	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
GRAND TOTAL:	\$ 26,243.46		\$ 22,530.95		\$ 22,979.13		\$ 23,436.29		\$ 27,915.13		\$ 123,104.96

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Enter Escalation Rates ----->	Yr 2 Escalation Rate	2.00%
-------------------------------	----------------------	-------

Task # or Descr	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	5	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	5	Fish Biologist	GS 11	3	Rest of United	\$ 31.81	120.0	\$ 31.81	\$ 3,817.20	35.00%	\$ 1,336.02	80.0	\$ 32.45	\$ 2,595.70	35.00%	\$ 908.49
3	5	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	5	Small Craft Operator	WG 5	1	Rest of United	\$ 17.78	40.0	\$ 17.78	\$ 711.20	23.78%	\$ 169.12	40.0	\$ 18.14	\$ 725.42	23.78%	\$ 172.51
5	5	Biological Science Tec	GS 5	1	Rest of United	\$ 16.59	40.0	\$ 16.59	\$ 663.60	23.78%	\$ 157.80	40.0	\$ 16.92	\$ 676.87	23.78%	\$ 160.96
6	5	Administrative Officer	GS 9	8	Rest of United	\$ 31.01	25.0	\$ 31.01	\$ 775.20	40.00%	\$ 310.08	19.0	\$ 31.63	\$ 600.94	40.00%	\$ 240.37
7	5	Project Leader	GS 13	5	Rest of United	\$ 48.17	42.0	\$ 48.17	\$ 2,023.14	40.00%	\$ 809.26	32.0	\$ 49.13	\$ 1,572.27	40.00%	\$ 628.91
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						\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	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%	\$ -
						503.00		\$ 14,883.26			\$ 5,539.45	427.00		\$ 12,512.45		\$ 4,647.74

SUMMARY OF DIRECT LABOR & FRINGE B

Yr 3 Escalation Rate	2.00%
----------------------	-------

Yr 4 Escalation Rate	2.00%
----------------------	-------

Task # or Descr	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	5 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	5 Fish Biologist	GS 11	3	Rest of United	\$ 31.81	80.0	\$ 33.10	\$ 2,647.61	35.00%	\$ 926.66	80.0	\$ 33.76	\$ 2,700.56	35.00%	\$ 945.20
3	5 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	5 Small Craft Operator	WG 5	1	Rest of United	\$ 17.78	40.0	\$ 18.50	\$ 739.93	23.78%	\$ 175.96	40.0	\$ 18.87	\$ 754.73	23.78%	\$ 179.48
5	5 Biological Science Tec	GS 5	1	Rest of United	\$ 16.59	40.0	\$ 17.26	\$ 690.41	23.78%	\$ 164.18	40.0	\$ 17.61	\$ 704.22	23.78%	\$ 167.46
6	5 Administrative Officer	GS 9	8	Rest of United	\$ 31.01	19.0	\$ 32.26	\$ 612.95	40.00%	\$ 245.18	19.0	\$ 32.91	\$ 625.21	40.00%	\$ 250.09
7	5 Project Leader	GS 13	5	Rest of United	\$ 48.17	32.0	\$ 50.12	\$ 1,603.71	40.00%	\$ 641.49	32.0	\$ 51.12	\$ 1,635.79	40.00%	\$ 654.32
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					\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	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%	\$ -
						427.00		\$ 12,762.70		\$ 4,740.70	427.00		\$ 13,017.96		\$ 4,835.51

SUMMARY OF DIRECT LABOR & FRINGE B

Yr 5 Escalation Rate	2.00%
----------------------	-------

							YEAR 5								
							10/1/2023	Through		9/29/2024		Total Salary Cost	Total Fringe Cost	Total Labor Cost	
Task # or Descr	Position Title	GS/WG Grade	GS/WG Step	OPM Pay Location	Current Hourly Rate	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost					
1	5	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	5	Fish Biologist	GS 11	3	Rest of United	\$ 31.81	120.0	\$ 34.43	\$ 4,131.86	35.00%	\$ 1,446.15	\$ 15,892.93	\$ 5,562.52	\$ 21,455.45	
3	5	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	5	Small Craft Operator	WG 5	1	Rest of United	\$ 17.78	40.0	\$ 19.25	\$ 769.83	23.78%	\$ 183.06	\$ 3,701.11	\$ 880.12	\$ 4,581.24	
5	5	Biological Science Tec	GS 5	1	Rest of United	\$ 16.59	40.0	\$ 17.96	\$ 718.30	23.78%	\$ 170.81	\$ 3,453.40	\$ 821.22	\$ 4,274.62	
6	5	Administrative Officer	GS 9	8	Rest of United	\$ 31.01	25.0	\$ 33.56	\$ 839.10	40.00%	\$ 335.64	\$ 3,453.40	\$ 1,381.36	\$ 4,834.76	
7	5	Project Leader	GS 13	5	Rest of United	\$ 48.17	42.0	\$ 52.14	\$ 2,189.91	40.00%	\$ 875.96	\$ 9,024.82	\$ 3,609.93	\$ 12,634.75	
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					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	
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%	\$ -	\$ -	\$ -	\$ -	\$ -	
							503.00		\$ 16,110.12		\$ 5,996.08	\$ 69,286.49	\$ 25,759.49	\$ 95,045.98	

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES, AND SERVICES

Yr 2 Escalation Rate

	Task	Item Description	Rationale for Proposed Cost	Year 1			Year 2	
				Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity
1	5	GSA Lease of Equip Code 6352 (monthly lease)	http://www.gsa.gov/portal/category/21852	\$ 248.88	1	\$ 248.88	\$ 253.86	1
2	5	GSA Lease of Equip Code 6352 (mileage rate)	http://www.gsa.gov/portal/category/21852	\$ 0.33	2200	\$ 726.00	\$ 0.34	2200
3	5	Boat fuel (gal)	Please refer to Reclamation Agreement num	\$ 4.00	120	\$ 480.00	\$ 4.08	12
4	5	Boating gear repair/replacement	Please refer to Reclamation Agreement num	\$ 500.00	1	\$ 500.00	\$ 510.00	1
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
TOTAL:						\$ 1,954.88		

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SU	2.00%	Yr 3 Escalation Rate	2.00%	Yr 4 Escalation Rate	2.00%
---------------------------------	-------	----------------------	-------	----------------------	-------

	Task	Item Description	Year 3				Year 4		
			Subtotal	Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal
1	5	GSA Lease of Equip Code 6352 (monthly lease)	\$ 253.86	\$ 258.93	1	\$ 258.93	\$ 264.11	1	\$ 264.11
2	5	GSA Lease of Equip Code 6352 (mileage rate)	\$ 740.52	\$ 0.34	2200	\$ 755.33	\$ 0.35	2200	\$ 770.44
3	5	Boat fuel (gal)	\$ 48.96	\$ 4.16	12	\$ 49.94	\$ 4.24	12	\$ 50.94
4	5	Boating gear repair/replacement	\$ 510.00	\$ 520.20	1	\$ 520.20	\$ 530.60	1	\$ 530.60
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	\$ -
			\$ 1,553.34			\$ 1,584.40			\$ 1,616.09

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SU	Yr 5 Escalation Rate	2.00%
---------------------------------	----------------------	-------

			Year 5			
Task	Item Description	Unit Price	Unit Quantity	Subtotal	TOTAL	
1	5	GSA Lease of Equip Code 6352 (monthly lease)	\$ 269.40	1	\$ 269.40	\$ 1,295.18
2	5	GSA Lease of Equip Code 6352 (mileage rate)	\$ 0.36	2200	\$ 785.85	\$ 3,778.14
3	5	Boat fuel (gal)	\$ 4.33	12	\$ 51.96	\$ 681.80
4	5	Boating gear repair/replacement	\$ 541.22	1	\$ 541.22	\$ 2,602.02
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	\$ -	\$ -
22			\$ -	0	\$ -	\$ -
23			\$ -	0	\$ -	\$ -
24			\$ -	0	\$ -	\$ -
25			\$ -	0	\$ -	\$ -
26			\$ -	0	\$ -	\$ -
27			\$ -	0	\$ -	\$ -
28			\$ -	0	\$ -	\$ -
29			\$ -	0	\$ -	\$ -
30			\$ -	0	\$ -	\$ -
				\$ 1,648.43	\$ 8,357.14	

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 Craig	Vernal to Craig	Vernal to Craig	Vernal to Craig	Vernal to Craig	
Reason	Field Work	Field Work	Field Work	Field Work	Field Work	
# of Days (include travel days)	10	10	10	10	10	
Airfare	\$ -	\$ -	\$ -	\$ -	\$ -	
Lodging (Per Night)	\$ 95.88	\$ 97.80	\$ 99.75	\$ 101.75	\$ 103.78	
MI&E Per Day	\$ 56.10	\$ 57.22	\$ 58.37	\$ 59.53	\$ 60.72	
Auto Rental Per Day	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Per Trip	\$ 1,550.75	\$ 1,580.59	\$ 1,611.02	\$ 1,642.06	\$ 1,673.72	
No. of persons	2	2	2	2	2	
SUBTOTAL =	\$ 3,101.50	\$ 3,161.17	\$ 3,222.03	\$ 3,284.11	\$ 3,347.44	\$ 16,116.25