21-03 - Urban Woods and Prairies: Urban Pollinator Plots Project

Application Details

Funding Opportunity:	21075-Outdoor Heritage Fund September 2022 - Round 21
Funding Opportunity Due Date:	Sep 2, 2022 5:00 PM
Program Area:	Outdoor Heritage Fund
Status:	Submitted
Stage:	Final Application
Initial Submit Date:	Aug 31, 2022 9:04 AM
Initially Submitted By:	Sarah Hewitt
Last Submit Date:	
Last Submitted By:	

Contact Information

Primary Contact Information

Active User*:	Yes
Type:	External User
Name:	Salutation Sarah First Name Middle Name Hewitt Last Name
Title:	Director of Conservation
Email*:	sarah.hewitt@audubon.org
Address*:	3002 Fiechtner Drive Suite A Audubon Dakota Fargo North Dakota 58103 City State/Province Postal Code/Zip
Phone*:	(701) 298-3373 Ext. Phone ###-###-####
Fax:	###-###-####
Comments:	

Organization Information

Status*:	Approved
Name*:	Audubon Dakota
Organization Type*:	In-State Non-Profit
Tax Id:	Audubon Dakota
Organization Website:	
Address*:	2315 University Drive N

Ste. 15

Fargo North Dakota 58102-____
City State/Province Postal Code/Zip

Phone*: (701) 298-3373 Ext.
###-###-####

Fax: ###-###-####

Budget

Objective of Grant

Objective of Grant:

The Urban Pollinator Plots Project will increase native urban landscapes that are beneficial to pollinators while simultaneously reducing input costs and increasing community awareness of pollinator and grassland conservation needs.

Summary

Grant Request:	$142,058.00
Matching Funds:	$54,996.00
Total Project Costs:	$197,054.00

You must have at least 25%match

Percentage of Match:	27.91%

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
Site Preparation	$0.00	$0.00	$0.00	$0.00	$19,500.00	$24,500.00
Seed Mix	$29,375.00	$0.00	$0.00	$0.00	$10,000.00	$39,375.00
Seeding Labor	$7,500.00	$0.00	$0.00	$0.00	$0.00	$7,500.00
Land Management (3 years)	$75,000.00	$0.00	$0.00	$0.00	$0.00	$75,000.00
Education Supplies	$5,000.00	$0.00	$0.00	$0.00	$0.00	$5,000.00
Audubon Staff	$12,269.00	$0.00	$5,000.00	$0.00	$0.00	$17,269.00
Subgrant - NDSU Education	$12,914.00	$0.00	$0.00	$0.00	$0.00	$12,914.00
Indirect	$0.00	$0.00	$0.00	$20,496.00	$0.00	$20,496.00
	$142,058.00	**$0.00**	**$5,000.00**	**$20,496.00**	**$29,500.00**	**$202,054.00**

Budget Narrative

Budget Narrative:

50 acres will be restored between the six new pollinator prairie plantings. Bids were obtained from Minnesota Native Landscapes for high diversity pollinator plant seed mixes, labor and land management. Bid document is attached. The seed mix estimate is $787/ac. Thus across 50 acres, the total seed mix costs is estimated at $39,375, of which $10,000 will be paid by cash match from the Fargo Park District and the remaining $29,375 will be covered by the grant award. Estimates for site preparation, seeding labor, and land management for 3 years were provided by Minnesota Native Landscapes at $19,500, $7,500, and $75,000, respectively. The Fargo Park District will commit to completing the site preparation, thus committing $19,500 of in-kind match. Educational supplies such as printed materials (prairie plant/pollinator pamphlets, UWP site map brochures, etc.), plant ID books, and seed packets will be purchased with OHF grant funding, for a total of $5,000 over the project period. NDSU will be responsible for planning and executing the educational components of the project, thus a subgrant to NDSU will be provided at the amount of $12,914. To administer and manage the project, $12,269 is requested for Audubon staff support, $9,438 for salary and $2,831 for fringe. Audubon is committing in-kind match of $5,000 through volunteer time to plan and implement educational events at the established Urban Woods and Prairies Initiative sites and the new Urban Pollinator Plots Audubon is committing all associated indirect costs (at 24.66% NICRA) of $20,496 as indirect match.

Bid Attachments

Description	File Name	Type	Size	Upload Date
MNL Project Bid	MNL Quote City of Fargo Retention Area Prairie Conversion 4.pdf	pdf	2 MB	08/25/2022 02:34 PM

Match Funding

Match Amount	Funding Source	Match Type
$5,000.00	Audubon Dakota	In-Kind
$20,496.00	Audubon Dakota	Indirect
$19,500.00	Fargo Park District	In-Kind
$10,000.00	Fargo Park District	Cash
$54,996.00		

Description

Directives

Major Directive*: Directive D
Choose One

Additional Directive: Directive B,Directive C
Choose All That Apply

Type of Agency*: Tax-exempt, nonprofit corporation
Choose One

Abstract/Executive Summary

Abstract/Executive Summary*:

Audubon Dakota, North Dakota State University, and Fargo Parks District are seeking support from the Outdoor Heritage Fund in the amount of $142,058 to establish and restore prairie throughout the city of Fargo. Following the ongoing success of the UWP Initiative, this collaborative team plans to establish > 50 acres of high diversity, forb-rich, native prairie plantings on urban parklands. This will beautify the city, improving lives for community members, while addressing conservation and education issues that are important to the state and our natural resources. Project partners have identified six sites comprising approximately 50 acres across the city of Fargo. The conversion of these areas will improve our environment by restoring ecological services such as pollination to urban gardens and surrounding natural areas, carbon sequestration, soil stability, flood resiliency, while also reducing the cost of long-term maintenance (equipment, labor). It has been reported that costs to maintain turfed areas in urban parks can cost $350 per year/ac. to maintain while establishing perennial cover costs as little as $40 per year/ac. Furthermore, these areas will bring aesthetic beauty to our parks and community, bring public awareness to conservation issues associated with native grasslands and pollinators, and create habitat for native organisms such as birds and pollinators. Creating and maintaining native prairies within Fargo will provide opportunities to engage the community through environmental education and nature-based outreach events. It will also inspire and grow public understanding of the importance of native grasslands and the current conservation issues associated with native pollinators. Additionally, project partners will host volunteer opportunities to manage pollinator prairies through invasive species removal, prescribed fire, seed harvesting, and pollinator and bird identification walks. Audubon Dakota, Fargo Parks District, Cass County Soil Conservation District, and North Dakota State University will collaboratively strategize, implement and maintain these areas ensuring that they are vibrant and successful. Selected sites will have educational interpretive signage and links to our partners websites that provide information and facts about prairies and other natural ecosystems. Also, these sites will provide educational opportunities for local schools, 4H groups, and other local entities. Moreover, natural areas within cities have proven effects on the social well-being of communities with known positive effects on community engagement and increased mental health. Collectively, these benefits coupled with beautification of our parks and increased native habitat will improve the Fargo community as a whole.

Project Duration

Project Duration*:

10/1/22-9/30/27. The Fargo Parks District has identified approximately 50 acres of land across six different parks to create native prairies. The current project is projected to take 5 years to successfully establish these sites. Year one will focus on site prep, year two will focus on seeding and establishing sites, and years three through five will be devoted to site maintenance and outreach activities.

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*:

Audubon Dakota is the state office of the National Audubon Society serving ND/SD. Currently, Audubon Dakota has helped conserve over 350,000 acres in the Dakotas through various programs focusing on the conservation priority strategies of Working Lands and Bird Friendly Communities. Working Lands programs include the Outdoor Heritage Fund supported Prairie Management Toolboxes and Conservation Forage Program. The state office has eight full time staff members for the two-state region (North and South Dakota) and an Advisory Board comprised of eight North Dakota citizens. Through multiple annual volunteer events focused on stewardship and education, Audubon Dakota organizes nearly 50 volunteers each year and engages 30,000 people. The Rangeland Wildlife Habitat Lab is part of the Range Science Program in the School of Natural Resource Sciences at NDSU. The lab is led by CO-PI Dr. Torre Hovick with assistance from Evalynn Trumbo. The lab has graduated 9 graduate students over the last seven years and currently has an additional six graduate students that focus on issues associated with rangeland wildlife and improving habitat to restore their populations. The lab actively engages in community outreach through field days, public presentations, and volunteer events with the overall goal of increasing the understanding and awareness of conservation issues of importance to ND. Fargo Parks District operates and maintains a comprehensive park system of 150 parks containing 105 miles of paths and trails throughout the Fargo Community. The Park District has a dedicated full-time staff of 50 employees and several hundred seasonal employees that maintain the parks and facilities. Annually, thousands of volunteers are given opportunities to give back to the community through several different community projects such as Reforest the Red. The mission of the Fargo Park District is to improve the lifestyle of the community through a comprehensive system of parks and programs.

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 Urban Pollinator Plot Project will establish native prairie plantings within small (< 25 ac) idle edges and levee perimeters of Fargo urban parks.

Currently, these areas, while modest in acreage, take an exorbitant amount of resources to maintain and would better serve the community by establishing areas that beautify and educate the community while providing ecosystem services with minimal maintenance. Careful consideration will be given to the areas selected to ensure a proper balance of the property as a whole and the current and future use for the citizens of Fargo. The establishment of native vegetation provides a variety of ecological services that are lacking in traditional turf grass regimes. Native plants have extensive root systems that help increase water quality and bank stabilization, decrease soil erosion, and sequester carbon while also requiring little maintenance. Additionally, sites will provide adequate prairie habitat to support pollinators such as the Monarch Butterfly and many native bee species throughout Fargo. These urban prairies will also provide shelter or stopover habitat for breeding and migratory birds (including our state bird, the Western Meadowlark) throughout the growing season and opportunities for countless Fargo citizens to observe natural areas in close proximity to where they live that may otherwise be unattainable. This project will directly address OHF directives B, C, and D. Through the establishment of native, perennial vegetation at Fargo parks, this project will help improve flood retention, water infiltration, carbon sequestration (both as a consequence of reduced mowing and increased sequestration by prairie plants), and plant and animal diversity. This project will also establish and enhance wildlife habitat on public lands through the creation and maintenance of native prairie with high floral diversity that can benefit pollinators. Finally, this project will create public areas that can be used for recreation and education that will provide opportunities for the citizens of Fargo. Audubon and partners will work with local contractors to install native vegetation through seeding and maintenance of each site including herbicide application to turf grass and prescribed burning. Responsibility of the maintenance will be turned over to the landowner after successful establishment of prairie plantings in each of these sites. Audubon Dakota, Fargo Parks, and NDSU will create a management toolbox for the partners to outline future management goals and objectives of the sites and highlight appropriate management practices while still allowing for adaptive management. Additionally, our goal is to provide the community with information about why native prairie restoration is critical and urgent for our environment and the benefits of a diverse green infrastructure. Urban prairies will provide an opportunity to educate members of the public that may not normally experience native prairie in their day-to-day lives. Educating the public can then in turn promote public support for more conservation-minded initiatives that incorporate ecosystem services (i.e., pollination, stormwater retention and water filtration) returning the benefit of this initiative back to the public. Additionally, this project includes sites that are already managed under the Urban Woods and Prairie Initiative or owned by the Fargo Parks District. Implementing educational signage and outreach programs oriented around prairie pockets will further enrich the lives of people visiting these areas or parks.

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

Counties*: Cass

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*:

Sarah Hewitt, Audubon Dakota?s Director of Conservation has been with Audubon Dakota for 7 years, and has had technical training in grassland restoration and management in North Dakota, South Dakota, and Minnesota through North Dakota State University and the U.S. Fish and Wildlife Service. Torre Hovick, associate professor of Rangeland Ecology, North Dakota State University. Torre will oversee planting, monitoring, and outreach associated with prairie planting. He has experience managing all aspects of grants including budgets, personnel, implementation, and data collection. He specializes in pollinator ecology, avian ecology, and grassland restoration. Evalynn Trumbo, Research Specialist, North Dakota State University. Evalynn will contribute to site establishment, monitoring and maintenance, and outreach. She has over 5 years of experience in a combination of avian and insect ecology, outreach and education, and wildlife habitat management. Sam DeMarais, Park Forester for Fargo Parks District has maintained his position for over 10 years. Sam will work directly with collaborators to delineate sites, manage implementation of site prep, oversee seeding, and will work with interns hired by Fargo Parks to monitor the sites in years 2-7.

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*:

Funding from the ND Outdoor Heritage Fund will support the seed costs, seeding labor, and management of the selected sites. Audubon Dakota, NDSU, Fargo Parks District will be responsible for preparing each restoration site under the guidance of the hired contractor, which will include a combination of mowing, light tilling, and herbicide application for prairie restoration. After restoration establishment, the native vegetation will require less overall maintenance work than what is currently spent on these areas (mowing hours, staffing, fuel, etc.) which has proven to be extremely cost efficient for landowning partners. Audubon Dakota, having a vested interest in the continuance of habitat on these sites, will also take on financial and management responsibility to ensure its sustainability for many years to come. In addition to strictly financial funding, Audubon Dakota, NDSU and the Fargo Park District will promote the use of the areas for outdoor recreation and education. This will help gain public favor of the areas and help assure the sustainability of these sites through general community approval. Audubon Dakota will also take on administrative tasks such as scheduling contracted management work to ensure the project is completed in a timely manner. Additionally, Fargo

Parks plans to work with NDSU to create 2-4 internship on an annual basis to help monitor and maintain the urban prairie plots.

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

Partial Funding*:

If partially funded, financial burden of this project would be shifted more heavily onto Audubon Dakota and landowning partners. Largely, this would translate to only being able to restore a limited number of sites. Audubon Dakota will seek funding from sources outside of OHF to aid in the Urban Prairie Plot Project.

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*:

- OHF logo on signage - OHF logo in presentations and pamphlet/circular materials - OHF acknowledgment in any meetings pertaining to prairie restoration at these sites

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 File: Maps Support Letters - Audubon UWP Pollinator Plot Project.pdf

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
First Year Land Management	05/01/2023	10/31/2023
Identify and plant pilot sites	11/01/2022	09/30/2023
Land Management of Each Site	01/01/2024	09/30/2027

Description of Tasks

Please Describe Tasks:

1. Identify areas of the Fargo Park District jurisdiction and public property that can be converted to prairie. Sites: Mickelson Park, N. Softball Complex, Eagle Valley Park, Golden Valley Park, Forest River, Orchard Glen 2. First year land management. Conduct mowing and invasive species removal. 3. Active site management to control invasive species and ensure native plant communities thrive. Sites may be managed through a controlled burn to naturally rejuvenate plant communities.

Deliverables

Deliverables

Deliverable	Quantity	Unit of Measurement, if applicable
Plant urban pollinator plots	50	acres

Certification

Certification

Certification: Yes

Name: Sarah Hewitt
First Name Last Name

Title: Director of Conservation
Title

Date: 08/30/2022

Internal Application Number

#/ID: 21-03

MNL
P.O. Box 1027 Hawley, MN 56549
Phone: 218-498-0260 Fax: 218-498-2862
Cell: 612-708-4057 email: Blaine.Keller@MNLcorp.com

JOB QUOTATION

Landowner: City of Fargo
Attn: Sam DeMarais
Location: Mickelson Fields, North Complex, Sports Complex 2, Eagle Valley Pond, Golden Valley, Golden Valley Pond, Rose Creek, Orchard Glen North (±50 Acres)
Activity: Native Upland Landscape Installation
Date: 5/12/2022

Item	Category	Description	Price/Unit	Unit	Quantity	Total Price
1	Prep	Mow	$100.00	LS	50.00	$5,000.00
2	Prep	Spray w/Glyphosate @2qts/acre	$100.00	LS	50.00	$5,000.00
3	Prep	Harrow to stimulate regrowth 10 days after herbicide appication (2 passes)	$90.00	LS	50.00	$4,500.00
4	Prep	Respray when regrowth is 4 inches w/Glyphosate @ 2qts/acre	$100.00	LS	50.00	$5,000.00
5	Seed	Local Ecotype Seeding drier areas w/Upland Prairie Mix -Shortgrass (7.7 lbs grasses, 3.3 lbs forbs per acre)	$775.00	AC	25.00	$19,375.00
6	Seed	Local Ecotype Seeding mesic areas w/Mesic Prairie Mix *(8.25 lbs grasses, 2.75 lbs forbs per acre)*	$700.00	AC	25.00	$17,500.00
8	Veg Mgmt	Vegetation Management (3 vists per season for 5 growing seasons)	$5,000.00	EA	15.00	$75,000.00

Project Price: $131,375.00

Included in the price is as follows:

1. Equipment, labor, supplies, transportation, fuel, and all else necessary for job completion as described.

Note: This quote is good for a period of 30 days from quote date. If the quote is accepted after 30 days MNL reserves the right to modify it based on cost fluctuations and material availability.

If you accept this quote as written and want to proceed with the project, please sign and return.

Blaine Keller Site Lead / Construction Manager — Accepted By

Signed — **Signed**

MNL Local Ecotype Upland Prairie Mix

	Scientific Name	Common Name	% of Mix	Seeds/ Sq Ft	PLS lbs/ac
Grasses:	Bouteloua curtipendula	Side -oats Grama	28.25	11.36	3.11
	Bouteloua gracilis	Blue Grama	2.50	4.04	0.28
	Bromus kalmii	Prairie Brome	4.00	1.29	0.44
	Elymus trachycaulus	Slender Wheatgrass	7.50	2.09	0.83
	Schizachyrium scoparium	Little Bluestem	23.00	13.94	2.53
	Sporobolus compositus	Rough Dropseed	2.50	3.03	0.28
	Sprobolus heterolepis	Prairie Dropseed	1.50	0.97	0.17
Sedges/Rushes:	Carex bicknellii	Bicknell's Sedge	0.25	0.17	0.03
	Cyperus schweinitzill	Schweinitz's Flatsedge	0.50	0.86	0.06
Forbs:	Achilllea millefolium	Yarrow	0.10	0.71	0.01
	Agastache foeniculum	Fragrant Giant Hyssop	0.15	0.55	0.02
	Allium stellatum	Prairie Onion	0.40	0.17	0.05
	Amorpha canescens	Leadplant	2.50	1.61	0.28
	Asclepias syriaca	Common Milkweed	1.50	0.24	0.17
	Asclepias tuberosa	Butterfly Milkwee	1.00	0.17	0.11
	Chamaecrista fasciculata	Partridge Pea	6.25	0.68	0.69
	Dalea candida	White Prairie Clover	4.25	3.26	0.47
	Dalea purpurea	Purple Prairie Clover	6.50	3.94	0.72
	Drymocallis arguta	Prairie Cinquefoil	0.25	2.32	0.03
	Echinacea angustifolia	Narrow-leaved Coneflower	0.25	0.07	0.03
	Helianthus pauciflorus	Stiff Sunflower	0.50	0.08	0.06
	Lespedeza capitata	Round-headed Bushclover	0.75	0.24	0.08
	Liatris aspera	Rough Blazing Star	0.25	0.17	0.03
	Lupinus perennis	Wild Lupine	0.25	0.01	0.03
	Monarda punctata	Spotted Bee Balm	0.15	0.55	0.02
	Penstemon grandiflorus	Large-flower Penstemon	0.50	0.28	0.06
	Ratibida columnifera	Long-headed Coneflower	0.75	1.27	0.08
	Rosa arkansana	Prairie Rose	0.50	0.02	0.06
	Rudbeckia hirta	Black-eyed Susan	1.25	4.65	0.14
	Solidago nemoralis	Gray Goldenrod	0.15	1.82	0.02
	Solidago rigida	Stiff Goldenrod	0.30	0.50	0.04
	Symphyotrichum laeve	Smooth Blue Aster	0.25	0.56	0.03
	Symphyotrichum oolentangiense	Sky-Blue Aster	0.50	1.61	0.06
	Tradescantia bracteata	Long-bracted Spiderwart	0.15	0.06	0.02
	Verbena stricta	Hoary Vervain	0.40	0.45	0.05
	Zizia aptera	Heart-leaf Golden Alexanders	0.20	0.10	0.02
			100%	64	11.0

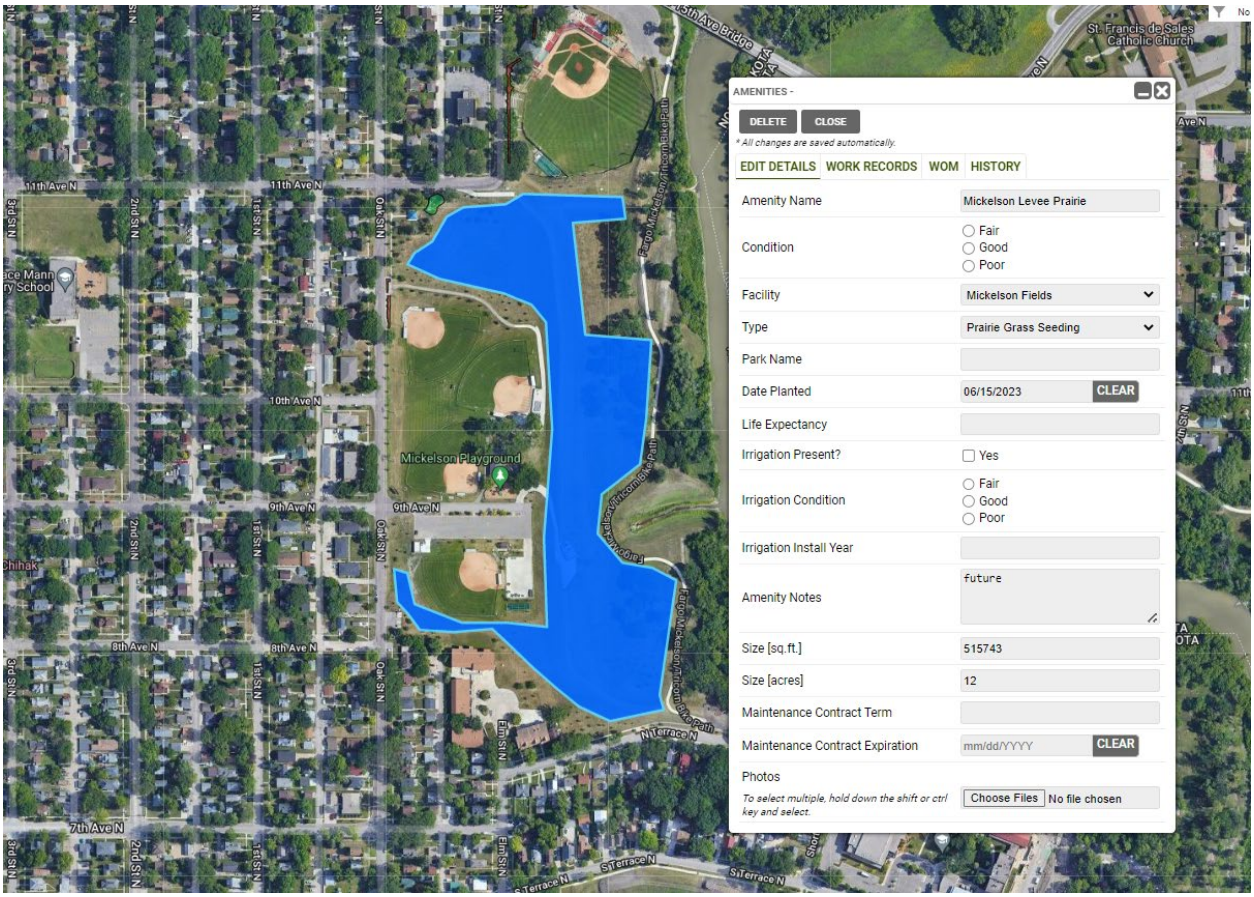
Seed/sq ft:	64
Grass Species:	7
Sedges/Rush Sp:	2
Forb Species:	27

MNL Local Ecotype Mesic Prairie Mix

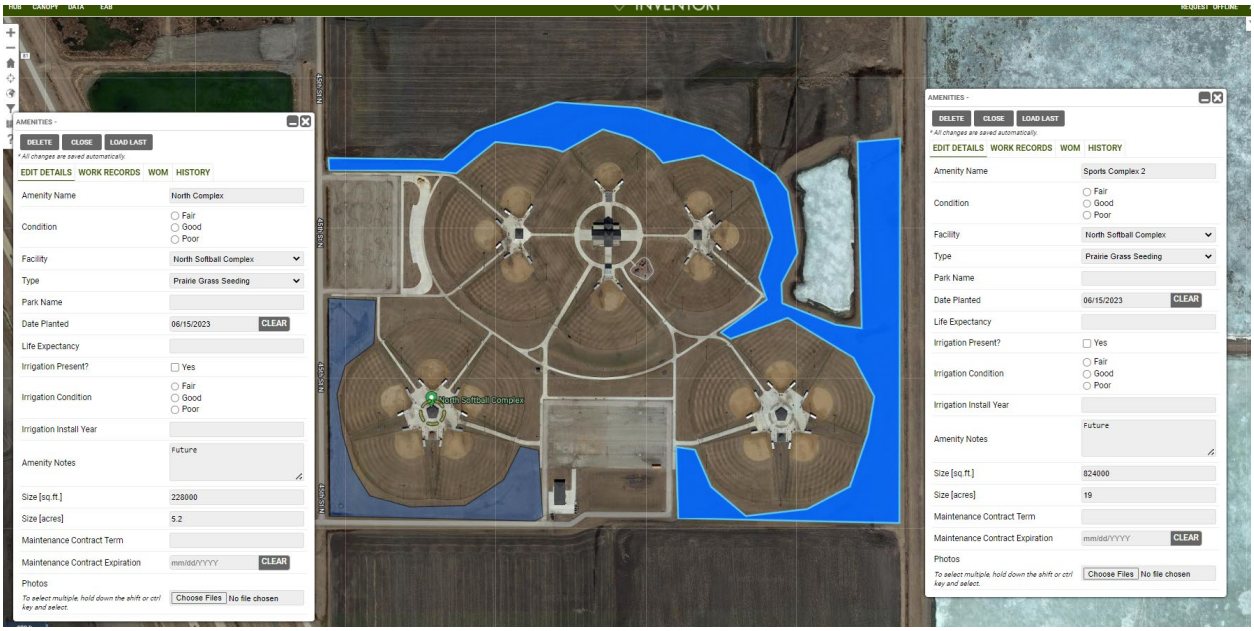
	Scientific Name	Common Name	% of Mix	Seeds/ Sq Ft	PLS lbs/ac
	Andropogon gerardii	Big Bluestem	7.50	3.03	0.83
Grasses:	Bouteloua curtipendula	Side -oats Grama	18	7.23	1.98
	Bromus kalmii	Prairie Brome	5.25	1.70	0.58
	Elymus canadensis	Canada Wild Ry	5.00	1.05	0.55
	Elymus trachycaulus	Slender Wheatgrass	4.00	1.12	0.44
	Elymus virginicus	Virginia Wild Rye	5.00	0.85	0.55
	Panicum virgatum	Switchgrass	3.25	1.84	0.36
	Schizachyrium scoparium	Little Bluestem	15.00	9.09	1.65
	Sorghastrum nutans	Indian Grass	9.75	4.73	1.07
	Sporobolus compositus	Rough Dropseed	2.25	2.73	0.25
Forbs:	Achilllea millefolium	Yarrow	0.05	0.36	0.01
	Agastache foeniculum	Fragrant Giant Hyssop	0.25	0.91	0.03
	Amorpha canescens	Leadplant	1.00	0.65	0.11
	Asclepias incarnata	Swamp Milkweed	0.45	0.09	0.05
	Asclepias syriaca	Common Milkweed	0.90	0.15	0.10
	Asclepias tuberosa	Butterfly Milkweed	0.20	0.04	0.02
	Chamaecrista fasciculata	Partridge Pea	1.75	0.19	0.19
	Dalea candida	White Prairie Clover	2.50	1.92	0.28
	Dalea purpurea	Purple Prairie Clover	4.00	2.42	0.44
	Desmodium canadense	Showy Tick-trefoil	3.50	0.78	0.39
	Drymocallis arguta	Prairie Cinquefoil	0.20	1.86	0.02
	Helianthus maximiliani	Maximillian's Sunflower	1.00	0.52	0.11
	Heliopsis helianthoides	Common Ox-eye	1.30	0.33	0.15
	Liatris ligulistylis	Meadow Blazing Star	0.50	0.20	0.06
	Liatris pycnostachya	Prairie Blazing Star	1.50	0.67	0.17
	Monarda fistulosa	Wild Bergamot	0.50	1.41	0.06
	Ratibita pinnata	Yellow Coneflower	0.75	0.91	0.08
	Rudbeckia hirta	Black-eyed Susan	1.25	4.65	0.14
	Solidago rigida	Stiff Goldenrod	1.00	1.66	0.11
	Symphyotrichum laeve	Smooth Blue Aster	0.25	0.56	0.03
	Symphyotrichum novae-angliae	New England Aster	0.25	0.67	0.03
	Symphyotrichum oolentangiense	Sky-Blue Aster	0.50	1.61	0.06
	Thalictrum dasycarpum	Purple Meadow Rue	0.25	0.20	0.03
	Verbena hastata	Blue Vervain	0.50	1.88	0.06
	Veronicastrum virginicum	Culvers's Root	0.15	4.85	0.02
	Zizia aurea	Golden Alexanders	0.50	0.22	0.06
			100%	63	11.0

Seed/sq ft:	63
Grass Species:	10
Forb Species:	26

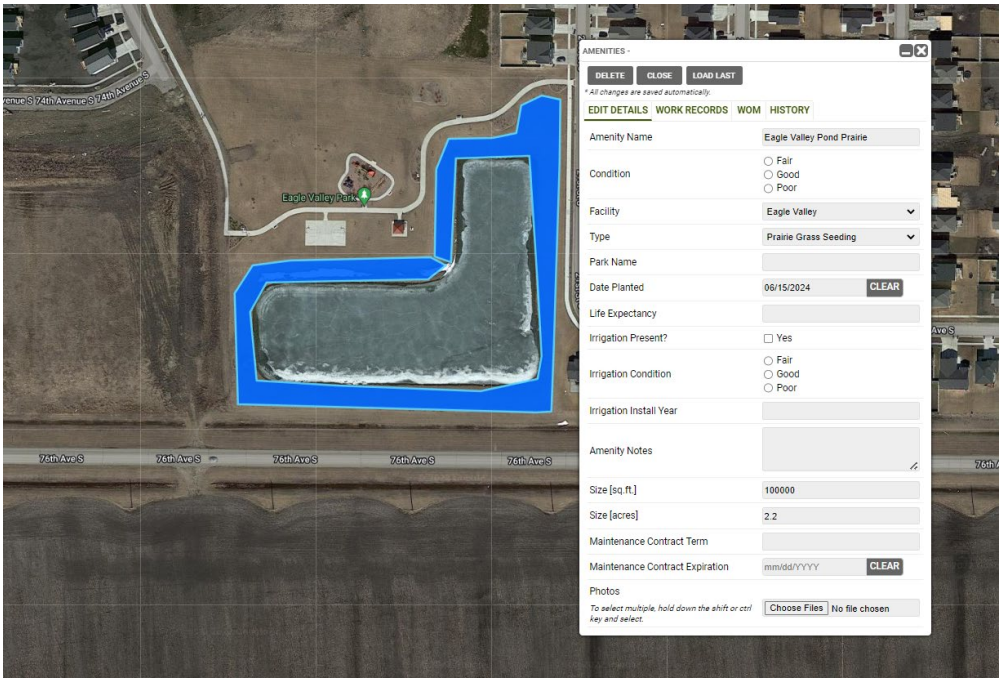
Facility	Amenity Name	Type	Size [acres]
Forest River	Forest River west	Prairie Flower Seeding	8
Orchard Glen	Orchard Glen North Area	Prairie Flower Seeding	3.74
Mickelson Fields	Mickelson Levee Prairie	Prairie Flower Seeding	12
North Softball Complex	Sports Complex 2	Prairie Flower Seeding	19
North Softball Complex	North Complex	Prairie Flower Seeding	5.2
Golden Valley	Golden Valley Pond Prairie	Prairie Flower Seeding	2.64
Eagle Valley	Eagle Valley Pond Prairie	Prairie Flower Seeding	2.2
			52.78



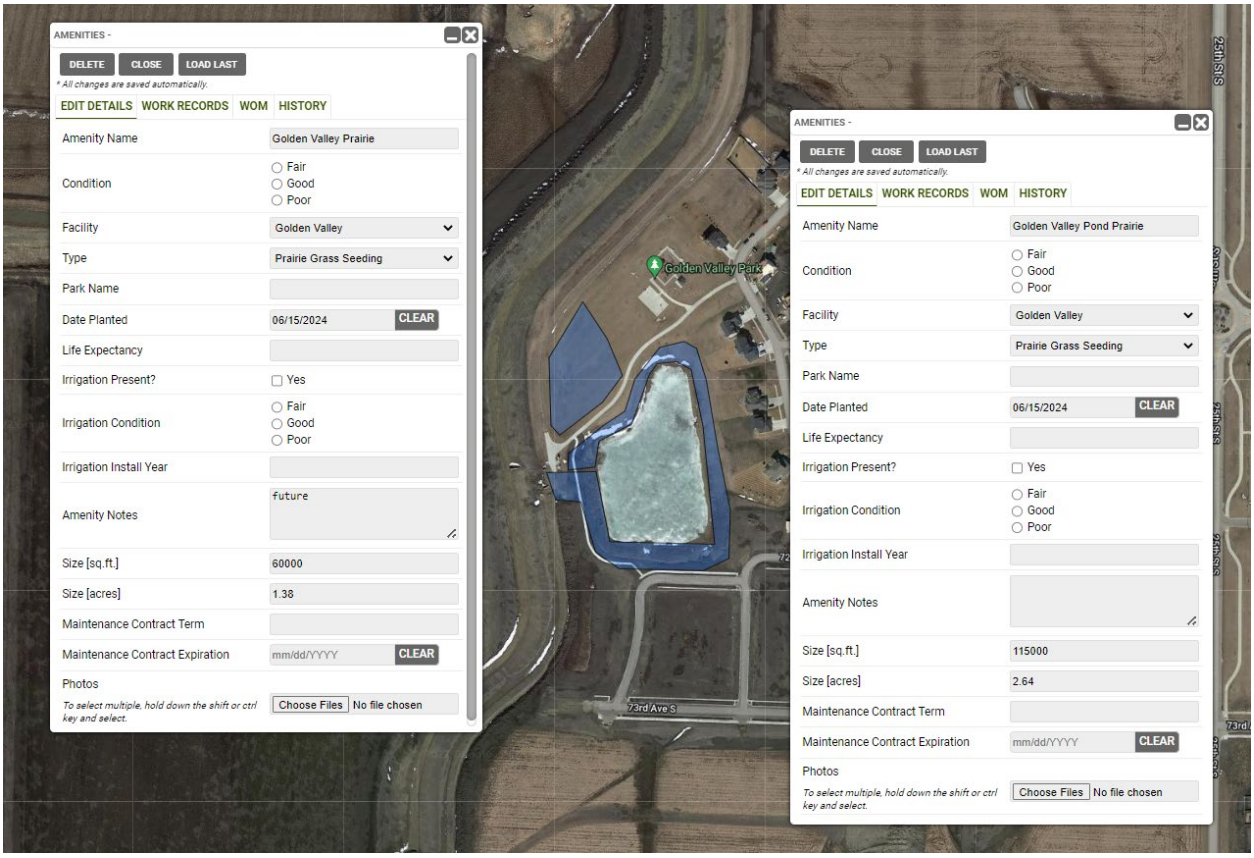
Mickelson: 12 Acres. North section has a large bowl that could be mesic to wet. The rest is mostly a large levee that runs north and south so it has east and west slopes, will be pretty dry.



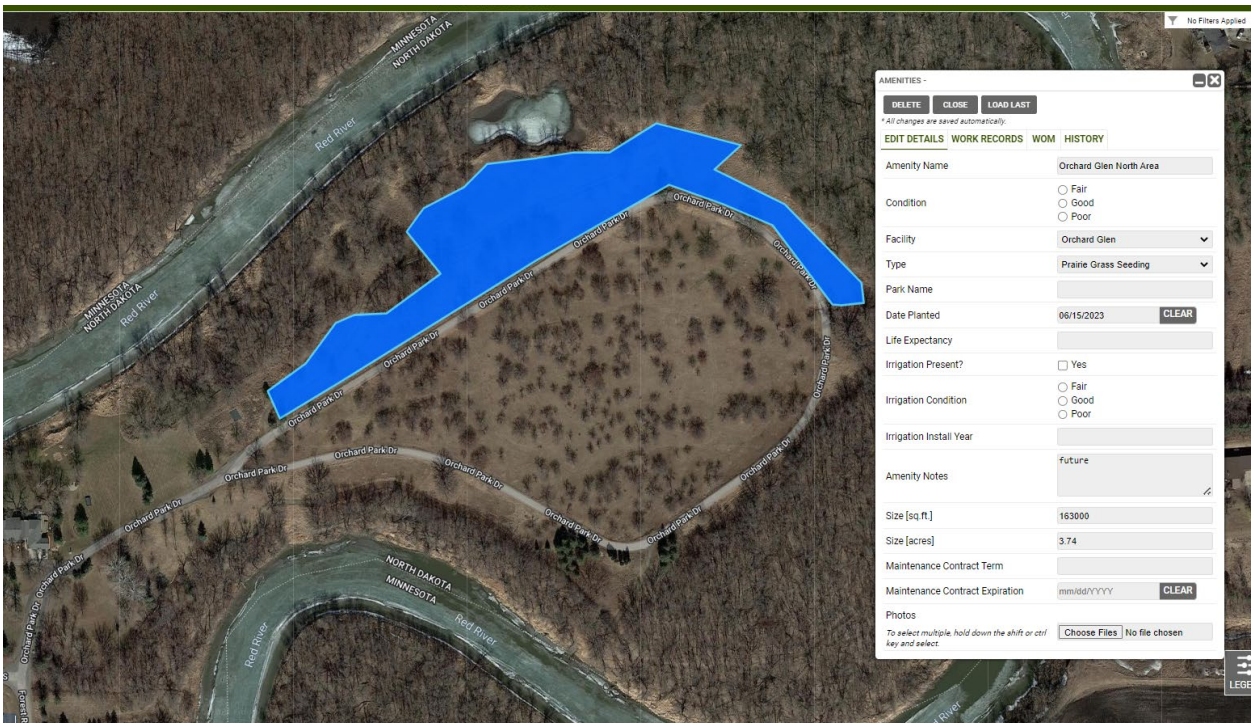
Softball complex: 24 Acres. All flat with some low areas, I would say mesic to wet.



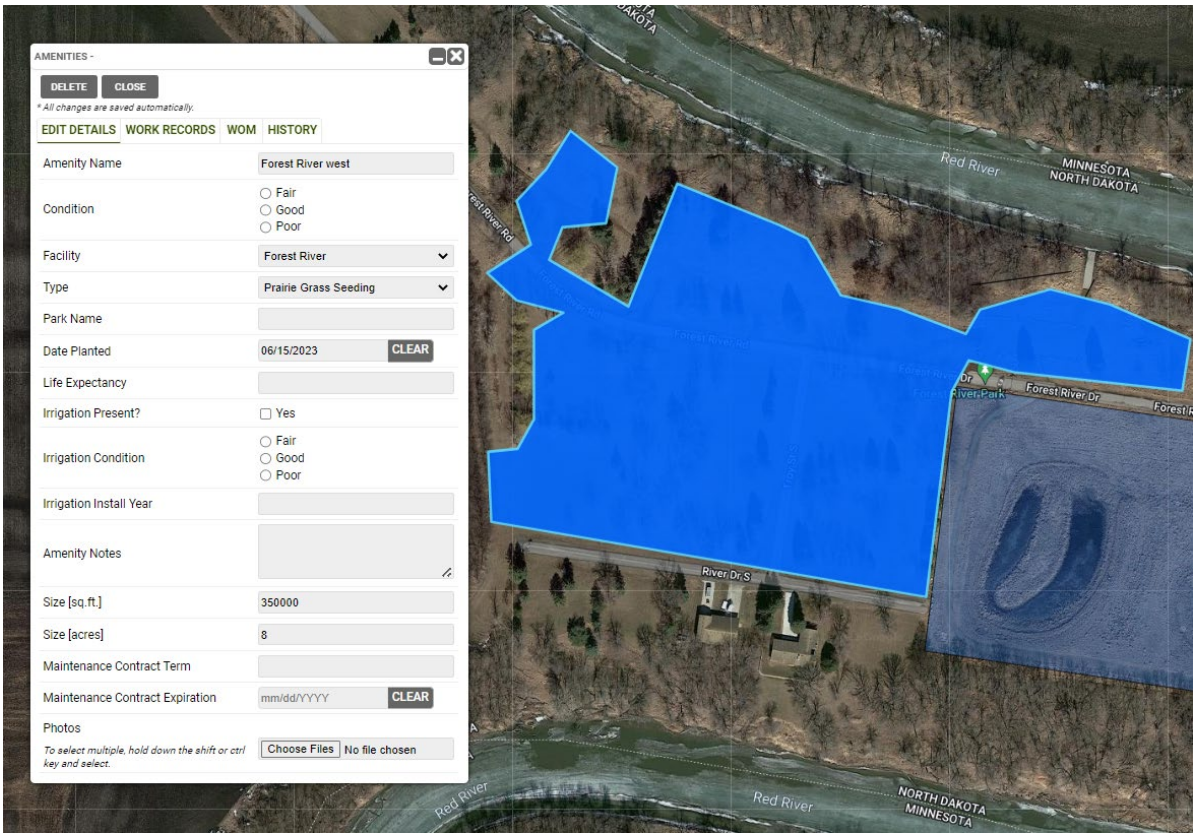
Eagle Valley Pond: 2.2 acres. Slope around pond



Golden valley park: 4 acres North section is flat, mesic. Pond section is a slope going down into pond



Orchard glen: 3.74 Acres mesic/upland



Forest River: 8 acres, upland with trees intermixed, savannah

United States Department of the Interior
U.S. GEOLOGICAL SURVEY
Northern Prairie Wildlife Research Center
8711 37th Street Southeast
Jamestown, ND 58401-7317

08.24.2022

Karlene Fine
Industrial Commission
State Capitol 14th Floor
600 E. Boulevard Ave. Dept. 405
Bismarck, ND 58505-0840

Dear Ms. Karlene Fine,

I am writing to voice my support for the urban pollinator habitat project proposed by Dr. Torre Hovick from NDSU. Pollinator health is intimately linked with our own human health through the myriad fruits and vegetables that depend on insect pollination services. As the research community expands our understanding of insect ecology, we are beginning to learn the value of urban landscapes in supporting at-risk pollinators and their habitats. For example, the federally endangered Rusty Patched Bumble Bee exists nearly exclusively in urban areas of the Upper Midwest, and population strongholds are found in city parks and green spaces. Enhancing pollinator habitat in the Fargo metropolitan area will not only benefit native bees, it will also contribute to urban beautification to be enjoyed by underrepresented groups. Furthermore, diverse perennial plantings have the added benefit of reducing maintenance costs in labor and fuel, relative to traditional turf grass.

There is tremendous growth opportunity for expanding pollinator habitat in urban ecosystems throughout the US. This project by Dr. Hovick will demonstrate to land managers and the public 1) effective establishment procedures for urban pollinator habitat and 2) highlight the ecological and economic benefits of modern green spaces. Please consider their proposal for funding.

Sincerely,

Clint Otto, PhD

Research Ecologist
701-368-9028
cotto@usgs.gov

August 19, 2022

Ms. Karlene Fine
North Dakota Industrial Commission
State Capitol – 14th Floor
600 E. Boulevard Dept. 405
Bismarck, N.D. 58505-0840

Dear Ms. Fine:

On Behalf of the North Dakota Beekeepers Association, I am writing in support of a project to establish and restore native and prairie plantings in Public Parks. Audubon Dakota, North Dakota State University and Fargo Parks District seek a $150,000 grant to install these plantings.

A number of benefits to urban landscapes and the people enjoying public spaces come to mind:
Less cost and use of fossil fuel:
Lower property maintenance costs:
Floral diversity away from mono-culture grass:
Improved moisture use from soil-penetrating plants root systems:
Improved soil health from diverse floral species:
Nutrition islands for threatened species such as butterflies and ground-dwelling beneficial insects.

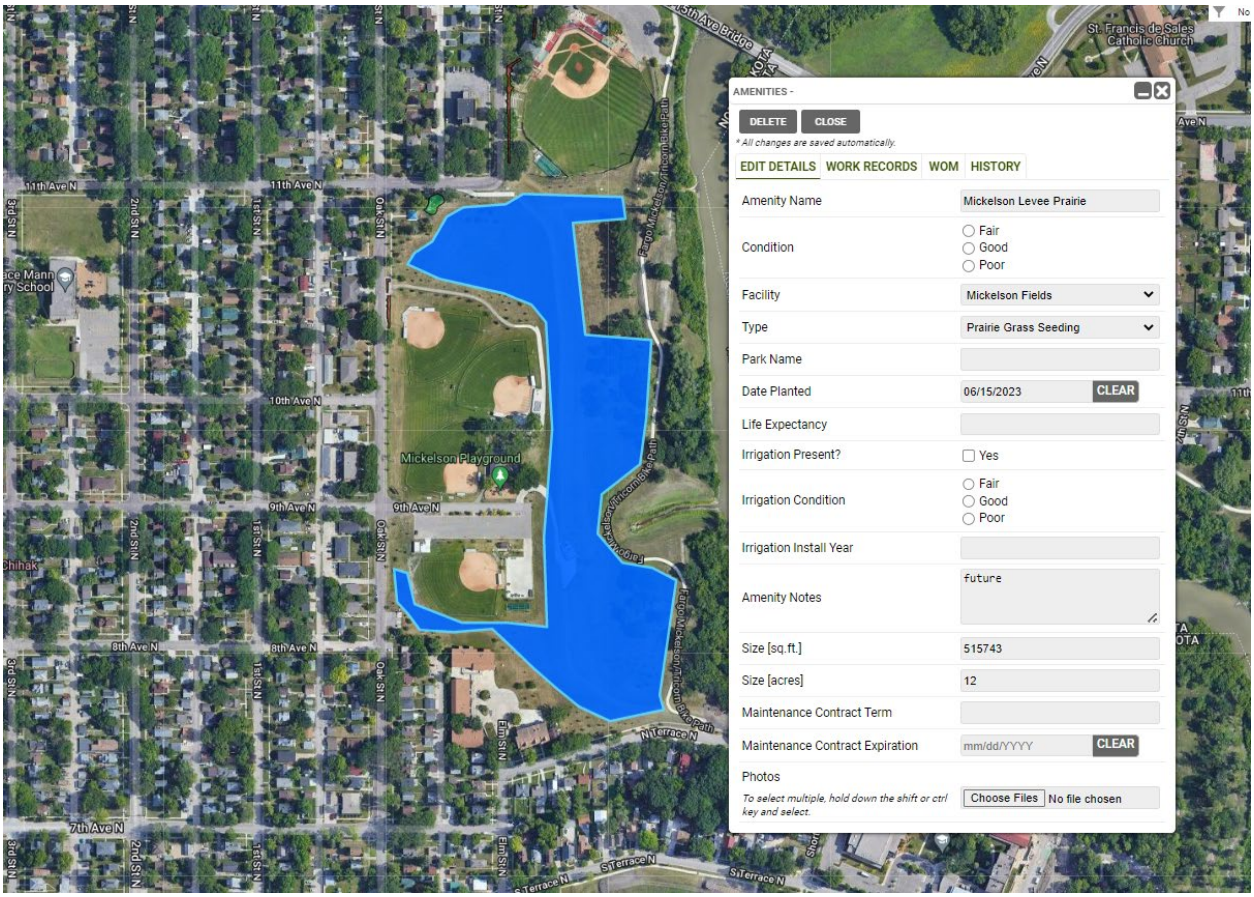
Proof of proposal concept is important. Public funds are scarce in North Dakota. This project provides the example for multiple park districts across North Dakota.
I support the proposed term of the project. It takes time to establish pollinator habitat. It is entirely reasonable for an initial project such as this to budget 3-5 years to completion.

I support the use of Outdoor Heritage Fund dollars on this project – and support similar future project concepts.

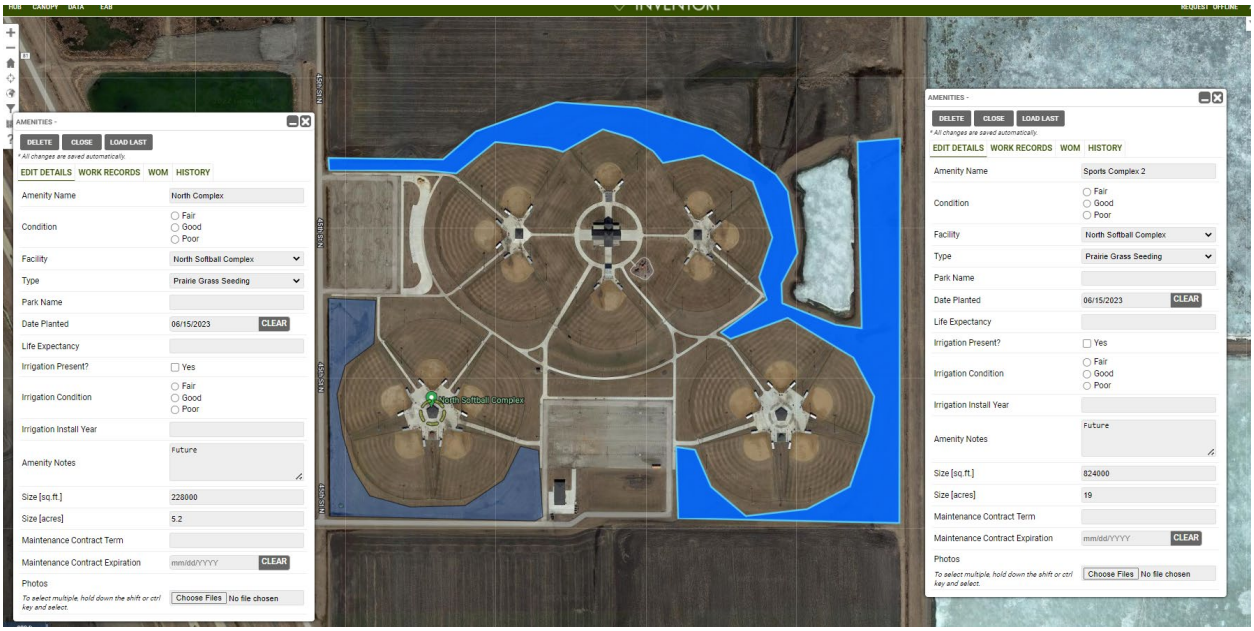
Sincerely,

John R. Miller, President
North Dakota Beekeepers Assn.
P.O. Box 55
Turtle Lake, N.D. 58575

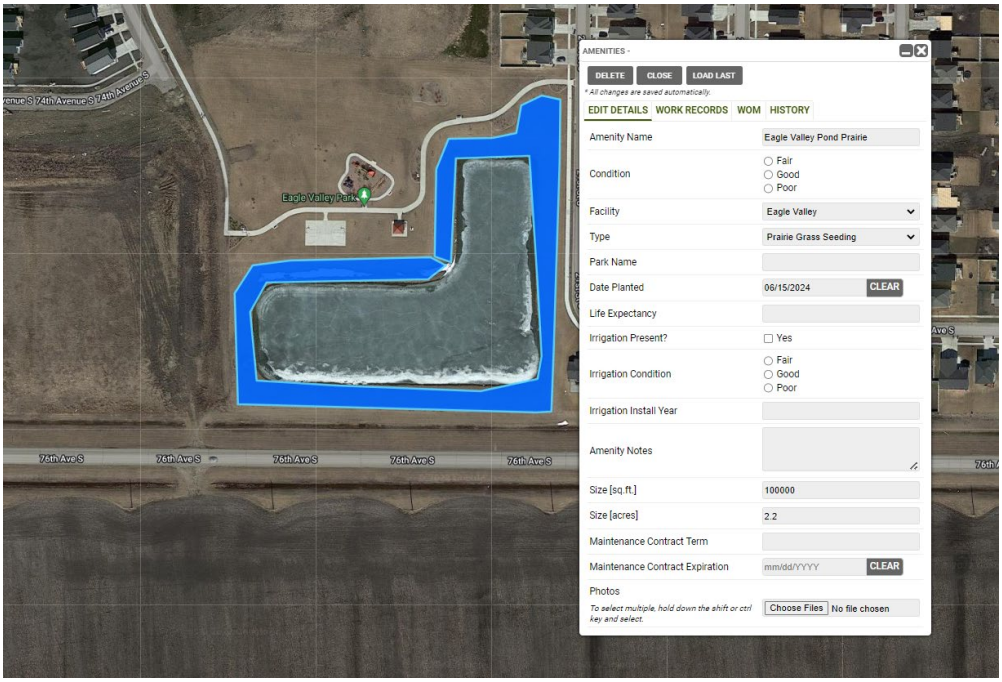
Facility	Amenity Name	Type	Size [acres]
Forest River	Forest River west	Prairie Flower Seeding	8
Orchard Glen	Orchard Glen North Area	Prairie Flower Seeding	3.74
Mickelson Fields	Mickelson Levee Prairie	Prairie Flower Seeding	12
North Softball Complex	Sports Complex 2	Prairie Flower Seeding	19
North Softball Complex	North Complex	Prairie Flower Seeding	5.2
Golden Valley	Golden Valley Pond Prairie	Prairie Flower Seeding	2.64
Eagle Valley	Eagle Valley Pond Prairie	Prairie Flower Seeding	2.2
			52.78



Mickelson: 12 Acres. North section has a large bowl that could be mesic to wet. The rest is mostly a large levee that runs north and south so it has east and west slopes, will be pretty dry.



Softball complex: 24 Acres. All flat with some low areas, I would say mesic to wet.



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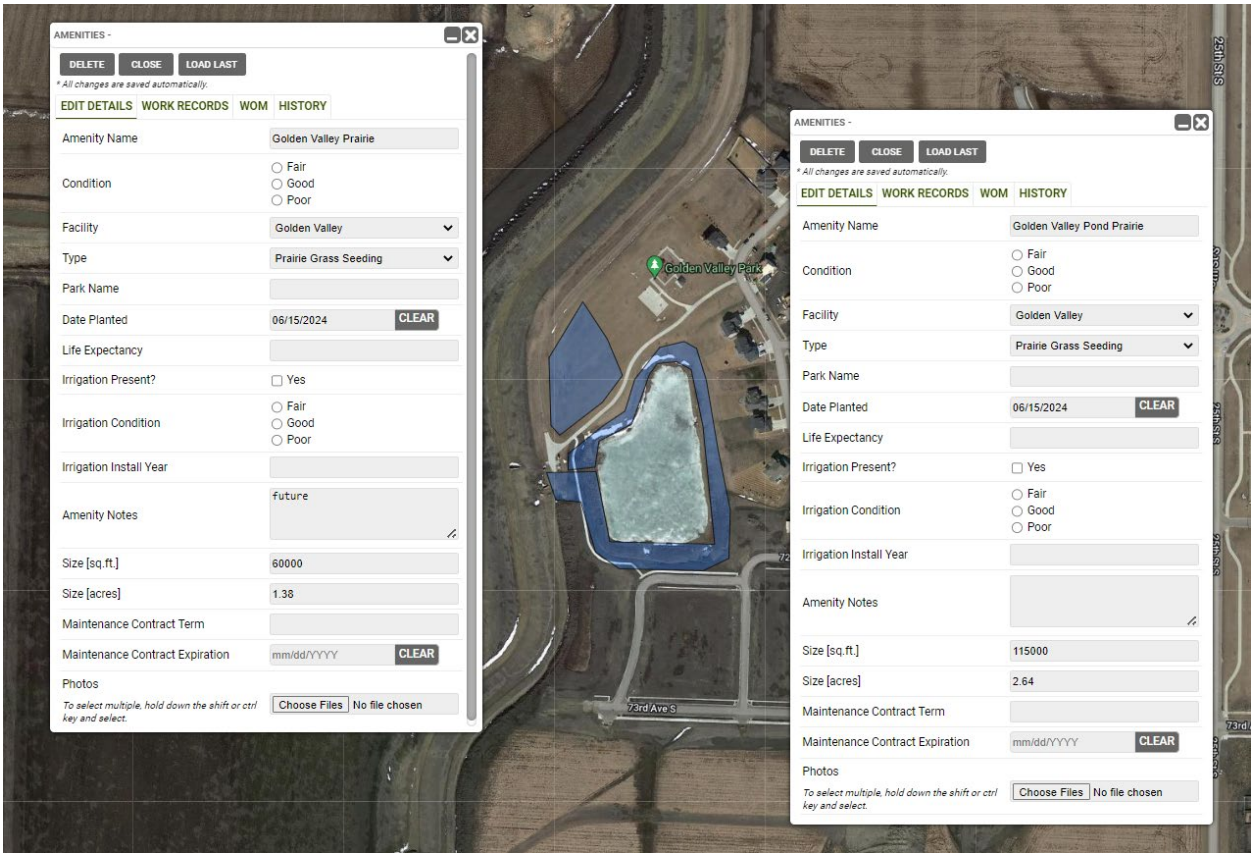

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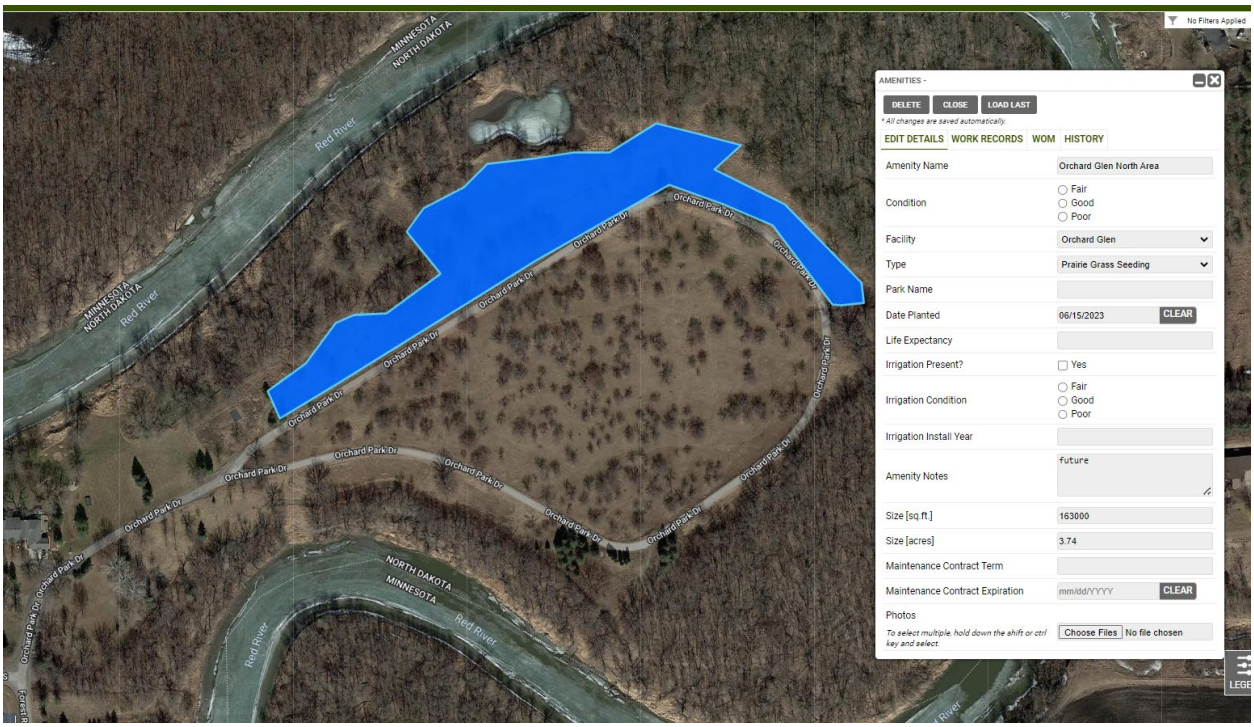

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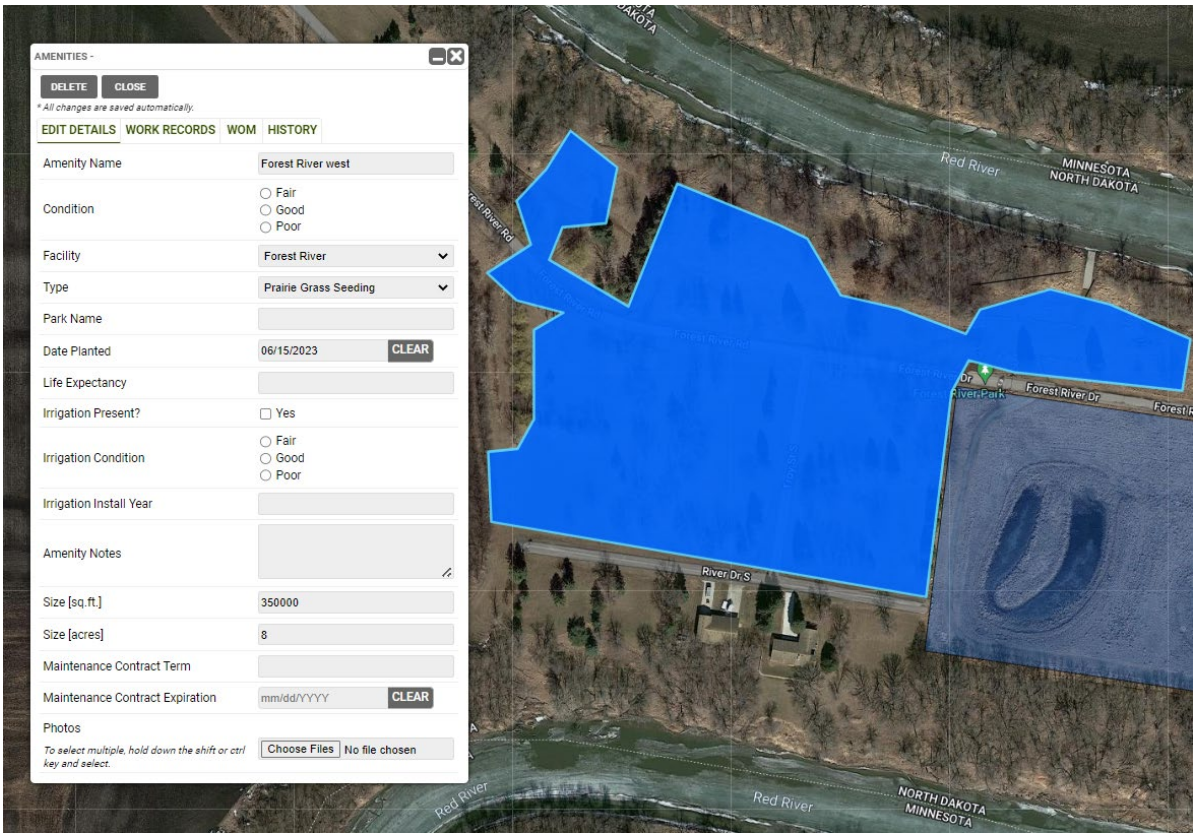

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Industrial Commission
State Capitol 14th Floor
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Bismarck, ND 58505-0840

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Sincerely,

Clint Otto, PhD

Research Ecologist
701-368-9028
cotto@usgs.gov

NORTH Dakota | Game and Fish
Be Legendary.™

August 25, 2022

Karlene Fine
Industrial Commission
State Capitol 14th Floor
600 E. Boulevard Ave. Dept. 405
Bismarck, ND 58505-0840

RE: Urban Woods and Prairies: Urban Pollinator Plots Project

Ms. Fine,

The North Dakota Game and Fish Department (Department)'s mission is to protect, conserve, and enhance fish and wildlife populations and their habitat for sustained public consumptive and non-consumptive use. To further this mission, we are writing you today in support of Audubon Dakota, North Dakota State University, and Fargo Park's Outdoor Heritage grant entitled "*Urban Woods and Priairies: Urban Pollinator Plots Project*".

As the state's authority for all wildlife, including rare, unique, and declining fish and wildlife species, the Department routinely collaborates with partners to stem wildlife declines and ensure the resources needed to maintain healthy populations stay on the landscape. One such collaboration is the Urban Woods and Prairies Initiative. This Audubon Dakota initiative has not only provided valuable habitat for declining species, such as the monarch butterfly, but has done so in areas with the largest communities, providing many of our citizens the opportunity to learn about and connect with North Dakota's pollinators, birds, and other wildlife.

The Department is eager to see this initiative grow, and this grant would help support and expand its success. The Department supports the goals and commitments presented within this OHF grant and look forward to seeing the project funded.

Sincerely,

Greg Link
Chief, Conservation and Communications Division

August 30, 2022

Karlene Fine
Industrial Commission
State Capitol 14th Floor
600 E. Boulevard Ave. Dept. 405
Bismarck, ND 58505-0840

Dear Ms. Karlene Fine,

I am writing in support for the urban pollinator plot project proposed by Dr. Torre Hovick of North Dakota State University. Pollinators are key to the health of flowering plants and the wildlife that depends upon those plants, and, through their contributions to agricultural pollination, pollinators are also essential to human health and wellbeing. Emerging research demonstrates the value and importance of restoring and installing new habitat in urban areas to support pollinators and the pollination services they provide. By restoring prairie within Fargo, this project will create habitat for pollinators while also showcasing the natural beauty of the region and reducing long-term maintenance costs.

This project is an important opportunity to bring together partners to meet conservation goals and also highlight practices that city managers and the public can take to support pollinators. Please consider funding this valuable project.

Sincerely,

Jennifer Hopwood
Senior Pollinator Conservation Specialist, Great Plains and Midwest
Xerces Society for Invertebrate Conservation

Jennifer.hopwood@xerces.org
913-579-5241

August 19, 2022

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North Dakota Industrial Commission
State Capitol – 14th Floor
600 E. Boulevard Dept. 405
Bismarck, N.D. 58505-0840

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