



**FUTURE FISHERIES IMPROVEMENT PROGRAM GRANT APPLICATION**

*All sections must be addressed, or the application will be considered invalid*



**I. APPLICANT INFORMATION**

A. Applicant Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ E-mail: \_\_\_\_\_

B. Contact Person (if different than applicant): \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ E-mail: \_\_\_\_\_

C. Landowner and/or Lessee Name  
(if different than applicant): \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ E-mail: \_\_\_\_\_

**II. PROJECT INFORMATION**

A. Project Name: \_\_\_\_\_

River, stream, or lake: \_\_\_\_\_

Location: Township: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_ *within project (decimal degrees)*

County: \_\_\_\_\_

B. Purpose of Project:

C. Brief Project Description (attach additional information to end of application):

A large, empty rectangular box with a thin black border, intended for the user to provide a brief project description and attach additional information. The box occupies most of the page below the text label.

D. Length of stream or size of lake that will be treated (project extent): \_\_\_\_\_  
 Length/size of impact, if larger than project extent (e.g. stream miles opened): \_\_\_\_\_

E. Project Budget:

**Grant Request (Dollars):** \$ \_\_\_\_\_

Matching Dollars: \$ \_\_\_\_\_

Matching In-Kind Services:\* \$ \_\_\_\_\_

*\*salaries of government employees are not considered matching contributions*

Other Contributions (not part of this application) \$ \_\_\_\_\_

**Total Project Cost:** \$ \_\_\_\_\_

F. **Attach** itemized (line item) budget – see *budget template*

G. **Insert** or **attach** a project location map showing the project area in relation to a major landmark or town. Please indicate if the project location is on public or private property.

H. **Attach** specific project plans (e.g. detailed sketches, plan views [showing location and type of channel modifications], example photographs), current condition photographs, and maps. *\*If project involves water leasing or water salvage complete and attach a supplemental questionnaire (fwp.mt.gov/habitat/futurefisheries/supplement2.doc).*

I. **Attach** letters or statements of support. This includes landowner consent, community or public support, and fish biologist support.

J. The project agreement includes a 20-year maintenance commitment. Please indicate (yes or no) that you will ensure project protection for 20 years. Discuss your ability to meet this commitment.

Yes  No

K. **Describe** or **attach** land management & maintenance plans, including changing to grazing regimes, that will ensure protection of the restored area.

**III. PROJECT BENEFITS** (attach additional information to end of application):

A. What species of fish will benefit from this project?

B. How will the project protect or enhance wild fish habitat?

C. Will the project improve fish populations and/or fishing? To what extent?

D. Will the project increase public fishing opportunity for wild fish and, if so, how?

E. What was the cause of habitat degradation in the area of this project and how will the project correct the cause?

F. What public benefits will be realized from this project?

G. Will the project interfere with water or property rights of adjacent landowners? (explain):

H. Will the project result in the development of commercial recreational use on the site? (explain):

I. Is this project associated with the reclamation of past mining activity?

**Each approved project applicant must enter into a written agreement with Montana Fish, Wildlife & Parks specifying terms and duration of the project. The applicant must obtain all applicable permits prior to project construction. A competitive bid process must be followed when using State funds.**

#### IV. AUTHORIZING STATEMENT

I (we) hereby declare that the information and all statements to this application are true, complete, and accurate to the best of my (our) knowledge and that the project or activity complies with rules of the Future Fisheries Improvement Program.

Applicant Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Sponsor (if applicable): \_\_\_\_\_

**Submittal: Applications must be *signed and received before December 1 and June 1 of each year to be considered for the subsequent funding period.* Late or incomplete applications will be rejected.**

Mail to: FWP Future Fisheries Fish Management Bureau PO Box 200701 Helena, MT 59620-0701	Email: Future Fisheries Coordinator <a href="mailto:FFIPFWP@mt.gov">FFIPFWP@mt.gov</a> (electronic submissions must be signed) For files over 10MB, use <a href="https://transfer.mt.gov">https://transfer.mt.gov</a>
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*Applications may be rejected if this form is modified.*

**Big Hole 40 bar streambank restoration**  
**BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS**

001-2021

Both tables must be completed or the application will be returned

PROJECT COSTS					CONTRIBUTIONS			
WORK ITEMS (Itemize by Category)	NUMBER OF UNITS	UNIT DESCRIPTION*	COST/UNIT	TOTAL COST	FUTURE FISHERIES REQUEST	MATCH (Cash or Services)**	OTHER (Not part of this application)	TOTAL
<b>Personnel***</b>								
Survey	0	n/a		\$ -				\$ -
Design	5	hrs; provided by FWP	\$0.00	\$ -				\$ -
Engineering	0	n/a		\$ -				\$ -
Permitting	4.5	hrs; provided by FWP	\$0.00	\$ -				\$ -
Oversight	40	hrs; BHWC	\$40.00	\$ 1,600.00	-	1,600.00		\$ 1,600.00
				\$ -				\$ -
			Sub-Total	\$ 1,600.00	\$ -	\$ 1,600.00	\$ -	\$ 1,600.00
<b>Travel</b>								
Mileage	0		\$0.58	\$ -				\$ -
Per diem	0		\$0.00	\$ -				\$ -
			Sub-Total	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Construction Materials****</b>								
				\$ -				\$ -
Willow Transplants	126	Mature Willow	\$250.00	\$ 31,500.00		31,500.00		\$ 31,500.00
Sod Mats	2952.4	Square Yard	\$2.00	\$ 5,904.80		\$ 5,904.80		\$ 5,904.80
Willow Stakes	2952.4	Square Yard	\$2.00	\$ 5,904.80		\$ 5,904.80		\$ 5,904.80
T-posts	28	\$/T-post	\$5.79	\$ 162.12		162.12		\$ 162.12
Fence (6' enclosure)	1400	\$/Foot	\$0.19	\$ 265.50		265.50		\$ 265.50
				\$ -				\$ -
				\$ -				\$ -
				\$ -				\$ -
			Sub-Total	\$ 43,737.22	\$ -	\$ 43,737.22	\$ -	\$ 43,737.22
<b>Equipment, Labor, and Mobilization</b>								
Tracked Excavators (three)	250	hrs;	\$180.00	\$ 45,000.00	10,000.00	35,000.00		\$ 45,000.00
Tracked Dump Truck (one)	200	hrs;	\$100.00	\$ 20,000.00	5,000.00	15,000.00		\$ 20,000.00
Mobilization and Demobilization	0.077	7.7% of construction cost	\$5,000.00	\$ 5,000.00		5,000.00		\$ 5,000.00
				\$ -				\$ -
				\$ -				\$ -
				\$ -				\$ -
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				\$ -				\$ -
				\$ -				\$ -
				\$ -				\$ -

**Big Hole 40 bar streambank restoration**  
**BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS**

001-2021

			\$	-				\$	-			
		Sub-Total	\$	70,000.00	\$	15,000.00	\$	55,000.00	\$	-	\$	70,000.00
<b>TOTALS</b>			\$	115,337.22	\$	15,000.00	\$	100,337.22	\$	-	\$	115,337.22

**OTHER REQUIREMENTS:**

**All of the columns in the budget table and the matching contribution table MUST be completed appropriately or the application will be invalid.** Please see the example budget sheet for additional clarification.

\*Units = feet, hours, inches, etc. Do not use lump sum unless there is no other way to describe the costs.

\*\*Can include in-kind materials. Justification for in-kind labor (e.g. hourly rates used). Do not use government salaries as match. Describe here or in text.

\*\*\*The Review Panel suggests that design and oversight costs associated with a proposed project not exceed 15% of the total project budget. If design and oversight costs are in excess of 15%, applications must include a justification or minimum of two competitive bids for the cost of undertaking the project.

\*\*\*\*The Review Panel recommends a maximum fencing cost of \$1.50 per foot. Additional costs may be the responsibility of the applicant and/or partners.

Additional details:

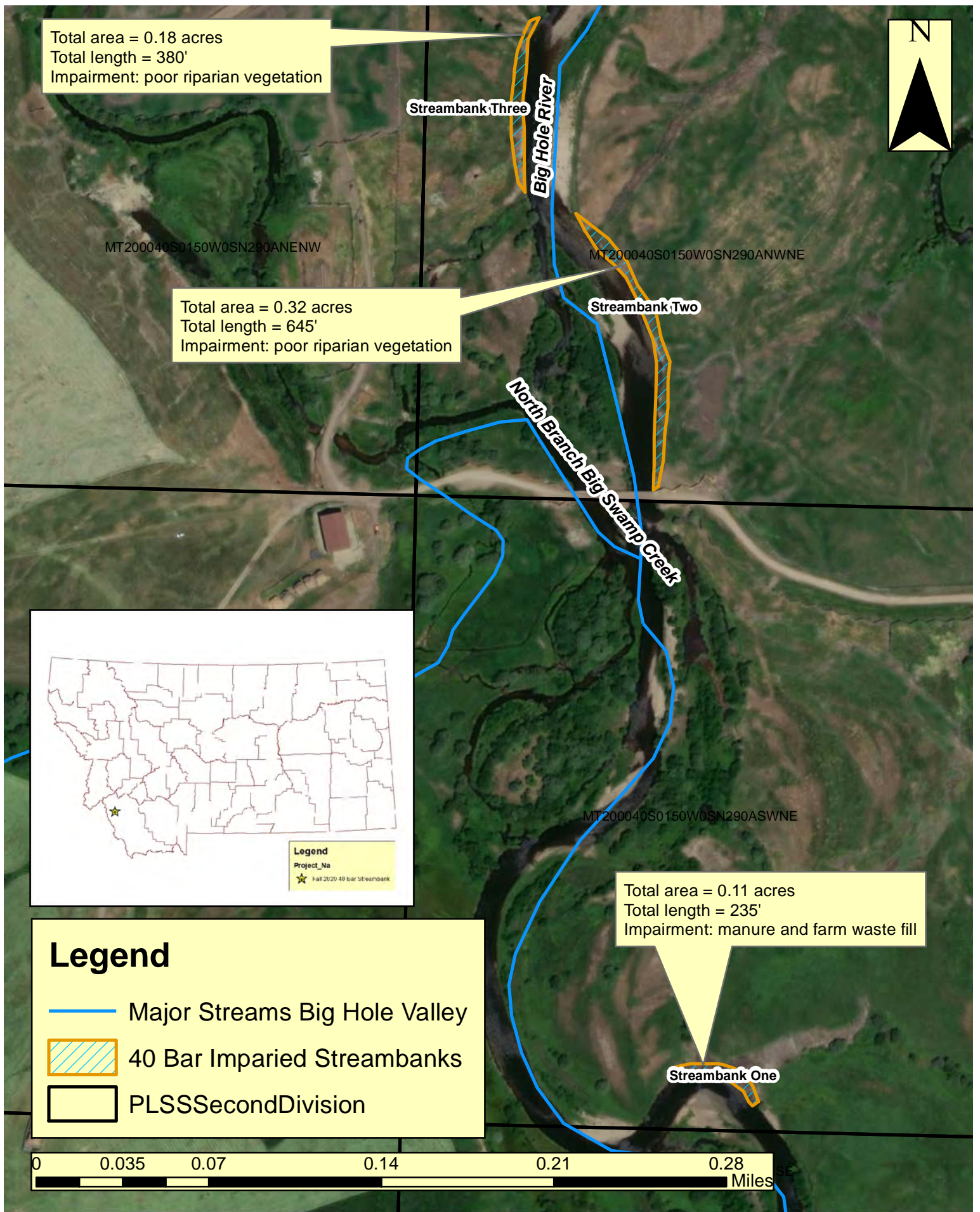
<b>APPLICATION MATCHING CONTRIBUTIONS</b>				
<b>(do not include requested funds or contributions not associated with the application)</b>				
<b>CONTRIBUTOR</b>	<b>IN-KIND</b>	<b>CASH</b>	<b>TOTAL</b>	<b>Secured? (Y/N)</b>
DEQ 319	\$ -	\$ 51,600.00	\$ 51,600.00	N
40 Bar	\$ 43,737.22		\$ 43,737.22	Y
USFWS	\$ -	\$ 5,000.00	\$ 5,000.00	Y
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
<b>TOTALS</b>	\$ 43,737.22	\$ 56,600.00	\$ 100,337.22	

<b>OTHER CONTRIBUTIONS</b>				
<b>(contributions not associated with the application)</b>				
<b>CONTRIBUTOR</b>	<b>IN-KIND</b>	<b>CASH</b>	<b>TOTAL</b>	<b>Secured? (Y/N)</b>
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
	\$ -	\$ -	\$ -	
<b>TOTALS</b>	\$ -	\$ -	\$ -	

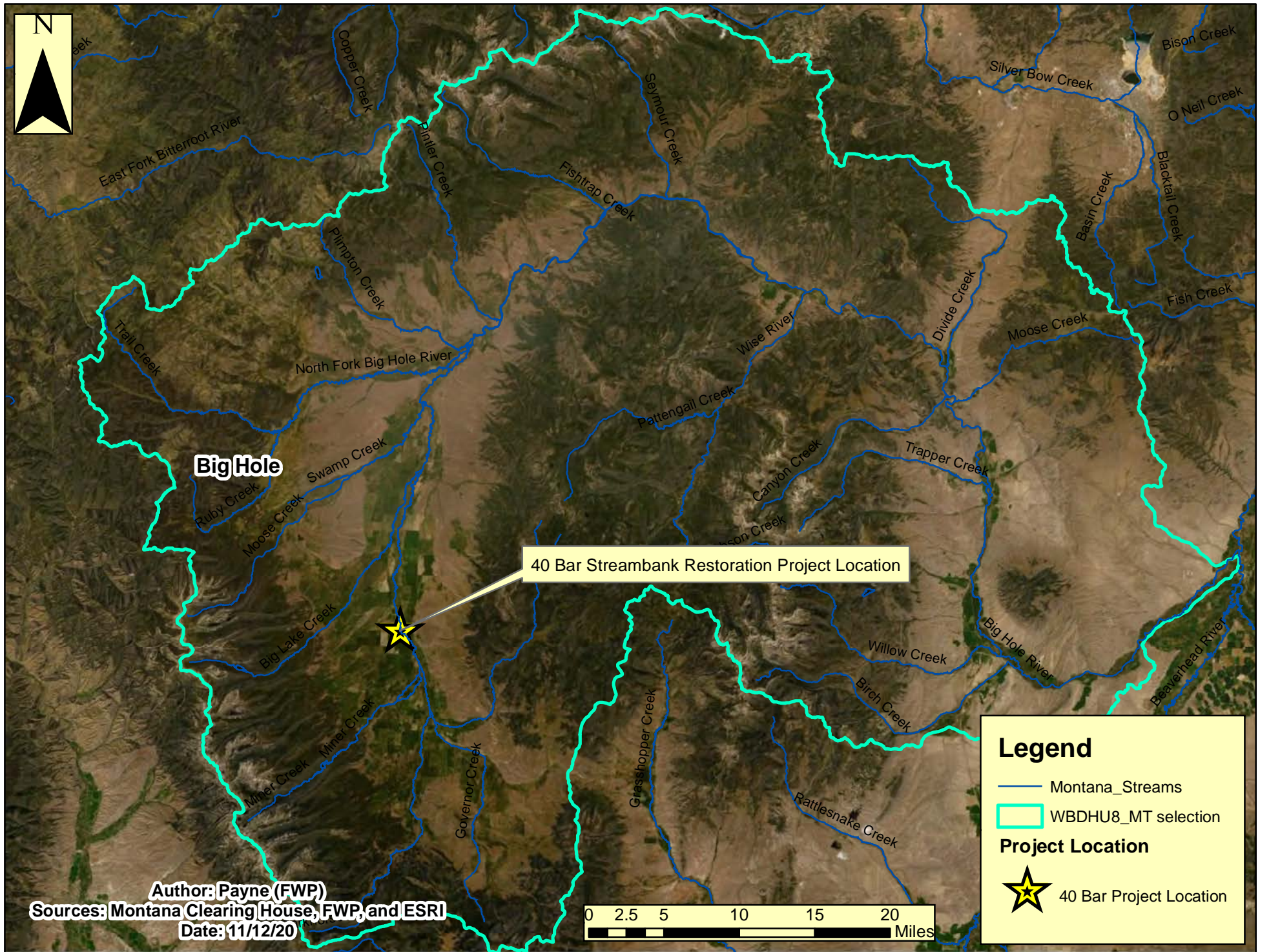
# 40 Bar Impaired Big Hole Streambanks

## Big Hole 40 bar streambank restoration

001-2021










**Big Hole**

40 Bar Streambank Restoration Project Location

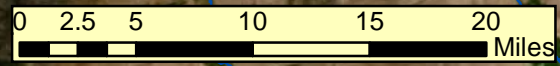
**Legend**

-  Montana\_Streams
-  WBDHU8\_MT selection

**Project Location**

-  40 Bar Project Location

**Author: Payne (FWP)**  
**Sources: Montana Clearing House, FWP, and ESRI**  
**Date: 11/12/20**



# 40 Bar Impaired Streambank Location

45.458174°, -113.478595°

Big Hole 40 bar streambank restoration

001-2021

## Legend

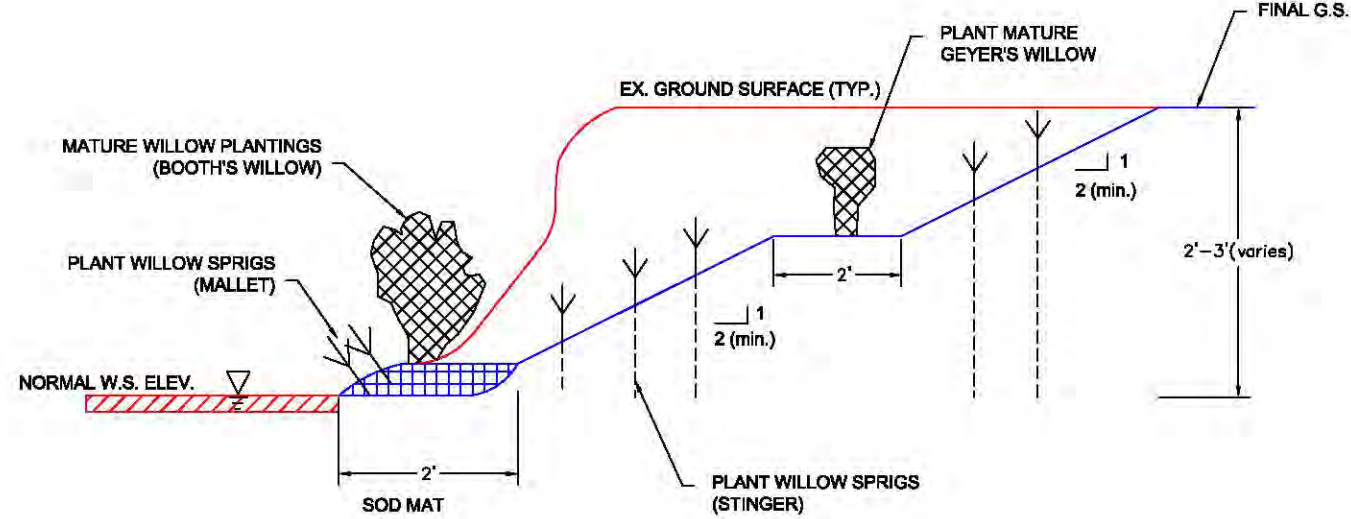
- 0
- 40 Bar Impaired Streambank Location
- Butch Hill
- High Runoff Channel Profile (5' width x 75' length)
- Hirschy Landing Strip
- Husted Ditch Repair
- Jackson
- Jackson Hot Springs Lodge

Google Earth

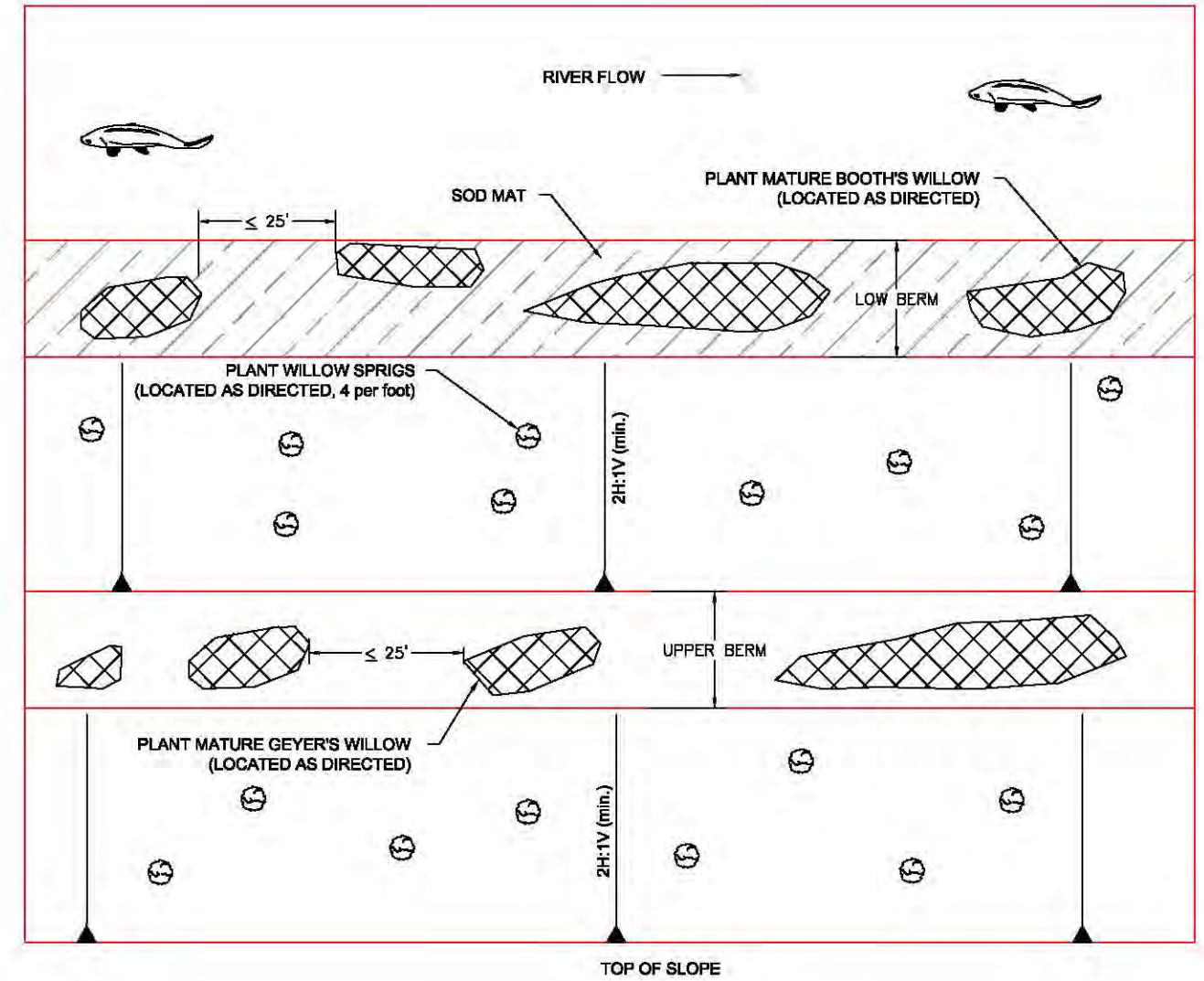
© 2020 Google



3 mi



TYP. BANK RESTORATION CROSS-SECTION  
SCALE: 1": 3'



TYP. BANK RESTORATION - PLAN VIEW  
SCALE: 1": 3'

P. Jagoda 7/21/20  
DRAWN BY: DATE:  
P. Jagoda 7/21/20  
CHECKED BY: DATE:

REVISED BY: DATE:  
APPROVED BY: DATE:

APPROVED BY: DATE:  
APPROVED BY: DATE:

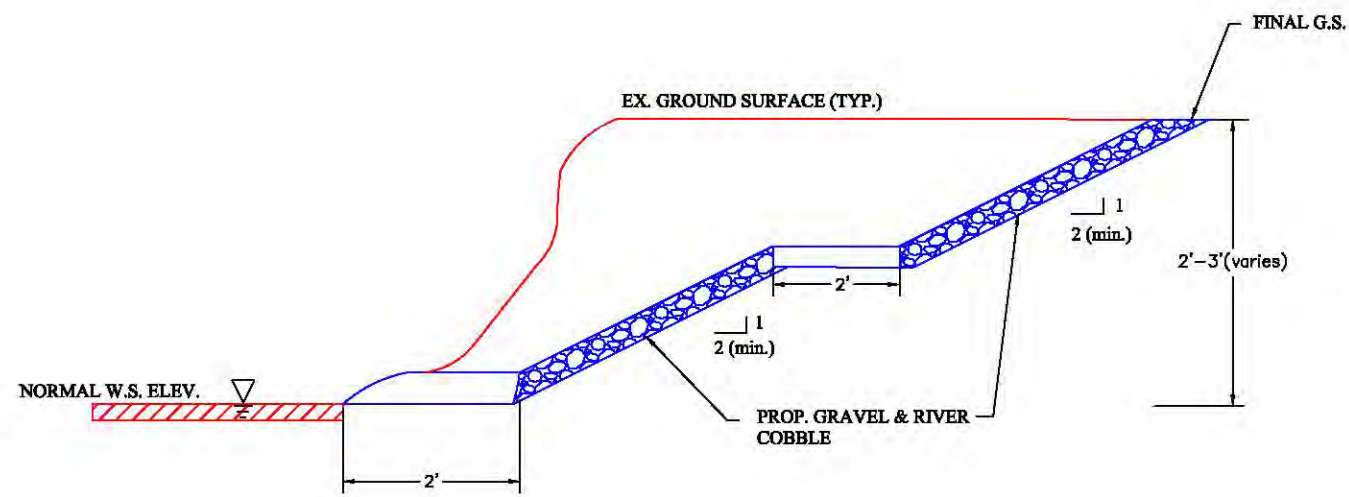


**MONTANA FISH,  
WILDLIFE & PARKS**

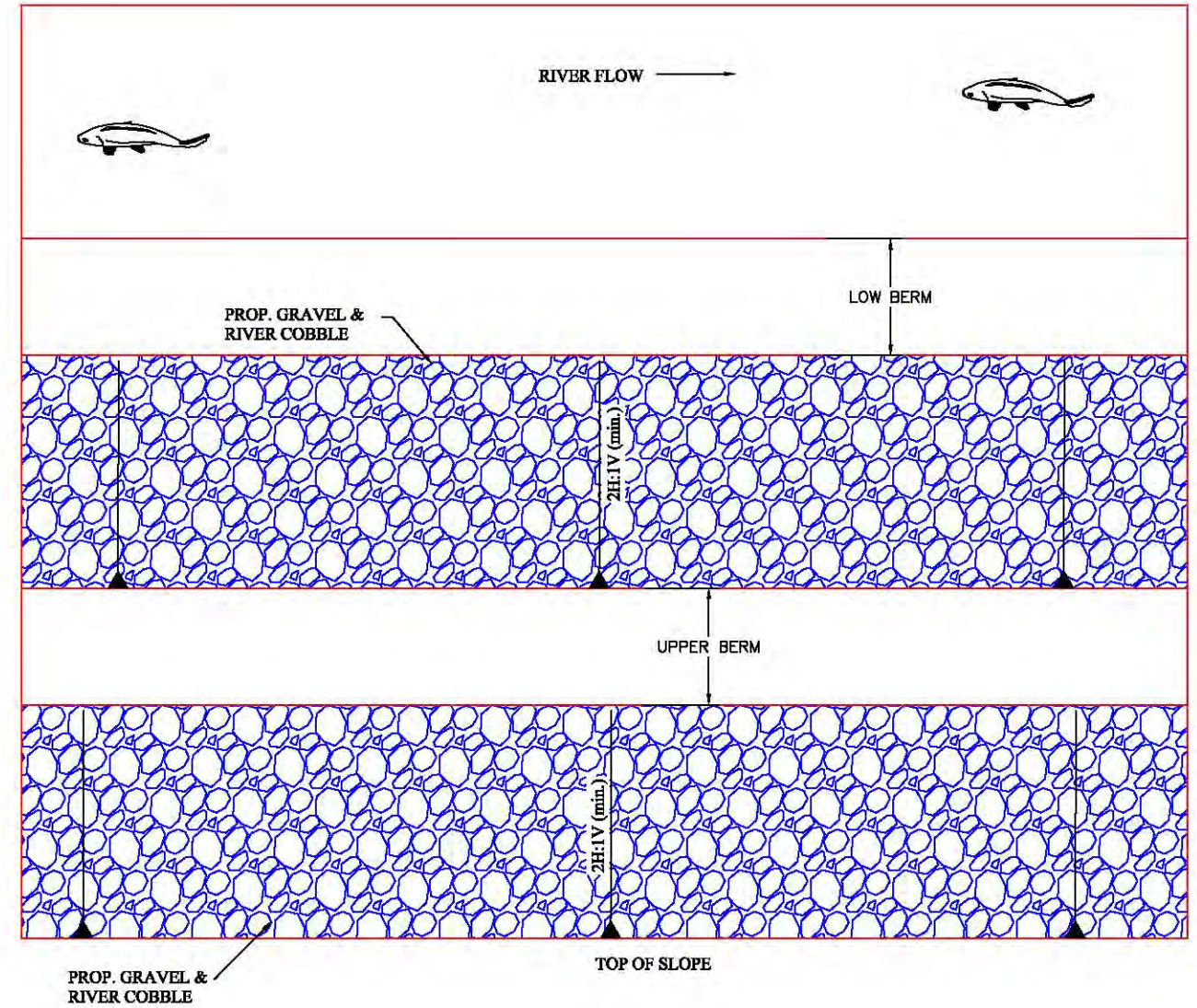
**Detail Sheet**

General Streambank Restoration Plans for Upper Big Hole 2020

SHEET: 1  
of 1



**TYP. BANK RESTORATION CROSS-SECTION**  
SCALE: 1" = 3'



**TYP. BANK RESTORATION - PLAN VIEW**  
SCALE: 1" = 3'

FP Jagoda	9/10/20
DRAWN BY:	DATE:
P. Jagoda	9/10/20
CHECKED BY:	DATE:

REVISED BY:	DATE:
APPROVED BY:	DATE:

APPROVED BY:	DATE:
APPROVED BY:	DATE:



**MONTANA FISH,  
WILDLIFE & PARKS**

**Detail Sheet**  
**4B Temporary Streambank Stabilization**



Streambank 1 prior to temporary fix.



Streambank 1 prior to temporary fix.



Streambank prior to temporary fix.



Streambank 2





Streambank 2



Streambank 2



Streambank 2



Streambank 2



Streambank 2



Streambank 2



Streambank 3 (across river)



Streambank 3 (across river)





Streambank 1 temporary fix.



Streambank 1 temporary fix.



Streambank 1 temporary fix.



Streambank 1 temporary fix.

November 3, 2020

Montana Department of Environmental Quality  
1520 E. Sixth Avenue  
P.O. Box 200901  
Helena, MT 59620-0901

Dear 319 Program Panel:

I'm writing this letter in support of the streambank restoration project proposed on our ranch along the Big Hole River near Jackson, MT. This project is important to us because we are currently losing ground to the river, which is impacting our operations. We estimate we've lost 50-60 feet of bank in recent memory.

We're also interested in doing right by the resources of the Big Hole River. By doing this project we'll be keeping excess sediment out of the stream and adding vegetation to shade the stream for native fish. These are the goals of our partners at Montana FWP, the US Fish and Wildlife Service and the Big Hole Watershed Committee. We are thankful to have trusted partners that can help us get this work done and help us with the resources needed.

For our part, we will fence off the treated banks and make sure our livestock and horses stay off the banks as they heal up from the work. We're happy to provide this fencing as part of the in-kind match needed for your grant program.

Thanks for your support of this project.

Sincerely,





# MONTANA FISH, WILDLIFE & PARKS

1820 Meadowlark Lane, Butte, MT 59701

November 16, 2020

Dear FFIP Review Panel,

I am writing this letter in support of the proposal to reconstruct the banks of the Big Hole River on the 40 Bar ranch using native vegetation and willow transplants. This section of the river is experiencing significant erosion due to several factors and that erosion is depositing significant fine sediment in the river and threatening irrigation and other infrastructure. Further, water quality is at risk as the river erodes agricultural wastes that were historically deposited in the riparian area. The methods proposed for reforming the streambanks have been proven in the upper Big Hole to be both effective and be deformable through time. By slowing the current active erosion and establishing a healthy riparian area the river and vegetation will be able to heal and function normally through time. This will benefit fish and wildlife in the Big Hole Valley.

A potential secondary benefit of this project is the opening of a relationship with the 40 Bar Ranch which is currently not enrolled in the CCAA program to protect Arctic grayling. While we would like to see sportsmen's dollars going toward projects on enrolled CCAA ranches, this project may be a first step in developing a partnership with the ranch owners that could lead to additional conservation practices on their ground that would benefit the fishery of the Big Hole and Arctic grayling in particular.

The collaboration between FWP, the Big Hole Watershed Committee and other partners to improve the aquatic and riparian habitat in the upper Big Hole River and have resulted in increased abundance of Arctic grayling. Not only will this project reduce erosion, improve riparian vegetation and benefit the aquatic habitat and fishery of the Big Hole, it may open doors for future conservation projects on the 40 Bar Ranch. I would hope that that panel would support this project.

Sincerely,

Jim Olsen  
Fisheries Biologist  
Montana Fish Wildlife and Parks

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**FWP.MT.GOV**THE **OUTSIDE** IS IN US ALL.

730 ½ N. Montana • Dillon, MT 59725 • (406) 531-5861 • rkreiner@mt.gov

November 23, 2020

Montana Fish, Wildlife & Parks  
Future Fisheries Improvement Program  
1420 E. Sixth Ave.  
P.O. Box 200701  
Helena, MT 59620-0701

Dear FFIP panel and board,

Please consider this letter an indication of my support for the proposed 40 Bar Ranch Streambank Stabilization Project as submitted by the Big Hole Watershed Committee. The project will fix nearly ¼ mile of degraded streambank on the upper Big Hole River. This will improve fish habitat and water quality, while removing a threat to irrigation infrastructure on a sensitive section of stream. The upper Big Hole River is home to the last remaining fluvial population of Arctic grayling in the lower 48 states.

Since the 1990s, FWP and its partners have worked with private landowners on the upper Big Hole River to improve habitat conditions for Arctic grayling. Collectively, these programs have resulted in more stable and vegetated streambanks throughout the Big Hole River, increased summer flows in the mainstem, and ultimately an increasing population of Arctic grayling. These landowner relationships were formalized in 2006, with the creation of the CCAA program (Candidate Conservation Agreement with Assurances) program. The success of these programs continues to build as more and more landowners observe successful collaborations on neighboring properties.

The landowners for this proposed project are not currently enrolled in the CCAA, however, we are hopeful of their enrollment in the future. CCAA biologists have identified the banks on their property as some of the last “unsustainable” riparian banks in the entire upper section of the Big Hole River. This project will directly fix observed problems through construction and plantings. But, the project will also preserve stabilized habitats as the landowners have agreed to a level of fencing and maintenance after construction. It is important to consider this project an opportunity to develop a long-term working relationship for the future. In order for conservation of this scale to succeed, we need to continually build the trust of many landowners and focus on the overall watershed as a whole.

Thanks for your consideration!

Sincerely,

*Ryan Kreiner*

Ryan Kreiner (FWP Region 3 Native Species Biologist)



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Montana Partners for Fish & Wildlife  
420 Barrett Street, Dillon, MT 59725

Michelle McGree  
Future Fisheries Improvement Program  
1420 E 6<sup>th</sup> Avenue  
PO Box 200701  
Helena Montana  
59620-0701

November 30, 2020

Dear Michelle,

Please accept this letter of support for The Big Hole Watershed Committee's 40 Bar Ranch Streambank Stabilization Project Future Fisheries proposal for the upper Big Hole River. I have had the pleasure of working with the Big Hole Watershed Committee (BHWC) for over two decades and appreciate their stewardship and accomplishments to enhance the Big Hole Watershed. This proposal continues those efforts by restoring an unstable eroding bank that is a point source for sediment and TMDLs. In 2020, the USFWS and Montana Fish, Wildlife & Parks treated a similar bank upstream of the proposed project by sloping the bank to the appropriate dimension, enhancing the native riparian vegetation and removing a sediment and potential manure source located close to the river. The proposed project is continually eroding during high flow events and not only providing a TMDL source but also degrading an important pasture for the landowner's ranching operation. The landowner has conveyed their desire to address this degraded stream bank and will buffer the restored bank with a riparian fence.

We have implemented a watershed conservation strategy through the Big Hole Arctic Grayling Candidate Conservation Agreement with Assurances Program (CCAA). Through landowner stewardship, diverse partnerships, and resources we are enhancing fisheries habitat, riparian vegetation, stream flows and temperatures that will also benefit water quality and reduce TMDLs. This project exemplifies how working together will progress shared habitat and water quality conservation goals and productive partnerships.

The USFWS Montana Partners for Fish & Wildlife Program (PFW) has collaborated with private landowners and the BHWC for many years to implement watershed scale conservation and identify long-term strategies that protect and maintain resiliency in our watersheds. We have identified the Big Hole watershed as a conservation focus area due to its unique assemblage of wildlife species, intact habitats and potential to implement conservation at a landscape scale. I am confident as a partner that your support for these efforts are building a better future for SW Montana. Thank you for considering this proposal.

Sincerely,

James Magee  
Fish and Wildlife Biologist  
MT Partners for Fish and Wildlife Program  
U.S. Fish and Wildlife Service

Big Hole 40 bar streambank restoration  
DEPARTMENT OF NATURAL RESOURCES  
AND CONSERVATION

001-2021



STEVE BULLOCK  
GOVERNOR

DIRECTOR'S OFFICE (406) 444-2074  
FAX (406) 444-2684

STATE OF MONTANA

WATER RESOURCES DIVISION: (406) 444-6601  
FAX: (406) 444-0533  
www.dnrc.mt.gov

1424 9<sup>TH</sup> AVENUE  
PO BOX 201601  
HELENA, MONTANA 59620-1601

November 20, 2020

Dear FFIP Review Panel:

Please accept this letter of support for The Big Hole Watershed Committee's Streambank Restoration proposal on the upper Big Hole River located north of Jackson, MT. Personally, I have worked with the Big Hole Watershed Committee (BHWC) for the past 2 years, however; the Montana Department of Natural Resources (DNRC) has partnered with the BHWC since 1994 on many successful collaborative projects. The USFWS and MFWP completed restoration projects on the Big Hole River upstream of this proposed project in the spring and fall of 2020 addressing unstable eroding banks and TMDL concerns. The proposed project will not only stabilize eroding banks creating channel stability and minimizing point source sediments but will also minimize the loss of important pasture grounds for the landowner. In addition, this project falls in line with watershed scale restoration efforts of the Big Hole Arctic Grayling Candidate Conservation Agreement with Assurances Program (CCAA) and the Big Hole Watershed Committee to benefit water quality, fisheries, and ecological health throughout the entire watershed.

The landowners associated with this proposed project are notable land stewards and are interested in protecting the benefits of fisheries, improving water quality, and particularly the recovery and continued conservation of Arctic Grayling. This proposed project will demonstrate how private landowner partnerships continue to drive conservation efforts within the upper Big Hole Watershed.

DNRC's collaboration with the BHWC on this project continues to demonstrate the importance of maintaining resiliency within the Big Hole Watershed for future generations. Partnerships with private landowners, state, and federal entities are critical to protecting Montana's precious natural resources such as the Big Hole River. I believe this proposed project will be extremely beneficial to the continued conservation and health of the Big Hole River.

Thank you for considering this proposal.

Sincerely,

*Matthew A. Norberg*

Matthew A. Norberg  
Hydrologist-DNRC Water Resources Division/Arctic Grayling CCAA

ADJUDICATION  
BUREAU  
(406) 444-0560

COMPACT  
IMPLEMENTATION  
PROGRAM  
(406) 444-5700

STATE WATER  
PROJECTS  
BUREAU  
(406) 444-6646

WATER  
MANAGEMENT  
BUREAU  
(406) 444-6637

WATER  
OPERATIONS  
BUREAU  
(406) 444-0860

WATER  
RIGHTS  
BUREAU  
(406) 444-6610