

19-07-Valley City Little Dam

Application Details

Funding Opportunity: 14877-Outdoor Heritage Fund May 2021 - Round 19
Funding Opportunity Due Date: Sep 2, 2021 11:59 PM
Program Area: Outdoor Heritage Fund
Status: Correcting
09/08/2021
Stage: Final Application
Initial Submit Date: Sep 1, 2021 4:56 PM
Initially Submitted By: Heather Manson
Last Submit Date:
Last Submitted By:

Contact Information

Primary Contact Information

Active User*: Yes
Type: External User
Name: Salutation Heather L Manson
First Name Middle Name Last Name
Title: Secretary/Treasurer
Email*: hmanson@barnescounty.us
Address*: PO Box 306

Valley City North Dakota 580720306
City State/Province Postal Code/Zip
Phone*: 701-845-8508 Ext.
Phone
###-####
Fax: ### ###-####
Comments:

Organization Information

Status*: Approved
Name*: Barnes County Water Resource District
Organization Type*: Political Subdivision
Tax Id:

Organization Website:

Address*: PO Box 306

Valley City North Dakota 58072-0306
City State/Province Postal Code/Zip

Phone*: 701-845-0683 Ext.
####

Fax: ### ### ####

Benefactor:

Vendor ID:

PeopleSoft Supplier ID: 0000042386

Comments:

Budget

Objective of Grant

Objective of Grant:

The objective of the project is to remediate an existing low head high hazard dam in Valley City. The existing dam will be replaced by a series of rock riffles which will eliminate the dangerous hydraulic roller conditions, improve fish passage and connectivity, and maintain an upstream pool.

Summary

Grant Request:	\$227,086.50
Matching Funds:	\$979,323.50
Total Project Costs:	\$1,206,410.00
You must have at least 25% match	
Percentage of Match:	81.18%

Project Expenses

Project Expense Description	OHF Request	Match Share (Cash)	Match Share (In-Kind)	Match Share (Indirect)	Other Project Sponsor's Share	Total Each Project Expense
Total Construction	\$127,215.00	\$84,810.00	\$0.00	\$0.00	\$636,075.00	\$848,100.00
Engineering - Design	\$11,400.00	\$7,600.00	\$0.00	\$0.00	\$57,000.00	\$76,000.00
Engineering - Construction	\$11,400.00	\$7,600.00	\$0.00	\$0.00	\$57,000.00	\$76,000.00
Engineering - Geotechnical	\$3,000.00	\$2,000.00	\$0.00	\$0.00	\$15,000.00	\$20,000.00
Contingencies	\$12,721.50	\$8,481.00	\$0.00	\$0.00	\$63,607.50	\$84,810.00
Administrative	\$450.00	\$50.00	\$0.00	\$0.00	\$0.00	\$500.00
Legal Expenses	\$18,000.00	\$2,000.00	\$0.00	\$0.00	\$0.00	\$20,000.00
Property Acquisition	\$14,400.00	\$1,600.00	\$0.00	\$0.00	\$0.00	\$16,000.00
Permitting	\$22,500.00	\$2,500.00	\$0.00	\$0.00	\$0.00	\$25,000.00
Survey Monumenting	\$4,500.00	\$3,000.00	\$0.00	\$0.00	\$22,500.00	\$30,000.00
Final Design Survey	\$1,500.00	\$1,000.00	\$0.00	\$0.00	\$7,500.00	\$10,000.00
	\$227,086.50	\$120,641.00	\$0.00	\$0.00	\$858,682.50	\$1,206,410.00

Budget Narrative

Budget Narrative:

A preliminary feasibility study was conducted to determine the most efficient way to address all project objectives. The selected alternative has been determined to be the most effective and efficient design that will address dam safety concerns while improving watercourse connectivity and fish passage. The Barnes County Water Resource District has also applied for 75% cost share for the NDDWR.

Bid Attachments

Description	File Name	Type	Size	Upload Date
No files attached.				

Match Funding

Match Amount	Funding Source	Match Type
\$858,682.50	North Dakota Department of Water Resources	Cash
\$120,641.00	Barnes County Water Resource District	Cash
\$979,323.50		

Description

Directives

- Major Directive*:** Directive A
Choose One
- Additional Directive:** Directive B, Directive C, Directive D
Choose All That Apply
- Type of Agency*:** Political Subdivision
Choose One

Abstract/Executive Summary

Abstract/Executive Summary*:

The Valley City Little Dam (Park Dam) is located on the main stem of the Sheyenne River in Valley City northwest of the intersection of Riverview Drive and 8th Avenue SW (Barnes County). The existing low head dam was originally constructed by the Civilian Conservation Corps (CCC) in 1937 and is currently owned by the Barnes County Water Resource District (The "District").

The existing dam was constructed by the Civilian Conservation Corps in 1937, most likely for recreation and water supply purposes. Over time, maintenance and repair projects have been completed to keep the Dam operational. The SWC has inspected the Dam numerous times over the last twenty years and recently inspections have identified issues with the abutments. The existing low head dam can produce a dangerous hydraulic roller that significantly increases risks to anglers and boaters and has resulted in two deaths in the past decade.

The District has investigated repair options and has completed a study of alternatives. The preferred alternative selected by the District includes removal of the dam and abutments, and construction of a series of rock riffles in the area of the of the existing dam footprint. This option will eliminate the dangerous hydraulic roller conditions, improve fish passage and river connectivity, and maintain a pool upstream of the structure to address geotechnical concerns relating to recent flood control projects.

Channel banks in the immediate project vicinity would be stabilized and restored with vegetation improving angler and boater access and safety in the area. Angler access will also be improved on the river bank immediately downstream of the last rock arch to allow anglers to take advantage of fish concentrating below the rock arches and in the zones of diverse current that are anticipated to develop in this area. Removal of the existing dam and replacement with rock arch weirs will significantly improve a number of other recreational opportunities at the facility. Shallow pools between the rock weirs will allow for portage and operation of canoes, kayaks, and boats between the upper and lower river stretches. Lower pool velocities and depths along the shorelines would provide for swimming and wading activities.

Project Duration

Project Duration*:

Once funding is secured final design will begin and be completed over the winter of 2021/2022. The project will be bid in Fall of 2022 and construction will occur over the Fall and Winter into 2023 with an expected completion of Spring 2023.

Narrative

Narrative

Briefly summarize your organization's history, mission, current programs and activities. Include an overview of your organizational structure, including board, staff and volunteer involvement.

Organization Information*:

The Barnes County Water Resource District is political subdivision that has been in existence for decades. The District is governed by a five member board of managers appointed by the Barnes County Commission. It has the responsibility within Barnes County to manage, conserve, protect, develop and control waters of the state for the benefit of the public. It is the policy of the District to provide management, conservation, protection, development and control of water resources, to work cooperatively with other resource agencies to strengthen and mutually support related programs, and protect and promote the health, safety and general welfare of the people of North Dakota.

The District manages a variety of programs including those related to drainage permits, legal drains, maintaining, protecting and controlling streamflow, protection and maintenance of water bodies, managing flooding issues, protection and maintenance of water quality and construction, operation and maintenance of a variety of dams.

The District has minimal staff. To accomplish program goals, the District retains professional services for legal and engineering needs when necessary.

The City of Valley City ("the City") is also a project stakeholder, though not as a direct project sponsor. The City may have operations and maintenance responsibilities and the completion of the Project is important in reducing risk of dam failure or breach that could result in impacts to the City's permanent flood risk reduction project.

Describe the proposed project identifying how the project will meet the specific directive(s) of the Outdoor Heritage Fund Program.

Identify project goals, strategies and benefits and your timetable for implementation. Include information about the need for the project and whether there is urgency for funding. Indicate if this is a new project or if it is replacing funding that is no longer available to your organization. Identify any innovative features or processes of your project.

Note: if your proposal provides funding to an individual, the names of the recipients must be reported to the Industrial Commission/Outdoor Heritage Fund. These names will be disclosed upon request.

If your project involves an extenuating circumstance to [exempted activities](#) please explain.

Purpose of Grant*:

The project objectives are closely aligned with the specific directives of the Outdoor Heritage Fund Program.

This is a new project and it will allow for upstream fish passage, improved river connectivity, and the rock riffles will improve fish habitat downstream. Angler

access will be enhanced by river bank stabilization, boulder walkways and a walking trail.

Removal of the existing dam and replacement with rock arch weirs will significantly improve various recreational opportunities at the facility. This will aid efforts to be completed by other entities to utilize the river for recreational purposes. Shallow pools between the rock weirs will allow for portage and operation of canoes, kayaks, and boats between the upper and lower river stretches. Lower pool velocities and depths along the shorelines would provide for swimming and wading activities.

The project will stabilize and establish vegetation at eroding river banks on both sides, improving water quality and plant and animal habitat.

Removal of the existing dam will also improve safety and liability exposure of the District by eliminating the existing hydraulic roller conditions. Fatalities have occurred at similar low level dams with hydraulic roller conditions, and as such there is an inherent urgency for funding and construction.

The District's engineers will also work with ND Game and Fish during design development to maintain a deeper pool area directly below the existing dam.

Please list the counties that would be impacted by this project:

Counties*: Barnes

Is This Project Part of a Comprehensive Conservation Plan?* No

If Yes, Please Provide Copy of Plan:

Does Your Project Involve an Extenuating Circumstance?* No

Please Explain:

Provide a description of how you will manage and oversee the project to ensure it is carried out on schedule and in a manner that best ensures its objectives will be met. Include a brief background and work experience for those managing the project.

Management of Project*:

Permitting, design and construction of the project would be managed by the Barnes County Water Resource District, utilizing the services of Moore Engineering, Inc. and Barr Engineering Co. These engineering firms have collaborated together on similar projects in the past that were completed on schedule and within scope and budget.

Indicate how the project will be funded or sustained in future years. Include information on the sustainability of this project after OHF funds have been expended and whether the sustainability will be in the form of ongoing management or additional funding from a different source.

Sustainability*:

Long term management and maintenance of the facility would be provided by the District and/or Valley City, with assistance of the noted engineering firms as required. The District and/or Valley City will fund future operations and maintenance of the project through their general fund and through cost share support from partnering agencies.

Indicate how the project will be affected if less funding is available than that requested.

Partial Funding*:

If funding other than from the Outdoor Heritage Fund is not obtained, the project may be delayed until such time that funding is secured and it is possible that the District may not be able to afford the project or would have to explore other funding options.

If you are a successful recipient of Outdoor Heritage Fund dollars, how would you recognize the Outdoor Heritage Fund partnership? * There must be signage at the location of the project acknowledging OHF funding when appropriate. If there are provisions in that contract that your organization is unable to meet, please indicate below what those provisions would be.

Partnership Recognition*:

The District will provide signage at the facility identifying the names of all the project sponsors. The project vicinity is noted for its fishing, hunting and outdoor recreation opportunities. The signage with the Outdoor Heritage Fund listed as a project sponsor will be viewed and appreciated by all who visit. The District would also orchestrate a media campaign centered around the project and the Outdoor Heritage Fund would be singled out as a primary partner in the project.

Do you have any supporting documents, such as maps or letters of support that you would like to provide? If so, please provide them in a single file.

Supporting Documents*: Yes

If Yes, Please Provide Copies in a Single [ValleyCity_ParkDam_LocationMap.pdf](#)

File:

Awarding of Grants - Review the appropriate sample contract for your organization. [Sample Contract](#)

Can You Meet All the Provisions of the Sample Contract?* Yes

If there are provisions in that contract that your organization is unable to meet, please indicate below what those provisions would be:

Provisions Unable to Meet:

Tasks

Tasks

Task	Start Date	Completion Date
Construction	09/01/2022	04/01/2023
Final Desgin	11/01/2021	05/01/2022
Project Closeout	04/01/2023	05/01/2023
Public Bid	06/01/2022	08/01/2022

Description of Tasks

Please Describe Tasks:

Additional tasks during final development and constructions of the project will include the acquisition of any necessary right of way and/or easements, applying for and receiving any required permits, and coordinating any necessary utility relocations which will occur during final design. Construction of the project will include developing all required bidding documents, advertising for bid, awarding the contract, and constructing the project.

Deliverables

Deliverables

Deliverable	Quantity	Unit of Measurement, if applicable
Completion Report	1.000	Each
Expenditure Reports	12.000	Each
Post-construction activity Reports	12.000	Each
Progress Reporting	12.000	Each

Certification

Certification

Certification: Yes

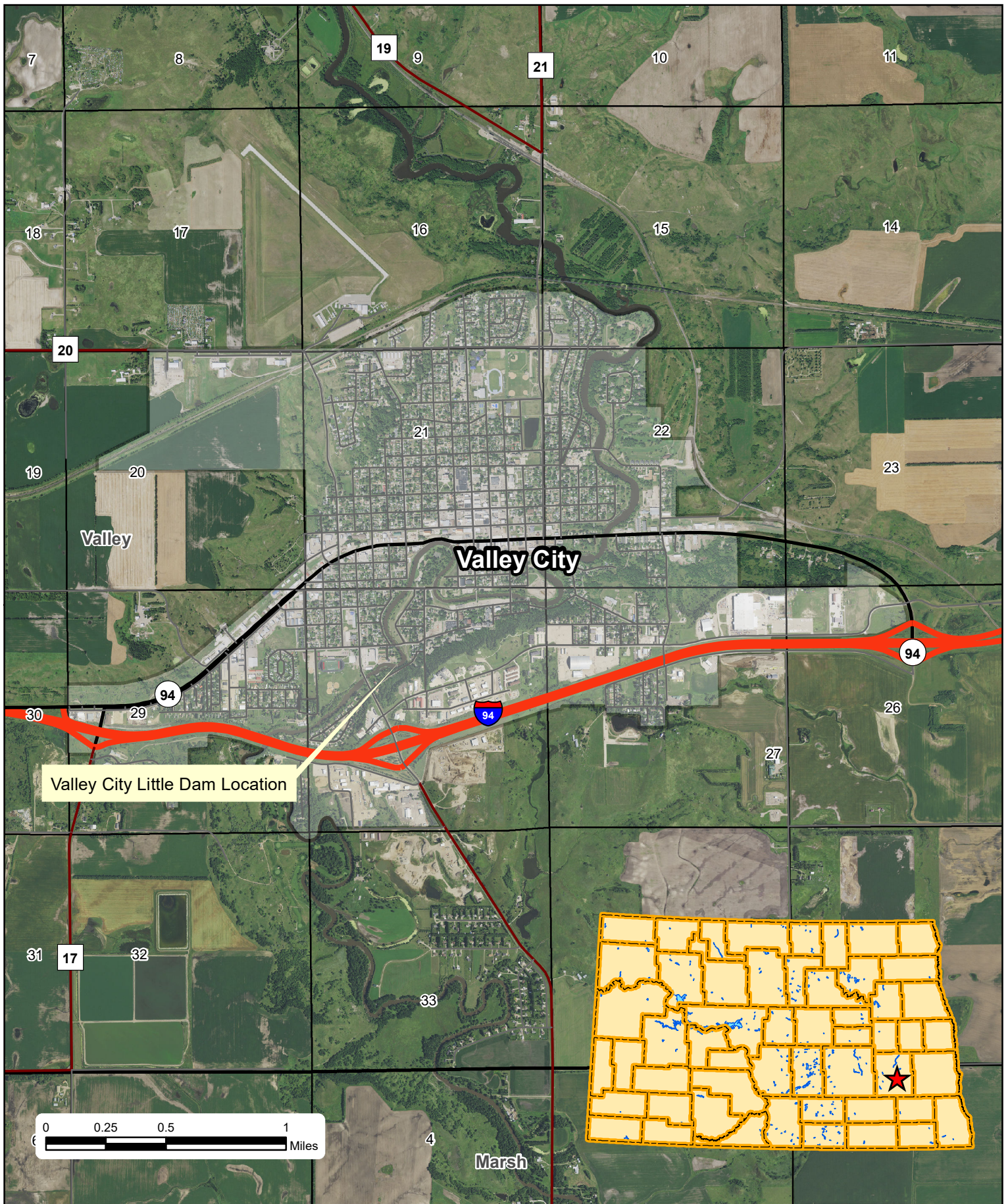
Name: Heather Manson
First Name Last Name

Title: District Secretary/Treasurer
Title

Date: 09/01/2021

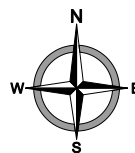
Internal Application Number

#ID:



Valley City Little Dam Location
Barnes County Water Resource District
Barnes County, North Dakota

Created By: AKS Date Created: 8/5/2021 Date Saved: 08/05/21 Date Plotted: NEVER Date Exported: 08/05/21
 Plotted By: andrew.smith Parcel Date: XX/XX/20 Aerial Image: 2019 County NAIP SIDS Elevation Data: Lidar
 Horizontal Datum: NAD 1983 UTM Zone 14N Vertical Datum: NAVD1988
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moore
 engineering, inc.