



**Cost-Share Proposal Form for NorthWestern Energy (NWE) Project 2188 TAC Funds**

Project 2188 (Madison-Missouri River) License Protection, Mitigation and Enhancement (PM&E) projects are required to offset impacts to river resources from the continued operation of one or more of NWE’s nine hydro developments (Hebgen, Madison, Hauser, Holter, Black Eagle, Rainbow, Cochrane, Ryan and Morony Dams). PM&E projects need to be prioritized toward in-river or on-the-ground measures that directly benefit fisheries and/or wildlife populations and their habitats:

**Priority 1:** 2188 License projects which meet License Article requirements and PM&E for fisheries or wildlife populations or their habitats within the main stem Madison River (Hebgen Reservoir to Three Forks) or Missouri River (Hauser Reservoir to Fort Peck Reservoir)

**Priority 2:** 2188 License projects which meet License Article requirements and PM&E for fisheries or wildlife populations or their habitats in primary tributaries or on adjacent lands and, in doing so, provide PM&E for Madison River (Hebgen Reservoir to Three Forks) or Missouri River (Hauser Reservoir to Fort Peck Reservoir) resources.

**Priority 3:** 2188 License PM&E projects which meet License Article requirements by providing scientific or other tangible PM&E benefits to Madison-Missouri River fisheries or wildlife populations or their habitats. These projects must be located in the greater Missouri River drainage upstream from Fort Peck Reservoir, but not necessarily located on the main stem Madison River or Missouri River or their adjacent lands or primary tributaries.

**All TAC project proposals must include the following information:**

Project Title: Grady Ranch Little Prickly Pear Creek Point of Diversion and Stream Restoration

Date:10/22/2021

Explain how this Project addresses a specific Project 2188 License Article(s):

Provide justification for Priority 1, 2 or 3 (above) that you selected: Priority 2: This project would restore and enhance bank stability along portions of approximately 900 feet of bank on Little Prickly Pear Creek, a major tributary to the Missouri River below Holter Dam. The project would directly enhance a portion of the Little Prickly Pear Creek fishery, above and below the project area, by reducing in-stream sedimentation from a displaced irrigation head gate and adjacent highly erosive stream banks.

Project Sponsor (submitted by): Montana Fish, Wildlife and Parks, Adam Strainer – Fisheries Biologist

Location of Proposed Project:  
Narrative

Geocode (in decimal degrees ex 46.89743) Lat; 46.78935 Long: , -112.40394

Total Project Cost: \$19,040

TAC Funds (Cost-Share) Requested for Project:\$15,640

I. Introduction; brief statement of project to be completed with pertinent background information.

The project is located approximately 7 miles upstream of Canyon Creek on Little Prickly Pear Creek on the Grady Ranch (Appendix A). The project will relocate an irrigation pipe and head gate, or point of diversion (POD), structure

approximately 250 feet upstream from its current location, install a rock weir at a new POD to prevent head cutting and restore/stabilize approximately 700 feet of bank near the new POD using root wads, tree revetments, willow clumps and a water gap.

Surveys and comparisons of past and current aerial photos by Allen McNeal of McNeal Resources indicate that a large volume of soil and streambank has eroded into the creek due to erosion caused by the current dislodged POD. The work will include removal of the current POD, relocation of the POD approximately 250 feet upstream, extending the irrigation ditch up-valley to the new POD location, installing a rock weir just downstream of the new POD location and adding root wads, tree revetments and willow clumps on highly erosive banks within the project area. Additionally, a water gap will be added at the lower end of the project area to keep livestock out of the project area.

II. Objectives; explicit statement(s) of what is intended to be accomplished.

Remove and reinstall an irrigation head gate and pipe, connect current irrigation ditch to new POD location and armor and stabilize highly erosive portions of the stream and stream bank (Appendix A & B). Meeting these objectives will decrease sedimentation in this portion of the stream corridor and benefit the fishery moving forward.

III. Methods; description of how Project objectives will be accomplished.

The current head gate and pipe will be reused at the new POD location. Excavation, hauling and labor will be completed by Stream Works Inc. Materials needed for the project (e.g. large rock for rock weir and large trees for revetments) will be provided in-kind by the landowner. Other specifics about the project (e.g. stream profile, cross section, etc.) can be found in the attachments B & C.

IV. Schedule; when the Project work will begin and end.

Late winter to early Summer 2022.

V. Personnel; who will do the work? Identify Project leader or principal investigator.

Adam Strainer (FWP Biologist) - Liaison between FWP, Northwestern Energy, the landowner and the consultant.

Allen McNeal (McNeal Resources) – Project Lead, Consultant

Stream Works Inc. – Construction

Todd Grady (Landowner) – In kind materials and water right change.

VI. Project budget must include amounts for the following:

<b>In-Kind Materials</b>			
<b>Material</b>	<b>Size</b>	<b>Quantity</b>	<b>Cost</b>
Large rocks (Grady Ranch)	1-3 ft. med. dia.	20 cubic yards	\$1,500
Large trees (Grady Ranch)	6-10 in. dbh	15-Oct	\$1,500
<b>Mobilize In-Kind Materials</b>			
<b>Machine</b>	<b>Cost per hour</b>	<b>Hours estimate</b>	<b>Cost</b>
Excavator	\$155	10	\$1,550
Dump truck (10 wheel)	\$85	10	\$850
<b>Head gate Installation/Ditch Lengthening/Stream Reconstruction (~100 ft.)</b>			
<b>Material/Machine/Cost</b>	<b>Cost per unit</b>	<b>Quantity</b>	<b>Cost</b>
Headwall materials	unk	unk	\$800

Excavator	\$155/hr	24	\$3,720
Track truck	\$90/hr	8	\$360
Labor	\$45/hr	16	\$720
<b>Stream Reconstruction near existing POD (~600 ft.)</b>			
<b>Material/Machine/Cost</b>	<b>Cost per unit</b>	<b>Quantity</b>	<b>Cost</b>
Excavator	\$155/hr	40	\$6,200
Track truck	\$90/hr	16	\$1,440
<b>Mobilization Cost</b>			\$2,000
<b>POD Water Right Change (Grady Ranch)</b>	\$400/change	1 (7; bundled)	\$400
<b>Total Cost Estimate</b>			\$19,040

**\*NorthWestern Energy TAC funds will not be used for agency overhead on projects that do not fund personnel. Applications for materials and equipment should not contain overhead.**

VII. Deliverables; describe work product (reports, habitat restoration, etc.) which will result from this Project. How will “success” for this project be monitored or demonstrated?

Deliverables will be a properly functioning stream and irrigation diversion structure. FWP will submit a report to Northwestern Energy documenting the project. Report will consist of a narrative description of activities accomplished and conditions before and after the project.

VIII. Cultural Resources. Cultural Resource Management (CRM) requirements for any activity related to this Project must be completed and documented to NWE as a condition of any TAC grant. TAC funds may not be used for any land-disturbing activity, or the modification, renovation, or removal of any buildings or structures until the CRM consultation process has been completed. Agency applicants must submit a copy of the proposed project to a designated Cultural Resource Specialist for their agency. Private parties or non-governmental organizations are encouraged to submit a copy of their proposed project to a CRM consultant they may have employed. Private parties and non-governmental organizations may also (contact the NWE representative for further information or assistance. Applications submitted without this section completed, will be held by the TAC, without any action, until the information has been submitted.

Summarize here how you will complete requirements for Cultural Resource Management:

Cultural Resource Management requirements will be completed by **XXXXXXXXXXXX** prior to the start of ground disturbance.

IX. Water Rights. For projects that involve development, restoration or enhancement of wetlands, please describe how the project will comply with the Montana DNRC’s “Guidance for Landowners and Practitioners Engaged in Stream and Wetland Restoration Activities”, issued by the Water Resources Division on 9 March 2016.

Summarize here how you will comply with Montana water rights laws, policies and guidelines:

A point of diversion water right change will need to be filed by the landowner no more than 60 days after the project is complete. Seven water rights are connected to the point of diversion and DNRC has agreed to “bundle” all water rights into one water right change, saving the landowner an estimated \$2,400.

In addition, Lewis and Clark County and FEMA have assured FWP that the project area does not require a no rise floodplain analysis and a 310 permit will be approved by the Lewis and Clark Co. Conservation District prior to the start of the project as this project came to fruition via a denied 310 Permit Application at this location.

All TAC Project proposals should be 7 pages or less and emailed (as a WORD file) to each of:

- [Andrew.Welch@NorthWestern.com](mailto:Andrew.Welch@NorthWestern.com)
- [Jon.Hanson@Northwestern.com](mailto:Jon.Hanson@Northwestern.com)
- [Grant.Grisak@Northwestern.com](mailto:Grant.Grisak@Northwestern.com)

Further questions about TAC proposals or Project 2188 license requirements or related issues may be addressed to:

**Andy Welch**

*Manager, Hydro License Compliance*

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