

Instructions

Please download this Word document (available on the Industrial Commission/Outdoor Heritage Fund Program website at <http://www.nd.gov/ndic/outdoor-infopage.htm>) to your computer and provide the information as requested. You are not limited to the spacing provided. After completing the report, save it and attach it to an e-mail and send it to outdoorheritage@nd.gov AND print it and mail it to: North Dakota Industrial Commission, ATTN: Outdoor Heritage Fund Program, State Capitol – Fourteenth Floor, 600 East Boulevard Ave. Dept. 405, Bismarck, ND 58505. If you are unable to scan attachments, mail them with your paper copy of the report. You will be sent a confirmation by e-mail of receipt of your report and attachments. The project reports shall be provided to the Commission in both electronic and hard-copy formats with permission for unrestricted distribution. The electronic versions shall be in a suitable format for posting on the Outdoor Heritage Fund/Commission website.

Outdoor Heritage Fund Status and Final Report Form/Guidelines

This report is used to show progress of grant projects funded through the Outdoor Heritage Fund. Status Reports and the Final Report must be submitted as required in Contract.

Contract Number 014-156	Report Date 11/30/2021	Period Covered by Report 7/1/2021-11/30/2021
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Project Name
Natural Resource Stewardship in North Dakota's Parks, Preserves and Natural Areas II

Project Sponsor Name
North Dakota Parks and Recreation

Responsible Official (Last, First Middle) Cody Schultz	Responsible Official's Title Director
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Project Sponsor Address
1600 East Century Ave.

City Bismarck	State ND	Zip Code 58503	Telephone Number 701-328-5357
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Financial Update

Please provide the following information regarding the funding for your project based on the contract award:

	Funds Spent THIS Reporting Period*	Total Funds Spent to Date	Balance of Remaining Funds
Match Funding		\$11,620.99	\$(521.99)
In-kind Funding	\$3,780.00	\$20,560.62	\$2,439.38
Sponsor Funding		\$3,968.66	\$31.14
OHF Funding		\$40,106.49	\$68,573.51
Total	\$3,780.00	\$72,256.76	\$70,522.04

Do you anticipate needing to request a grant extension? /_/ Yes /x/ No

If yes, please explain:

*As appropriate please provide copies of receipts for purchases.

Work Completed during Period Covered by Report:
(This information will be posted on the Outdoor Heritage Fund/Industrial Commission website)

See Attached PDF Status Report and Invoices

Natural Resource Stewardship in North Dakota's Parks, Preserves and Natural Areas II

Status Report 5 for:

Work Completed during Period Covered by Report: July 1, 2021 - November 30, 2021

Photos of work completed are welcome (If appropriate, please submit photos of key elements of the project completed or in progress during reporting period) Do not exceed five photos per project report.

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Signature of Responsible Official



Resource Stewardship in North Dakota's Parks, Preserves and Natural Areas II

Work Completed during Period Covered by Report: July 1, 2021 – November 30, 2021

Project Goals

1. Conserve and enhance existing native and restored prairies, woodlands, and tree and shrub plantings within parklands, preserves, and natural areas to maximize the biodiversity of plant and animal species and provide healthy ecosystems.
2. Successfully manage trees and shrub plantings within parks, preserves, recreational, interpretive, and natural areas to provide safe and enjoyable experiences for park visitors.

Measurable Objectives-Results

1. Within four years, increase and enhance **native prairie restoration** acres on parklands, preserves, and natural areas through high diversity native seed mixture obtained from local seed sources.
2. Within four years, increase the percent species composition of native grasses and forbs on prairie restoration sites as determined through systematic monitoring and recorded in restoration plans.
3. Within four years, decrease the percent species composition of noxious and invasive species within prairie restorations as determined through systematic monitoring and recorded in restoration plans.
4. Within four years, increase **woodland habitat and tree and shrub planting** acres on parklands, preserves, and natural areas by creating a mosaic of woodlands by planting a diverse selection of native trees and shrubs. Maintain a 75% survivability rate.
5. Within four years, decrease noxious weeds and invasive species within tree and shrub planting in parklands, preserves, and natural areas through chemical, mulch, and mechanical removal strategies.
6. Within four years, tree and shrub planting protection is increased through tree wrapping, bark protectors, mulching, and fencing.
7. Within four years, strengthen **tree risk management program** to include annual assessments, recommendations for appropriate actions, and funding for remedial actions within a timely manner to ensure safe and healthy tree plantings and woodlands within high-use areas.

Tasks Completed July 1-November 30, 2020

Proper restoration maintenance will allow the prairie restoration sites to flourish productively and sustainably. Vigilant noxious and invasive species control and eradication are paramount to both the immediate and long-term health and success of each restoration site. Summer–fall maintenance strategies include noxious weed control by implementing mechanical and chemical strategies and inter-seeding native forbs and grasses. Site assessments are completed each growing season. Post field season, all restoration plans and budgets are updated, and 2021 management actions are identified.

Table 1 2021 Restoration Expenses and Tasks July 1-November 30, 2021*

Prairie Restoration Expenses/Tasks	Expenses
Monitoring & (approx. 20 hours.)*	\$532.90
Noxious and Invasive Species Control (approx. 59 hours)*	\$1586.92
Noxious Weed Control Chemical (Milestone & Perspective herbicide)	\$220.34
TOTALS	\$2,340.16

*Tasks completed by Natural Resources Division staff



Figure 1 Fort Ransom State Park - Wet Meadow Restoration

Tree and Shrub Plantings Strategies and Best Management Practices

Department staff and volunteers continued the multi-site, long-term, collaborative project with a specific goal to enhance existing trees and shrubs vegetation habitat acres, and biodiversity on parklands, preserves, and natural areas. The project aims to improve the existing mosaic of tree and shrub complex habitats by planting a diverse selection of native trees and shrubs.

The diverse plantings of trees and shrubs will provide food, living space, cover various wildlife species, and greatly enhance the visitor experience.



Figure 2 University of Mary Volunteers - Installation of Deer Fence at FALSP

During July-October, trees and shrubs are mulched, staked if needed, watered, and weeds controlled mechanically, manually, and with chemicals. In the fall of the year, bark protectors and deer fences are installed. The majority of the tree and shrub maintenance tasks are completed by seasonal park staff, including weeding, mulching, installing bark protectors, guards, and deer fences. Over 60 University of Mary students volunteered with deer fence installation at Fort Abraham Lincoln State Park.

Deer fencing has proven to be an effective means to protect trees and shrubs from deer browsing.



Figure 3 University of Mary Volunteers - Installation of Deer Fence

Level 1 Limited Visual Tree Risk Assessment (ANSI A300 Standard) is an ongoing task within all state park campgrounds. The Limited Visual assessment involves systematically evaluating trees in designated areas to identify high and extreme risk trees. Assessment includes GIS Collector data and mapping technologies. Tree risk mitigation reports and maps aid park staff in implementing mitigation efforts such as removing and pruning high-risk trees.



Figure 4 Lake Sakakawea State Park Level 1 Limited Visual Tree RiskAssessment GIS Collector Data

Natural Resources Division staff assist park staff in tree risk assessments and mitigation measures. Over 3,067 trees in 9 state parks were assessed for potential failure, with trees identified as requiring removal mitigation. Tree Risk Assessment Reports will be generated, which will advise park staff on appropriate mitigation measures.

Table 2 Tree planting and maintenance July 1 – November 30, 2021

Tree Planting and Maintenance Expenses & Tasks	In-Kind Expenses
Deer Fence Installation (approx. 4 hours X 63 Volunteers)	\$3,780.00
TOTALS	\$3,780.00

Table 2 Proposed expenses and matches 2019-2023

Project Expense	OHF Request	Applicant's Match Share (Cash)	Applicant's Match Share (In-Kind)	Applicant's Match Share (Indirect)	Other Project Sponsor's Share	Total Each Project Expense
Native Prairie Restoration & Enhancements: Native forb and grass seed	\$25,000.00	\$3,000.00	\$8,000.00	\$0.00	\$0.00	\$36,000.00
Tree and shrub Planting Enhancements: Tree and shrub stock	\$60,000.00	\$5,000.00	\$9,000.00 ⁵	\$0.00	\$4,000.00	\$78,000.00
Tree and shrub Planting Enhancements Deer fence and rebar posts	\$4,500.00	\$1,000.00	\$0.00	\$0.00	\$0.00	\$5,500.00
Tree and shrub Planting Enhancements Mulch. tubes stakes	\$4,180.00	\$100.00	\$0.00	\$0.00	\$0.00	\$4,280.00
Native Prairie Restorations & Enhancements: Chemical for restorations	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00	\$2,000.00
Hazardous Tree removal services	\$15,000.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$21,000.00
Total Costs	\$108,680.00	\$11,100.00	\$23,000.00	\$0.00	\$4,000.00	\$146,780.00

Table 3 Expenses and Matches July 1 - November 30, 2021

Project Task Expenses	OHF Request	Applicant's Match Share (Cash)	Applicant's Match Share (In-Kind)	Applicant's Match Share (Indirect)	Other Project Sponsor's Share	Total Each Project Expense
Native Prairie Restoration & Enhancements: Native forb and grass seed- Monitoring Tree and shrub Planting Enhancements/Assessment: Tree and shrub stock						
Tree and shrub Planting Enhancements: Deer fence installation			\$3,780.00 ¹			
Tree and shrub Planting Enhancements tubes, stakes, guards						
Tree and shrub Planting Enhancements mulch						
Native Prairie Restorations & Enhancements Chemical for restorations						
Tree Risk and Tree Planting Assessments & Mitigation						
Native Prairie Restorations & Enhancements Contracted/Equipment Rental Services						
Total Costs			\$3,307.50			

¹Labor deer fence installation –63 Volunteers –4 hours @ \$15.00/hr. = \$3,780.00

Table 3 Budget Detail July 1-November 30, 2021

Vendor	OHF Request	Applicant's Match Share (Cash)	Applicant's Match Share (In-Kind)	Applicant's Match Share (Indirect)	Other Project Sponsor's Share	Total Each Project Expense
ND Parks and Recreation Natural Resources Staff- <i>Restoration Monitoring</i>						
ND Parks and Recreation Natural Resources Staff- Monitoring						
ND Parks and Recreation Natural Resources Staff- Tree Assessments						
ND Parks and Recreation Volunteer Staff <i>Deer Fence Installation</i>			\$3,780.00 ¹			
Total Costs			\$3,780.00			\$3,780.00

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Signature of Responsible Official

A handwritten signature in black ink, reading "Kathy Dattenhefner", is written over a light gray grid background.