

## MEMORANDUM

**TO:** Board of Managers  
**FROM:** Liz Forbes  
**DATE:** April 5, 2023  
**RE:** Request to enter cost share agreement with *The Preserve Association*

### Overview

In March 2023, the Preserve Association submitted a Stewardship Grant application to convert an area of turfgrass with some erosion to mixed prairie/woodland restoration. Runoff from the project area drains directly into Neil Lake via the city stormwater system. The Preserve has partnered with the District on multiple projects including turf-to-prairie and turf-to-low mow. They are enthusiastic about best practices to protect and restore water resources and committed to education and outreach programming.

### Installation

Cost for design and installation of native vegetation buffer is \$19,782. Proposed cost-share is 75% not to exceed \$14,836. As part of the grant agreement, the Preserve Association must maintain the project for at least 10 years. Installation and professional maintenance for the project would be by *Natural Shore Technologies*, an established and respected habitat restoration company.

The project will include site preparation (herbicide application to kill turfgrass, fine grading) followed by drilling a custom seed mix into the soil, planting of native plant plugs, and installation of erosion control blanket. A count of 2,194 native plants of at least 21 species in 3-to-4 inch pot size will be installed 3 to 4 feet apart. The diverse plant mix incorporates at least five blooming species per season (spring, summer, fall) as well as at least one keystone species, which support many wildlife species.

### Location Description

The location of the project is in a highly visible area along Anderson Lakes Parkway, which includes a popular paved trail. The City of Eden Prairie has reviewed and approved the portion of the project within city right-of-way. The project area is located within area identified by the MPCA as an area of concern for environmental justice.

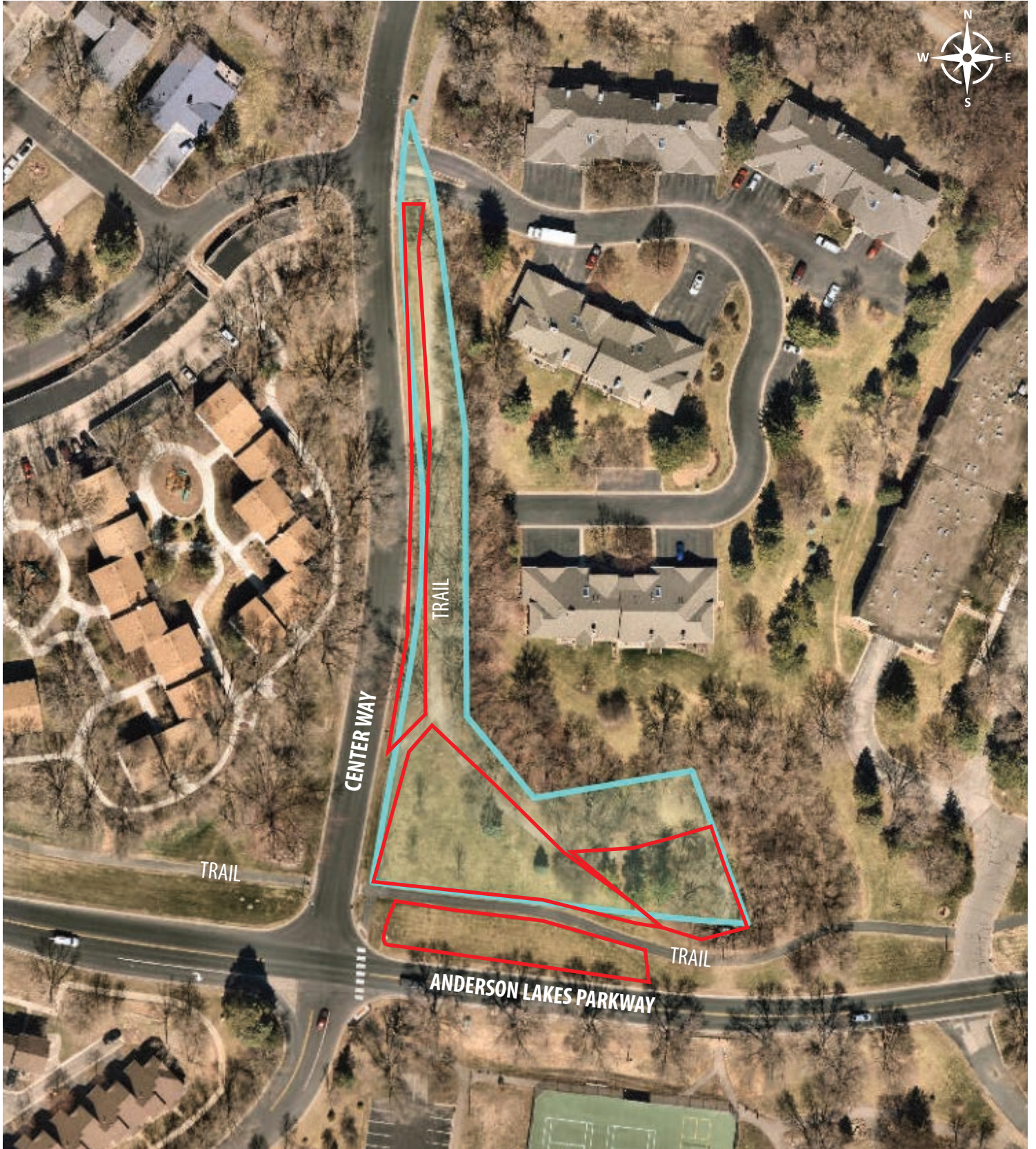
The project site would also work well as a sampling site for the RPBCWD soil health study underway. Soil samples could be collected pre-installation, post-installation, and monitored over time.

**Attachments:** Project map, environmental justice maps, site photos, application

# 2023 Project Area - Habitat Restoration at Anderson Lakes Parkway and Center Way

The Preserve Association, Eden Prairie MN

 Project areas



## Area of Concern for Environmental Justice

The proposed 2023 habitat restoration project by The Preserve Association is located within an area identified by the MPCA as an area of concern for Environmental Justice.

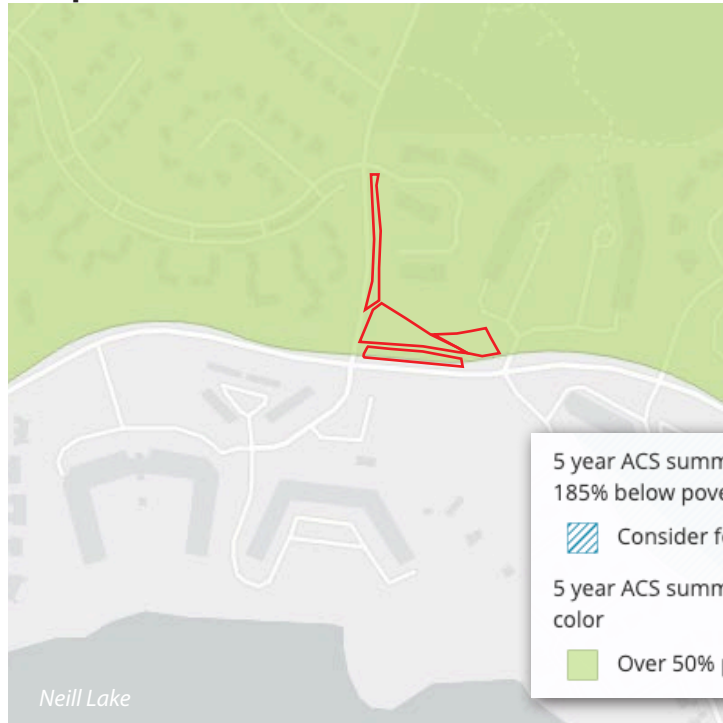
### Source

MPCA webmap: Understanding environmental justice in Minnesota

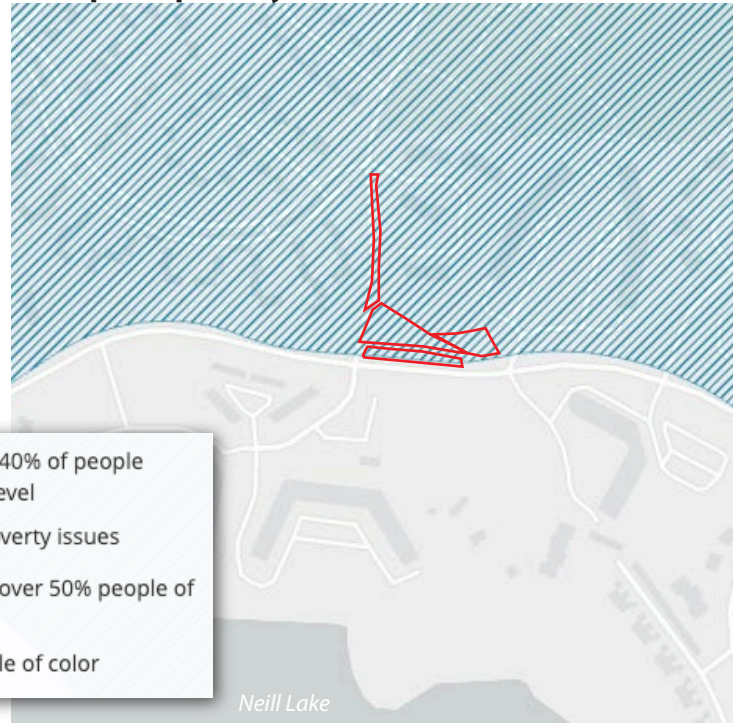
<https://mpca.maps.arcgis.com/apps/MapSeries/index.html?appid=f5bf57c8dac24404b7f8ef1717f57d00>

Project area (in red) overlaid on screengrabs from MPCA webmap "Understanding environmental justice in Minnesota."

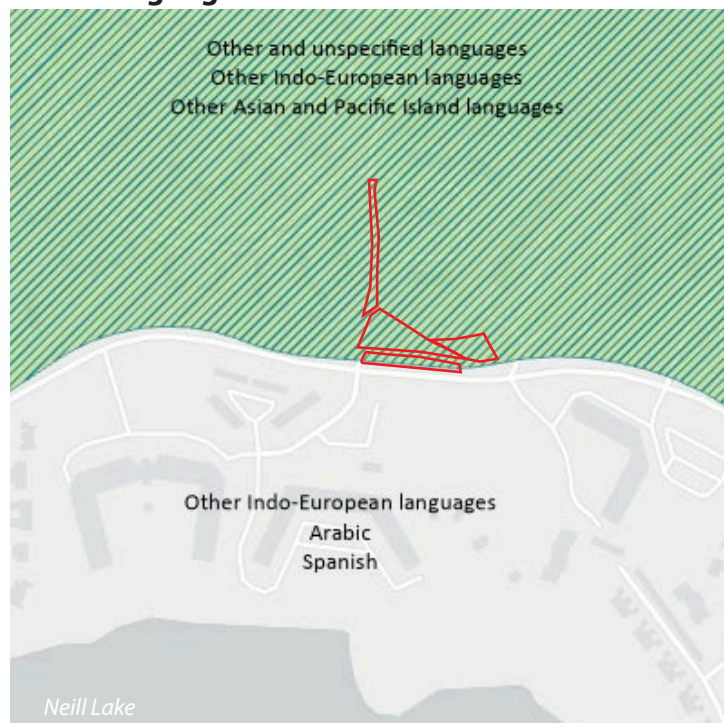
### People of color



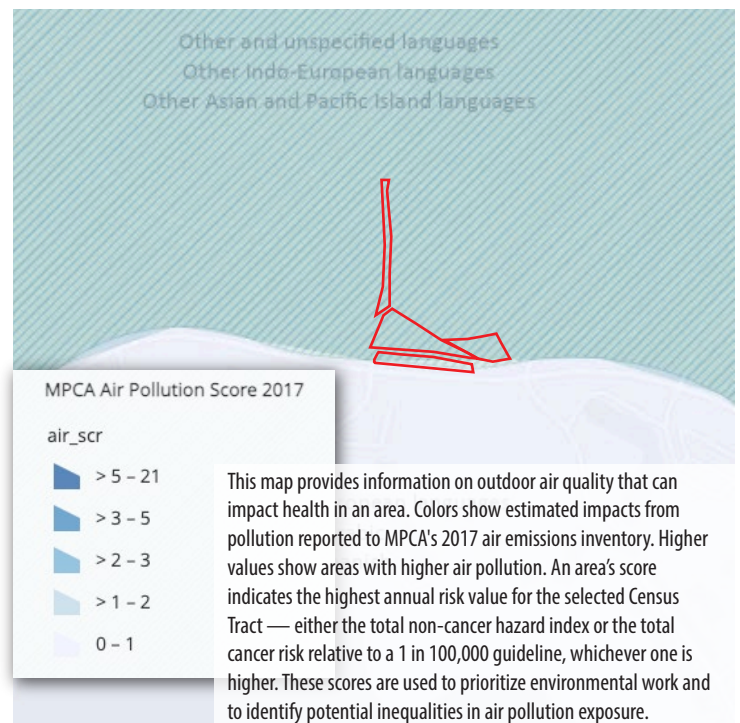
### People in poverty



### Other language



### MPCA Air Pollution Score



Photos of project site (April 3, 2023)



# Stewardship Grant Application - Restorations, BMPs, and Other Projects 2023

The form is set to save your progress. However, your device may not be set up to accommodate this; be prepared to re-enter your information if needed. Allow up to six weeks to process your application.

Have you had a site visit? The site visit would have been with Seth Ristow (Carver County SWCD) or watershed district staff. \*

Yes

No

No, but I confirmed that I do not need one

## Property Owner Information

Applicant type \*

Non-profit (association, church, etc.)

Property Owner's Legal Name (first and last)\*

The Preserve Association

Please provide the legal name of person who owns the property where the project would be located.

Additional Property Owner's Name

If the property is owned by more than one person, please provide name(s) here. If your project is awarded a grant, the legal names of all property owners will be needed for the grant agreement.

My project is within the Riley Purgatory Bluff Creek Watershed District \*

You can confirm this by entering the project address at [www.rpbcwd.org/map](http://www.rpbcwd.org/map).

Project Address \*

11221 Anderson Lakes Pwky

Street Address

Address Line 2

Eden Prairie

City

55344

Postal / Zip Code

Write the address of the property where the potential project would be located.

Parcel ID Number (PID) of property \*

2411622220022

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Look up your parcel ID by entering your address in the appropriate county property map:

[Hennepin County Online Property Map](#)

[Carver County Online Property Map](#)

## Property Owner's Mailing Address (if different than project address)

Street Address

Address Line 2

City

Postal / Zip Code

Please provide a mailing address if it is different from the property address listed above.

## Property Owner's Phone \*

## Property Owner's Email Address \*

We need email addresses for communication purposes. Also, we currently use electronic signatures on grant agreements and need emails for this signing process.

## Secondary Property Owner's Email Address

We are currently using electronic signatures on grant agreements and will need an email for each property owner. If property owners share the same email, please note that here.

## Primary Contact Person

Fill out this section if the primary contact person for the project is different than the property owner. If it's the same, click the box that says "Primary contact information same as property owner."

**Primary contact information same as property owner.**

If you select this, then you may skip this section.

## Contact Name

First

Last

# Stewardship Grant Application - Restorations, BMPs, and Other Projects 2023

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## Contact Phone

## Contact Email

## Primary contact's relationship to project

*If the primary contact is not the property owner, please provide the contact's person's relationship to the project. (Property manager, association member/president, business owner, contractor hired by the owner, etc.)*

## Project Information

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### Project Type

Before selecting a project type for your application, make sure your project meets the requirements for that project type. These requirements are listed on the [Grant Project Types webpage](#).

### Commonly missed requirements

- **Habitat Restoration:** Project size must be at least 250 square feet of developed/disturbed land. That means the existing condition of the area must be impermeable or low permeability such as a lawn, turf grass, parking lot, patio, other hard surface, or severely compacted soil. Severely eroded natural sites may fit into this description.
- **Lake Shoreline Restoration:** Project must be at least 25 feet of shoreline or 25% of shoreline, whichever is greater, with an average natural area width of 10 feet. Only major lakes will be considered for shoreline restoration projects.
- **Waterbody Buffer:** Project must be located outside the shoreline zone. Project must extend at least 25 feet along (parallel to) a shoreline with an average width of 10 feet. Waterbodies: lakes, pond, wetland, and creeks, etc.
- **Rain Garden:** Our definition of a rain garden aligns with the Minnesota Stormwater Manual, which means there are technical specifications and drawings that need to be provided, usually by a landscape architect or knowledgeable advisor.

# Stewardship Grant Application - Restorations, BMPs, and Other Projects 2023

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## What is Your Project Type? \*

- Habitat Restoration
- Lake Shoreline Restoration
- Waterbody Buffer
- Alternative Lawn
- Stormwater BMP (raingarden, tree trench, swale, permeable pavement, etc.)

Check all that apply. Make sure your project meets the requirements for that type of project.

If your project is a Stormwater BMP, please tell us what kind of BMP it is.

Example: rain garden, tree trench, etc.

## Project title \*

Give your project a name!

## How big is your project? \*

Size (area) in square feet is preferred. If your project is a stormwater BMP (e. g. rain garden), provide the size of the area draining to the BMP. If you are unable to provide a size, please explain.

## Estimated total project cost \*

Be as accurate as possible. If you are awarded a grant, it will be based on a percentage of the projected total project cost that you provide. The award listed on a grant agreement (percent or not-to-exceed amount in dollar) is final.

## Does your estimated project cost include an in-kind labor credit? \*

- Yes
- No

If you plan to install the project yourself, your labor may be credited at \$15/hour. You must include this in your project cost estimate. You cannot add this later after project installation.

## How many hours would you like to include as in-kind labor?

Write an estimated number of hours of in-kind labor per person in your household that would be involved in project installation.

**An in-kind labor credit can reduce your out-of-pocket cost if you plan to install a project yourself.** Learn more under "FAQs about the grant program" on the [Stewardship Grant main page](#).



# Stewardship Grant Application - Restorations, BMPs, and Other Projects 2023

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## Your Grant Request: What percentage of project cost are you requesting from this grant program? \*

75 %

Homeowners and non-profits may request up to 75%. Municipalities, businesses, and schools may request up to 50%. The grant review committee will review your application and determine a percent cost-share offer, if any.

## Estimated Start Date of Project \*

June-05-2023

MMMM-dd-yyyy

An approximate date is fine. Please note that any project work that occurs BEFORE a grant agreement is in place is NOT ELIGIBLE for grant funds.

## Estimated Completion Date of Project \*

June-23-2023

MMMM-dd-yyyy

An approximate date is fine. Grantees have one (1) year to complete a project once a grant agreement is in place. This amount of time may be extended if circumstances are deemed reasonable by the grant coordinator.

## Please describe the current condition of the property, relevant site history, and past management \*

Mostly turf grass, some exposed and eroding soil, weeds and brush

## Please describe the project, including any site issues or goals. \*

Transform turf area, bare eroded boulevard and weedy hillside into native pollinators.

## Summarize your workplan. What steps will be taken to implement the project? \*

Kill all turf in the restoration area and treat any invasive weeds in the wooded knoll. Drill in a custom prairie seed mix into the dead turf. Make several passes in a grid pattern. An oats cover crop will also be seeded. Cover the triangle area with weed-free straw. The boulevard will be covered with NAG S75-BN erosion control blanket.

If want to upload a document with this information, write "Uploaded."

## Who will be completing the work, and where will you be purchasing supplies/equipment from? \*

Natural Shore Technologies

Provide contractor or business name(s) when applicable. If want to upload a document with this information, write "Uploaded."

## Native Plants

This section is required for these projects: Habitat Restoration, Shoreline Restoration, and Waterbody Buffer

# Stewardship Grant Application - Restorations, BMPs, and Other Projects 2023

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Provide the name of the grower/nursery of the native seeds/plants you plan to use.

Natural Shore Technologies, Prairie Moon

*You may use more than one approved supplier. For habitat restoration, shoreline restoration, and waterbody buffer projects only native plants/seeds in their wild form may be used (no cultivars).*


**When it's time to purchase native plants, you may substitute another approved native plant supplier if your preferred supplier is out of stock of desired plant species. You may also substitute species with pre-approval.**

I agree that if my project is a habitat restoration, shoreline restoration, or waterbody buffer, I will follow these native plant requirements:

- CHECK HERE & ignore rest of list if your project is NOT a habitat restoration, shoreline restoration, or waterbody buffer.
- Native plants must be in their wild form. No cultivars (cultivated varieties) are allowed.
- Native plants must be purchased from approved vendor.
- Plant selection must be appropriate for site conditions. In other words, evaluate your site's sun exposure and soil conditions and pick plants that wi
- Plant selection must include at least one keystone species.
- Plant selection must include at least 3 species that bloom in spring, 3 that bloom in summer, and 3 that bloom in fall. All flowering plants
- You must use ecologically friendly maintenance techniques. In part, this means limiting chemicals and leaving plant material in place.

*Select all that you agree with. If you do not agree, your application for a habitat restoration, shoreline restoration, or waterbody buffer may be put on hold.*

Upload your PLANT LIST with scientific (species) names if your project is a habitat restoration, shoreline restoration, or waterbody buffer.

 NST-savanna\_seed\_mix-preserve.xls

## Required Documents

**Please upload the following documents if they are relevant to your project.** You may combine documents in a single file.

If you have more than 5 files, please email directly to [lforbes@rpbcd.org](mailto:lforbes@rpbcd.org).

- **Photos:** Provide two or more photos of project area as it looks now ( *before* project installation). Include for all project types.


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- **Site Map:** Provide a map showing outline of project location on your property. Include for all project types. The online county property maps are useful for this!
- **Cost Estimate(s):** Provide itemized list of costs (description, quantity, price) for all materials and labor (include in-kind labor hours if you're installing project yourself). Include bids/quotes from contractors. Taxes are eligible costs. Include for all project types.
- **Project Design:** Provide a basic sketch of project design with relevant details based upon your project type. Relevant information may include location of features, planting plan with locations of plantings, specifications for materials, etc. Include for all project types.
- **Civil Design Plan:** A technical plan/drawing, typically done by an engineer or landscape architect, is required for a Shoreline Restoration or a Stormwater BMP project (rain garden, tree trench, swale, permeable pavement, etc.). Shoreline work must show the ordinary high water (OHW) line.
- **Native Vegetation Restoration and Maintenance Plan:** Submit this if you are doing a Habitat Restoration, Shoreline Restoration, or Waterbody Buffer project.
- **Estimate for 3 Years of Professional Maintenance:** Submit this if you are doing a Habitat Restoration, Shoreline Restoration, or Waterbody Buffer project. These types of projects are eligible for cost share of professional maintenance during the vegetation establishment phase.
- **Equipment specifications:** Provide if your project includes purchase of equipment including retrofit projects. This typically only applies to some Stormwater BMP projects.

## File Upload

 Project\_map\_CenterWay\_ALPkwy\_created\_by\_RPBCWD.pdf

 Scott-NST-bid-N-PKWY-3-23.pdf

 Scott-NST-bid-maintenance\_Center\_Way\_and\_berm\_-3-2.pdf

## Maintenance & Reporting

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- I understand that if my project is approved for funding, I or my organization will enter into a maintenance agreement with the Riley Purgatory Bluff Creek Watershed District. \*

How will the project be monitored and maintained? \*

Contracted with Natural Shore

*Non-profits and homeowners are required to maintain their project for 5 years. Local government and businesses are required to maintain their project for 10 years.*

- I understand that if my project is approved for funding I must submit a project report within 30 days of completing my project. I must also submit a yearly project report with updates on maintenance and function for the amount of time set in the grant agreement. \*

## Education & Outreach

May we share your project with the community on our website, social media, or other media? \*

Yes

No

Could we highlight your project on a tour or training event (with prior notice and agreement)? \*

Yes

No

## Other Funding

Have you received, applied for, or intend to apply for a grant or other outside funding for this project? \*

Yes  No

*Your city natural resources department, lake association, or other organization may offer funding that complements our grant program. You're welcome to apply to these, but double-dipping (getting paid twice for same work) is not allowed.*

If you answered "Yes" to the above question, please provide the name of the funding source(s) and the amount in dollars.

City of Eden Prairie - \$1500?

## Authorization to Submit Application

Provide name of property owner(s) or responsible party authorized to submit this application and sign the grant agreement.

# Stewardship Grant Application - Restorations, BMPs, and Other Projects 2023

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Authorized Representative Name \*

Scott Anderson

Role \*

General Manager

*(e.g. homeowner, HOA president, business owner, job title)*

Date \*

March-10-2023

*MMMM-dd-yyyy*

I/we submit this application for consideration for a RPBCWD Stewardship Grant \*

Single Line

I believe photos were submitted in 2021



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## Restoration Proposal for:

Mr. Scott Anderson – The Preserve in Eden Prairie

**Proposal Date: March 10, 2023**

**Prepared by:**

Bill Bartodziej M.S., Senior Restoration Ecologist  
Natural Shore Technologies, Inc.  
612.730.1542 [bill.b@naturalshore.com](mailto:bill.b@naturalshore.com)





USING ECOLOGY TO RESTORE LAND AND WATER

612.703.7581 | naturalshore.com | Office & Nursery 1480 County Rd 90 Independence, MN 55359

March 10, 2023

Dear Scott:

Thank you again for giving Natural Shore Technologies the opportunity to bid on your project. Below is a *Project Summary* which outlines our *restoration methods* and *cost breakdown*. We would like to emphasize that we tailor our restoration approach to fit your site characteristics and specific objectives. We look forward to continuing our partnership with you to produce exceptional restorations that exceeds your expectations.

We would enjoy the chance to answer any questions that you have regarding this restoration proposal. We take great pride in our reputation and attention to customer satisfaction. After you have read through and are comfortable with the proposed plan and specified cost, please sign the contract that is provided. A down payment and a signed contract are required to book your project.

Best regards,

Bill Bartodziej, M.S.  
Senior Restoration Ecologist, Natural Shore

## ***Project Summary – North of PKWY restoration areas***

1. Dimensions: **North Triangle** – 18,200 SF, **Boulevard** – 4,200 SF, **Wooded Knoll** – 5,400 SF
2. Site assessment and plan development include: detailed site preparation methods, plant and selection, and a project timeline and work schedule for our staff.
3. Delineate and verify total restoration project area.
4. Design planting so that flowering will occur at different periods throughout the growing season.
5. Kill all turf in the restoration area and treat any invasive weeds in the wooded knoll.
6. Drill in a custom prairie seed mix into the dead turf. Make several passes in a grid pattern. An oats cover crop will also be seeded.
7. Cover the triangle area with weed-free straw. The boulevard will be covered with NAG S75-BN erosion control blanket.
8. Lay out plants into plant zones per plan specifications.
9. We will use 1,991 – 3” and 4” container plants for your restorations. These are more conservative plant species that do not do well from seed. These are much more robust than the 2” plugs and have a higher survival rate.
10. Install all plants @ approximately 3-4’ centers. We will install more showy species closer to the walking pathway.
11. Site monitoring and maintenance will be provided, although not included in the bid.





## **Project Cost**

This bid includes project design, management, all materials, and labor.

Site Design, Project Management, Mobilization	\$2,540.00
Site preparation, herb. trts, seedings, EC - clean straw cover	\$4,472.80
2,194 Plants - 3" and 4" -containers @ 3-4' spacing, custom seed mix	\$11,089.50
EC blanket along roadway, NAG SC150BN	\$1,680.00
<b>TOTAL =</b>	<b>\$19,782.30</b>

## **Site maintenance** (not included in this bid)

Site maintenance includes three visits per year during the growing season to monitor and conduct activities that will ensure proper restoration establishment. We use the most appropriate, up-to-date maintenance techniques such as targeted herbicide application, hand pulling, mowing, and spot weed whipping to effectively control invasive weeds. Our lead maintenance supervisor has a B.S. in Biology and 10 years of field experience.

***\*Note we do offer long-term maintenance contracts. Over 90% of our clients use that service.***

## **Staff Qualifications**

Our company has over 50 years of combined ecological restoration experience. We are a local company that focuses on quality ecological restoration in the Metro area. Our clients vary from private estates on Lake Minnetonka, to large corporate headquarters in Eden Prairie. We also work with many city and county governments and watershed management organizations. We are fully insured.

Our specialty is lakeshore and wetland restoration. We have restored many miles of lakeshore in Minnesota, more than any other company. Please see our portfolio for examples of our restoration projects that include; shorelines, wetlands, prairies, savannas, and rain gardens.

Please see our **project photo book** at: <http://www.blurb.com/books/6034090-natural-shore-technologies-inc-photobook>

## Natural Shore Technologies Plant Material

We have commercial and retail greenhouses in Maple Plain. Our plants are Minnesota native perennials that will flourish year after year. Utilizing our own plant material in our projects assure quality control. Our wetland and prairie plants are guaranteed to establish during the first growing season. Perennial plants put most of their energy into establishing root systems so please keep in mind that the first year of growth will be mainly underground. You will see some flowering the first year, but significantly more flowering during the second year of establishment.

Information about our **retail native plant greenhouses** located in Maple Plain is also available at: [www.naturalshore.com](http://www.naturalshore.com)

## Guarantee

We stand by our native plant material and our ecological restoration services.

Native plants that we install are guaranteed to establish during the first growing season. Any plant material that does not make it through the first growing season will be replaced at no charge to the client.

On projects that we install and manage, we will guarantee successful establishment of your ecological restoration within three full growing seasons. This proposal provides a plan for accomplishing the restoration of the project site. If successful establishment does not occur within three growing seasons, all necessary steps will be taken to ensure the

eventual success of the project, at no additional charge. For purposes of this guarantee, successful establishment is defined as follows: That the presence of at least 80% of the original seeded or planted species can be found on the site, and that the overall density of vegetation is comprised of no less than 80% native species.

The only exceptions to this guarantee have to do with plant death due to acts of God (floods or drought) the actions of others (vandalism), or animal herbivory (e.g., geese, muskrats). If these extreme circumstances do happen to occur, we will work with the client at a reduced rate to make all necessary repairs.

Our goal will always be to create successful, long-term partnerships with our clients. Our guarantee is the best in the business, and provides you with a clear understanding that we are here to fully support your ecological restoration endeavor.

## **Contract**

A down payment of \$9,500.00 is required to schedule your project.

The remainder of the project cost is due at project completion.

*Please note that this proposal is valid for 30 days from the date on this Contract.*

If you would like to proceed with the above outlined project, please sign the contract below.

**Client name:** Mr. Anderson, The Preserve

**Contract Value:** \$19,782.30

**Signed:** \_\_\_\_\_ **Date** \_\_\_\_\_

**Contractor:** *Natural Shore Technologies, Inc.*

**Signed:**

**Contract Date:** Contract Date for 30 Day term



William M. Bartodziej, M.S.

Senior Restoration Ecologist, Natural Shore Technologies

***Please return a signed copy of this contract and a check to:***

Natural Shore Technologies, Inc.  
6275 Pagenkopf Rd.  
Maple Plain, MN 55359



***Using Ecology to Restore Land and Water***

**Seed mix for project area.** In addition to seed, approximately 2,000 3-4" potted plants (which don't do well from seed) will be planted in the project area.

### Savanna Mix - 1 acre

Common Name	Scientific name	weight (oz)	notes- seed/oz
<b>Grass/Sedge (8 species)</b>			
Plains Oval Sedge	<i>Carex brevior</i>	5	25,000
Field oval sedge	<i>Carex molesta</i>	3	10,000
Long-beaked sedge	<i>Carex sprengeii</i>	12	7,600
Canada rye	<i>Elymus canadensis</i>	64	5,200
Bottlebrush grass	<i>Elymus hystrix</i>	10	5,500
Silky wild rye	<i>Elymus villosus</i>	48	4,200
Virginia wild rye	<i>Elymus virginicus</i>	9	29,000
Little bluestem	<i>Schizachyrium scoparium</i>	48	15,000
<b>total =</b>		<b>199</b>	

**12.44**

Forb (21 species)	Scientific name	weight (oz)	notes- seed/oz
Canada anemone	<i>Anemone canadensis</i>	1.00	8,000
Tall thimbleweed	<i>Anemone virginiana</i>	0.25	28,000
Wild columbine	<i>Aquilegia canadensis</i>	1.00	30,000
White indigo	<i>Baptisia alba</i>	2.00	1,700
Blue wild indigo	<i>Baptisia australis</i>	2.00	1,500
Hairy wood mint	<i>Blephilia hirsuta</i>	0.25	240,000
Purple coneflower	<i>Echinacea purpurea</i>	5.00	6,600
Pale purple coneflower	<i>Echinacea pallida</i>	3.00	5,200
Big leaf aster	<i>Eurybia macrophylla</i>	0.25	27,000
Blue bottle gentian	<i>Gentiana andrewsii</i>	0.50	280,000
Cream gentian	<i>Gentiana flavida</i>	1.00	140,000
Early sunflower	<i>Heliopsis helianthoides</i>	3.00	4,600
Wild bergamot	<i>Monarda fistulosa</i>	0.50	70,000
Foxglove beardtongue	<i>Penstemon digitalis</i>	0.50	130,000
Large-flowered Beardtongue	<i>Penstemon grandiflorus</i>	2.00	14,000
Jacob's ladder	<i>Polemonium reptans</i>	0.50	18,000
Hairy mountain mint	<i>Pycnanthemum verticillatum</i>	0.25	185,000
Black-eyed susan	<i>Rudbeckia hurta</i>	6.00	6,600
Calico aster	<i>Symphotrichum lateriflorum</i>	0.25	250,000
Spiderwort	<i>Tradescantia ohiensis</i>	2.00	8,000
Golden alexander	<i>Zizia aurea</i>	2.00	11,000
<b>total =</b>		<b>33.250</b>	

**2.08**