

VLAWMO TECHNICAL COMMISSION MEETING

8:00 AM April 13th, 2022

Vadnais Heights City Hall, Council Chambers, 800 County Road E East, Vadnais Heights, MN 55127

Action items: ✎

- I. Call to Order – 8:00am –Chair Jesse Farrell
- II. Approval of Agenda
- III. Approval of Minutes (March 9th, 2022) p. 2
- IV. Administration & Operations
 - A. Welcome Lauren
 - B. Financial Report for Payment – Phil ✎ p. 7
 - C. TEC Report to the Board – Phil ✎ p. 15
- V. Programs
 - A. Education & Outreach – Nick
 - 1. Community Blue: CB 2022-01 – Good Neighbor Guide ✎ p. 21
 - 2. Community Blue: CB 2022-02 – Saint Mary’s Raingarden retrofit ✎ p. 28
 - 3. Community Blue: CB 2022-minigrant-01 - Vadnais Heights Elementary raingarden retrofit p. 34
 - B. Cost Share Program
 - 1. SHG 2022-03 – Scherer - Nick ✎ p. 36
 - 2. SHG 2022-04 – City of White Bear Lake – Nick ✎ p. 46
 - 3. LL2 2022-01 North Oaks HOA – Lauren ✎ p. 54
- VI. Projects
 - A. Wilkinson/319 update – Dawn p. 63
 - B. Vadnais/Sucker Park buckthorn removal update – Dawn p. 17
 - C. Carp update - Dawn p. 17
- VII. Commissioner Reports
- VIII. NOHOA
- IX. Ramsey Soil & Water Conservation Division
- X. St. Paul Regional Water Services
- XI. Public Comment
- XII. Next Meetings: TEC: May 11th, Regular Board Meeting: April 27, 2022
- XIII. Adjourn

Upcoming events:

April 12th Resilient Yards
April 14: Drought Recovery for Your Lawn
April 28th: Cost-share Open House
May 5th: Resilient Yards
May 5th: Good Neighbor Guide WAV Planning
May 10th: Turf Maintenance (MS4)
Oct 13th: Smart Salting (MS4)

**Vadnais Lake Area Water Management Organization
Technical Commission Minutes
March 9th, 2022
Vadnais Heights City Hall, Council Chambers
800 County Road E East, Vadnais Heights, MN 55127**

Commission Members Present:

| | |
|----------------|-----------------------------|
| Jesse Farrell | Chair, Vadnais Heights (VH) |
| Gloria Tessier | Vice Chair, Gem Lake (GL) |
| Bob Larson | Tresurer, North Oaks (NO) |
| Terry Huntrods | White Bear Lake (WBL) |
| Paul Duxbury | White Bear Township (WBT) |
| Andy Nelson | Lino Lakes (LL) |

Absent: None

Others in attendance: Phil Belfiori, Brian Corcoran, Nick Voss (VLAWMO staff); Rachel Olm (Houson Engineering), Justine Rowe, (SPRWS), Ed Shapland (Watershed Action Volunteers/CAC), Nick Ouski (City of Vadnais Heights), Patricia Orud (NOHOA).

I. Call to Order

Chair Jesse Farrell called the meeting to order at 8:00am

II. Approval of Agenda

It was moved by Tessier and seconded by Larson to approve the February 8th, 2022 TEC agenda as presented. Vote: All aye, motion passed.

III. Approval of Minutes (Feb 9th, 2022)

It was moved by Huntrods and seconded by Larson to approve the February, 2022 meeting minutes, as presented. Vote: all eye. Motion passed.

IV. Administration & Operations

A. Financial Report for March

Belfiori presented the Finance report for the month of March as included in the March TEC packet. Belfiori noted unique items for this report includes the audit, work on strategic direction process and the Birch Lake vegetation restoration, and Adaptive Plant Management consultant work. Staff recommended approval of financial report.

It was motioned by Tessier and seconded by Larson to approve the February Treasurer's Report and authorization of payments. Vote: All aye, motion passed.

B. Discussion on draft Partnership Project Planning Table

Belfiori introduced the draft strategic plan table and also reviewed the strategic discussion with the Board at their January Workshop. Belfiori described trends for what VLAWMO has invested in since 2017, and observed that current budget funding covers a better balance of multiple priority issues than it did in the past. Olm (Houston Engineering) presented the results of the Board survey as outlined in the TEC packet presentation.

Farrell noted White Bear Lake groundwater issues in recent years and the general raised public concern, and asked how groundwater ties into the definition of what WMO's does. Belfiori explained that groundwater has multi-management governance, with many state and higher-level entities. Currently, watersheds around the Metro are varied between not being as involved due to the existence of many entities already involved, or to create another layer of involvement. The groundwater issue are further divided into quality and quantity, each with their own regulations. Belfiori expected a possible increase in VLAWMO's focus according to the Board's input in January particularly related to groundwater quantity. This could include cost-share efforts for irrigation related items.

Phil introduced the draft table of projects. Summarized that meetings / discussions from all 10 entities is included in the table. Reviewed rough draft possible partnership projects listed on the table per each subwatershed as was contained in the slides in the packet.

- Gem Lake- no comments
- Lambert Subwatershed – no comments
- Goose Lake Subwatershed- no comments
- Birch Lake Subwatershed – no comments
- Gilfillan-Tamarack-Black- Wilkinson-Amelia – no comments
- Pleasant-Charley-Depp Lakes – no comments
- Sucker-East and West Vadnais Lakes – no comments

Belfiori described the 7 steps that the strategic plan table will go through before it becomes finalized within the VLAWMO watershed plan amendment.

Farrell asked about White Bear Lake augmentation, or sometimes referred to as aquifer recharge, and inquired about whether lakes should be fed with water outside of their natural watershed. He noted that this comes along with emerging surface water issues such as pharmaceuticals and micro-plastics, and that these emerging contaminants could accumulate in a lake that doesn't have an equal outflow. Belfiori confirmed that augmentation strategies could create possible complications, including higher risks for aquatic invasive species, infrastructure, hydrology, and landowner impacts along the route, among others.

Phil summarized the presentation noting that the costs and dates associated with the possible partnership projects in the draft table are very rough and will change. He also noted that the draft table identifies rough estimated project costs upwards of 5 million or even a bit more and that VLAWMO cannot do it on their own and need the Partners to make many /most of these projects happen.

Tessier expressed an interest and support for partnerships with local golf courses. She also asked why groundwater quality and quantity were grouped together if they are two different topics. Belfiori noted that the original 2017-2026 VLAWMO water plan had them grouped together, but that was further discussed by the Board at the January, 2022 workshop.

Farrell commented that local flooding funding appears to coincide with years of high water levels and record precipitation. Farrell supported a strategy that strives for a sustainable, consistent approach to flood and drainage management, including efforts conducted in dry years.

It was motioned by Huntrods and seconded by Farrell to recommend to the VLAWMO Board /Board Subcommittee that the attached draft table generally captures a high-level plan for partnership projects for the VLAWMO. Vote: All aye, motion passed.

C. Annual Report Highlights

Voss presented a summary of the 2021 Annual report to the TEC. He noted this is a requirement to submit annually to State agencies. He summarized the highlights to 2021 cost share program, 2021's project partnerships, Lambert Creek maintenance from the fall of 2021, MS4 support provided by VLAWMO to its member communities, and the letter to the public from the Administrator.

It was motioned by Tessier to approve and seconded by Larson to approve the draft 2021 annual report. Vote: All aye, motion passed.

D. Water Monitoring Report Highlights

Brian Corcoran provided a presentation of highlights of the report including identifying that he monitors 15 lakes and 6 streams each year. He summarized which type of samples he collects and which pollutants are tested. He also does some project specific sampling such as the recent spent lime demonstration project. He presented the TSI data and explained the purpose and which lakes are of highest and lowest quality waterbodies. He noted little noticeable change year to year in which lakes are higher and lower quality. Farrell identified that most lakes TP data appears to be slightly improving from 2016 to 2021. Corcoran noted that 5 years is a short-term trend. Voss then presented summary graphs for the public related to the big four pollutants.

E. Update on VLAWMO Board of Directors officers for 2022

Belfiori updated the TEC on the Board of Director appointments that resulted from the February 2022 Board meeting.

V. Programs

A. Education & Outreach

1. 2022 WAV and education program outline

Voss provided a presentation on the 2022 public education work plan. He summarized the topics of guest speaker presentations planned this year. He also highlighted a partnership planned with RCWD and RWMWD related to raingarden maintenance. He also discussed workshop from Blue Thumb. New this year is Watershed Care Calendar, which he noted is part of the MS4 program.

VI. Projects

A. proposed 319/Wilkinson BMP update

Belfiori outlined the 319/Wilkinson Lake actions approved by the Board in February, 2022. These include pursuing site investigation with consultants, project access and maintenance agreement with the landowner and a grant agreement with the MPCA, among others.

B. Sucker/East Vadnais Lake SLMR

Belfiori outland the draft East Vadnais SLMR, outlining watershed features, in-lake features, and possible best management practices identified in the report. Staff recommends approval of the SLMR report.

It was motioned by Duxbury and seconded by Huntrods to approve the draft Sucker/East Vadnais Lake SLMR. Vote: All aye, motion passed.

C. Lino Lakes Lake Amelia study update

Belfiori explained the VLAWMO is partnering with the City on a study of possible future restoration opportunities in the area upstream of Lake Amelia.

D. Biochar and BWSR amendment update

Belfiori explained that the proposal is to create a biochar bench at Whitaker Pond. Two grants are proposed to be incorporated into some of the project funding including the 319 grant and the BWSR WBF grant.

E. Aquatic Plant Management Board position update

Belfiori provided an update from the January, 2022 Board of Directors meeting concerning the Board's position on aquatic plant management. These were provided in the TEC packet, and read as follows:

- Lead or partner to conduct aquatic plant monitoring and/or education

- Lead or partner for in-lake treatment/removal of Curly-leaf pondweed for water quality benefits as they align with the priorities of the VLAWMO Capital Improvements and Programs Plan.
- Technical support and/or partner for management of other aquatic invasive species (AIS) besides Curly-leaf pondweed
- Lead in-lake treatment/removal of other AIS to support ecological health and/or water quality on a project-by-project basis
- Lead or partner on native-plant introduction to support a desirable native-plant community as determined by best available science

This role precludes APM for recreation benefit and assumes that financial participation will be decided based on available budgets.

VII. Commissioner Reports

Vadnais Heights: Farrell introduced a new City staff member, Nick Ouski, who will be working with the City's engineering department. One of the new potentials based on Nick's experience is to include drone visuals to enhance communications.

Belfiori announced that VLAWMO's vacant position has been filled and the new staff member will be present at the next VLAWMO TEC meeting.

VIII. NOHOA

None

IX. Ramsey Soil & Water Conservation Division

None

X. St. Paul Regional Water Services

None

XI. Public Comment

None

XII. Next Meetings:

Next TEC meeting April 13th, Next BOD meeting April 27th.

XIII. XII. Adjourn

It was moved by Tessier and seconded by Larson to adjourn the meeting at 9:20 am. Vote: all aye. Motion passed.

Minutes compiled by Nick Voss.

Financial Report - April, 2022

| Apr-22 | | Actual 4/1/22 | Actual to Date | 2022 Budget | 2021 carry over/Grants | Remaining in Budget | 2022 Available | Act vs. Budget |
|---|--|-----------------|------------------|--------------------|------------------------|---------------------|--------------------|----------------|
| BUDGET # | INCOME | | | | | | | |
| 5.11 | Storm Water Utility | \$0 | \$440,247 | \$1,019,521 | \$0 | \$579,274 | \$1,019,521 | 43% |
| 5.12 | Service Fees | \$0 | \$0 | \$200 | \$0 | \$200 | \$200 | 0% |
| 5.13 | Interest + mitigation acct | \$47 | \$89 | \$1,500 | \$0 | \$1,411 | \$1,500 | 6% |
| 5.14 | Misc. income - WCA admin & other | \$0 | \$1,876 | \$3,000 | \$0 | \$1,124 | \$3,000 | 63% |
| 5.15 | Other Income Grants/loan | \$0 | \$29,519 | \$324,500 | \$0 | \$294,981 | \$324,500 | 9% |
| 5.16 | Transfer from reserves | \$0 | \$0 | \$192,367 | \$133,751 | \$326,118 | \$326,118 | 0% |
| | TOTAL | \$47 | \$471,731 | \$1,541,088 | \$133,751 | \$1,203,108 | \$1,674,839 | 31% |
| EXPENSES | | | | | | | | |
| 3.1 | Operations & Administration | | | | | | | |
| 3.110 | Office - rent, copies, post tel supplies | \$2,023 | \$8,050 | \$27,097 | \$0 | \$19,047 | \$27,097 | 30% |
| 3.120 | Information Systems | \$2,489 | \$8,596 | \$25,865 | \$0 | \$17,269 | \$25,865 | 33% |
| 3.130 | Insurance | \$0 | \$0 | \$7,210 | \$0 | \$7,210 | \$7,210 | 0% |
| 3.141 | Consulting - Audit | \$1,260 | \$4,410 | \$8,191 | \$0 | \$3,781 | \$8,191 | 54% |
| 3.142 | Consulting - Bookkeeping | \$0 | \$0 | \$1,500 | \$0 | \$1,500 | \$1,500 | 0% |
| 3.143 | Consulting - Legal | \$192 | \$192 | \$5,000 | \$0 | \$4,808 | \$5,000 | 4% |
| 3.144 | Consulting - Eng. & Tech. | \$4,385 | \$13,588 | \$30,000 | \$14,000 | \$30,412 | \$44,000 | 31% |
| 3.150 | Storm Sewer Utility | \$0 | \$640 | \$14,000 | \$0 | \$13,360 | \$14,000 | 5% |
| 3.160 | Training (staff/board) | \$7,500 | \$7,735 | \$12,500 | \$0 | \$4,765 | \$12,500 | 62% |
| 3.170 | Misc. & mileage | \$226 | \$586 | \$6,300 | \$0 | \$5,714 | \$6,300 | 9% |
| 3.191 | Administration - staff | \$25,528 | \$118,637 | \$391,400 | \$0 | \$272,763 | \$391,400 | 30% |
| 3.192 | Employer Liability | \$8,059 | \$35,668 | \$114,425 | \$0 | \$78,757 | \$114,425 | 31% |
| 3.2 | Monitoring and Studies | | | | | | | |
| 3.210 | Lake and Creek lab analysis | \$0 | \$0 | \$18,000 | \$0 | \$18,000 | \$18,000 | 0% |
| 3.220 | Equipment | \$201 | \$361 | \$3,000 | \$0 | \$2,639 | \$3,000 | 12% |
| 3.230 | Wetland assessment & management | \$0 | \$0 | \$15,000 | \$0 | \$15,000 | \$15,000 | 0% |
| 3.240 | Watershed Plan Amendment | \$0 | \$0 | \$15,000 | \$0 | \$15,000 | \$15,000 | 0% |
| 3.3 | Education and Outreach | | | | | | | |
| 3.310 | Public Education | \$0 | \$67 | \$6,000 | \$0 | \$5,933 | \$6,000 | 1% |
| 3.320 | Marketing | \$756 | \$3,895 | \$17,500 | \$0 | \$13,605 | \$17,500 | 22% |
| 3.330 | Community Blue Ed Grant | \$0 | \$0 | \$2,000 | \$0 | \$2,000 | \$2,000 | 0% |
| <i>Total Core functions: Ops, Monitoring, Education</i> | | <i>\$52,619</i> | <i>\$202,425</i> | <i>\$719,988</i> | <i>\$14,000</i> | <i>\$531,563</i> | <i>\$733,988</i> | <i>28%</i> |
| Capital Improvement Projects and Programs | | | | | | | | |

| | | | | | | | | |
|--------------|---|-----------------|------------------|--------------------|------------------|--------------------|--------------------|------------|
| 3.4 | Subwatershed Activity | | | | | | | |
| 3.410 | Gem Lake | \$0 | \$0 | \$10,000 | \$0 | \$10,000 | \$10,000 | |
| 3.420 | Lambert Creek | \$0 | \$5,176 | \$44,432 | \$70,000 | \$109,256 | \$114,432 | 5% |
| 3.421 | Lambert Lake Loan | \$0 | \$0 | \$38,568 | \$0 | \$38,568 | \$38,568 | 0% |
| 3.425 | Goose Lake | \$1,322 | \$19,665 | \$70,000 | \$10,000 | \$60,335 | \$80,000 | 25% |
| 3.430 | Birch Lake | \$0 | \$4,145 | \$10,000 | \$0 | \$5,855 | \$10,000 | 41% |
| 3.440 | Gilf Black Tam Wilk Amelia | \$497 | \$15,532 | \$93,500 | \$12,000 | \$89,968 | \$105,500 | 15% |
| 3.450 | Pleasant Charley Deep | \$3,608 | \$7,786 | \$35,000 | \$10,000 | \$37,214 | \$45,000 | 17% |
| 3.460 | Sucker Vadnais | \$373 | \$373 | \$41,500 | \$0 | \$41,127 | \$41,500 | 1% |
| 3.48 | Programs | | | | | | | |
| 3.480 | Soil Health Grant | \$0 | \$111 | \$5,000 | \$0 | \$4,889 | \$5,000 | 2% |
| 3.481 | Landscape 1 | \$0 | \$0 | \$16,000 | \$0 | \$16,000 | \$16,000 | 0% |
| 3.482 | Landscape 2 | \$0 | \$6,826 | \$28,000 | \$17,751 | \$38,925 | \$45,751 | 15% |
| 3.483 | Project Research & feasibility | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | #DIV/0! |
| 3.485 | Facilities Maintenance | \$0 | \$34,966 | \$102,600 | \$0 | \$67,634 | \$102,600 | 34% |
| 3.5 | Regulatory | | | | | | | |
| 3.510 | Engineer Plan review | \$0 | \$0 | \$2,000 | \$0 | \$2,000 | \$2,000 | 0% |
| | <i>Total CIP & Program</i> | \$5,800 | \$94,580 | \$496,600 | \$119,751 | \$521,771 | \$616,351 | 15% |
| | Total of Core Operations & CIP | \$58,419 | \$297,005 | \$1,216,588 | \$133,751 | \$1,053,334 | \$1,350,339 | 22% |

| Fund Balance | 3/1/2022 | 4/1/2022 |
|---------------------|------------------|------------------|
| 4M Account | \$651,935 | 584134 |
| 4M Plus Savings | \$324,220 | 324240 |
| Total | \$976,155 | \$908,374 |

| Restricted funds | 4/1/2022 |
|-------------------------|----------|
| Mitigation Savings | \$21,012 |
| Term Series | \$0 |

Vadnais Lake Area Water Management Orga
Profit & Loss
March 10 through April 13, 2022

10:27 AM

04/04/2022

Cash Basis

Mar 10 - Apr 13, 22

| | |
|--|------------------|
| Ordinary Income/Expense | |
| Income | |
| 5.1 · Income | |
| 5.13 · Interest | 47.07 |
| Total 5.1 · Income | 47.07 |
| Total Income | 47.07 |
| Gross Profit | 47.07 |
| Expense | |
| 3.1 · Administrative/Operations | |
| 3.110 · Office | |
| Copies | 48.68 |
| Phone/Internet/Machine Overhead | 295.00 |
| Postage | 14.72 |
| Rent | 1,665.00 |
| Total 3.110 · Office | 2,023.40 |
| 3.120 · Information Systems | |
| Hardware | 1,189.00 |
| IT Support | 1,300.19 |
| Total 3.120 · Information Systems | 2,489.19 |
| 3.141 · Audit | 1,260.00 |
| 3.143 · Legal | 191.63 |
| 3.144 · Eng. & Tech. | 4,385.61 |
| 3.160 · Training (staff/board) | 7,500.00 |
| 3.170 · Misc. & mileage | 226.32 |
| 3.191 · Employee Payroll | |
| payroll | 25,528.01 |
| Total 3.191 · Employee Payroll | 25,528.01 |
| 3.192 · Employer Liabilities | |
| Admin payroll processing | 44.92 |
| Administration FICA | 1,833.72 |
| Administration PERA | 1,914.60 |
| Insurance Benefit | 4,266.10 |
| Total 3.192 · Employer Liabilities | 8,059.34 |
| Total 3.1 · Administrative/Operations | 51,663.50 |
| 3.2 · Monitoring and Studies | |
| 3.220 · Equipment | 201.13 |
| Total 3.2 · Monitoring and Studies | 201.13 |
| 3.3 · Education and Outreach | |
| 3.320 · Marketing | 756.22 |
| Total 3.3 · Education and Outreach | 756.22 |
| 3.4 · Capital Imp. Projects/Programs | |
| 3.425 · Goose Lake | 1,322.00 |

| | |
|---|--------------------------|
| 3.440 · Gilfillan Black Tamarack Wilkin | 496.80 |
| 3.450 · Pleasant Charley Deep | 3,608.00 |
| 3.460 · Sucker Vadnais | 372.60 |
| Total 3.4 · Capital Imp. Projects/Programs | 5,799.40 |
| Total Expense | 58,420.25 |
| Net Ordinary Income | -58,373.18 |
| Net Income | <u>-58,373.18</u> |

Vadnais Lake Area Water Management Organization
Check Detail
March 10 through April 13, 2022

10:30 AM
04/04/2022

| Type | Num | Date | Name | Item | Account | Paid Amount | Original Amount |
|-------|------|------------|-------------------|--------------------------------|-----------------|-------------|-----------------|
| Check | eft | 03/23/2022 | further | | Checking - 1987 | | -5.00 |
| | | | | Insurance Benefit | | -5.00 | 5.00 |
| TOTAL | | | | | | -5.00 | 5.00 |
| Check | eft | 04/01/2022 | Reliance Standard | | Checking - 1987 | | -313.76 |
| | | | | Insurance Benefit | | -90.00 | 90.00 |
| | | | | Insurance Benefit | | -223.76 | 223.76 |
| TOTAL | | | | | | -313.76 | 313.76 |
| Check | 5315 | 03/10/2022 | SEH | | Checking - 1987 | | -1,805.25 |
| | | | | 3.144 · Eng. & Tech. | | -1,805.25 | 1,805.25 |
| TOTAL | | | | | | -1,805.25 | 1,805.25 |
| Check | 5316 | 04/13/2022 | Dawn Tanner | | Checking - 1987 | | -56.75 |
| | | | | 3.170 · Misc. & mileage | | -56.75 | 56.75 |
| TOTAL | | | | | | -56.75 | 56.75 |
| Check | 5317 | 04/13/2022 | Brian Corcoran | | Checking - 1987 | | -77.22 |
| | | | | 3.170 · Misc. & mileage | | -77.22 | 77.22 |
| TOTAL | | | | | | -77.22 | 77.22 |
| Check | 5318 | 04/13/2022 | Nicholas Voss | | Checking - 1987 | | -92.35 |
| | | | | 3.170 · Misc. & mileage | | -92.35 | 92.35 |
| TOTAL | | | | | | -92.35 | 92.35 |
| Check | 5319 | 04/13/2022 | MAWD | | Checking - 1987 | | -7,500.00 |
| | | | | 3.160 · Training (staff/board) | | -7,500.00 | 7,500.00 |
| TOTAL | | | | | | -7,500.00 | 7,500.00 |
| Check | 5320 | 04/13/2022 | Bob Dahm | | Checking - 1987 | | -150.00 |
| | | | | 3.320 · Marketing | | -150.00 | 150.00 |
| TOTAL | | | | | | -150.00 | 150.00 |
| Check | 5321 | 04/13/2022 | SEH | | Checking - 1987 | | -1,837.46 |
| | | | | 3.144 · Eng. & Tech. | | -1,837.46 | 1,837.46 |
| TOTAL | | | | | | -1,837.46 | 1,837.46 |

| | | | | |
|-------|-------------------|---|---|----------------------------------|
| | Check 5322 | 04/13/2022 CliftonLarsonAllen | Checking - 1987 | -1,260.00 |
| | | | 3.141 · Audit | -1,260.00 1,260.00 |
| TOTAL | | | | <u>-1,260.00</u> <u>1,260.00</u> |
| | Check 5323 | 04/13/2022 City of Vadnais Heights | Checking - 1987 | -2,023.40 |
| | | | Rent | -1,665.00 1,665.00 |
| | | | Phone/Internet/Machine Overhead | -295.00 295.00 |
| | | | Postage | -14.72 14.72 |
| | | | Copies | -48.68 48.68 |
| TOTAL | | | | <u>-2,023.40</u> <u>2,023.40</u> |
| | Check 5324 | 04/13/2022 Kennedy & Graven, Chartered | Checking - 1987 | -1,123.13 |
| | | | 3.144 · Eng. & Tech. | -62.10 62.10 |
| | | | 3.143 · Legal | -191.63 191.63 |
| | | | 3.460 · Sucker Vadnais | -372.60 372.60 |
| | | | 3.440 · Gilfillan Black Tamarack Wilkin | -496.80 496.80 |
| TOTAL | | | | <u>-1,123.13</u> <u>1,123.13</u> |
| | Check 5325 | 04/13/2022 Kennedy & Graven, Chartered | Checking - 1987 | -346.80 |
| | | | 3.144 · Eng. & Tech. | -346.80 346.80 |
| TOTAL | | | | <u>-346.80</u> <u>346.80</u> |
| | Check 5326 | 04/13/2022 City Of Roseville | Checking - 1987 | -1,300.19 |
| | | | IT Support | -1,300.19 1,300.19 |
| TOTAL | | | | <u>-1,300.19</u> <u>1,300.19</u> |
| | Check 5327 | 04/13/2022 Houston Engineering, Inc | Checking - 1987 | -334.00 |
| | | | 3.144 · Eng. & Tech. | -334.00 334.00 |
| TOTAL | | | | <u>-334.00</u> <u>334.00</u> |
| | Check 5328 | 04/13/2022 SHI International Corp | Checking - 1987 | -1,189.00 |
| | | | Hardware | -1,189.00 1,189.00 |
| TOTAL | | | | <u>-1,189.00</u> <u>1,189.00</u> |
| | Check 5329 | 04/13/2022 FastSigns | Checking - 1987 | -166.52 |
| | | | 3.320 · Marketing | -166.52 166.52 |
| TOTAL | | | | <u>-166.52</u> <u>166.52</u> |
| | Check 5330 | 04/13/2022 VHEDC | Checking - 1987 | -80.00 |
| | | | 3.320 · Marketing | -80.00 80.00 |
| TOTAL | | | | <u>-80.00</u> <u>80.00</u> |

| | | | | |
|-------|-------------------|---|-------------------------------|----------------------------------|
| | Check 5331 | 04/13/2022 Barr Engineering Co | Checking - 1987 | -1,322.00 |
| | | | 3.425 · Goose Lake | -1,322.00 1,322.00 |
| TOTAL | | | | <u>-1,322.00 1,322.00</u> |
| | Check 5332 | 04/13/2022 wsb | Checking - 1987 | -3,608.00 |
| | | | 3.450 · Pleasant Charley Deep | -2,522.00 2,522.00 |
| | | | 3.450 · Pleasant Charley Deep | -1,086.00 1,086.00 |
| TOTAL | | | | <u>-3,608.00 3,608.00</u> |
| | Check 5333 | 04/13/2022 City of White Bear Lake | Checking - 1987 | -33,268.59 |
| | | | payroll | -25,528.01 25,528.01 |
| | | | Administration FICA | -1,833.72 1,833.72 |
| | | | Administration PERA | -1,914.60 1,914.60 |
| | | | Insurance Benefit | -3,947.34 3,947.34 |
| | | | Admin payroll processing | -44.92 44.92 |
| TOTAL | | | | <u>-33,268.59 33,268.59</u> |

Vadnais Lake Area Water Management Organization
Custom Transaction Detail Report
February 1 through April 1, 2022

1:15 PM

04/01/2022

Accrual Basis

| Type | Date | Num | Name | Memo | Account | Clr | Split | Amount | Balance |
|--------------------|------------|-----|-------------------------|---------------------------|------------|-----|--------------------------------|---------------|---------------|
| Feb 1 - | | | | | | | | | |
| Apr 1, | | | | | | | | | |
| 22 | | | | | | | | | |
| Credit Card Charge | 02/03/2022 | | Google*SVCAPPS_VLAWM | | US Bank CC | √ | WEB | 36.00 | 36.00 |
| Credit Card Charge | 02/09/2022 | | adobe *photography plan | | US Bank CC | √ | Software | 9.99 | 45.99 |
| Credit Card Charge | 02/11/2022 | | Prairie Moon Nursery | plants | US Bank CC | √ | 4th & Otter project | 1,000.00 | 1,045.99 |
| Transfer | 02/21/2022 | | | Funds Transfer | US Bank CC | √ | Checking - 1987 | -930.69 | 115.30 |
| Credit Card Charge | 02/28/2022 | | Adobe "Creative Cloud | | US Bank CC | √ | Software | 32.20 | 147.50 |
| Credit Card Charge | 03/02/2022 | | University of Minnesota | project management - dawn | US Bank CC | √ | 3.160 · Training (staff/board) | 235.00 | 382.50 |
| Credit Card Charge | 03/02/2022 | | Google*SVCAPPS_VLAWM | | US Bank CC | √ | WEB | 36.00 | 418.50 |
| Credit Card Charge | 03/18/2022 | | Prairie Moon Nursery | plants | US Bank CC | | 3.220 · Equipment | 21.00 | 439.50 |
| Credit Card Charge | 03/23/2022 | | Lenovo | chromebook | US Bank CC | | 3.320 · Marketing | 359.70 | 799.20 |
| Credit Card Charge | 03/29/2022 | | Ace Hardware | hammer & bucket | US Bank CC | | 3.220 · Equipment | 62.93 | 862.13 |
| Credit Card Charge | 03/31/2022 | | Ace Hardware | weed killer for workday | US Bank CC | | 3.220 · Equipment | 69.97 | 932.10 |
| Credit Card Charge | 03/31/2022 | | Ace Hardware | weed killer for workday | US Bank CC | | 3.220 · Equipment | 47.23 | 979.33 |
| | | | | | | | | 979.33 | 979.33 |
| Feb 1 - | | | | | | | | | |
| Apr 1, | | | | | | | | | |
| 22 | | | | | | | | | |

TEC Report to the Board
April 2022

| Programs & Projects | Effort Level | Completion Date | Comments |
|-------------------------------|--------------|-----------------|--|
| | LOW | | |
| | MED | | |
| | HIGH | | |
| Projects | | | |
| 319 Biochar | | 2021/22 | Relocation of Biochar project and feasible site conclusion complete - SEH working on design, working with Township on easement and access agreement. |
| East Goose Lk Adaptive Mgmt. | | 2021-ongoing | Anticipated next step is sending letter to City of White Bear Lake regarding approved aquatic plant management position |
| Ditch 14 Maintenance project | | 2022 | Phase II complete, will check in spring to make sure vegetation is establishing and if there are any areas of erosion that need attention. Working on draft VLAWMO drainage policy document. |
| MPCA 319 /Wilkinson Lake BMP | | 2021-24 | Anticipated Board consideration of proposed RFP for engineering services at the April VLAWMO Board meeting. Project easement documents and grant agreement were approved at Feb. Board meeting. |
| Pleasant Lake Carp Management | | 2022 | Work is going to attempt to locate fish for possible removal efforts |
| Programs | | | |
| City/Township MS4 | | April-Aug | "SWPPP Chats" Partnership with Rice Creek and Ramsey Washington Watershed Districts for luncheon-type info presentations educating municipal partners on MS4 resources and strategies for use (series of 3 April - Aug). Materials development for mailing slips and infographics for MS4 assistance. |
| Education/Outreach | | April-May | Communications planning surrounding Wilkinson/319, Vadnais/Sucker Park restoration, and other upcoming efforts. Promotion of spring workshop series such as "Drought Recovery for your Lawn" (April 14) and Blue Thumb partner workshops (Resilient Yards, Pollinator Plantings). Dispersal of water monitoring summary, watershed at a glance, annual report. |
| Website | | April-June | Continued updating of News and Blog to feed into monthly E-newsletters. Website renovation consultations with neighboring watershed districts. "Watershed Care Calendar" posted on event calendar every 1st of the month. |
| WAV | | April-July | "Good Neighbor Guide" production meeting May 5th, Tamarack Nature Center pilot program for wetland health monitoring (Teal Pond), Bridgewood VH raingarden kick-off planning (July event), St Marys Raingarden renovation with Eagle Scout Alex Nelson. |
| Cost Share & BWSR WBF | | ongoing | 2022 project planning. NOHOA filtration basin, VH Commons potential raingardens, WBL Rotary Nature Preserve, VH Bridgewood Park project still on schedule to complete in Spring '22. |
| GIS | | ongoing | completed Sucker & East Vadnais SLMR. |
| Monitoring | | ongoing | 2022 season to begin beginning of May |
| WCA | | ongoing | administering WCA as needed. |

TEC Report to the Board
April 2022

| Administration & Operation | | | |
|----------------------------|--|-----------------|---|
| Audit | | 2021/22 | Staff currently assembling information for 2021 audit and uploading into the portal. Anticipated Board consideration at the April meeting. |
| Budget | | 21/22 | Staff starting work on high level draft 2023 budget for discussion with the VLAWMO Board at the April meeting. |
| Personnel /HR | | ongoing | staff continue to pursue professional development per their approved training plans. |
| SSU | | ongoing | 2022 SSU rate information submitted to Ramsey and Anoka Counties in Nov. |
| Strategic planning | | early /mid 2022 | Special VLAWMO Board workshop was held on January 26, 2022 to discuss strategic direction. Work has started at a staff level on the watershed plan amendment process for later in 2022. |

| FINANCIAL SUMMARY as of 4/1/2022 | | | CD's | | 4M Term Series | |
|----------------------------------|----------------|-----------|-------------|--|----------------|------|
| | | | | | Maturity | Rate |
| 4M Account (1.10) | 4M Plus (1.23) | Total | | | | |
| \$584,134 | \$324,240 | \$908,374 | Term series | | | |

| Budget Summary | Actual Expense YTD | 2022 Budget amended | Remaining in Budget | % YTD |
|----------------|--------------------|---------------------|---------------------|-------|
| Operations | \$202,425 | \$719,988 | \$517,563 | 28% |
| CIP | \$94,580 | \$496,600 | \$402,020 | 19% |
| Total | \$297,005 | \$1,216,588 | \$919,583 | 24% |

TEC Staff Memo – April 13, 2022

IV. Administration & Operations

A. Welcome Lauren Sampedro – Watershed Technician and Program Coordinator - Phil

B. Financial Report for April & authorization for Payment

Please find the April 2022 Finance Report attached in the ePacket for review and approval.

C. TEC Report to VLAWMO Board

Please find the April 2022 TEC Report to the Board attached in the packet for review and approval.

V. Programs

A. Education and Outreach

1. Community Blue: CB 2022-01 Good Neighbor Guide

VLAWMO's sponsored Minnesota Water Stewards Ceci and Ed Shapland (2019) have proposed a new education effort for the VLAWMO watershed. Informed and guided by Education and Outreach staff Nick Voss, Ceci and Ed have composed a draft Good Neighbor Guide to supplement this community blue grant application.

The Good Neighbor Guide is an educational booklet introducing and demonstrating water-friendly behaviors that pertain to homeowners and renters in the watershed. Topics include water-friendly lawn care, irrigation practices, smart salting, water conservation, planting native plants, adopting stormdrains, and more. Other pertinent topics will include awareness on how surface water moves and infiltrates through the watershed, and how residents can help take care of our lakes, wetlands, and ditch systems. This effort was inspired by neighboring watersheds such as the Mississippi Water Management Organization (MWMO) who have produced guide booklets targeting residential properties in a tone of being a good neighbor.

Staff recommend approval of this community blue effort, which will provide a professional graphic designer to improve the aesthetics and create illustrations for the guide. The guide will be distributed to Cities and Townships in VLAWMO, and will be made available for re-printing on demand.

The draft copy is available at the link below. The Watershed Action Volunteers together with Ceci and Ed Shapland will continue to review and plan the guide's content throughout spring and summer, 2022, and a print copy will be available at the end of July.

Good Neighbor Guide draft link:

https://www.vlawmo.org/files/7516/4883/7239/Good_Neighbor_Book_Draft_-_April_22.pdf

2. Community Blue: CB 2022-02 St Mary's of the Lake raingarden renovation

Alex Nelson is a Vadnais Heights resident who is pursuing an Eagle Scout Badge. Supervised by his father Jeffrey Nelson, he has chosen to focus on a raingarden renovation at Saint Mary's of the Lake.

The raingarden at Saint Mary's of the Lake was built in 2011 with support from VLAWMO Capital Improvement (CIP) funds, which were harnessed through the Board of Water and Soil Resources (BWSR) Clean Water Partnership funding (this line of funding and the program itself has since changed names and procedures). The raingarden has since struggled with its maintenance and requires a renovation for future success.

Alex has coordinated and met with Greg Mortenson, Saint Mary's of the Lake staff responsible for grounds care. Nick Voss, VLAWMO Education and Outreach, has provided a tutorial and resources to Alex on how to renovate and restore a raingarden. The renovation will consist of clearing undesired vegetation, organizing and curating existing vegetation, trimming the overgrown dogwood shrubs, laying fresh mulch, and introducing new native plantings in open spaces where weeds were cleared. New plants will be based off of the existing and original planting plan for the raingarden. Alex will facilitate the field work with his Boy Scout troop. Work is to be completed by the end of 2022, and requested VLAWMO Community Blue funding is \$1,000. Funding will be dispersed as orders for plants and mulch are made and sent to VLAWMO, and will function as "up to" \$1,000, leaving any remaining allocated funds unused depending on invoices. Upon spring weeding and maintenance, Alex will be able to calculate plant needs and order quantities and work within this allocated budget.

3. Community Blue: CB 2022-mini-grant-01 VH Elementary raingarden renovation

Principal Sara Svir has completed a Community Blue mini-grant to refurbish the raingarden on-site at this school. This raingarden was built in 2013 utilizing Community Blue grant funding. Since 2013 the Community Blue program has adjusted to no longer include in-ground installation projects. The Community Blue program also started a new mini-grant opportunity starting in 2018, for small scale projects that are pre-approved by the VLAWMO Technical Commission. mini-grants are \$100 max, and as outlined in the Community Blue program and VLAWMO's Policy and Personnel, only require staff approval rather than a TEC vote.

This mini-grant is targeting invasive Siberian Elm in and around the raingarden. Natural Shores Technologies was chosen by Sara Svir to serve as a specialist in doing this treatment.

B. Cost Share Program

1. SHG Application 2022-03 – Scherer

After a site visit and planning in the winter of 2022, Leslie Scherer has submitted a Soil Health Grant application for a 750 sq ft native planting and turf replacement for her property in Vadnais Heights. Scherer will be doing the work herself, and has

submitted an aerial diagram of the anticipated project in addition to a detailed cost estimate. The total estimated cost is \$6,483, and the VLAWMO requested funds are \$1,000. Scherer is eligible for the maximum \$1,000 level Soil Health Grant due to being within the Targeted Priority Zone outlined by the cost-share program. After review of the application, cost estimate, project plan, and plant list, staff is recommending approval of Soil Health Grant 2022-03 in the amount of \$1,000.

2. SHG Application 2022-04 – City of White Bear Lake

Connie Taillon, representing the City of White Bear Lake, has submitted a Soil Health Grant application for a 3,380 sq ft native restoration in the Rotary Nature Preserve. The work and maintenance will be completed by the White Bear Lake Rotary Club combined with Natural Shore Technologies, hired by the City. Taillon has submitted a detailed cost estimate and plant list and an aerial map of the project site. The application is requesting \$750 with an overall estimated cost of \$2,000. With review of the application, cost estimates, project partners, and plant list, staff is recommending approval of Soil Health Grant 2022-04 in the amount of \$750. This application reflects “phase 1” of the overall project as outlined in the application. Phases 2 and 3 are intended to continue into 2023 and 2024, respectively, and contain additional opportunities for partnership between the City, the WBL Rotary, and VLAWMO to be discussed after the completion of phase 1.

3. LL2 Application 2022-01-NOHOA

The North Oaks Homeowner’s Association (NOHOA) has submitted a Landscape Level 2 grant application for a 2,308 sq ft filtration basin in a center island of the North Oaks neighborhood south entrance off of Hwy 96. Additional details are included in the **attached** cover memo and application materials.

VI. Projects

A. 319/Wilkinson BMP update

VLAWMO staff are working to set up a meeting with the MPCA to discuss possible allocation of load-reduction credits as mentioned in the March TEC memo. An article announcing the priority watershed designation and early project identification efforts was submitted to North Oaks News for the April issue. The article is included in this TEC packet.

B. Ramsey County Park on south side of East Vadnais

VLAWMO staff and volunteers have been working on clearing buckthorn in this park for the past 2 years. This site was suggested and has received considerable effort from a concerned and trained (in restoration) volunteer who lives just down the street. We set up and conducted smothering with geotextile fabric during 2021 and seeded during fall 2021. This spring the full first round of buckthorn removal was completed with volunteers, VLAWMO staff, and UMN community-engaged learning students. A final step for this effort was cutting mature female buckthorn trees from the roadway into the park to prevent reseeding of buckthorn into cleared areas. That was completed on March 25, 2022. Ramsey County generously offered to clear buckthorn piles placed by the parking area for easy removal. The

City of Vadnais Heights brought the chipper and removed loads of buckthorn during 2021. We appreciate the efforts of our partners and are excited to have moved this project into the maintenance and continued reseeding phase. Maintenance of re-sprouting buckthorn will continue this fall.

| | | |
|---|---|--|
| <p>Smothering site set up with geotextile fabric during 2021</p> | <p>Volunteers cleaning up fabric and seeding during fall 2021</p> | <p>Buckthorn initial removal was completed during spring 2022. Notice the view to the lake in what was a solid buckthorn thicket when we started working on the site in 2020</p> |
|  |  |  |

C. Pleasant Lake Carp Update

VLAWMO staff continue to monitor carp movement and locations with telemetry. Coordination with WSB and Carp Solutions also continues. WSB is hoping to conduct an open-water removal prior to fish movement upstream for attempted spawning. Carp Solutions is preparing for a stream removal as the fish move from Pleasant to the barrier at Wilkinson Lake. The stream removal will take place likely in late April or early May, depending upon timing of movement by the carp.



Vadnais Lake Area Water Management Organization

800 East County Rd E
 Vadnais Heights, MN 55127
 vlawmo.org
 (651) 204-6070

COMMUNITY BLUE GRANT APPLICATION

Please submit form and required materials to: NICK VOSS
 Nick.Voss@vlawmo.org

BASIC INFORMATION

| | |
|--------------|--|
| PROJECT NAME | Vadnais Lake Area Water Management Organization (VLAWMO) Good Neighbor Guide |
|--------------|--|

| | |
|----------------|---------------|
| CONTACT PERSON | Ceci Shapland |
|----------------|---------------|

| | | | |
|---------|------------------------|----------|------------------------|
| ADDRESS | 470 Vadnais Lake Drive | CITY ZIP | Vadnais Heights, 55127 |
|---------|------------------------|----------|------------------------|

| | | | | | |
|--------------|--|-------|--------------|---------------|------------------------|
| ORGANIZATION | | PHONE | 612-816-7721 | EMAIL ADDRESS | cecishapland@gmail.com |
|--------------|--|-------|--------------|---------------|------------------------|

| | |
|---|---|
| WHAT GEOGRAPHIC AND/OR DEMOGRAPHIC AREA DO YOU SERVE? | Vadnais Lake Area Water Management Organization |
|---|---|

| | |
|--|-----------|
| HOW MUCH ARE YOU REQUESTING? (BETWEEN \$200 AND \$5,000) | \$1827.19 |
|--|-----------|

| | |
|--|--|
| HOW MUCH ARE YOU PREPARED TO MATCH OR PROVIDE IN-KIND? | The VLAWMO Good Neighbor Guide is being developed by volunteers and volunteers will review the Guide. VLAWMO will print and provide the Guide to residents residing within the VLAWMO boundaries. The Guide will be distributed at community events, at the Vadnais Heights City Hall and website. |
|--|--|

PROJECT BACKGROUND

INTRODUCTION & GOAL

1. A: DESCRIBE THE MISSION AND GOALS OF YOUR ORGANIZATION/PROFESSION AND WAYS IT RELATES TO WATER RESOURCES.
 B: IN 2-3 SENTENCES: WHAT DOES THE PROJECT DO (LIST HARD DETAILS OF #, PLACE, EVENT, ETC). AND WHAT'S THE GOAL?

My husband, Ed Shapland and I are MN Wtr. Stewards. We work with VLAWMO on various projects related to water resources, including the leaf pack project and organizing a garden tour. We also continue to develop landscaping projects to address best management practices. We promote the adopt-a-drain program in the neighborhood and educate community members about the importance of caring for the quality of water in our lakes, streams and wetlands. We also developed a program for children called the Junior Watershed Explorer Program.

The mission is to provide a user-friendly Guide for residents of VLAWMO that will include information about environmental risks for surrounding lakes and streams and the strategies that residents can practice to protect and conserve the various lakes, streams and wetlands nearby. The goal of the Good Neighbor Guide is to increase the knowledge and awareness among residents living in the water organization boundaries about the activities and programs of VLAWMO and how to assist in the care of lakes, streams and wetlands in VLAWMO. Through the Guide, residents will learn about the various lakes, streams and wetlands and specific behaviors that endanger the health of these waterbodies and strategies that they can do in their daily lives to better protect and conserve waterbodies within VLAWMO

2. DESCRIBE HOW YOUR PROJECT WILL PROTECT OR IMPROVE WATER QUALITY. FOR EDUCATIONAL COMPONENTS, DESCRIBE BEHAVIORS AND ACTIONS THAT WILL BE ENCOURAGED THROUGH THE PROJECT AS THEY RELATE TO WATER.

The project will promote and provide education about the lakes, streams and wetlands nearby, as well as best management practices to improve the water quality of lakes, streams and wetlands within VLAWMO. Residents will also learn more about the role of VLAWMO in managing and protecting the lakes and streams and the grant programs that residents can use to support best management practices for their home and yard. Through this increased knowledge opportunity, residents will be more aware of best practices for protecting waterbodies and hopefully adopt the best management practices for their yard.

3. DESCRIBE ANY PROJECT PARTNERS, THEIR ROLE IN THE PROJECT, THEIR QUALIFICATIONS, AND THEIR ROLE IN YOUR PROJECT. FOR PROJECTS WITH INVOLVED PARTNERSHIPS, A SEPARATE CONFIRMATION LETTER MAY BE REQUESTED.

Please provide specifics (names, titles, email or phone #)

Nick Voss, education and outreach coordinator for VLAWMO, worked closely with us to plan the Junior Watershed Explorer Program. The Mississippi Watershed Organization shared their Good Neighbor Guide with VLAWMO staff and allowed us to use it as a resource for the VLAWMO Good Neighbor Guide.

PROJECT OBJECTIVES

4. IN THE SPACE BELOW, PLEASE BREAK DOWN YOUR PROJECT INTO OBJECTIVES (UP TO 5). THESE SHOULD TELL THE STORY OF YOUR PROJECT FROM PREPARATION TO ACTION TO FOLLOW-UP MEASURES. INCLUDE AN ESTIMATED COMPLETION DATE (left box) AND COST (right box) TO EXPIDITE PROJECT BUDGETING AND FUND DISPERSAL.

| | | | | | |
|---|-------------------|---|---|----------------|-----------------------------------|
| 1 | OBJECTIVE | Develop the content for a VLAWMO Good Neighbor Guide | COMPLETION DATE (M/Y) COST (right box) | April, 2022 | 70 vol. hrs. |
| | DESCRIPTION | A Guide will be developed that includes information about VLAWMO and its lakes, streams and wetlands. The Guide will provide information about pollutants of lakes and streams, as well as best management practices for residents to develop to help protect the health of nearby lakes and streams. | | | |
| | POSSIBLE BARRIERS | Possible barriers: None anticipated | | | |
| 2 | OBJECTIVE | Develop the layout and graphic design for the VLAWMO Good Neighbor Guide. | COMPLETION DATE (D/M/Y) COST (right box) | June 2022 | \$1500 app.20hr @\$75/hr |
| | DESCRIPTION | After content of the Good Neighbor Guide has been reviewed by VLAWMO staff and volunteers, Jim Shapland of Infuse Design LLC, a freelance graphic and computer animation designer, will create the layout and graphic designs for the Guide, including illustrating the use of best management practices. | | | |
| | POSSIBLE BARRIERS | Possible barriers: Reviewers do not want to continue the project. | | | |
| 3 | OBJECTIVE | Print and disseminate 50 to 100 Good Neighbor Guides to residents living in VLAWMO. | COMPLETION DATE (D/M/Y) COST (right box) | July 2022 | \$327. 19 for 100 copies |
| | DESCRIPTION | Upon the completion of the Good Neighbor Guide, it will be printed and disseminated to residents living within VLAWMO. Dissemination will take place through community events where VLAWMO is tabling, as well as on display at City Halls and City offices of VLAWMO's member communities . It will also be made available on the VLAWMO website. Volunteers will write an article for the local paper publicizing the Good Neighbor Guide. | | | |
| | POSSIBLE BARRIERS | Possible Barriers: Proofing the print order and shipping. | | | |

MEASUREMENT AND EVALUATION

5. DESCRIBE HOW YOU WILL MEASURE THE SUCCESS OF YOUR PROJECT.
Measurements should be phrased as a final result. What tangibles will prove that the objective was met?
Example: Number of participants, number of installations, gallons of storm water infiltrated, etc. Effective measurables relate back to the goal and purpose of the project – VLAWMO will make recommendations as needed. If an objective doesn't need a measurable please indicate another objective that has a measurable that serves to measure both.

OBJECTIVE 1: Develop the content for a VLAWMO Good Neighbor Guide

The Good Neighbor Guide will be created by VLAWMO MN Wtr. Stewards volunteers, Ceci and Ed Shapland. It will be based on a similar Guide of the Mississippi Watershed Organization. The content of the guide will be reviewed by VLAWMO staff and 2 to 3 volunteers. Feedback will be compiled and final edits on content will be made by Ceci and Ed Shapland. This objective will be met when the Good Neighbor Guide has been reviewed and accepted by VLAWMO staff.

OBJECTIVE 2: Develop the layout and graphic design for the VLAWMO Good Neighbor Guide

After the review process is complete, Jim Shapland of Infuse Design LLC, a freelance graphic and computer animator will design the layout and graphics for the Guide. The VLAWMO staff will do a final review of the layout and graphics. **Infuse Design LLC will invoice VLAWMO for reimbursement according to allocated grant funds outlined in this application (objective #2).**

OBJECTIVE 3: Print and disseminate 50 to 100 copies of the VLAWMO Good Neighbor Guide to residents living within VLAWMO.

The number of copies disseminated will be tracked. An article will be published in the local paper promoting the Good Neighbor Guide. The Good Neighbor Guide will be available on the VLAWMO website. **Ceci and Ed will forward the print invoice to Nick Voss at VLAWMO for payment to Impressive Print, Roseville, MN.**

BUDGET DESCRIPTION

6. DESCRIBE THE BUDGET: List 1) materials and services that the requested funds will go towards and 2) description of Match funds that go with that objective/expense.

OBJECTIVE 1: Develop the content for a VLAWMO Good Neighbor Guide

Expense 1: No requests.

OBJECTIVE 2: Develop the layout and graphic design for the VLAWMO Good Neighbor Guide.

Expense 1: \$1500 for 20 hrs of graphic design and layout at \$75/hr. of the final version of the Good Neighbor Guide.

This figure is based on the professional's estimate of hours and per hour fee.

OBJECTIVE 3: Print and disseminate 100 copies of the VLAWMO Good Neighbor Guide to residents living within VLAWMO.

Expense 1: \$327.19 for 100 copies from Rapit Printing for the printing of the Good Neighbor Guide.

BUDGET

7. COMPLETE THE FOLLOWING TABLE FOR PROJECT COSTS. IF ADDITIONAL COSTS EXIST INDEPENDENT OF GRANT FUNDING LIST THEM AS FUNDING AS OTHER SOURCE. PLEASE SPECIFY AN AMMOUNT PER EXPENSE AND A TOTAL. THE GREEN BOX IN PART 7 MUST EQUAL THE GREEN BOX IN PART 8. USE WORK PLAN SPREADSHEET FOR MORE DETAIL. TIP: ALIGN EXPENSES ACCORDING TO OBJECTIVES IN PART 5.

| EXPENSES Reflect objective # | PERSONNEL COSTS "N/A" if blank | MATERIALS / SUPPLIES "N/A" if blank | FUNDING FROM OTHER SOURCE "N/A" if blank | TOTAL |
|---------------------------------|--------------------------------------|---|--|-----------|
| EXPENSE 1: | | | | |
| EXPENSE 2: | \$1500 | | | \$1500 |
| EXPENSE 3: | | | | |
| EXPENSE 4: | | | | |
| EXPENSE 5: | | \$327.19 | | \$327.19 |
| TOTALS | | \$327.19 | | \$1827.19 |

Description of other source funding:

Volunteer hours

TOTAL EXCLUDING MATCH FUNDS:

\$1827.19

GRANT FUNDING & MATCH FUNDS

8. PLEASE FILL IN THE TABLE BELOW WITH HOW YOU PLAN TO ALLOCATE YOUR FUNDING.
Match funds are required assets for the project that strive to support community investment and exposure. Match funds may be cash from other sources, mileage, pre-existing materials involved in the project, or provided in-kind (i.e. volunteer services). In-kind match hours may be volunteer service hours, voluntary presentations, etc. Consult with VLAWMO staff for discussion on what applies as match funds. THE BLUE BOX SHOULD BE AN ADDITIONAL 25-100% OF THE GREEN BOX. PROJECT APPLICATIONS ARE WEIGHED WITH A PREFERENCE FOR PROJECTS WITH HIGHER MATCH FUNDS, IN ADDITION AND ARE VOTED ON THROUGH THE VLAWMO TECHNICAL COMMISION.

VOLUNTEER HOURS ARE VALUED AT
\$25/HR
MILEAGE IS VALUED AT
\$0.525/MI

| EXPENSES | REQUESTED VLAWMO FUNDING | MATCH FUNDS | | TOTAL |
|------------|-----------------------------|-------------|---------|----------|
| | | Cash | In-kind | |
| EXPENSE 1: | | | \$1750 | \$1750 |
| EXPENSE 2: | \$1500 | | | \$1500 |
| EXPENSE 3: | | | \$150 | \$150 |
| EXPENSE 4: | | | \$50 | \$50 |
| EXPENSE 5: | \$327.19 | | | \$327.19 |

| | | | |
|---------------|-----------|-----------------------------------|-----------|
| TOTALS | \$1827.19 | \$1950 in-kind volunteer hours | \$3777.19 |
|---------------|-----------|-----------------------------------|-----------|

BUDGET CONTINUED

9) DESCRIPTION OF MATCH FUNDS: CASH AND/OR IN-KIND HOURS. Briefly describe the nature, activity, or function of the match funds for each expense line. I.e. "volunteer hours", "honorarium", etc.

EXPENSE 1: Two volunteers will work 70 hours each to develop content for the VLAWMO Good Neighbor Guide. Total volunteer hours are 70 for \$1750 in-kind support.

EXPENSE 2: One volunteer will work 6 hours compiling tracking data. Total volunteer hours are 6 at \$150 in-kind support.

EXPENSE 3: One volunteer will work 2 hours to write and publish an article in the local paper publicizing the VLAWMO Good Neighbor Guide. Total volunteer hours are 2 at \$50 of in-kind support.

FUTURE POTENTIAL

10.) WILL YOU OR THE PROJECT PARTNERS BE ABLE TO REPEAT THIS PROJECT? EXPLAIN HOW THE PROJECT WILL BE CARRIED ON IF 1) THE PROJECT IS A SUCCESS AND 2) ADDITIONAL FUNDS WERE AVAILABLE

In talking with VLAWMO staff, they are committed to carrying on **dispersal** of the VLAWMO Good Neighbor Guide by keeping the website up to date with the Guide and providing access to the Guide through community tabling activities and displays at **City/Township offices in the watershed**. Additional funds would be needed in the future for further printing of the Guide. As volunteer Minnesota Water Stewards, we are also committed to volunteer in whatever capacity to support the Good Neighbor Guide long term.

11.) HOW DID YOU HEAR ABOUT OUR GRANT PROGRAM?

I heard about the Community Blue Grant through Nick Voss at VLAWMO.



Vadnais Lake Area Water Management Organization

800 East County Rd E
Vadnais Heights, MN 55127
vlawmo.org
(651) 204-6070

COMMUNITY BLUE GRANT APPLICATION

Please submit form and required materials to: NICK VOSS
Nick.Voss@vlawmo.org

BASIC INFORMATION

| | |
|--------------|---|
| PROJECT NAME | Saint Mary's Church Rain Garden Restoration |
|--------------|---|

| | |
|----------------|-------------|
| CONTACT PERSON | Alex Nelson |
|----------------|-------------|

| | | | |
|---------|----------------------|----------|-------|
| ADDRESS | 3303 Nathaniel Court | CITY ZIP | 55127 |
|---------|----------------------|----------|-------|

| | | | | |
|--------------|-----|-------|--------------|--|
| ORGANIZATION | BSA | PHONE | 763-742-3807 | Alexanderhnelson04@gmail.com |
| | | | | EMAIL ADDRESS |

| | |
|---|--|
| WHAT GEOGRAPHIC AND/OR DEMOGRAPHIC AREA DO YOU SERVE? | White Bear Lake/ St Mary's Church area |
|---|--|

| | |
|---|---------|
| HOW MUCH ARE YOU REQUESTING? (BETWEEN \$200 AND \$10,000) | \$1,000 |
|---|---------|

| | |
|--|---|
| HOW MUCH ARE YOU PREPARED TO MATCH OR PROVIDE IN-KIND? | We will provide up to 200 man-hours of labor, also food/snacks for participants, gloves and other protective gear |
|--|---|

PROJECT BACKGROUND

INTRODUCTION & GOAL

- 1. A: DESCRIBE THE MISSION AND GOALS OF YOUR ORGANIZATION/PROFESSION AND WAYS IT RELATES TO WATER RESOURCES.
B: IN 2-3 SENTENCES: WHAT DOES THE PROJECT DO (LIST HARD DETAILS OF #, PLACE, EVENT, ETC). AND WHAT'S THE GOAL?

The Goal of the Boy scouts of America is to make young people can grow to become their very best future selves through service, community engagement, and leadership development. The pinnacle of the scouting journey is the rank of Eagle Scout, as part of achieving this rank a scout is required to conduct a project of their own choice. I chose to restore the decade old rain garden near Saint Mary's Church in order to increase its effectiveness as well as the appeal of the Church.

2. DESCRIBE HOW YOUR PROJECT WILL PROTECT OR IMPROVE WATER QUALITY. FOR EDUCATIONAL COMPONENTS, DESCRIBE BEHAVIORS AND ACTIONS THAT WILL BE ENCOURAGED THROUGH THE PROJECT AS THEY RELATE TO WATER.

The rain garden is intended to capture rain and runoff that would otherwise enter the storm drain and make its way into the watershed. As part of the project, participants will learn about rain gardens, how to care for and maintain them, and what plants are best suited for them.

3. DESCRIBE ANY PROJECT PARTNERS, THEIR ROLE IN THE PROJECT, THEIR QUALIFICATIONS, AND THEIR ROLE IN YOUR PROJECT. FOR PROJECTS WITH INVOLVED PARTNERSHIPS, A SEPARATE CONFIRMATION LETTER MAY BE REQUESTED.
Please provide specifics (names, titles, email or phone #)

This is a joint project between Boy Scout Troop 416 from Shoreview, the Vadnais Lake Watershed Management Organization, and St. Mary's Church. VLAWMO will lend expertise whereas while the Scouts and members of the church will primarily be providing the physical labor.

Greg Mortenson, St Mary's grounds staff: (612) 978-8167.

PROJECT OBJECTIVES

4. IN THE SPACE BELOW, PLEASE BREAK DOWN YOUR PROJECT INTO OBJECTIVES (**UP TO 5**). THESE SHOULD TELL THE STORY OF YOUR PROJECT FROM PREPARATION TO ACTION TO FOLLOW-UP MEASURES. INCLUDE AN ESTIMATED COMPLETION DATE (left box) AND COST (right box) TO EXPIDITE PROJECT BUDGETING AND FUND DISPERSAL.

| | | | | | |
|---|-------------------|--|---|------|----|
| 1 | OBJECTIVE | Pruning of dogwood tree | COMPLETION DATE (M/Y) COST (right box) | 3/22 | NA |
| | DESCRIPTION | Pruning of the tree needs to be completed in the early spring before it starts to bud. | | | |
| | POSSIBLE BARRIERS | Snow from the parking lot was almost covering the tree | | | |

| | | | | | |
|---|-------------------|--|---|---------|----|
| 2 | OBJECTIVE | Weeding and site preparation | COMPLETION DATE (D/M/Y) COST (right box) | 5-15-22 | NA |
| | DESCRIPTION | Cleaning up the site, cut back last year's plant debris and dispose at Ramsey County compost site, clean out catch box at raingarden inlet, removing weeds and excessive growth. Specify plant order based on spacing needs post-weeding. Refer to pre-existing raingarden maps and plant lists. | | | |
| | POSSIBLE BARRIERS | Plant availability from nurseries may require switches from original planting plan. | | | |

| | | | | | |
|---|-------------------|---|---|---------|-------|
| 3 | OBJECTIVE | Mulching | COMPLETION DATE (D/M/Y) COST (right box) | 5-15-22 | \$500 |
| | DESCRIPTION | Lay down weed barrier and spread mulch (3-4" depth) over the entire garden Facilitate mulch order, send invoices to VLAWMO for payment from Community Blue. | | | |
| | POSSIBLE BARRIERS | | | | |

| | | | | | |
|---|-------------------|--|---|---------|-------|
| 4 | OBJECTIVE | Planting | COMPLETION DATE (D/M/Y) COST (right box) | 5-15-22 | \$500 |
| | DESCRIPTION | Procure and plant the appropriate plants in the rain garden. Facilitate plant order,. Temporary plant storage (before planting occurs) in conjunction with St Mary's. Send invoices to VLAWMO for payment from Community Blue. Coordinate with BSA for volunteer activities on-site, collect VLAWMO volunteer waivers for all participants. Schedule and coordinate with all BSA volunteers that help with effort. | | | |
| | POSSIBLE BARRIERS | | | | |

| | | | | | |
|---|-------------------|-----|--|--|--|
| 5 | OBJECTIVE | N/A | COMPLETION DATE (D/M/Y): COSTS: (right box) | | |
| | DESCRIPTION | | | | |
| | POSSIBLE BARRIERS | | | | |

MEASUREMENT AND EVALUATION

5. DESCRIBE HOW YOU WILL MEASURE THE SUCCESS OF YOUR PROJECT.
Measurements should be phrased as a final result. What tangibles will prove that the objective was met?
Example: Number of participants, number of installations, gallons of storm water infiltrated, etc. Effective measurables relate back to the goal and purpose of the project – VLAWMO will make recommendations as needed. If an objective doesn't need a measurable please indicate another objective that has a measurable that serves to measure both.

OBJECTIVE 1: Dogwood shrubs pruned to knee to waist-high levels in either early spring or late fall/winter 2022. Photos of before and after recorded.

OBJECTIVE 2: Site returned to a beautified state. We will take photos showing the before and after. Log hours of weeding and maintenance time. Participants will be instructed in the proper use of tools and will learn about the plants need for a successful rain garden.

OBJECTIVE 3: We will work with VLAWMO to quantify the amount of storm water captured by this garden.

OBJECTIVE 4: Number of plants planted/replaced in the raingarden. Satisfactory completion of Scout approved Eagle Project. Minimum of 20 participants, hours will be logged. Review with VLAWMO staff for completion.

OBJECTIVE 5: N/A

PROJECT PLAN

BUDGET DESCRIPTION

6. DESCRIBE THE BUDGET: List 1) materials and services that the requested funds will go towards and 2) description of Match funds that go with that objective/expense.

OBJECTIVE 1/EXPENSE 1: None

OBJECTIVE 2: None

OBJECTIVE 3: Replace weed barrier and cover the entire garden with mulch. This will also enhance the appearance of the garden. \$500

OBJECTIVE 4: Replace existing plants with new ones so the garden will have a cleaner and more uniform appearance. \$500

OBJECTIVE 5: None

BUDGET

7. COMPLETE THE FOLLOWING TABLE FOR PROJECT COSTS. IF ADDITIONAL COSTS EXIST INDEPENDENT OF GRANT FUNDING LIST THEM AS FUNDING AS OTHER SOURCE. PLEASE SPECIFY AN AMMOUNT PER EXPENSE AND A TOTAL. THE GREEN BOX IN PART 7 MUST EQUAL THE GREEN BOX IN PART 8. USE WORK PLAN SPREADSHEET FOR MORE DETAIL. TIP: ALIGN EXPENSES ACCORDING TO OBJECTIVES IN PART 5.

| EXPENSES Reflect objective # | PERSONNEL COSTS "N/A" if blank | MATERIALS / SUPPLIES "N/A" if blank | FUNDING FROM OTHER SOURCE "N/A" if blank | TOTAL |
|---------------------------------|--------------------------------------|---|--|-------|
| EXPENSE 1: Plants | | \$500 | | \$500 |
| EXPENSE 2: Mulch | | \$500 | | \$500 |
| EXPENSE 3: Food | | | \$200 | |
| EXPENSE 4: Gear | | | \$200 | |
| EXPENSE 5: Labor | | | | |
| TOTALS | | \$1000 | \$400 | |

Description of other source funding:

Donations collected through the troop, family and friends

TOTAL EXCLUDING MATCH FUNDS:

\$1000

GRANT FUNDING & MATCH FUNDS

8. PLEASE FILL IN THE TABLE BELOW WITH HOW YOU PLAN TO ALLOCATE YOUR FUNDING. Match funds are required assets for the project that strive to support community investment and exposure. Match funds may be cash from other sources, mileage, pre-existing materials involved in the project, or provided in-kind (i.e. volunteer services). In-kind match hours may be volunteer service hours, voluntary presentations, etc. Consult with VLAWMO staff for discussion on what applies as match funds. THE BLUE BOX SHOULD BE AN ADDITIONAL 25-100% OF THE GREEN BOX. PROJECT APPLICATIONS ARE WEIGHED WITH A PREFERENCE FOR PROJECTS WITH HIGHER MATCH FUNDS, IN ADDITION AND ARE VOTED ON THROUGH THE VLAWMO TECHNICAL COMMISION.

VOLUNTEER HOURS ARE VALUED AT
\$25/HR
MILEAGE IS VALUED AT
\$0.525/MI

| EXPENSES | REQUESTED VLAWMO FUNDING | MATCH FUNDS | | TOTAL |
|------------------------------|-----------------------------|-------------|---------|---------|
| | | Cash | In-kind | |
| EXPENSE 1: Plants | \$500 | | | \$500 |
| EXPENSE 2: Mulch | \$500 | | | \$500 |
| EXPENSE 3: Food | | \$200 | | \$200 |
| EXPENSE 4: Gear | | \$200 | | \$200 |
| EXPENSE 5: Labor – 200 hours | | | \$5000 | \$5000 |
| TOTALS | \$1000 | | \$5,400 | \$6,400 |

Should this application be approved for funding, who should the check be made out to? Troop 416

BUDGET CONTINUED

9) DESCRIPTION OF MATCH FUNDS: CASH AND/OR IN-KIND HOURS. Briefly describe the nature, activity, or function of the match funds for each expense line. I.e. "volunteer hours", "honorarium", etc.

EXPENSE 1: Plants. \$500 The plants will be selected per VLAWMO guidelines and purchased through local landscape supplier, delivery fee.

EXPENSE 2: Mulch. \$500 Purchased from local landscape supplier, delivery fee.

EXPENSE 3: Food. \$200 Bottled water, snacks, and pizza.

EXPENSE 4: Gear. \$200 Work gloves and protective eyewear.

EXPENSE 5: Volunteer Labor. 200 Hours x \$25/Hour Provided through Scout Troop and community volunteers

FUTURE POTENTIAL

10.) WILL YOU OR THE PROJECT PARTNERS BE ABLE TO REPEAT THIS PROJECT? EXPLAIN HOW THE PROJECT WILL BE CARRIED ON IF 1) THE PROJECT IS A SUCCESS AND 2) ADDITIONAL FUNDS WERE AVAILABLE

Yes. Scouts are required to perform community service as part of their rank advancement requirements. Refurbishing of the rain garden would be a welcome project that requires no special funding to complete, and the troop will follow-up with this annually. Additional possible project follow-ups include assisting the understanding and maintenance of the raingarden by providing updates and instructions to the St. Mary's community.

11.) HOW DID YOU HEAR ABOUT OUR GRANT PROGRAM?

Through direct contact with VLAWMO

COMMUNITY BLUE MINI-GRANT APPLICATION



Send completed application to: Nick Voss, Education and Outreach Coord., VLAWMO
800 East County Road E, Vadnais Heights, MN 55127

For questions, contact Nick at (651) 204-6070 or nick.voss@vlawmo.org

Through this program, requests may be made of up to \$100 for a basic education or watershed improvement effort. VLAWMO staff review and approve applications based on community interaction and the grant's connection to existing efforts in the watershed. VLAWMO reimburses costs that fit the pre-approved category descriptions below. Copies of receipts of payment must be submitted to receive reimbursement. A photo of a community member with the feature (sign, etc.) is requested to support VLAWMO's community education and outreach. Reimbursement will come on a first come, first serve basis until the annual Community Blue mini-grant funds (\$500) are exhausted. One grant per household per year.

APPLICANT INFORMATION:

| | |
|--|--|
| Name: <i>Sara Svir / Vadnais Hts. Elementary</i> | Date: <i>3-30-2022</i> |
| Address: <i>3645 Centerville Road</i> | |
| City, State, Zip: <i>Vadnais Heights, MN 55127</i> | |
| Phone: <i>(651) 653-2858</i> | |
| EMAIL: <i>Sara.Svir@ISD624.org</i> | |
| | |
| Amount of Request: <i>\$100</i> | Community involved (housing, lake assoc., school, etc.): <i>Elementary School</i> |

CATEGORY: (check box)

- Adopt-a-Drain yard sign and packet from Adopt-a-drain.org. Provide address or location and name attributed to adopted drain for website map verification.
- Teacher training day or literature (ProjectWET, book order, etc.)
- Supplies for testing Aquatic Invasive Species (pre-planned with VLAWMO)
- Supplies for a VLAWMO-endorsed volunteer or classroom project (event, mulch, plants, raingarden maintenance, etc.)
- Custom educational sign:
 - Picture post signs and/or posts
 - Pet waste pick-up
 - Printing brochures for plant lists or maintenance guides (raingarden/shoreline restoration)

SUPPLEMENTAL INFORMATION: N/A if not applicable

Briefly describe your project.

Targeted removal of invasive Siberian Elm in and around the rain garden.

Near what lake will these tools/signs be used?

There is an existing rain garden on the Vadnais Heights Elementary property.

If funds are for a workshop, an evaluation method is requested. What will the take-home result of the workshop be? I.e., what are you asking people to do and how will you know if they did it?

N.A.

Who is the audience?

N.A.

How does the sign/workshop/tool support your goals in your vocation or role as a community member (classroom, neighborhood association, resident, VLAWMO volunteer, etc.)?

We will partner with Natural Shores Technologies to positively impact the rain garden.

How will the effort be maintained and how long are you prepared to provide follow-up?

The rain garden and surrounding areas is maintained by staff, students & volunteers

What resources would help to support this effort long-term?

along with partnering agencies. Funding to maintain rain garden for reseeding and maintenance.

If public property is involved, provide contact information of a staff member in which an agreement is made:

N.A.

REQUIREMENTS:

- All signage apart from Adopt-a-Drain signs from Clean Water MN is either designed by or approved by VLAWMO staff. VLAWMO fonts and color schemes are utilized.
- Teacher trainings are either approved by VLAWMO or coordinated by VLAWMO
- Any signage contains the VLAWMO logo
- Sign locations and picture posts are approved by VLAWMO.

REIMBURSEMENT:

Provide name, phone, email, and address for a reimbursement to be sent to.

Sara Svir - Vadnais Heights Elementary Principal
p. 35 (651) 653-2858 sara.svir@isd624.org
3645 Centerville Rd., Vadnais Hts. 55127
VLAWMO TEC - April 2022



SOIL HEALTH COST SHARE GRANT APPLICATION

What is VLAWMO's Soil Health Grant?

The Soil Health Grant is a **reimbursement** grant program to inspire, assist, and enable residents to install small-scale watershed best management practices that improve water quality and native habitat within VLAWMO. Applicants may apply for up to \$750 in Soil Health Grant funding, with a 25% applicant project match (example: total applicable project cost is \$1,000, where \$750 would be available for grant funding, and the applicant is responsible for paying \$250 of the project cost). If a project is in either a Targeted Habitat or Volume Reduction Zone, the applicant may apply for up to \$1,000 in grant funding.

Eligible Projects include:

- Native plantings & pollinator gardens
- Pollinator-friendly yards or turf replacement
- Downspout or yard raingardens
- Native planting buffer strips
- Erosion control or stabilization with native species

Ineligible Projects include:

- Purely landscaping or decorative projects with no native plant incorporation
- Rock or block decorative retaining walls
- Surface water chemical treatment of nuisance vegetation

Soil Health Grant Process

Soil Health Grant funding is available to residents for projects on property within the VLAWMO watershed boundary, and the grant program funding is first-come, first-serve, with limited program funding available for 2022. If you are interested in applying for a grant, please contact Tyler Thompson to schedule a site visit on your property to discuss your proposed project and to ask and answer questions regarding the Soil Health Grant process. Applications must be submitted by the 4th Friday of the month for review of eligibility, and applications will be considered for funding at VLAWMO's monthly Technical Commission meetings on the 2nd Wednesday of each month on the Commission's Consent Agenda.

1. Please contact Tyler Thompson to schedule a site visit of your property to discuss your project *before* submitting a grant application
2. After discussing with VLAWMO staff, please move forward with completing your grant application, along with the required attachments
3. Staff will confirm receipt of your submitted application and will begin the review process, or will inform the applicant if more information or detail is needed
4. Staff will inform the applicant if their application has passed application scoring criteria and will be heard for approval at the next VLAWMO Technical Commission meeting on the 2nd Wednesday of the month

Funding Agreement

Each project selected and approved for funding must enter into an agreement with VLAWMO defining the obligations of the applicant and VLAWMO. This includes, but is not limited to, such items as terms of the agreement, use of funds, cost overruns, and cancellation. The agreement also allows VLAWMO access to the project area for evaluation and promotion of the project. Applicant is responsible for securing any and all permits for the work. This agreement must be signed by both parties prior to commencement of work on the project; funding will only cover work done after the agreement has been signed, and work that was included for funding in the VLAWMO-approved grant application. **Questions regarding the grant program and completed applications can be sent to:**

Tyler Thompson, VLAWMO GIS Watershed Technician
(651) 204-6071

Email: tyler.thompson@vlawmo.org

Vadnais Lake Area Water Management Organization
800 County Rd E East
Vadnais Heights, MN 55127

Grant Program Details

- Eligible materials are those which stay on the property such as plants, erosion control blanket, mulch, and drainage infrastructure. Ineligible materials would include work gloves, shovels, tools and equipment used to implement the project but may be used again for future projects (rented equipment IS an eligible expense).
- Eligible labor costs must be those expenses associated with a qualified landscaper/contractor and are subject to approval by VLAWMO staff. Ineligible labor would include the use of friends or a volunteer group helping to implement the project. VLAWMO reserves the right to adjust costs submitted for reimbursement, based upon final receipts and invoices.
- For all projects, only plants and vegetation native to Minnesota are eligible towards grant reimbursement. Hybrids of native plants are not counted as native. You must provide a list of plants that will be used to allow for review and comment by VLAWMO staff. Native restoration projects must be 100% native species. Projects may incorporate non-native or cultivar plants or vegetation within their project, but they are not eligible towards grant funding.
- **Projects completed or in progress are not eligible for funding.** A grant application must be approved for funding and grant agreement must be signed by the applicant and VLAWMO prior to the commencement of work to be eligible for VLAWMO grant funds. However, the landowner may begin project site preparation before grant approval, but will not be reimbursed for any associated expenses.
- A site visit by VLAWMO staff is required once the project is complete, for final project inspection, before a reimbursement check is released to the Grantee.
- Grantee must complete project and request a closeout inspection within one (1) year from date of grant approval. All receipts and invoices for applicable grant expenses must be submitted to VLAWMO staff for audit and for the grant reimbursement request to begin. Grant reimbursement checks are approved and mailed monthly, after approval by the VLAWMO Technical Commission at their monthly meeting.
- **Grantee must agree to maintain the project area for a minimum of 5 years.** Common maintenance includes weeding, watering, removal of invasive species, replacement of plants, repair of inlets/outlets, and other duties. The site may be inspected by VLAWMO staff on an annual basis to ensure compliance. VLAWMO staff may provide technical assistance and resources for project maintenance.
- Property owners may receive one grant every 2 years, unless opting into education incentives (below). If wanting to apply over the course of multiple years to complete projects in phases, your current project must be complete prior to the approval of a subsequent grant.

Applicant Landowner Information

| |
|--|
| Name: Leslie Scherer |
| Address of property where project will be implemented: 3870 Stockdale Drive |
| City, State, Zip: Vadnais Heights, MN, 55127 |
| Phone: 608-797-3978 |
| Email address: leslie.scherer14@gmail.com |

Grant Specifics

ESTIMATED TOTAL COST OF YOUR PROJECT: \$ 6,483 AMOUNT OF GRANT REQUESTED: (\$750 MAXIMUM) \$ 1000.00
(\$1,000 Maximum if within Targeted Priority Zone)

WHEN DO YOU PLAN TO COMPLETE YOUR PROJECT? spring 2022

PROJECT TYPE:

Raingarden Native Restoration/Pollinator Planting Turf Replacement Other

If other, please describe proposed project: _____

Project Background

Describe your property: Does your property connect to a lake, stream, ditch, or wetland in VLAWMO? What is the purpose of your project?
The back of our property connects to the Lambert wetlands area. We currently have a large area of grass turf at the back of the house, followed by a narrow tree line, and finally the wetlands. The front of the house is fairly level with the street. The areas between the properties and in the tree line at the back have not been kept up, and there is notable buckthorn. The purpose of our project is to restore native landscape, increase wildlife habitat and soil health, add pollinator attracting plants, remove invasive species, and simultaneously add privacy, beauty, and food source to our environment while hopefully inspiring others to do the same.

Describe how your project will support the goals of the Soil Health Grant Program (see guidance page for more Information). Does your proposed project directly reduce, capture, or treat stormwater?
The front garden will increase pollinator plants, direct downspout to a native planting location rather than turf, increase wildlife habitat and food source, beautify the front yard to promote increased native plantings in the neighborhood. The back yard will work to expand the natural wetland environment by replacing turf with trees and bushes for habitat and more natural ecosystem. Also the tree guilds will provide a significant increase in pollinator plants, convert a large portion of turf to a more pollinator-friendly environment and increase insectary habitat. These areas will be intertwined with food production (orchard, annual vegetable garden) so that the two can support each other and maintain a healthy ecosystem, while feeding the residents of the property.

Please briefly describe anticipated maintenance activities of your project:

Maintenance will include weeding and watering of shrubs, trees, and pollinator gardens to minimize competition for resources, splitting plants when appropriate to expand gardens and manage space requirements, fence to manage pressure from deer and rabbits while plants are getting established, refreshing mulch as needed, mowing and managing bee lawn to allow new species to outcompete existing turf grass and support pollinators, replacing plants that fail as needed, pruning shrubs to manage size and resource requirements. We will also be removing and inspecting for the inevitable return of buckthorn and other invasives for years to come.

Project Specifications

In order to determine the water quality benefit of your project (amount of stormwater and pollutants captured), specific information is required for VLAWMO staff to perform the calculations. If you are working with a professional landscaper, they should be able to provide you with this information.

| | | | |
|---|---|---|---|
| TOTAL PROPERTY AREA (Acres): | <u>2.7 acres</u> (some of this is wetland) | TOTAL PROJECT SIZE (SQ.FT.): | <u>~750+ pollinator/native plantings</u> additional for native shrubs and trees |
| IMPERVIOUS AREA DRAINING TO PROJECT (SQ.FT.): | _____ | PERVIOUS AREA DRAINING TO PROJECT (SQ.FT.): | _____ |

IF YOUR PROJECT INCLUDES INFILTRATION, PLEASE PROVIDE THE FOLLOWING INFORMATION

| | | | |
|--|-------|--|-------|
| SOIL INFILTRATION RATE (INCHES/HR): | _____ | DEPTH OF RAINGARDEN BASIN (INCHES): | _____ |
|--|-------|--|-------|

Additional Required Attachments

To complete your application, please include:

- Detailed drawing or plan of the proposed project, drafted by either the landowner or a contractor.
- Detailed project budget estimate with clear cost and material breakouts that equate to your total project cost estimate.

****This information, along with the application, may be scanned and emailed to VLAWMO GIS Watershed Technician, Tyler Thompson (tyler.thompson@vlawmo.org)****

Opting in to the education incentives would allow reapplying for Soil Health Grant funds the consecutive year after being awarded grant funding. Incentives entail committing to three of the following four options for 2 years:

1. Documenting seasonal photos, organizing them, and sending them to VLAWMO via jump drive or email, to show the progress and growth of the project.
2. Provide a neighborhood spotlight article featuring a photo of participants posing in front of the project, as well as a mini-interview 1-2 years after the project was installed to speak to their experience in install, maintenance, any problems, and enjoyment for others to learn from.
3. Participate as a host site for VLAWMO’s annual neighborhood BMP tour working in conjunction with VLAWMO Master Water Stewards.
4. Help coordinate VLAWMO’s annual native plant swap with Master Water Stewards. This entails saving seeds, dividing and potting mature plants for sharing with other residents or public raingardens, or taking plants from the plant swap for the home project as needed.

Projects must be maintained for a minimum of 5 years, and applicants must be willing to participate in VLAWMO's Education & Outreach and project sharing efforts. The applicant is responsible for Project maintenance items referenced in the Soil Health Grant Guidance document for a 5 year period, after Project completion. VLAWMO is not responsible for completing maintenance activities, but will assist with staff guidance. A project may be visited and inspected by VLAWMO staff during the 5 year maintenance period. Please inform VLAWMO if you move within the 5 years of project implementation so we may provide the new owners with information and guidance on the Project.

Are you willing to commit to the following Soil Health Grant requirements?

- **Maintain the project for at least 5 years after its implementation?** YES NO
- **Participate in VLAWMO's outreach and project sharing efforts?** YES NO
- **Do you understand that your Project may be visited and inspected by a VLAWMO representative during the 5 year Project maintenance period?** YES NO

Please print and sign below to indicate that the above information and attachments are accurate and complete, and constitute a complete and submitted grant application. If approved by the VLAWMO Technical Commission or Board, a VLAWMO staff signature will constitute an executed grant agreement between the grantee and the Vadnais Lake Area Water Management Organization (VLAWMO).

APPLICANT/GRANTEE

Print Name Leslie Scherer

Signature  Date 2/2/22

VLAWMO STAFF

Signature _____ Date _____

| Item | Unit Cost | Quantity | Total | notes | supplier |
|--|-----------|----------|---------|---|--|
| pollinator buffet meadow | \$72 | 1 | \$72 | | wild ones |
| Butterfly host plant boulevard | \$72 | 1 | \$72 | | wild ones |
| Living mulch groundcover | \$72 | 1 | \$72 | | wild ones |
| Deer resistant sensory garden | \$72 | 1 | \$72 | | wild ones |
| Joe Pye | \$9 | 1 | \$9 | 6 pack | or 5.25 each fc prarie restorations or wild ones |
| Compass Plant | \$9 | 1 | \$9 | 6 pack | or 5.25 each fc prarie restorations or wild ones |
| New england aster | \$9 | 1 | \$9 | 6 pack | or 5.25 each fc prarie restorations or wild ones |
| Prarie dropseed | \$9 | 1 | \$9 | 6 pack | or 5.25 each fc prarie restorations or wild ones |
| Regent serviceberry | \$64 | 3 | \$192 | also available smaller from prarie restorations; compact; 25,40,60) | outback |
| white prarie clover | \$9 | 2 | \$18 | 6 pack | prarie resorations |
| anise hyssop | \$9 | 2 | \$18 | 6 pack | prarie resorations |
| yarrow | \$9 | 2 | \$18 | 6 pack | prarie resorations |
| creeping thyme | \$9 | 2 | \$18 | 6 pack | prarie resorations |
| salvia | \$9 | 1 | \$9 | 6 pack | prarie resorations |
| aster | \$9 | 1 | \$9 | 6 pack | prarie resorations |
| milkweed | \$9 | 1 | \$9 | 6 pack | prarie resorations |
| echinacea | \$9 | 2 | \$18 | 6 pack | prarie resorations |
| lupine | \$9 | 2 | \$18 | 6 pack | prarie resorations |
| bee lawn mix | \$75 | 1 | \$75 | 3 lb; covers 600 square fe | mother earth or twin city seed |
| weed barrier | \$165 | 1 | \$165 | 48"X500' roll | 7 springs farm supply |
| bark guards | \$13 | 10 | \$130 | to protect shrub/tree see outback | |
| | | | \$1,021 | | |
| fence enclosure in back for tree guilds | | | \$6,200 | to be installed by twin cit | twin cities fence |
| hardware cloth for trees/bushes protection | \$100 | | \$100 | | fleet farm |
| landscape staples | \$10 | 2 | \$20 | 75 per pack | fleet farm |

additioonal trees/bushes

\$163

\$163 anoka county tree sale: 1 anoka tree sale

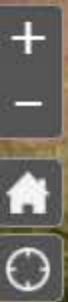
\$6,483

*we have already gotten a very large load of woodchips from chip drop ready to be placed

*will rent tool to pull buckthorn

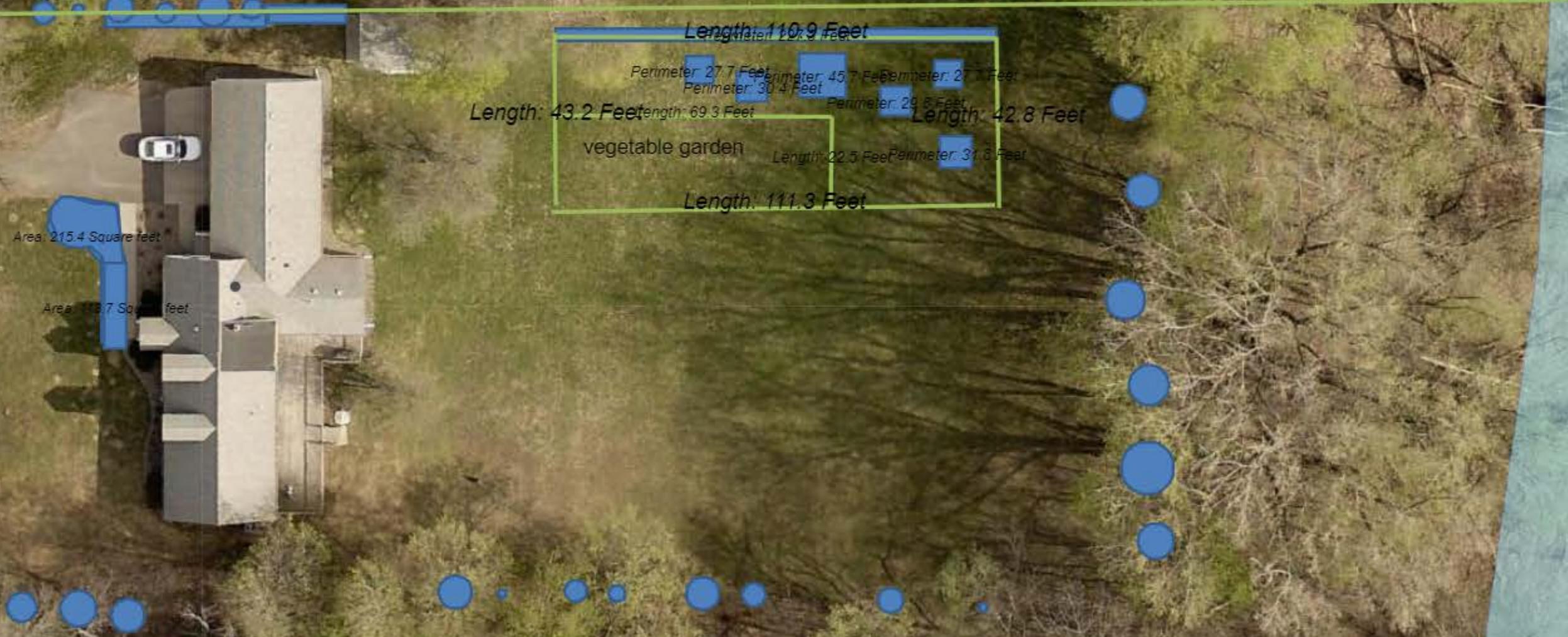
*all work will be completed by the applicant (aside from fencing which is a one time cost and included in additional costs beyond grant request including with our precious watershed district to correct a drainage issue with native plantings etc. so we have experience in the establishment and maintenance of native plantings and pollinator gardens

*I have already winter sown about 30 jugs of native seeds from the seed library, which will produce additional plants to incorporate into these spaces



3870 Stockdale Dr, Saint Paul, MN

Show search results for 3870 Stockda...

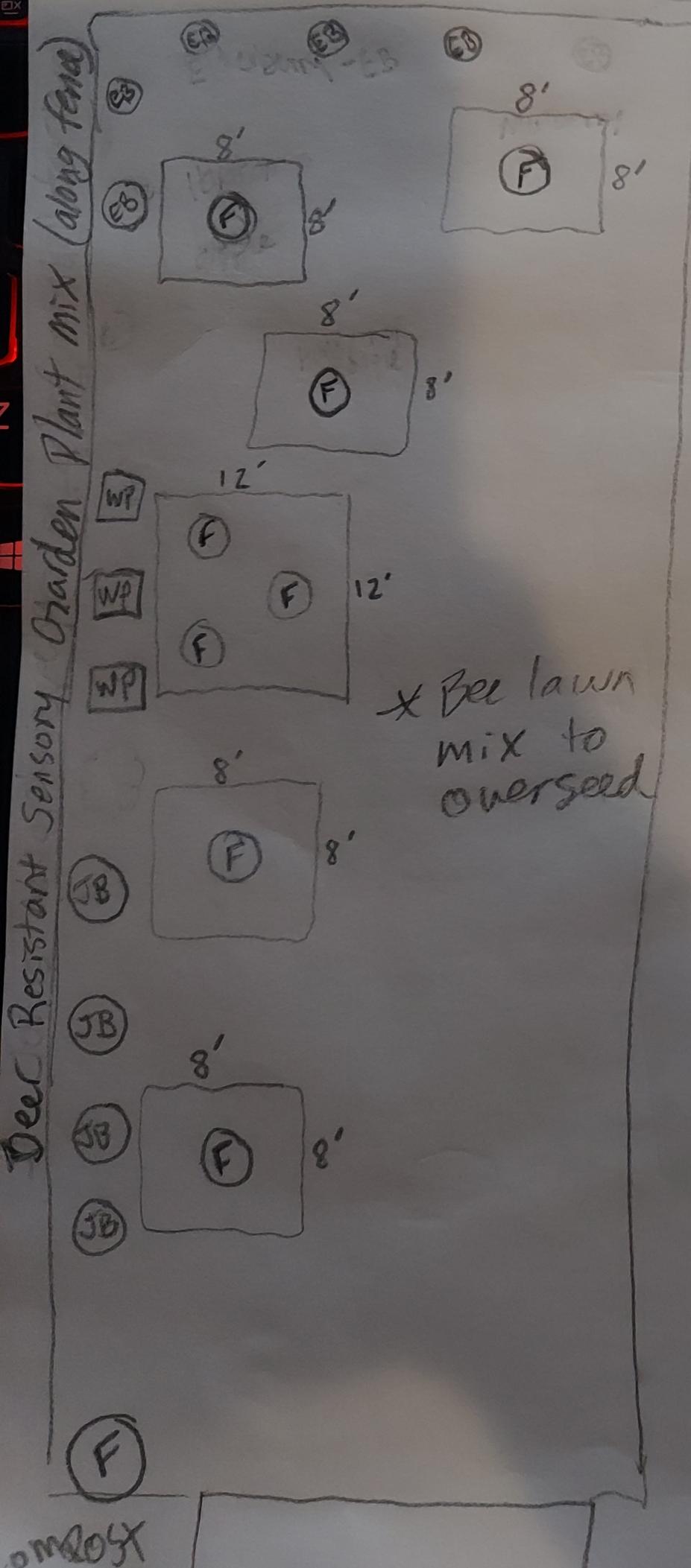


Back yard planting area fenced to allow trees/shrubs/perennials to establish without deer/rabbit pressure
 * will allow birds and insects to enter freely
 * goal is to create mini-tree guilds to start which will eventually grow and merge into a food forest filled with edibles and natives for pollinators, soil health, and consumable food

tree line / start of wetlands

Year 1 - add maples & river birch

Year 2 - add woodlands edge native plants



deer fence w/base for rabbits base

F = fruit tree already purchased
 WP = wild plum (purchased)
 JB = juneberry/serviceberry
 EB = elderberry (purchased)

5-8'x8' >
 1-12'x12'
 (464+ square feet planting space)

- Natives/Pollinators
- white clover
 - yarrow
 - Creeping thyme
 - echinacea
 - Milkweed (red)
 - salvia
 - aster
 - astible
 - Monarda
 - lupine
 - anise hyssop



SOIL HEALTH COST SHARE GRANT APPLICATION

What is VLAWMO's Soil Health Grant?

The Soil Health Grant is a **reimbursement** grant program to inspire, assist, and enable residents to install small-scale watershed best management practices that improve water quality and native habitat within VLAWMO. Applicants may apply for up to \$750 in Soil Health Grant funding, with a 25% applicant project match (example: total applicable project cost is \$1,000, where \$750 would be available for grant funding, and the applicant is responsible for paying \$250 of the project cost). If a project is in either a Targeted Habitat or Volume Reduction Zone, the applicant may apply for up to \$1,000 in grant funding.

Eligible Projects include:

- Native plantings & pollinator gardens
- Pollinator-friendly yards or turf replacement
- Downspout or yard raingardens
- Native planting buffer strips
- Erosion control or stabilization with native species

Ineligible Projects include:

- Purely landscaping or decorative projects with no native plant incorporation
- Rock or block decorative retaining walls
- Surface water chemical treatment of nuisance vegetation

Soil Health Grant Process

Soil Health Grant funding is available to residents for projects on property within the VLAWMO watershed boundary, and the grant program funding is first-come, first-serve, with limited program funding available for 2022. If you are interested in applying for a grant, please contact Tyler Thompson to schedule a site visit on your property to discuss your proposed project and to ask and answer questions regarding the Soil Health Grant process. Applications must be submitted by the 4th Friday of the month for review of eligibility, and applications will be considered for funding at VLAWMO's monthly Technical Commission meetings on the 2nd Wednesday of each month on the Commission's Consent Agenda.

1. Please contact Tyler Thompson to schedule a site visit of your property to discuss your project *before* submitting a grant application
2. After discussing with VLAWMO staff, please move forward with completing your grant application, along with the required attachments
3. Staff will confirm receipt of your submitted application and will begin the review process, or will inform the applicant if more information or detail is needed
4. Staff will inform the applicant if their application has passed application scoring criteria and will be heard for approval at the next VLAWMO Technical Commission meeting on the 2nd Wednesday of the month

Funding Agreement

Each project selected and approved for funding must enter into an agreement with VLAWMO defining the obligations of the applicant and VLAWMO. This includes, but is not limited to, such items as terms of the agreement, use of funds, cost overruns, and cancellation. The agreement also allows VLAWMO access to the project area for evaluation and promotion of the project. Applicant is responsible for securing any and all permits for the work. This agreement must be signed by both parties prior to commencement of work on the project; funding will only cover work done after the agreement has been signed, and work that was included for funding in the VLAWMO-approved grant application. **Questions regarding the grant program and completed applications can be sent to:**

Nick Voss, Education and Outreach Coordinator

(651) 204-6070 Email: nick.voss@vlawmo.org

Vadnais Lake Area Water Management Organization

800 County Rd E East Vadnais Heights, MN 55127

Grant Program Details

- Eligible materials are those which stay on the property such as plants, erosion control blanket, mulch, and drainage infrastructure. Ineligible materials would include work gloves, shovels, tools and equipment used to implement the project but may be used again for future projects (rented equipment IS an eligible expense).
- Eligible labor costs must be those expenses associated with a qualified landscaper/contractor and are subject to approval by VLAWMO staff. Ineligible labor would include the use of friends or a volunteer group helping to implement the project. VLAWMO reserves the right to adjust costs submitted for reimbursement, based upon final receipts and invoices.
- For all projects, only plants and vegetation native to Minnesota are eligible towards grant reimbursement. Hybrids of native plants are not counted as native. You must provide a list of plants that will be used to allow for review and comment by VLAWMO staff. Native restoration projects must be 100% native species. Projects may incorporate non-native or cultivar plants or vegetation within their project, but they are not eligible towards grant funding.
- **Projects completed or in progress are not eligible for funding.** A grant application must be approved for funding and grant agreement must be signed by the applicant and VLAWMO prior to the commencement of work to be eligible for VLAWMO grant funds. However, the landowner may begin project site preparation before grant approval, but will not be reimbursed for any associated expenses.
- A site visit by VLAWMO staff is required once the project is complete, for final project inspection, before a reimbursement check is released to the Grantee.
- Grantee must complete project and request a closeout inspection within one (1) year from date of grant approval. All receipts and invoices for applicable grant expenses must be submitted to VLAWMO staff for audit and for the grant reimbursement request to begin. Grant reimbursement checks are approved and mailed monthly, after approval by the VLAWMO Technical Commission at their monthly meeting.
- **Grantee must agree to maintain the project area for a minimum of 5 years.** Common maintenance includes weeding, watering, removal of invasive species, replacement of plants, repair of inlets/outlets, and other duties. The site may be inspected by VLAWMO staff on an annual basis to ensure compliance. VLAWMO staff may provide technical assistance and resources for project maintenance.
- Property owners may receive one grant every 2 years, unless opting into education incentives (below). If wanting to apply over the course of multiple years to complete projects in phases, your current project must be complete prior to the approval of a subsequent grant.

Applicant Landowner Information

| |
|--|
| Name: City of White Bear Lake |
| Address of property where project will be implemented: 4840 White Bear Parkway (Rotary Nature Preserve) |
| City, State, Zip: White Bear Lake, MN 55110 |
| Phone: 651-429-8587 |
| Email address: ctailon@whitebearlake.org |

Grant Specifics

ESTIMATED TOTAL COST OF YOUR PROJECT: \$ 2,000

AMOUNT OF GRANT REQUESTED: (\$750 MAXIMUM) \$ 750
(\$1,000 Maximum if within Targeted Priority Zone)

WHEN DO YOU PLAN TO COMPLETE YOUR PROJECT? Fall 2022

PROJECT TYPE:

Raingarden Native Restoration/Pollinator Planting Turf Replacement Other

If other, please describe proposed project: _____

Project Background

Describe your property: Does your property connect to a lake, stream, ditch, or wetland in VLAWMO? What is the purpose of your project?

The beautiful 40 acre Rotary Nature Preserve features a large wetland surrounded by woodland and meadow. Paved and wood-chipped trails and a boardwalk across the wetland provide scenic views and opportunities for nature observation by park users. Over the years, many invasive plant species have taken over the park and displaced native plant communities. The City and Rotary Club of White Bear Lake are partnering to remove invasive species and restore native plant communities in the park over numerous phases. The location of the first three phases of restoration are highlighted in the attached map. The City and Rotary Club are seeking a VLAWMO Soil Health Grant for phase 1 of the restoration, which is described below.

Describe how your project will support the goals of the Soil Health Grant Program (see guidance page for more Information). Does your proposed project directly reduce, capture, or treat stormwater?

Phase 1 of the restoration is located just south of the parking lot adjacent to the paved trail, and will be completed by the Rotary Club and City. The project includes site prep and planting a 3,380 sf native pollinator garden. A 580 sf area will be a more formal planting with native plants and mulch, and the remaining 2,800 sf area will be seeded with a native seed mix. A design sketch and budget & plant list are attached to this application. This project will support the Soil Health Grant Program goals of preservation, protection and restoration of native plant and wildlife communities by replacing non-native plant species in the phase 1 area with regional native plant species. The native plants will support pollinators and other wildlife and promote infiltration due to their deep root systems.

Please briefly describe anticipated maintenance activities of your project:

Rotary Club will water the newly planted plants within the 580 sf mulched area until they become established. The City will hire Natural Shore Technologies to provide the 3-year establishment maintenance and long term maintenance of the entire phase 1 area. This maintenance will include 3-4 sites per year to control weeds, and supplemental native seed in bare areas as needed.

Project Specifications

In order to determine the water quality benefit of your project (amount of stormwater and pollutants captured), specific information is required for VLAWMO staff to perform the calculations. If you are working with a professional landscaper, they should be able to provide you with this information.

| | | | |
|---|----|---|---|
| TOTAL PROPERTY AREA (Acres): | 40 | TOTAL PROJECT SIZE (SQ.FT.): | 3,380 (phase 1) |
| IMPERVIOUS AREA DRAINING TO PROJECT (SQ.FT.): | 0 | PERVIOUS AREA DRAINING TO PROJECT (SQ.FT.): | 0 - The project area is at a local high point and drains to the existing wetland. |

IF YOUR PROJECT INCLUDES INFILTRATION, PLEASE PROVIDE THE FOLLOWING INFORMATION

| | | | |
|--|----|--|----|
| SOIL INFILTRATION RATE (INCHES/HR): | NA | DEPTH OF RAINGARDEN BASIN (INCHES): | NA |
|--|----|--|----|

Additional Required Attachments

To complete your application, please include:

- Detailed drawing or plan of the proposed project, drafted by either the landowner or a contractor. *See attached phasing plan, and phase 1 drawing (designed and drawn by a Rotary Club member)*
- Detailed project budget estimate with clear cost and material breakouts that equate to your total project cost estimate. *See attached budget list*

****This information, along with the application, may be scanned and emailed to VLAWMO GIS Watershed Technician, Tyler Thompson (tyler.thompson@vlawmo.org)****

Opting in to the education incentives would allow reapplying for Soil Health Grant funds the consecutive year after being awarded grant funding. Incentives entail committing to three of the following four options for 2 years:

1. Documenting seasonal photos, organizing them, and sending them to VLAWMO via jump drive or email, to show the progress and growth of the project.
2. Provide a neighborhood spotlight article featuring a photo of participants posing in front of the project, as well as a mini-interview 1-2 years after the project was installed to speak to their experience in install, maintenance, any problems, and enjoyment for others to learn from.
3. Participate as a host site for VLAWMO’s annual neighborhood BMP tour working in conjunction with VLAWMO Master Water Stewards.
4. Help coordinate VLAWMO’s annual native plant swap with Master Water Stewards. This entails saving seeds, dividing and potting mature plants for sharing with other residents or public raingardens, or taking plants from the plant swap for the home project as needed.

Projects must be maintained for a minimum of 5 years, and applicants must be willing to participate in VLAWMO's Education & Outreach and project sharing efforts. The applicant is responsible for Project maintenance items referenced in the Soil Health Grant Guidance document for a 5 year period, after Project completion. VLAWMO is not responsible for completing maintenance activities, but will assist with staff guidance. A project may be visited and inspected by VLAWMO staff during the 5 year maintenance period. Please inform VLAWMO if you move within the 5 years of project implementation so we may provide the new owners with information and guidance on the Project.

Are you willing to commit to the following Soil Health Grant requirements?

- **Maintain the project for at least 5 years after its implementation?** YES NO
- **Participate in VLAWMO's outreach and project sharing efforts?** YES NO
- **Do you understand that your Project may be visited and inspected by a VLAWMO representative during the 5 year Project maintenance period?** YES NO

Please print and sign below to indicate that the above information and attachments are accurate and complete, and constitute a complete and submitted grant application. If approved by the VLAWMO Technical Commission or Board, a VLAWMO staff signature will constitute an executed grant agreement between the grantee and the Vadnais Lake Area Water Management Organization (VLAWMO).

APPLICANT/GRANTEE

Print Name Paul Kauppi, City Engineer

Signature  Date March 29, 2022

VLAWMO STAFF

Signature _____ Date _____

**Budget & Plant List
Phase 1 Restoration Project
Rotary Nature Preserve**

| Item | Cost per unit | Number of units | Total cost | Notes |
|-----------------------------|---------------|------------------|----------------|-------------------------|
| Native plants – 6pack plugs | \$10.00/ 6-pk | 10 | \$100 | For 580 sf planted area |
| Native plants - 3.5" pots | \$5.50 | 100 | \$550 | |
| Native plants - #1 pot | \$11.00 | 50 | \$550 | |
| Shredded hardwood mulch | \$3/bag | 100 | \$300 | |
| Native seed | NA | For 2800 sf area | \$500 | For 2800 sf seeded area |
| Total: | | | \$2,000 | |

List of native plants within the planted and mulched area

The following list of plants assumes dry soil conditions; soil types will be confirmed in the spring. If there are changes to the plant list due to soil type, availability, etc., the revised list will be submitted to VLAWMO for review and approval.

Forbs

- Allium stellatum - Prairie Wild onion
- Anemone patens - Pasque Flower
- Asclepias tuberosa - Butterfly Milkweed
- Baptisia alba - White Wild Indigo
- Baptisia australis - Blue Wild Indigo
- Dalea purpurea – Purple Prairie Clover
- Echinacea purpurea - Purple coneflower
- Fragaria virginiana - Wild Strawberry
- Geranium maculatum - Wild Geranium
- Geum triflorum - Prairie Smoke
- Liatris aspera - Rough Blazing Star
- Lupinus perennis - Wild Lupine
- Monarda fistulosa - Wild Bergamot
- Penstemon grandifloras – Large-Flowered Beardtongue
- Polemonium reptans - Jacob’s Ladder
- Symphotrichum oblongifolium - Aromatic Aster

Grasses

- Sporobolus heterolepis - Prairie Dropseed
- Schizachyrium scoparium - Little Bluestem

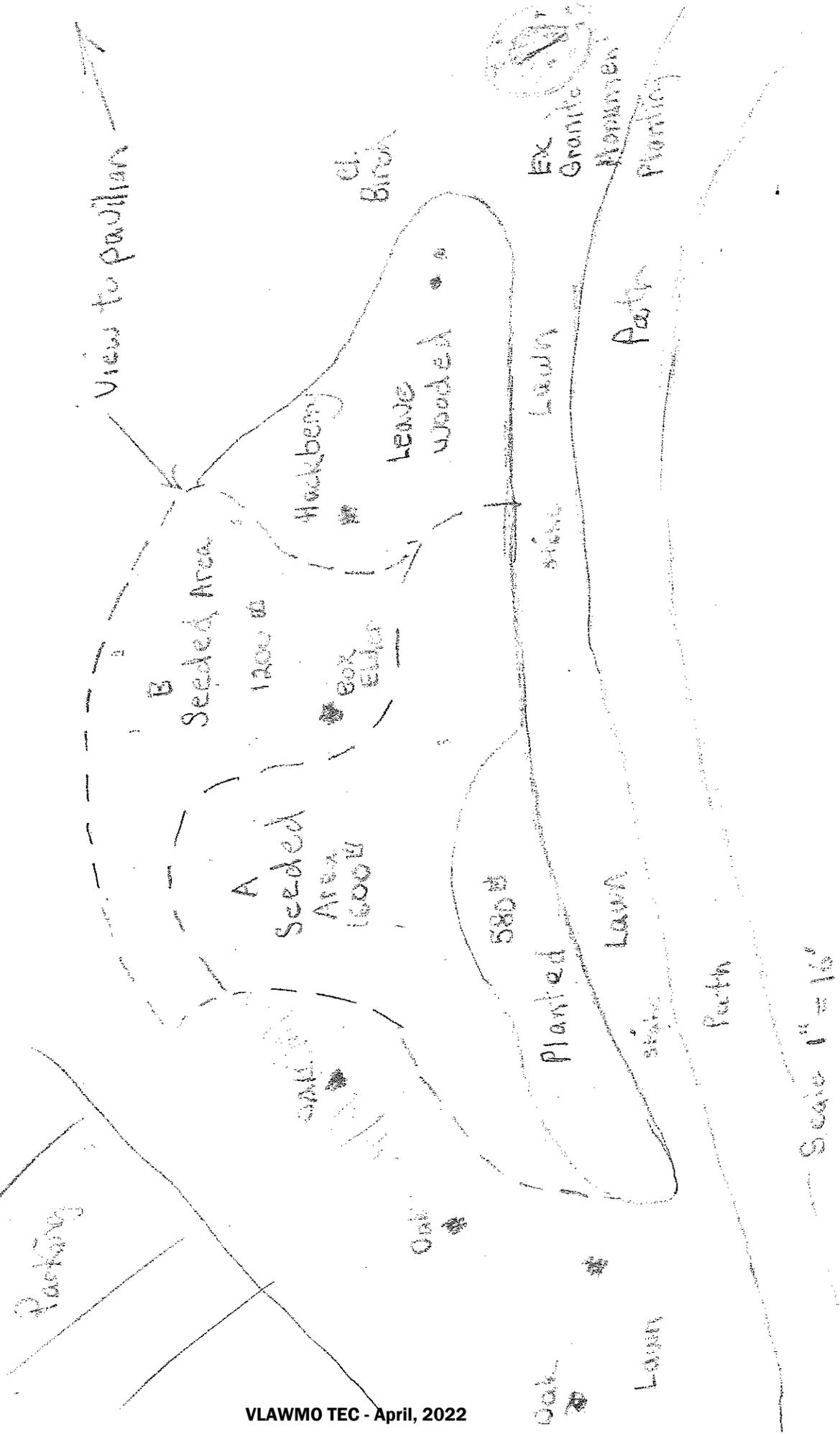
Shrubs

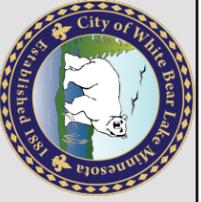
- Ceanothus americanus - New Jersey Tea

Seed mix

A custom native seed mix, with the goal of at least 55% forbs by weight, will be purchased from Natural Shore Technologies. The seed mix will be submitted to VLAWMO for review and approval when available.

Rotary Park Pollinator Garden





City of White Bear Lake Rotary Park Restoration Project



Legend

- Phase 1
- Phase 2
- Phase 3



To: VLAWMO Technical Commission

From: Lauren Sampedro, Watershed Technician & Program Coordinator

Date: April 4, 2022

Re: Landscape Level 2 2022-01 NOHOA Filtration Basin Grant Application

Introduction

LL2 2022-01 NOHOA Filtration Basin

- Applicant: North Oaks Homeowner's Association (NOHOA)
- Location: South neighborhood entrance from HWY 96 to Willow Road, North Oaks
- Project Type: Filtration Basin
- Total Estimated Project Cost: \$54,219.67
- VLAWMO Grant Recommendation: 75%, up to \$15,000.00

Background

This application proposes a large filtration basin in a center island of the south North Oaks neighborhood entrance in North Oaks. The neighborhood entrance is at the intersection of Hwy 96 and Pleasant Lake Road. The filtration basin would be completed in conjunction with a road reclamation project on Pleasant Lake Road and does not require any permits with the City of North Oaks. The project area ultimately drains to Sucker Lake and East Vadnais Lake.

Elfering and Associates provided a design for the proposed filtration basin project to capture and treat stormwater runoff from Pleasant Lake Road and HWY 96 before it enters the two wetlands adjacent to Pleasant Lake Road, eventually reaching Sucker Lake. The project would provide treatment for a catchment area of 14,000 square feet and would reduce total phosphorus by 57% and total suspended solids by 88%. The project as proposed would involve installing a 2,308 square foot filtration basin with native plants and curb cuts with four Rain Guardian turrets for pretreatment. As part of the project, educational signage and future newspaper articles and social media posts will be planned in partnership with VLAWMO and NOHOA.

The applicant is in the process of obtaining three bids for the project and a planting plan. The current estimated cost by Elfering and Associates is \$54,219.67. The final selected bid price is expected to be of a similar cost. Due to the project's water quality benefits to the Sucker Lake and East Vadnais Lake subwatershed, its high public visibility, and the amount of funds available in the Landscape Level 2 program budget, staff feel \$15,000 is appropriate for this project.

Staff Recommendation

VLAWMO staff recommends the TEC make a recommendation to the VLAWMO Board of Directors that this project be awarded 75% of eligible project expenses, not to exceed \$15,000, in accordance with program guidelines.

Attachments

- Grant Application
- Location Maps
- Project Design
- Initial Cost Estimate

VLAWMO LANDSCAPE LEVEL 2 GRANT APPLICATION FORM

Please submit form & required materials to:
 TYLER THOMPSON
tyler.thompson@vlawmo.org
 (651) 204-6071

Vadnais Lake Area Water
 Management Organization
 800 County Rd E East
 Vadnais Heights, MN 55127
www.vlawmo.org
 (651) 204-6070

Please fill in the application as best as possible and use additional pages if necessary. Refer to the Grant Guidance document for further information or contact Tyler Thompson with any questions.

APPLICANT INFORMATION

ORGANIZATION NAME: _____

CONTACT PERSON: _____

ADDRESS: _____ CITY: _____ ZIP: _____

PHONE: _____ EMAIL: _____

PROJECT SUMMARY

ESTIMATED **TOTAL** COST OF YOUR PROJECT: \$ _____ AMOUNT OF GRANT REQUESTED: \$ _____

AMOUNT & PERCENTAGE OF MATCHING FUNDS? (FROM LANDOWNER) _____

WHEN DO YOU PLAN TO COMPLETE YOUR PROJECT? _____

TYPE OF PROJECT THAT WILL BE COMPLETED:

- | | | | |
|---|--|--|--------------------------------|
| Raingarden/ Infiltration Basin <input type="checkbox"/> | Shoreline or Streambank Restoration <input type="checkbox"/> | Stormwater Retrofit <input type="checkbox"/> | Other <input type="checkbox"/> |
|---|--|--|--------------------------------|

If other, please describe proposed project: _____

PROJECT BACKGROUND

DESCRIBE THE PROJECT LOCATION, INCLUDING WATER RESOURCES WHICH MAY BORDER THE PROPERTY), OR WHICH WATERBODIES THE PROPERTY MAY DRAIN TO. WHAT ISSUE DO YOU HOPE TO ADDRESS WITH THIS PROJECT?

WHAT RESULTS WATER QUALITY RESULTS DO YOU HOPE TO ACHIEVE WITH THIS PROJECT?

ARE ANY PUBLIC EDUCATION EFFORTS OR PROJECT SIGNAGE PLANNED FOR THE PROJECT? PLEASE EXPLAIN:

PLEASE LIST OTHER PARTNERS WHO ARE PROVIDING FUNDING OR OTHER FORMS OF SUPPORT.

PROJECT SPECIFICATIONS

In order to be considered for a LL2 grant, information regarding the water quality benefit of your project (amount of stormwater and phosphorus captured) must be included. If a professional designer or contractor has determined the pollutant capture amounts, please include that information with the application. VLAWMO staff is also available to assist you in determining these calculations.

| | |
|--|---------------------------------|
| TOTAL PROPERTY AREA (SQ.FT.): _____ | PROJECT SIZE (SQ.FT.): _____ |
|--|---------------------------------|

| | |
|---|---|
| IMPERVIOUS AREA DRAINING TO PROJECT (SQ.FT.): _____ | PERVIOUS AREA DRAINING TO PROJECT (SQ.FT.): _____ |
|---|---|

IF YOUR PROJECT IS A RAINGARDEN, PLEASE PROVIDE THE FOLLOWING INFORMATION

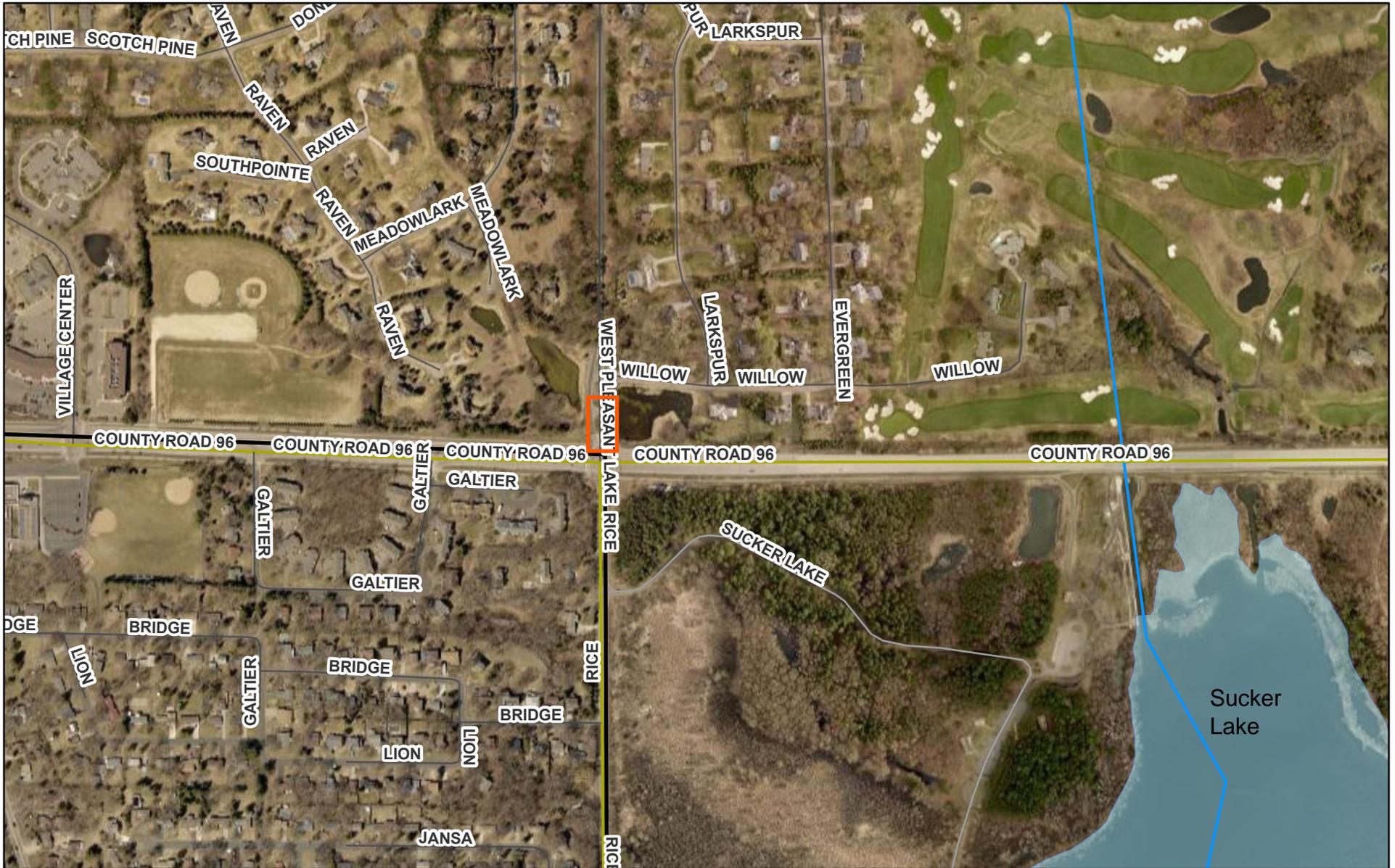
| | |
|--|--|
| SOIL INFILTRATION RATE (INCHES/HR): _____ | DEPTH OF RAINGARDEN (INCHES): _____ |
|--|--|

ADDITIONAL REQUIRED MATERIALS

TO COMPLETE YOUR APPLICATION, PLEASE INCLUDE AND ATTACH:

- Detailed final plan set of the proposed project, drafted by either a qualified professional or Engineer. Dependent upon the complexity of the project, VLAWMO may require project final designs be completed by qualifying professional or Engineer. Plans must either show water quality pollutant reductions, or must include project dimensions that enable VLAWMO staff to model the project for water quality benefits or stormwater reductions.
- Detailed project budget estimate with clear cost and material breakouts that equate to your total project cost estimate. Please review the VLAWMO Landscape Level 2 Cost Share Guidance document for eligible project materials that are applicable for grant funding.

NOHOA South Entrance Filtration Basin Project



4/4/2022, 12:04:19 PM

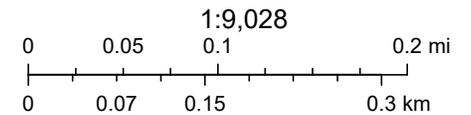
 VLAWMO Boundary 2020

 VLAWMO roads

 Project Location

 VLAWMO streams

 VLAWMO lakes



NORTH OAKS HOME OWNERS ASSOCIATION

2022 STREET IMPROVEMENTS

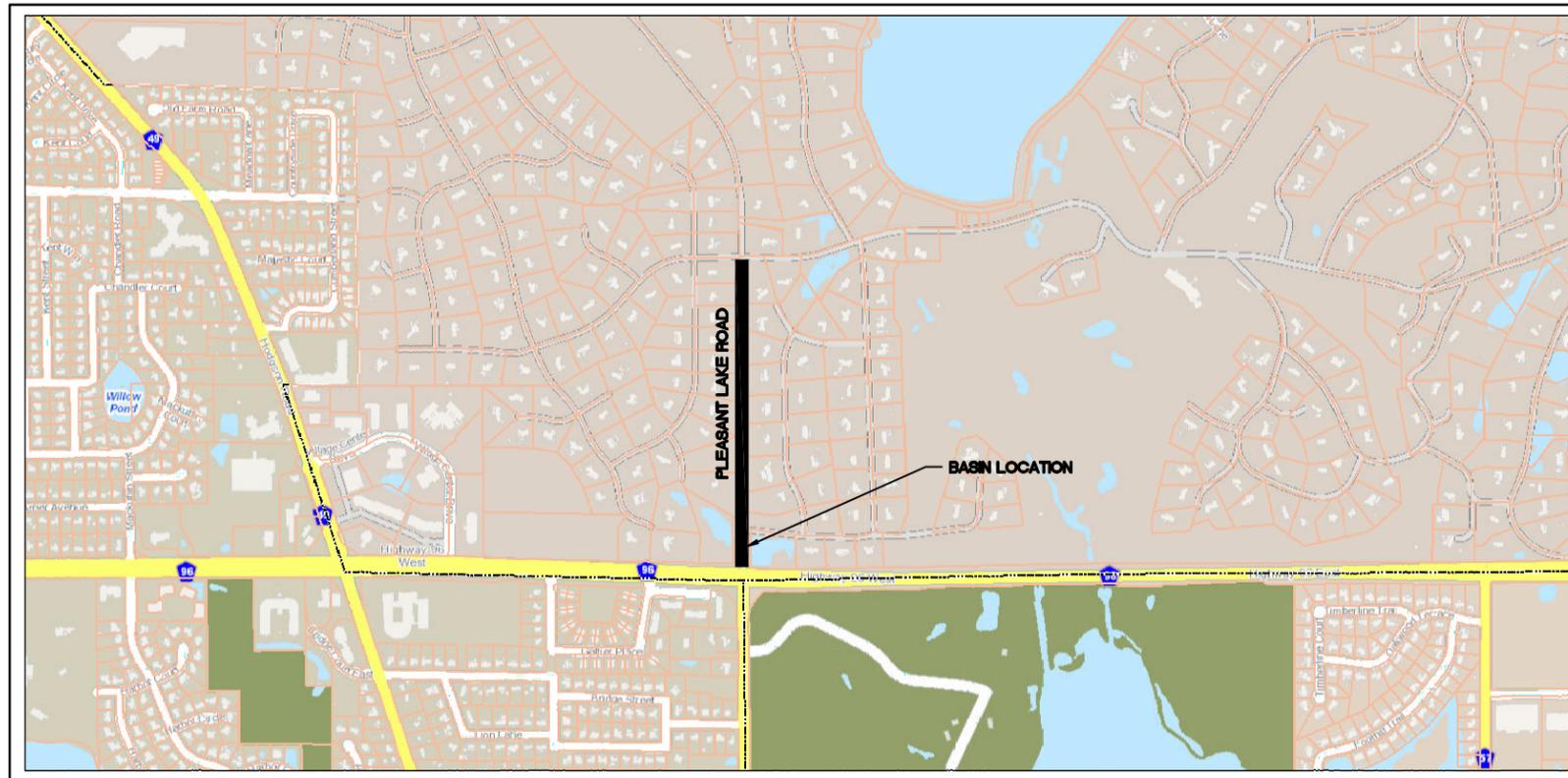
CONSTRUCTION PLAN FOR RECLAMATION, BITUMINOUS SURFACE, CONCRETE CURB & GUTTER,
STORM SEWER, AND RESTORATION

PLAN SYMBOLS

| | |
|---|------|
| STATE LINE | ---- |
| COUNTY LINE | ---- |
| TOWNSHIP OR RANGE LINE | ---- |
| SECTION LINE | ---- |
| QUARTER LINE | ---- |
| SIXTEENTH LINE | ---- |
| EXISTING RIGHT OF WAY LINE | ---- |
| PROPOSED RIGHT OF WAY LINE | ---- |
| PROPERTY LINE | ---- |
| CORPORATE OR CITY LIMITS | ---- |
| RAILROAD | ---- |
| RAILROAD RIGHT OF WAY | ---- |
| RIVER OR CREEK | ---- |
| CULVERT | ---- |
| GUARDRAIL | ---- |
| WOOD FENCE | ---- |
| BARBED WIRE FENCE | ---- |
| CHAIN LINK FENCE | ---- |
| TIMBER WALL | ---- |
| STONE WALL | ---- |
| RAILROAD CROSSING SIGN | ---- |
| SLOPE EASEMENT (CONSTRUCTION LIMITS) | ---- |
| DECIDUOUS TREE | ---- |
| CONIFEROUS TREE | ---- |
| BUSH OR SHRUB | ---- |
| BRIDGE | ---- |
| LAKE OR POND | ---- |

UTILITIES SYMBOLS

| | |
|---------------------------|------|
| UTILITY POLE | ---- |
| GUY OR ANCHOR | ---- |
| STREET LIGHT | ---- |
| TELEPHONE PEDESTAL | ---- |
| GAS MAIN | ---- |
| EXISTING WATER MAIN | ---- |
| ELECTRIC BOX | ---- |
| TELEPHONE CABLE | ---- |
| ELECTRIC CABLE | ---- |
| EXISTING STORM SEWER | ---- |
| EXISTING STORM MANHOLE | ---- |
| EXISTING SANITARY SEWER | ---- |
| EXISTING SANITARY MANHOLE | ---- |
| GATE VALVE | ---- |
| CONTROLLER CABINET | ---- |
| EXISTING HYDRANT | ---- |
| CABLE TELEVISION BURIED | ---- |
| FIBER OPTIC CABLE | ---- |
| MAILBOX | ---- |
| TRAFFIC SIGNAL LINE | ---- |
| TRAFFIC SIGNAL HAND HOLE | ---- |
| EXISTING CATCH BASIN | ---- |
| POLE LIGHT | ---- |
| RAILROAD SIGNAL | ---- |
| TRAFFIC SIGNAL | ---- |



GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT
ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS"
ALL TRAFFIC CONTROL DEVICES SHALL HAVE RETROREFLECTIVE SHEETING.

INDEX

| | |
|-------------|-----------------------------|
| SHEET NO. 1 | TITLE SHEET |
| SHEET NO. 2 | PLEASANT LAKE ROAD ENTRANCE |
| SHEET NO. 3 | DETAILS |

THIS PLAN CONTAINS 3 SHEETS



10062 FLANDERS COURT NE • BLAINE, MN 55449
PH: (763) 780-0450



SCALES

| | |
|-----------------|-------|
| PLAN- | 0 20' |
| PROFILE-HORIZ.- | 0 20' |
| VERT.- | 0 5' |
| CROSS-SECTIONS- | 0 10' |

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

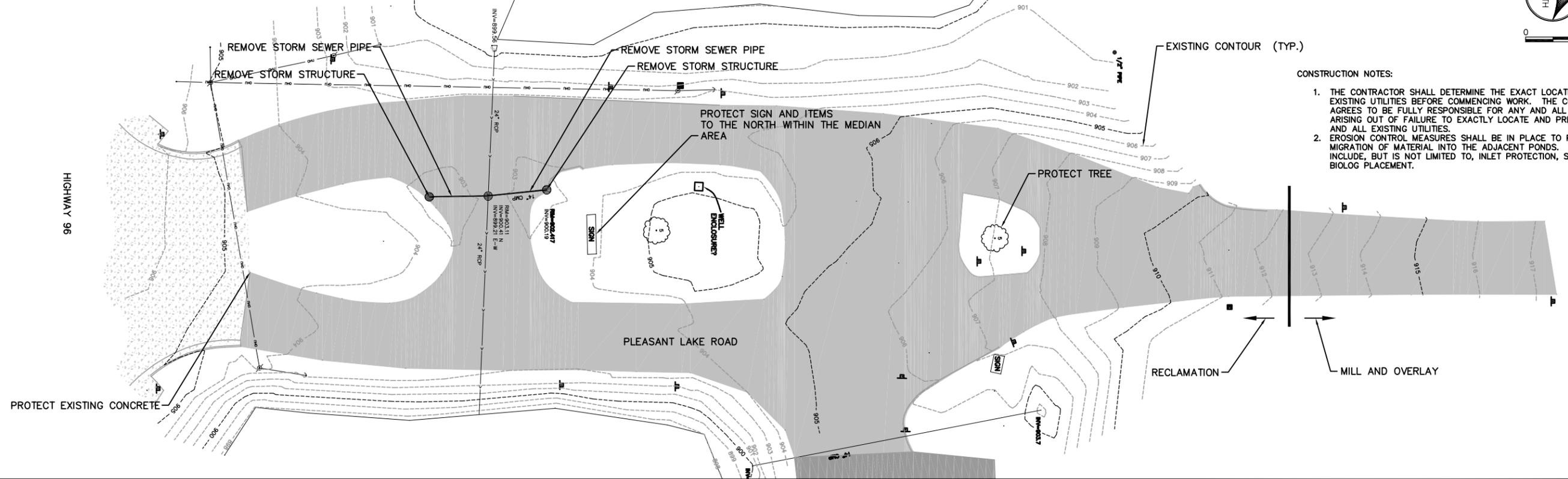
SIGNATURE: Kristina Elfering DATE: 03/31/2022

PRINTED NAME: KRISTINA ELFERING LIC. NO. 42350

EXISTING CONDITIONS AND REMOVALS

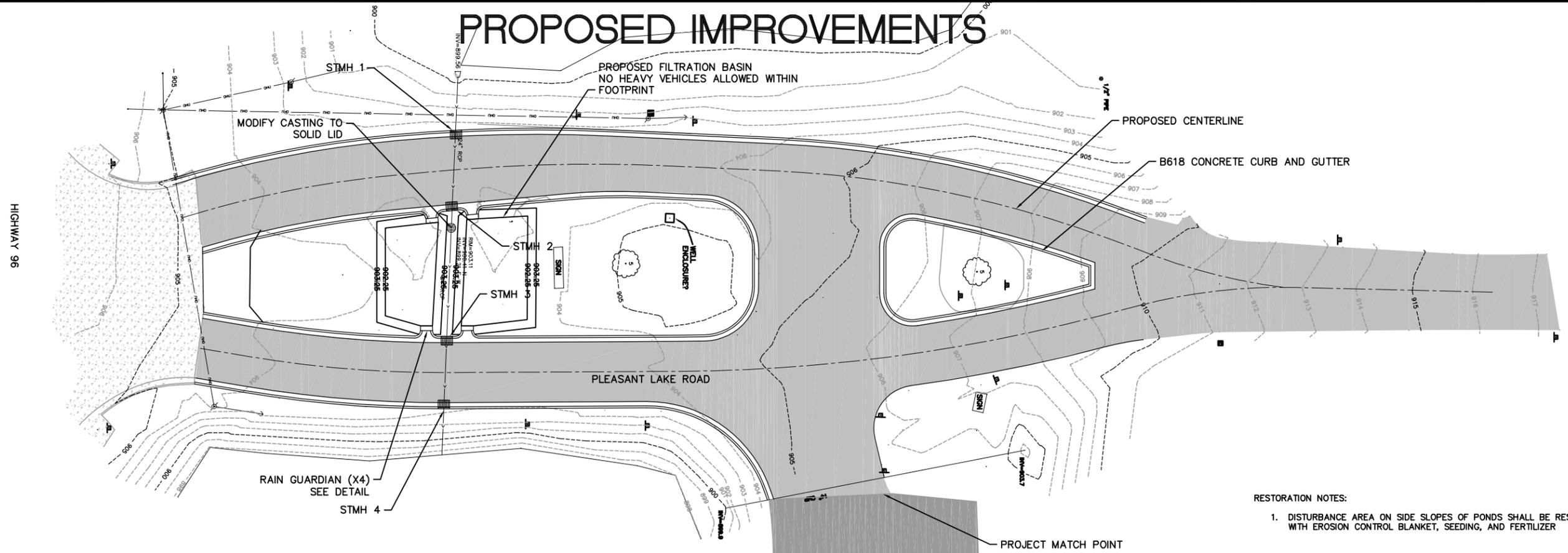


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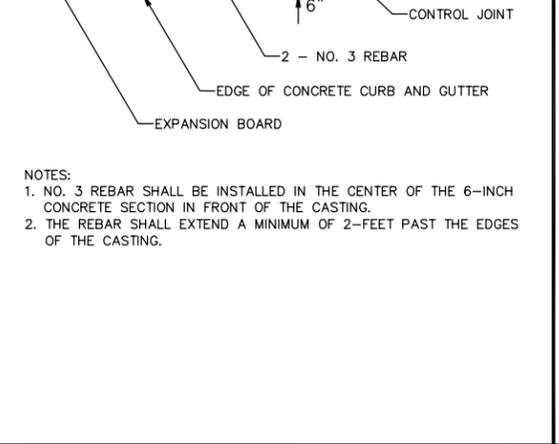
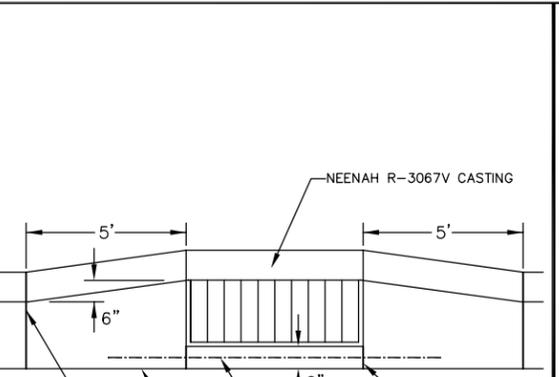
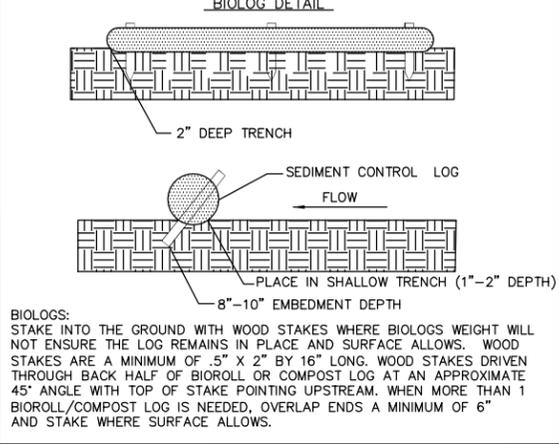
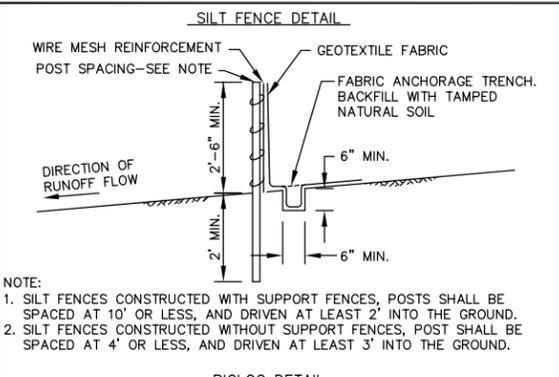
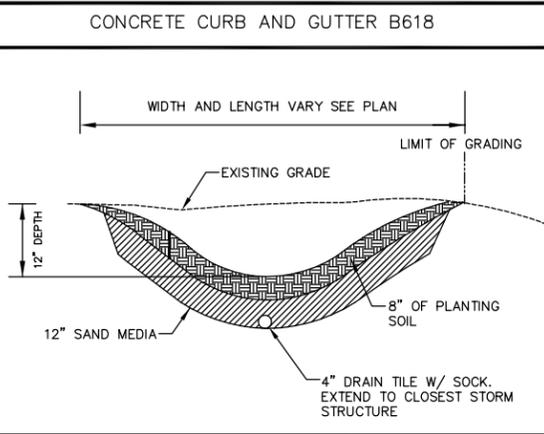
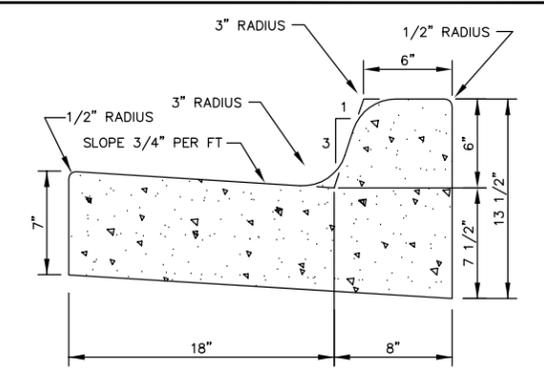
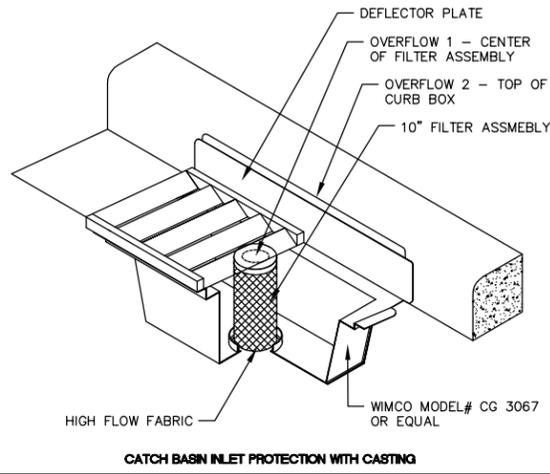
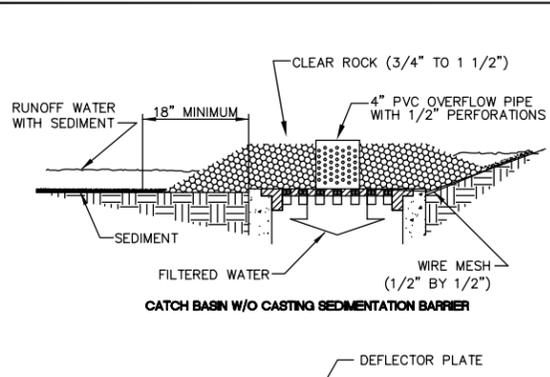
- CONSTRUCTION NOTES:
1. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE ARISING OUT OF FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES.
 2. EROSION CONTROL MEASURES SHALL BE IN PLACE TO PREVENT THE MIGRATION OF MATERIAL INTO THE ADJACENT PONDS. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, INLET PROTECTION, SILT FENCE AND BIOLOG PLACEMENT.

PROPOSED IMPROVEMENTS



- RESTORATION NOTES:
1. DISTURBANCE AREA ON SIDE SLOPES OF PONDS SHALL BE RESTORED WITH EROSION CONTROL BLANKET, SEEDING, AND FERTILIZER

| NO. | DATE | BY | REVISION DESCRIPTION |
|-----|------|----|----------------------|
| | | | |
| | | | |
| | | | |

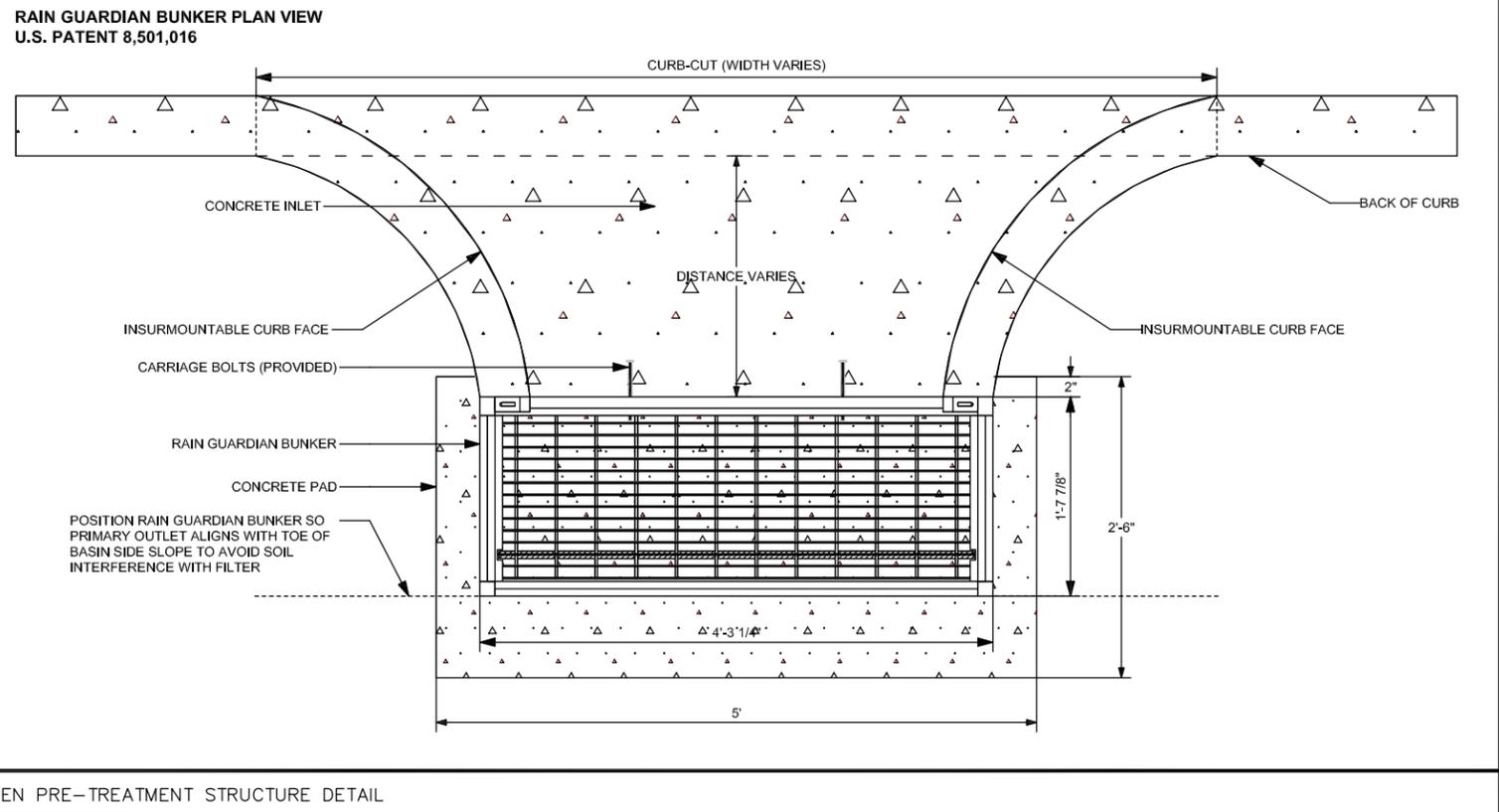
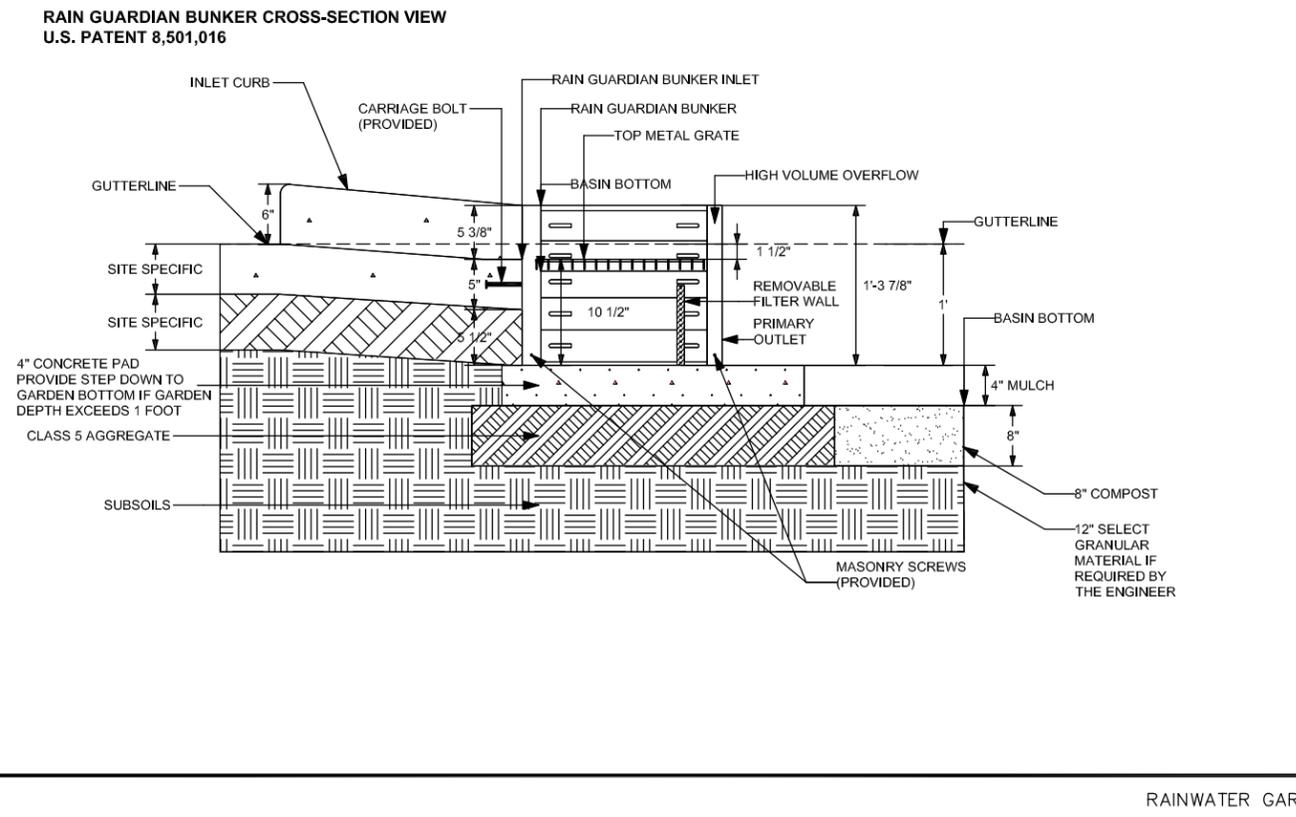


CATCH BASIN INLET PROTECTION

RAINWATER GARDEN W/ DRAINTILE EXCAVATION

EROSION CONTROL DETAIL

STANDARD CURB INLET DETAIL



RAINWATER GARDEN PRE-TREATMENT STRUCTURE DETAIL

| NO. | DATE | BY | REVISION DESCRIPTION |
|-----|------|----|----------------------|
| | | | |
| | | | |
| | | | |

ESTIMATED COST

PROJECT: FRONT ENTRANCE BIOFILTRATION GARDEN

OWNER: NOHOA

ENGINEER: ELFERING & ASSOCIATES

| ITEM NO. | SPEC. REF. | ITEM DESCRIPTION | UNIT | TOTAL QTY | UNIT PRICE (\$) | TOTAL PRICE (\$) |
|--|------------|---|------|-----------|-----------------|--------------------|
| SCHEDULE 1.0 - BIOFILTRATION GARDEN | | | | | | |
| 1 | 2021.501 | MOBILIZATION | LS | 1.0 | \$2,500.00 | \$2,500.00 |
| 2 | 2104.501 | REMOVE STORM MAIN | LF | 50.0 | \$19.14 | \$957.00 |
| 3 | 2104.509 | REMOVE DRAINAGE STRUCTURE | EACH | 2.0 | \$888.56 | \$1,777.12 |
| 4 | 2105.511 | POND EXCAVATION (RAIN WATER GARDEN) | CY | 223.9 | \$46.40 | \$10,388.44 |
| 5 | 2105.525 | SAND MEDIA | CY | 52.6 | \$47.08 | \$2,476.29 |
| 6 | 2502.603 | 4" PERF TP PIPE DRAIN W/ SOCK | LF | 200.0 | \$20.88 | \$4,176.00 |
| 7 | 2503.602 | CONNECT TO EXISTING STORM STRUCTURE | EACH | 2.0 | \$300.00 | \$600.00 |
| 8 | 2540.603 | LANDSCAPE EDGER, STEEL | LF | 200.0 | \$12.21 | \$2,442.96 |
| 9 | 2574.55 | COMPOST GRADE 2 | CY | 86.1 | \$55.45 | \$4,774.69 |
| 10 | 2575.513 | MULCH MATERIAL | CY | 28.7 | \$53.74 | \$1,542.62 |
| 11 | SPEC | RAIN WATER GARDEN INLET (RAINGUARDIAN BUNKER) | EACH | 4.0 | \$3,175.82 | <u>\$12,703.30</u> |
| SCHEDULE 1.0 - BIOFILTRATION GARDEN - TOTAL | | | | | | \$44,338.42 |
| SCHEDULE 2.0 - PLANTS | | | | | | |
| 1 | SPEC | RAINGARDEN PLANTS | EA | 2,325.0 | \$4.25 | \$9,881.25 |
| SCHEDULE 2.0 - PLANTS - TOTAL | | | | | | \$9,881.25 |
| BID SUMMARY - TOTAL | | | | | | |
| SCHEDULE 1.0 - BIOFILTRATION GARDEN - TOTAL | | | | | | \$44,338.42 |
| SCHEDULE 2.0 - PLANTS - TOTAL | | | | | | \$9,881.25 |
| TOTAL BASE BID | | | | | | \$54,219.67 |

Upcoming Proposed Best Management Practice (BMP) Project for Wilkinson Lake: Grant funds and local partnerships coming together to improve the impaired North Oaks lake

-Dawn Tanner, VLAWMO Program Development Coordinator

In last month's article in North Oaks News about Pleasant and East Vadnais Lakes, we concluded by mentioning that work to improve water quality in Wilkinson Lake is a priority for the Vadnais Lake Area Water Management Organization (VLAWMO). Wilkinson is a shallow lake in North Oaks that is listed on the Minnesota Pollution Control Agency's (MPCA) Impaired Waters List because of excess nutrients. Wilkinson flows into Deep and Pleasant Lakes and may have broader implications to water quality because of these connections.

A proposed project is now gaining momentum to improve Wilkinson Lake.

Behind the scenes, we've been working to conduct planning, prepare project concepts, build partnerships, and apply for grant funding to work toward the goal of improved water quality in Wilkinson Lake. In 2019, VLAWMO applied for and was selected as a small, priority watershed with the MPCA as part of their federal Clean Water Act Section 319 program. This grant program provides 60% of the project cost in grant funding and requires 40% support in local match. The program is exciting because it allows a long-term vision and implementation of projects in a focal area. In this case, the timeframe is 16 years with grant funding to priority watersheds during 4 separate years. In the intervening years, watershed projects are implemented, and proposals are prepared for the next funding round. VLAWMO's first funding round for this program was 2021. Our focal area includes the subwatersheds of Wilkinson, Birch, and Tamarack Lakes. Our first proposed project in this program focuses on improving water quality in Wilkinson Lake.

VLAWMO doesn't own land, so our partnerships are crucial in building successful projects to improve water quality. Partners include local governments and municipalities, State and Federal agencies, utilities, organizations, private landowners, and more. For the proposed Wilkinson project, a key area was identified through site investigation and feasibility studies to the south of Wilkinson Lake. This area is of regional importance because it is the last stop before stormwater empties into Wilkinson Lake and because the ditch system carries water primarily from upstream cities, county, and highway areas. These local entities and their stormwater contributions are identified in a formal document that guides water-quality improvements for Wilkinson Lake, which is called a Total Maximum Daily Load (TMDL). The TMDL is available on the VLAWMO website.

The landowner in the area identified by feasibility studies is North Oaks Company/North Oaks Farms (NOC). As such, they are an essential project partner in implementation of this important water-quality project at this key, strategic location. In 2020, NOC initiated a contract with an environmental consultant to identify possible project locations. This work was essentially on a parallel track with feasibility work VLAWMO was conducting in partnership with Ramsey County Soil and Water Conservation Division (RCSWCD). These parallel efforts formed a solid foundation for this effective collaboration.

NOC has been involved in preparing for the project in a variety of ways. They agreed to be a local cash-match partner, providing 50% of the cash-match requirement (with VLAWMO providing the other 50%). They are a partner in providing and funding project maintenance and contributed the easement for project construction and maintenance. They have led conversations and negotiation with the Minnesota

Land Trust (MLT) because the project area is part of the landowner’s permanent Conservation Easement. MLT is a partner and signatory on the project easement and will be closely involved with project design plans as they continue to be developed.

St. Paul Regional Water Services (SPRWS) is another important partner involved with this project. SRPWS led the development and accepted a grant on behalf of VLAWMO from the Minnesota Department of Health (MDH) to support early site investigation, sampling, engineering, and legal costs to develop easement documentation. This grant support, provided during the summer of 2021, has been important in allowing project preparation to be completed prior to the official grant contract start date with MPCA. The official Section 319 grant contract with MPCA was fully executed in February 2022.

Updates regarding project progress and conceptual design development so far have been provided by VLAWMO to the City of North Oaks and the North Oaks Homeowners’ Association (NOHOA). We are delighted to be at a stage where we will have more frequent communication and progress updates available. We look forward to providing updates and more detail as designs for the proposed project are honed to specifically suit the project area, and as construction approaches for this important project. We will continue to share information with you as it becomes available.

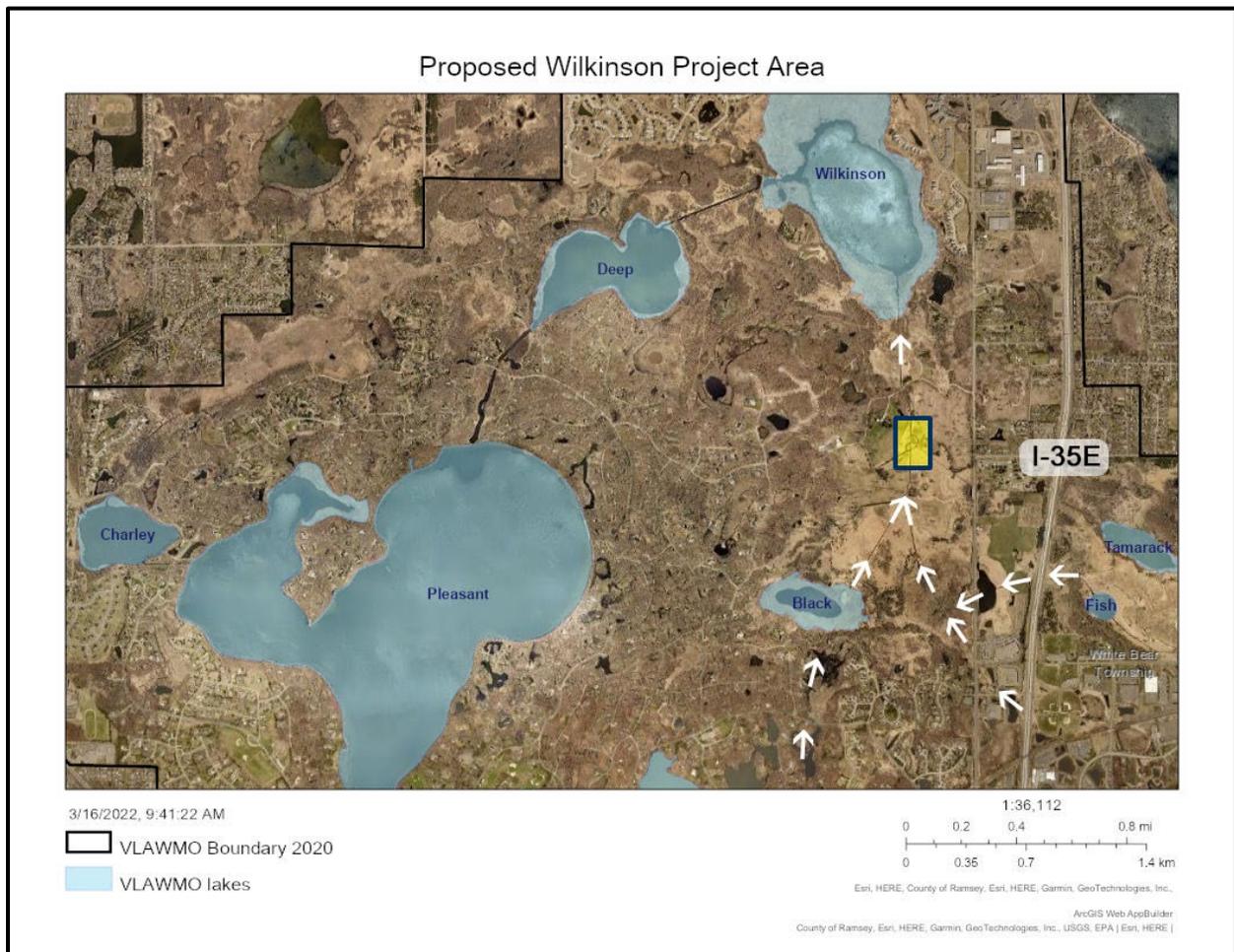


Figure Legend: The figure shows the most likely, general location of the proposed Wilkinson Lake BMP project area in the yellow boxed area south of Wilkinson Lake. The area is slightly enlarged to allow it to be clearly visible in the figure and to display nearby lakes for context. Formal boundaries are established in the project easement. The white arrows show movement of water from other parts of the watershed converging at the project location before emptying into Wilkinson Lake.