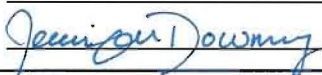
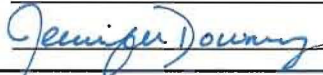


Project Title French Creek and Moose Creek Restoration

Project Sponsor Information

Name	<u>Big Hole Watershed Committee</u>	Tax Identification Number	<u>11-3737644</u>
Address	<u>PO Box 21</u>	Website	<u>http://bhwc.org</u>
City	<u>Divide</u>	State	<u>Montana</u>
		Zip Code	<u>59727</u>
		County	<u>Anaconda-Deer Lodge</u>
Primary Contact	<u>Jennifer Downing</u>	Signatory	<u>Jennifer Downing</u>
Title	<u>Executive Director</u>	Title	<u>Executive Director</u>
Phone Number	<u>406-960-4855</u>	Phone Number	<u>406-960-4855</u>
Fax Number	<u>na</u>	Fax Number	<u>na</u>
E-mail Address	<u>info@bhwc.org</u>	E-mail Address	<u>info@bhwc.org</u>
Signature		Signature	

Project Funding

319 Funds Requested	<u>\$294,000.00</u>
Matching Funds	
State Cash Match	<u>\$188,000.00</u>
Local Cash Match	<u></u>
In-Kind Match	<u>\$8,000.00</u>
Total Match	<u>\$196,000.00</u>
Other Federal Funds	<u>\$0.00</u>
Total Project Budget	<u>\$490,000.00</u>
Administrative Fee	<u>\$29,000.00</u>

Does the project sponsor have any open 319 contracts? Yes

Project Title California Creek Restoration Project

DEQ Contract Number 214009

319 Award \$126,400.00

Projected Closing Date September 30, 2016

Project Title

DEQ Contract Number

319 Award

Projected Closing Date

Nonpoint Source (NPS) Information

Functional Category	<u>Riparian Projects</u>
1st Pollution Category	<u>Resource Extraction (Placer Mining)</u>
2nd Pollution Category	<u>Hydromodification (Channel Erosion/Inc</u>
3rd Pollution Category	<u></u>
Waterbody Type	<u>River/Stream</u>

Project Location

Which WRP does this project implement? Middle-Lower Big Hole

What is the status of the WRP? DEQ Accepted

Does the project implement a TMDL? Yes

Watershed Name or HUC # Big Hole, 10020004

(1) Waterbody Name from 2014 List of Impaired Waters
French Creek (headwaters to mouth)

(1) Probable Cause(s) of Impairment
Arsenic, Copper, Sedimentation/Siltation

(2) Waterbody Name from 2014 List of Impaired Waters
Deep Creek (headwaters to mouth)

(2) Probable Cause(s) of Impairment
Alteration in Stream-Side or Littoral Veg., Sedimentation/Siltation

Activity 1 Name French Creek Restoration

Latitude (1) N 45.95592 Longitude (1) W 113.02242

Activity 2 Name Moose Creek Restoration

Latitude (2) N 45.951210 Longitude (2) W 113.042128

Project Description

Methods: Please describe the specific activities of this project.

Remove placer mining remnants, re-establish natural stream meanders, reconnect floodplain and wetlands to reduce sedimentation/siltation in French Creek and Moose Creek.

This project is part of a larger watershed improvement project, repairing damages to the public resources of the Mount Haggin Wildlife Management Area.

Objectives: Please describe the specific/measurable objectives that will ensure the achievement of the project goal(s).

Restore 3 miles of French Creek (French Creek>Deep Creek>Middle Big Hole River)

Restore 0.5 miles of Moose Creek (Moose Creek>French Creek)

Improve water quality by reducing sediment loading.

Overview: Please provide a brief background of the proposed project.

Moose Creek and French Creek are located on the state owned Mount Haggin Wildlife Management Area and in the Big Hole River watershed. This area was the first gold strike in the Big Hole Valley in 1860's, resulting in extensive mining activity as well as the community of French Gulch (now abandoned). The primary mining method was placer mining, leaving behind a straightened channel and spoil piles that cut the creeks off from their floodplain for 3.5 miles. The largest piles are in Moose Creek, while French Creek has smaller yet more extensive dredge piles. In addition, highway 569 (built 1940's) runs parallel to the creeks, further confining the floodplain. Highway 569 is slated for reconstruction, including re-route out of the floodplain, in the next few years. Montana Department of Transportation is aware of this project and prepared to work in partnership with Montana Fish, Wildlife and Parks.

This restoration project is part of a larger watershed improvement project to repair damage to public resources (state owned wildlife management area) and to improve water quality. In 2014, work began just upstream in California Creek in partnership with Montana FWP and Natural Resources Damages Program (NRDP) to repair mining related damages resulting from smelting and logging activities and to improve sediment/siltation for California Creek (California Creek>French Creek). This project is partially funded by Montana DEQ 319 funds.

French Creek is listed as an impaired water as a result of copper, arsenic, and sedimentation/siltation as a result of mining related activities. Downstream Deep Creek is also listed as an impaired water for sediment/siltation.

Through this watershed approach, BHWC is working with partners to address extensive sediment loading throughout the Deep Creek watershed. The Middle-Lower Big Hole River Watershed Restoration Plan identifies the French Creek area as a high priority for water quality and wetland improvements. In addition to water quality, this project will reconnect and restore fish habitat.

Monitoring: Please briefly describe the monitoring component of this proposal.

BHWC will create a Sampling Analysis Plan (SAP) to conduct monitoring for this project. Monitoring will be largely based on sediment load reduction estimated as a result of reconnection with the floodplain, reestablishment of wetlands, and other riparian improvements. Photos will be included. It may be appropriate to also include macroinvertebrate sampling, water quality, or other riparian measures related to water quality improvement and will be developed in the SAP. Physical measurements, including channel width

Education and Outreach: Please briefly describe the education and outreach component of this proposal and the target audience.

BHWC will have primary responsibility for ensuring outreach is conducted with the partners involved. BHWC has a track record of appropriate and established outreach that includes website, social media, newsletter, regular monthly meetings, and public tours of interest areas. The target audience includes residents of the Big Hole Valley, project partners, stakeholders in Big Hole River watershed health and of mining restoration. Everyone is welcome to participate. The above outlines the most likely interests.

Collaborative Effort: Please briefly describe project partners. Include other agencies, organizations and private citizens and their role in this project.

Partner	Role
Montana Fish, Wildlife and Parks	Landowner, Project Partner and Leader
Anaconda-Deer Lodge County	Project County
DEQ: Wetlands, Water Quality	Wetlands support, water quality improvement support, funder

Scope of Work- Outline

Task 1 Title French Gulch & Moose Creek Final Design and Restoration

319 Funds	\$250,000.00	Description A draft design and cost estimate was created in 2014 by Morrison-Maierle, Inc. that included LiDar mapping and Cultural inventory created in 2013. This task includes: 1. Final Design: Total cost \$81,500. DEQ319 request \$30,000. Completed in 2015. 2. Implementation: Total cost is \$1.75 million. DEQ 319 request \$220,000 (13% of total cost). The remaining fund sources are state and private funds. Implementation includes removal of placer and dredge piles, reconnect stream with floodplain, stream channel restoration, reinstate wetlands. Complete in 2016.
Non-Federal Match	\$186,000.00	
Other Federal Funds	\$0.00	
Total Cost	\$436,000.00	
Timeline	2015-2017	

Task 2 Title Education & Outreach

319 Funds	\$5,000.00	Description BHWC will publish content related to the project goals and scope, progress and results on the BHWC website, social media, and public media outlets. BWHC will include project in a BHWC newsletter. Project will be presented at a BHWC monthly meeting. A stakeholder tour of the project site will be offered.
Non-Federal Match	\$8,000.00	
Other Federal Funds	\$0.00	
Total Cost	\$13,000.00	
Timeline	2015-2017	

Task 3 Title Monitoring & Sampling Analysis Plan

319 Funds	\$10,000.00	Description Develop a sampling analysis plan for project monitoring specific to sediment loading reduction estimates. Monitoring could also include macroinvertebrate sampling, water quality, photos. Some pre-project monitoring for fish and macroinvertebrate was collected in 2014, as well as some additional information provided by the TMDL. Implement monitoring. Technical monitoring (bankfull, channel width, wetland delineation, etc.) has been measured by engineering company associated with the project and can be used in post project monitoring. In partnership with MFWP and the engineering company. Report results for final report.
Non-Federal Match	\$2,000.00	
Other Federal Funds	\$0.00	
Total Cost	\$12,000.00	
Timeline	2015-2017	

Task 4 Title Partner Coordination

319 Funds	\$5,000.00	Description This project will include coordination between partners involved in the project, most notably Montana Fish, Wildlife and Parks. In addition, communication will be important for area residents, Anaconda-Deer Lodge County,
Non-Federal Match	\$0.00	
Other Federal Funds	\$0.00	
Total Cost	\$5,000.00	
Timeline	2015-2017	

Task 5 Title Administration

319 Funds	\$29,000.00	Description BHWC will hold the 319 contract and provide administration duties for the contract. This includes tracking of work to contracted tasks to meet contract requirements, providing quarter and final reports, working with DEQ staff, and documenting expenses and match for the project.
Non-Federal Match	\$0.00	
Other Federal Funds	\$0.00	
Total Cost	\$29,000.00	
Timeline	2015-2017	

Task 6 Title

319 Funds

Non-Federal Match

Other Federal Funds

Total Cost

Timeline

Description

Task 7 Title

319 Funds

Non-Federal Match

Other Federal Funds

Total Cost

Timeline

Description

Task 8 Title

319 Funds

Non-Federal Match

Other Federal Funds

Total Cost

Timeline

Description

Task 9 Title

319 Funds

Non-Federal Match

Other Federal Funds

Total Cost

Timeline

Description

Comments: Please use the space provided for any additional information that may not have been captured by this application form.

The BHCW, established 1995, seeks understanding and agreement among individuals with diverse viewpoints on water use and management in the Big Hole watershed. Our education, planning, restoration, and partnerships work in Land Use Planning, Weeds, Wildlife, and Water Quality. We have implemented four DEQ contracts successfully since 2010, three of which were 319 contracts. We are experienced at operating state, federal, and private grants. Improving water quality is a top priority of the BHCW. We have two approved watershed restoration plans, operate an active drought management plan to maintain river flows and water temperatures, and have implemented many projects in education and outreach, on-the ground restoration, and partnerships.

BHCW and Jim Olsen, MFWP Fish Biologist work closely together on other projects including the Watershed Restoration Plans, Drought Management Plan, California Creek Restoration, French Gulch Restoration Project Planning and more. We have a long-standing track record of work and partnership and will gladly add this project to our partnership.