



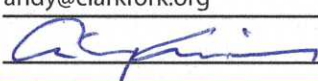
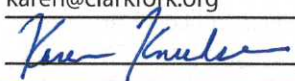
Section 319 Grant - Project Proposal

8/6/12

Project Proposals are due Friday July 27, 2012

Project Title Lost Horse Creek Streamflow Enhancement

Project Sponsor Information

Name	<u>Clark Fork Coalition</u>	Tax Identification Number	<u>36-3428665</u>
Address	<u>140 S. 4th St. W. #1/PO BOX 7593</u>	Website	<u>www.clarkfork.org</u>
City	<u>Missoula</u>	State	<u>Montana</u>
		Zip Code	<u>59807</u>
		County	<u>Missoula</u>
Primary Contact	<u>Andy Fischer</u>	Signatory	<u>Karen Knudsen</u>
Title	<u>Project Manager</u>	Title	<u>Executive Director</u>
Phone Number	<u>(406) 542-0539 x 210</u>	Phone Number	<u>(406) 542-0539 x203</u>
Fax Number	<u></u>	Fax Number	<u></u>
E-mail Address	<u>andy@clarkfork.org</u>	E-mail Address	<u>karen@clarkfork.org</u>
Signature		Signature	

Project Funding

319 Funds Requested	<u>\$110,000.00</u>
Matching Funds	
State Match	<u>\$100,000.00</u>
State In-Kind Match	<u></u>
Local Match	<u></u>
Other Match	<u>\$112,000.00</u>
Total Matching Funds	<u>\$212,000.00</u>
Other Federal Funds	<u></u>
Total Project Budget	<u>\$322,000.00</u>
Advance Requested*	<u></u>
Administrative Fee	<u></u>

*Advances require additional justification and DEQ approval.

Does the project sponsor have any open 319 contracts? Yes

Project Title Riparian and Flow Restoration Education

DEQ Contract Number 212064

319 Award \$20,000.00

Projected Closing Date December 31, 2013

Project Title Kids River Expo 2012

DEQ Contract Number n/a

319 Award \$2,000.00

Projected Closing Date December 31, 2012

Nonpoint Source (NPS) Information

319 Project Category	<u>Watershed Restoration</u>
Functional Category	<u>Watershed Management</u>
1st Pollution Category	<u>Hydromodification (Flow Regulation/Mc</u>
2nd Pollution Category	<u></u>
3rd Pollution Category	<u></u>
Waterbody Type	<u>River/Stream</u>
Is waterbody on the 2012 Impaired Waters List?	<u>Yes</u>

Project Location

Statewide ☐ *If project is not statewide, please complete the rest of this section.*

Does project implement a TMDL? Yes

Watershed Name or HUC # Lost Horse Creek

TMDL Planning Area Bitterroot Watershed

Project 1 Name Ward Irrigation District Siphon

Latitude (1) 46 6'53.23 N Longitude (1) 114 10'26.94 W

Project 2 Name

Latitude (2) Longitude (2)

Project 3 Name

Latitude (3) Longitude (3)

Project 4 Name

Latitude (4) Longitude (4)

Project Description

Methods: Please describe the specific activities of this project.

The project will enhance streamflows in Lost Horse Creek by 10 cfs through the construction of an irrigation structure improvement (siphon) by Ward Irrigation District. This change in their irrigation practice will rewater lower Lost Horse Creek and improve water quality.

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

The goal of the project is to improve streamflow in Lost Horse Creek, which will result in water quality improvements and improved fish recruitment and survival. In order to achieve this goal, the following objectives will need to be met:

- Work with the Ward Irrigation District to reach a formal minimum flow agreement.
- Complete final engineering and construct the irrigation siphon underneath Lost Horse Creek.
- Monitor instream flows to ensure that Ward Irrigation District is meeting the terms of their agreement.
- Conduct outreach with landowners and community members to educate and seek new partnerships in the watershed for projects.

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

Ward Irrigation District encompasses approximately 99 irrigators across 963 acres near Darby, MT. They rely on irrigation water from both the Bitterroot River and Lost Horse Creek. In order to convey water from their irrigation canal on the Bitterroot River, they must create an earth dam on Lost Horse Creek. This practice impedes all flow in Lost Horse Creek from joining the Bitterroot River. The Ward Irrigation District is interested in changing this method of managing their irrigation water by installing a siphon to transport their Bitterroot River water underneath Lost Horse Creek in a pipe. As a result, the District would be willing to leave a minimum of 10 cfs flowing below their diversion on Lost Horse Creek so that it could remain connected to the Bitterroot River (refer to the attached letter of intent). Lost Horse Creek has documented populations of bull trout, which are listed as a threatened species under the ESA. The primary impairment to this creek under the Bitterroot TMDL Plan is low flow alteration, which impact recreational uses of the creek and the Bitterroot River.

The Ward Irrigation District secured a project development grant through the DNRC in 2011 and completed initial designs for the project. The Clark Fork Coalition has been meeting with members of the District to discuss potential instream flow options for the project. An initial commitment was reached through a letter of intent to provide 10 cfs below their diversion if grant funds can be secured to build the project. Once grant commitments are secured the Coalition and District plan to enter into a formal water right diversion reduction agreement. This will require meetings and outreach with the District members to ensure their support of the project. In addition the Coalition will monitor flow in Lost Horse Creek before the project is constructed to better understand how much instream flow benefit will accrue from the project. The project is scheduled for construction during the winter of 2013/2014.

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

In order to ensure compliance with the terms of the diversion reduction agreement, flows will need to be monitored in Lost Horse Creek. This can be accomplished through the installation of a staff gage, automated gage and flow measurements below the diversion. The Clark Fork Coalition is experienced in measuring creek flows using USGS protocols and a variety of devices. By monitoring streamflow the Coalition would be able to inform Ward Irrigation District as to when they would need to reduce their diversion of Lost Horse Creek and by how much in order to sustain the fishery.

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

To achieve broad project support from both the water users and the larger community, education and outreach will need to occur to inform people of the benefits to both agriculture and the fishery. In order to build off the partnerships and success of this project it will be important the other water user groups are aware of the project and the host of benefits it provides. We also plan to engage landowners and citizens on the importance, role and mechanics of an instream flow project.

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

Partner	Role
Ward Irrigation District	Owner of the facility and manager of the irrigation infrastructure
Morrison Maierle	Preliminary engineering and project development
Trout Unlimited	Project supporter and advisor
Montana Fish Wildlife and Parks	Monitoring the fishery

Scope of Work- Outline

Task 1 Title Develop and Execute Instream Flow Agreement with Ward Irrigation District

319 Funds

Non-Federal Match

Other Federal Funds

Total Cost

Timeline January-October 2013

Description

An initial letter of intent to provide minimum flows of 10 cfs has been executed between the Coalition and the District (see attached). Further negotiations regarding the terms will need to occur before a formal diversion reduction agreement can be reached. It is anticipated that this flow agreement will be for the life of the project. In addition, further pre-project flow measurements will be taken to better understand the hydrology of the system and the projected benefits of the project.

Task 2 Title Final Engineering and Construction of Irrigation Siphon

319 Funds

Non-Federal Match

Other Federal Funds

Total Cost

Timeline July 2013-May 2014

Description

Once funding has been secured the project will go out to bid and proceed to final design and construction. We anticipate that the project could be constructed during one winter (2013/2014). An additional funding application has been submitted to the DNRC RRGL grant program for \$100,000 to support the construction and final engineering effort. We also plan to work with the District and Trout Unlimited to submit a \$100,000 FWP Future Fisheries grant application to support this construction effort.

Task 3 Title Monitor Instream Flows

319 Funds

Non-Federal Match

Other Federal Funds

Total Cost

Timeline 2014-2024

Description

The instream flow benefit is anticipated to accrue for the useful life of the siphon project (50-100 years). The Clark Fork Coalition proposes to monitor instream flows for the first 10 years of the project to set up the necessary flow monitoring triggers and protocols. At this point the granting agency could choose to have either Ward Irrigation District monitor flow or another 3rd party.

Task 4 Title Conduct Project Outreach and Education

319 Funds

Non-Federal Match

Other Federal Funds

Total Cost

Timeline 2013-2015

Description

We plan to work closely with landowners, the irrigation district, conservation district, state and government agencies to communicate the water quality and fishery benefits associated with this instream flow project. We also plan to engage and educate landowners and other citizens on the importance, role and mechanics of instream flow projects.

Task 5 Title Administration

319 Funds

Non-Federal Match

Other Federal Funds

Total Cost

Timeline _____

Description

Proper budgeting for administration costs will ensure that we have the necessary support to meet the terms of the grant and maintain proper accounting and reporting for the DEQ 319 program.

Task 6 Title _____

319 Funds

Description

Non-Federal Match

Other Federal Funds

Total Cost

Timeline _____

Task 7 Title _____

319 Funds

Description

Non-Federal Match

Other Federal Funds

Total Cost

Timeline _____

Task 8 Title _____

319 Funds

Description

Non-Federal Match

Other Federal Funds

Total Cost

Timeline _____

Task 9 Title _____

319 Funds

Description

Non-Federal Match

Other Federal Funds

Total Cost

Timeline _____

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

Please refer to the attached letter of intent, which demonstrates the commitment by the District to provide instream flows in Lost Horse Creek.