

**RECOVERY PROGRAM**  
**FY 2020-2021 SCOPE OF WORK for:**  
(Passage & O&M: Redlands Diversion Dam)

Recovery Program Project Number: C-4bRED

Reclamation Agreement number: TBD  
Reclamation Agreement term: October 1, 2019 – Sept. 30, 2024

Note: Recovery Program FY20-21 scopes of work are drafted in May 2019. They often are revised before final Program approval and may subsequently be revised again in response to changing Program needs. Program participants also recognize the need and allow for some flexibility in scopes of work to accommodate new information (especially in nonnative fish management projects) and changing hydrological conditions.

Lead agency: U.S. Fish and Wildlife Service  
Grand Junction Fish and Wildlife Conservation Office  
Submitted by: Travis Francis, Fishery Biologist  
Dale Ryden, Project Leader  
Address: 445 West Gunnison Ave.  
Grand Junction, CO 81501  
Phone: (970) 628-7204  
FAX: (970) 628-7217  
Email: travis\_francis@fws.gov  
dale\_ryden@fws.gov

Date Last Modified: 5/22/2019 2:33 PM

Category:

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

Expected Funding Source:

- Annual funds  
 Capital funds  
 Other *[explain]*

**I. Title of Proposal: Annual Operation and Maintenance of the Fish Passage Structure at Redlands Diversion Dam on the Gunnison River.**

**II. Relationship to RIPRAP:**

Colorado River Action Plan: Gunnison River  
II.B.1. Restore passage at Redlands.  
II.B.1.c. Operate and maintain fish ladder.

**III. Study Background/Rationale and Hypotheses:**

The fish passage at Redlands Power and Water Diversion Dam, on the lower Gunnison River, was completed by 1996. It was designed for selective fish passage, with a fish trap at the upstream terminus of the ladder. Fishes are collected, counted and sorted (nonnative fish are removed, native fish and salmonids are allowed to make passage upstream, ictalurids are released downstream), endangered fish (bonytail [*Gila elegans*], Colorado pikeminnow

[*Ptychocheilus lucius*], humpback chub [*Gila cypha*], razorback sucker [*Xyrauchen texanus*] and roundtail chub (*Gila robusta*) are checked for a PIT tag, and endangered fish without a PIT tag have one implanted. Beginning in 2015, all Colorado pikeminnow are translocated upstream to either Escalante or Delta along with other endangered fish collected the same day.

#### Project Results to Date

From 1996 to 2018, the total number of fishes processed was 198,405. Native fishes comprised 81% of the total over a 23-year period. There has been a significant downward trend in the relative percentage of native fishes compared to the first 5 years that the ladder was operated when the relative percentage of native fishes was about 92% per year. Endangered fish totals (not individuals, many fish have been collected in the trap on multiple occasions) from 1996 to 2019 include 226 Colorado pikeminnow, 38 razorback sucker, 100 bonytail, and 3 humpback chub (Francis and Ryden 2018).

A final report was completed in July 2001 and distributed in late-August 2001. This report evaluated the use of the fishway by all fishes, with particular reference to the native, listed fish, Colorado pikeminnow, from 1996-2000 (Burdick 2001). This work provides guidance for current standard operation procedures.

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

Continue to collect data on the number of large-bodied fish, different fish species, and seasonal distribution of fish that use the Redlands passageway. Summarize the annual results of passageway fish use in the annual report.

#### V. Study Area: Gunnison River: river mile 3.0.

Study Methods/Approach: FY 2020-2021

The fish trap at Redlands fish passageway may be opened by mid-April and closed in mid-October. The trap is designed to collect large-bodied fish. Depending upon manpower, the fish trap at the passageway will be run at least every other day, Monday through Friday, and where possible every weekday. All fish will be sorted by species and counted. Vital statistics including length, weight, and PIT-tag IDs will be collected for all listed species found in the trap. All Colorado pikeminnow will be translocated upstream to either Escalante or Delta along with other endangered fish collected the same day. Other introduced species (e. g., largemouth bass, smallmouth bass, green sunfish, black bullhead, gizzard shad, white sucker, and carp) collected will be sacrificed and disposed of in a manner that will not constitute a nuisance or as otherwise directed by Colorado Parks and Wildlife (CPW). Channel catfish will be returned downstream of the fish ladder alive.

In addition to collecting and counting fish in the fish trap, FWS personnel will continue to be responsible for periodic cleaning of river borne sediment in the fish trap and routine cleaning of surface and submerged trash, debris, and river borne algae from the trash grates and bar screens in the fore bay of the passageway. Other tasks include: regulating river flows through the fish ladder and attraction flow to remove sediment from the fish-way, noxious weed

control, and removing all stranded fish in the fish trap and dewatered portion of the fish ladder prior to winterizing. FWS personnel will also be responsible for opening and winterizing the passageway.

**VI. Task Description and Schedule:**

Description:

Task 1. Routine O&M of Redlands fish ladder and fish trap which includes monitoring the fish trap, sorting, examining, and enumerating all fish in addition to removing and disposing of all non-native fish; removing sediment from the trap and cleaning trash and debris from the trash racks, bar screens, fish trap, and fish-way entrance; regulating river flows through the fish ladder and attraction flow to remove sediment from the fish-way, noxious weed control, and removing all stranded fish in the fish trap and dewatered portion of the fish ladder prior to winterizing.

Task 2. Compile and summarize fish use data; prepare annual report.

Schedule:

Task 1. 4/2020 – 10/2020; 4/2021 – 10/2021

Task 2. 10/2020 – 11/2020; 10/2021 – 11/2021

**VII. Deliverables, Due Dates, and Budget by Fiscal Year: Budget Summary: Please See Interagency Agreement Cost Estimating Tool Spreadsheet**

Annual report submission by November each year and data submissions to STReAMS by the following January.

Submission of 6-12 photos of project components or individuals completing tasks by February 28th. Images can be uploaded to;

<https://www.flickr.com/photos/coloradoriverrecovery/>

Photographs will likely be taken with cell phone phones and uploaded photos to a folder named by project number. Each image will have a number, and an email will be sent to the I&E Coordinator with the number and a brief description of the photo. For example, date, location, what is happening and who the photographer is.

**FY2020**

USFWS-GJ

\$85,080.94

**FY2021**

USFWS-GJ

\$86,782.55

**2020-2021 Total = \$171,863.49**

Estimated Budget Summary for Fiscal Years 2022-2024:

**FY2022**

USFWS-GJ \$88,553.06

**FY2023**

USFWS-GJ \$90,395.56

**FY2024**

USFWS-GJ \$92,313.86

**2022-2024 Total = \$271,262.48**

**5-Year Total = \$443,125.97**

**VIII.** Reviewers: Program Staff and Biology Committee

**IX.** References:

Burdick, B. D. 2001. Five-year evaluation of fish passage at the Redlands Diversion Dam on the Gunnison River near Grand Junction, Colorado: 1996-2000. Recovery Program Project Number CAP-4b. Final report prepared for the Recovery Implementation Program for Endangered Fishes in the Upper Colorado River Basin. U. S. Fish and Wildlife Service, Grand Junction, Colorado. 57 pp. + appendices.

Francis, T.A. and D.W. Ryden 2018. Annual Operation and Maintenance of the Fish Passage Structure at the Redlands Diversion Dam on the Gunnison River. Annual report prepared for the Upper Colorado River Endangered Fish Recovery Program. Recovery Program Project Number C-4b-RED. U. S. Fish and Wildlife Service, Grand Junction Fish and Wildlife Conservation Office, Grand Junction, Colorado.

**SUMMARY OF PROPOSED COSTS**

<b>Name of Servicing Agency:</b>	U.S.F.W.S. Grand Junction Fish and Wildlife Conservation Office
<b>Project Name:</b>	C-4bRED, Annual Operation and Maintenance of the Fish Passage Structure at Redlands Diversion Dam on the Gunnison River.

	Enter the BEGINNING dates for each year ----->		YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
	Enter the ENDING dates for each year ----->		10/1/2019	9/30/2020	10/1/2021	10/1/2022	10/1/2023	10/1/2022	10/1/2023	10/1/2023	10/1/2024		
	Through	Through	Through	Through	Through	Through	Through	Through	Through				
	9/29/2020	9/30/2021	9/30/2022	9/30/2023	9/30/2024								
<b>DIRECT LABOR AND FRINGE BENEFIT COSTS:</b>			<b>YEAR 1</b>	<b>YEAR 2</b>	<b>YEAR 3</b>	<b>YEAR 4</b>	<b>YEAR 5</b>					<b>TOTAL</b>	
Direct Labor - Hourly			\$ 52,891.60	\$ 53,949.43	\$ 55,028.42	\$ 56,128.99	\$ 57,251.57					\$ 275,250.01	
Fringe Benefits - Hourly			\$ 25,355.34	\$ 25,862.44	\$ 26,379.69	\$ 26,907.29	\$ 27,445.43					\$ 131,950.19	
Subtotal of Direct Labor & Fringe Benefits:			\$ 78,246.94	\$ 79,811.87	\$ 81,408.11	\$ 83,036.27	\$ 84,697.00					\$ 407,200.20	
<b>OTHER DIRECT COSTS:</b>			<b>YEAR 1</b>	<b>YEAR 2</b>	<b>YEAR 3</b>	<b>YEAR 4</b>	<b>YEAR 5</b>					<b>TOTAL</b>	
Materials and Supplies			\$ 6,834.00	\$ 6,970.68	\$ 7,144.95	\$ 7,359.29	\$ 7,616.86					\$ 35,925.78	
Travel Costs			\$ -	\$ -	\$ -	\$ -	\$ -					\$ -	
Equipment			\$ -	\$ -	\$ -	\$ -	\$ -					\$ -	
Contractors			\$ -	\$ -	\$ -	\$ -	\$ -					\$ -	
Subtotal of Other Direct Costs:			\$ 6,834.00	\$ 6,970.68	\$ 7,144.95	\$ 7,359.29	\$ 7,616.86					\$ 35,925.78	
<b>INDIRECT/OVERHEAD COSTS:</b>			<b>YEAR 1</b>	<b>YEAR 2</b>	<b>YEAR 3</b>	<b>YEAR 4</b>	<b>YEAR 5</b>					<b>TOTAL</b>	
Subtotal of Labor and Other Direct Costs:			\$ 85,080.94	\$ 86,782.55	\$ 88,553.06	\$ 90,395.56	\$ 92,313.86						
Total dollars exempt from indirect/overhead base:													
U.S.F.W.S Overhead Rate	3.00%	\$ 2,552.43	3.00%	\$ 2,603.48	3.00%	\$ 2,656.59	3.00%	\$ 2,711.87	3.00%	\$ 2,769.42		\$ 13,293.78	
Total dollars exempt from indirect/overhead base:		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
<Enter Description of Indirect/OH Cost #2>		\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -		\$ -	
Subtotal of Indirect/Overhead Costs:		\$ 2,552.43		\$ 2,603.48		\$ 2,656.59		\$ 2,711.87		\$ 2,769.42		\$ 13,293.78	
			<b>YEAR 1</b>	<b>YEAR 2</b>	<b>YEAR 3</b>	<b>YEAR 4</b>	<b>YEAR 5</b>					<b>TOTAL</b>	
<b>GRAND TOTAL:</b>			\$ 87,633.36	\$ 89,386.03	\$ 91,209.65	\$ 93,107.43	\$ 95,083.28					\$ 456,419.76	

# SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Enter Escalation Rates ----->

Yr 2 Escalation Rate

2.00%

Task # or	Position Title	GS/WG Grade	GS/WG Step	OPM Pay Location	Current Hourly Rate	YEAR 1					YEAR 2					
						10/1/2019		Through	9/29/2020		9/30/2020		Through	9/30/2021		
						# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	
1	1	Fish Biologist	11	8	Rest of US	\$ 36.18	400.0	\$ 36.18	\$ 14,472.00	51.50%	\$ 7,453.08	400.0	\$ 36.90	\$ 14,761.44	51.50%	\$ 7,602.14
2	1	Supervisory Biologist	14	8	Rest of US	\$ 60.93	160.0	\$ 60.93	\$ 9,748.80	42.80%	\$ 4,172.49	160.0	\$ 62.15	\$ 9,943.78	42.80%	\$ 4,255.94
3	1	Bio Technician (Crew L	7	5	Rest of US	\$ 22.46	120.0	\$ 22.46	\$ 2,695.20	65.00%	\$ 1,751.88	120.0	\$ 22.91	\$ 2,749.10	65.00%	\$ 1,786.92
4	1	Bio Technician (Crew L	6	4	Rest of US	\$ 19.62	200.0	\$ 19.62	\$ 3,924.00	49.80%	\$ 1,954.15	200.0	\$ 20.01	\$ 4,002.48	49.80%	\$ 1,993.24
5	1	Bio Technician	5	1	Rest of US	\$ 16.00	680.0	\$ 16.00	\$ 10,880.00	45.60%	\$ 4,961.28	680.0	\$ 16.32	\$ 11,097.60	45.60%	\$ 5,060.51
6	1	Administrative Officer	9	8	Rest of US	\$ 29.20	160.0	\$ 29.20	\$ 4,672.00	43.30%	\$ 2,022.98	160.0	\$ 29.78	\$ 4,765.44	43.30%	\$ 2,063.44
7	2	Fish Biologist	11	8	Rest of US	\$ 36.18	80.0	\$ 36.18	\$ 2,894.40	51.50%	\$ 1,490.62	80.0	\$ 36.90	\$ 2,952.29	51.50%	\$ 1,520.43
8	2	Supervisory Biologist	14	8	Rest of US	\$ 60.93	40.0	\$ 60.93	\$ 2,437.20	42.80%	\$ 1,043.12	40.0	\$ 62.15	\$ 2,485.94	42.80%	\$ 1,063.98
9	2	Administrative Officer	9	8	Rest of US	\$ 29.20	40.0	\$ 29.20	\$ 1,168.00	43.30%	\$ 505.74	40.0	\$ 29.78	\$ 1,191.36	43.30%	\$ 515.86
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						<b>1,880.00</b>		<b>\$ 52,891.60</b>			<b>\$ 25,355.34</b>	<b>1,880.00</b>		<b>\$ 53,949.43</b>		<b>\$ 25,862.44</b>

# SUMMARY

Yr 3 Escalation Rate	2.00%
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Yr 4 Escalation Rate	2.00%
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Task # or	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	400.0	\$ 37.64	\$ 15,056.67	51.50%	\$ 7,754.18	400.0	\$ 38.39	\$ 15,357.80	51.50%	\$ 7,909.27
2	Supervisory Biologist	14	8	Rest of US	\$ 60.93	160.0	\$ 63.39	\$ 10,142.65	42.80%	\$ 4,341.05	160.0	\$ 64.66	\$ 10,345.50	42.80%	\$ 4,427.88
3	Bio Technician (Crew L	7	5	Rest of US	\$ 22.46	120.0	\$ 23.37	\$ 2,804.09	65.00%	\$ 1,822.66	120.0	\$ 23.83	\$ 2,860.17	65.00%	\$ 1,859.11
4	Bio Technician (Crew L	6	4	Rest of US	\$ 19.62	200.0	\$ 20.41	\$ 4,082.53	49.80%	\$ 2,033.10	200.0	\$ 20.82	\$ 4,164.18	49.80%	\$ 2,073.76
5	Bio Technician	5	1	Rest of US	\$ 16.00	680.0	\$ 16.65	\$ 11,319.55	45.60%	\$ 5,161.72	680.0	\$ 16.98	\$ 11,545.94	45.60%	\$ 5,264.95
6	Administrative Officer	9	8	Rest of US	\$ 29.20	160.0	\$ 30.38	\$ 4,860.75	43.30%	\$ 2,104.70	160.0	\$ 30.99	\$ 4,957.96	43.30%	\$ 2,146.80
7	Fish Biologist	11	8	Rest of US	\$ 36.18	80.0	\$ 37.64	\$ 3,011.33	51.50%	\$ 1,550.84	80.0	\$ 38.39	\$ 3,071.56	51.50%	\$ 1,581.85
8	Supervisory Biologist	14	8	Rest of US	\$ 60.93	40.0	\$ 63.39	\$ 2,535.66	42.80%	\$ 1,085.26	40.0	\$ 64.66	\$ 2,586.38	42.80%	\$ 1,106.97
9	Administrative Officer	9	8	Rest of US	\$ 29.20	40.0	\$ 30.38	\$ 1,215.19	43.30%	\$ 526.18	40.0	\$ 30.99	\$ 1,239.49	43.30%	\$ 536.70
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						<b>1,880.00</b>		<b>\$ 55,028.42</b>		<b>\$ 26,379.69</b>	<b>1,880.00</b>		<b>\$ 56,128.99</b>		<b>\$ 26,907.29</b>

# SUMMARY

Yr 5 Escalation Rate	2.00%
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						YEAR 5								
						10/1/2023	Through	9/29/2024			Total Salary Cost	Total Fringe Cost	Total Labor Cost	
Task # or	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	1	Fish Biologist	11	8	Rest of US	\$ 36.18	400.0	\$ 39.16	\$ 15,664.96	51.50%	\$ 8,067.45	\$ 75,312.87	\$ 38,786.13	\$ 114,099.00
2	1	Supervisory Biologist	14	8	Rest of US	\$ 60.93	160.0	\$ 65.95	\$ 10,552.41	42.80%	\$ 4,516.43	\$ 50,733.15	\$ 21,713.79	\$ 72,446.93
3	1	Bio Technician (Crew L	7	5	Rest of US	\$ 22.46	120.0	\$ 24.31	\$ 2,917.37	65.00%	\$ 1,896.29	\$ 14,025.93	\$ 9,116.85	\$ 23,142.78
4	1	Bio Technician (Crew L	6	4	Rest of US	\$ 19.62	200.0	\$ 21.24	\$ 4,247.46	49.80%	\$ 2,115.24	\$ 20,420.65	\$ 10,169.49	\$ 30,590.14
5	1	Bio Technician	5	1	Rest of US	\$ 16.00	680.0	\$ 17.32	\$ 11,776.86	45.60%	\$ 5,370.25	\$ 56,619.96	\$ 25,818.70	\$ 82,438.66
6	1	Administrative Officer	9	8	Rest of US	\$ 29.20	160.0	\$ 31.61	\$ 5,057.12	43.30%	\$ 2,189.73	\$ 24,313.28	\$ 10,527.65	\$ 34,840.92
7	2	Fish Biologist	11	8	Rest of US	\$ 36.18	80.0	\$ 39.16	\$ 3,132.99	51.50%	\$ 1,613.49	\$ 15,062.57	\$ 7,757.23	\$ 22,819.80
8	2	Supervisory Biologist	14	8	Rest of US	\$ 60.93	40.0	\$ 65.95	\$ 2,638.10	42.80%	\$ 1,129.11	\$ 12,683.29	\$ 5,428.45	\$ 18,111.73
9	2	Administrative Officer	9	8	Rest of US	\$ 29.20	40.0	\$ 31.61	\$ 1,264.28	43.30%	\$ 547.43	\$ 6,078.32	\$ 2,631.91	\$ 8,710.23
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20					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
21					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
22					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
23					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
24					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
25					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
26					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
27					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
28					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
29					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
30					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
31					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
						<b>1,880.00</b>		<b>\$ 57,251.57</b>		<b>\$ 27,445.43</b>	<b>\$ 275,250.01</b>	<b>\$ 131,950.19</b>	<b>\$ 407,200.20</b>	



# SUMMARY OF MATERIALS AND SUPPLIES

## SUMMARY OF MATERIALS, SUPPLIES, AND SERVICES

Yr 2 Escalation Rate	2.00%
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	Task # or Description	Item Description	Rationale for Proposed Cost	Year 1			Year 2		
				Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal
1	1 & 2	Miscellaneous Office Supplies	Refer to previous agreement number R17PG00084 or R15PG00083	\$ 104.00	1	\$ 104.00	\$ 106.08	1	\$ 106.08
2	1 & 2	Miscellaneous Field and Grounds Maintenance Supplies	Refer to previous agreement number R17PG00084 or R15PG00083	\$ 832.00	1	\$ 832.00	\$ 848.64	1	\$ 848.64
3	1 & 2	GSA Lease of Equip Code 6359 (monthly lease)	<a href="http://www.gsa.gov/portal/category/21852">http://www.gsa.gov/portal/category/21852</a>	\$ 453.00	6	\$ 2,718.00	\$ 462.06	6	\$ 2,772.36
4	1 & 2	GSA Lease of Equip Code 6359 (monthly lease)	<a href="http://www.gsa.gov/portal/category/21852">http://www.gsa.gov/portal/category/21852</a>	\$ 0.42	4000	\$ 1,680.00	\$ 0.43	4000	\$ 1,713.60
5	1 & 2	Annual Electrical Bill	Averaged monthly cost	\$ 125.00	12	\$ 1,500.00	\$ 127.50	12	\$ 1,530.00
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	\$ -
<b>TOTAL:</b>						<b>\$ 6,834.00</b>			<b>\$ 6,970.68</b>

# SUMMARY OF MATERIALS AND SUPPLIES

<b>SUMMARY OF MATERIALS, SUPPLIES</b>	Yr 3 Escalation Rate	2.50%	Yr 4 Escalation Rate	3.00%
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	Task # or Description	Item Description	Year 3			Year 4		
			Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal
1	1 & 2	Miscellaneous Office Supplies	\$ 108.73	1	\$ 108.73	\$ 111.99	1	\$ 111.99
2	1 & 2	Miscellaneous Field and Grounds Maintenance Supplies	\$ 869.86	1	\$ 869.86	\$ 895.95	1	\$ 895.95
3	1 & 2	GSA Lease of Equip Code 6359 (monthly lease)	\$ 473.61	6	\$ 2,841.67	\$ 487.82	6	\$ 2,926.92
4	1 & 2	GSA Lease of Equip Code 6359 (monthly lease)	\$ 0.44	4000	\$ 1,756.44	\$ 0.45	4000	\$ 1,809.13
5	1 & 2	Annual Electrical Bill	\$ 130.69	12	\$ 1,568.25	\$ 134.61	12	\$ 1,615.30
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	\$ -
					<b>\$ 7,144.95</b>			
								<b>\$ 7,359.29</b>

# SUMMARY OF MATERIALS AND SUPPLIES

<b>SUMMARY OF MATERIALS, SUPPLIES</b>	Yr 5 Escalation Rate	3.50%
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	Task # or Description	Item Description	Year 5			TOTAL
			Unit Price	Unit Quantity	Subtotal	
1	1 & 2	Miscellaneous Office Supplies	\$ 115.91	1	\$ 115.91	\$ 546.71
2	1 & 2	Miscellaneous Field and Grounds Maintenance Supplies	\$ 927.31	1	\$ 927.31	\$ 4,373.76
3	1 & 2	GSA Lease of Equip Code 6359 (monthly lease)	\$ 504.89	6	\$ 3,029.36	\$ 14,288.31
4	1 & 2	GSA Lease of Equip Code 6359 (monthly lease)	\$ 0.47	4000	\$ 1,872.45	\$ 8,831.62
5	1 & 2	Annual Electrical Bill	\$ 139.32	12	\$ 1,671.83	\$ 7,885.38
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	\$ -	\$ -
					<b>\$ 7,616.86</b>	<b>\$ 35,925.78</b>