

### VLAWMO TECHNICAL COMMISSION MEETING 8:00 AM May 11<sup>th</sup>, 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 (April 13, 2022)
- IV. Administration & Operations
  - A. Financial Report for Payment Phil 🎵 pg. 7

### V. Programs

- A. Education & Outreach Nick
  - 1. WHEP Pilot Program with Tamarack Nature Center update p. 18
- B. Cost Share Program
  - 1. LL1 Application 2022-03 Coyne Raingarden Lauren 🎜 p. 19
  - 2. Soil Health Grant: SHG-2022-06 Folsom Nick 🎜 p. 36
  - 3. Soil Health Grant: SHG-2022-07 Ripka Nick J p. 45

### VI. Projects - Dawn

- A. 319/Wilkinson BMP update p. 16
- B. Carp update p. 16
- C. East Vadnais remnant restoration site prep 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: June 8th, Regular Board Meeting: June 22nd, 2022
- XIII. Adjourn

### Upcoming events:

May 5th: Resilient Yards webinar May 10th: Turf Maintenance (MS4) May 19th: Turf Conversion webinar

May 26th: WAV training

June 9th: Raingarden Palooza Part 1/3

### Vadnais Lake Area Water Management Organization Technical Commission Minutes April 13, 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, Dawn Tanner, Lauren Sampedro, Nick Voss (VLAWMO staff); Patricia Orud, Kristie Elfering (NOHOA), Ed Shapland (Watershed Action Volunteers/CAC), Jeremy Erickson (SPRWS), Connie Taillon (City of White Bear Lake)

### I. Call to Order

Chair Jesse Farrell called the meeting to order at 8:01 am.

### II. Approval of Agenda

It was moved by Commissioner Tessier and seconded by Commissioner Larson to approve the April 13, 2022 TEC agenda as presented. Vote: all aye. Motion passed.

### III. Approval of Minutes (March 9, 2022)

It was moved by Commissioner Huntrods and seconded by Commissioner Larson to approve the March 9, 2022 meeting minutes as presented. Vote: all aye. Motion passed.

### IV. Administration & Operations

### A. Welcome Lauren

Administrator Belfiori introduced VLAWMO's new staff member Lauren Sampedro, Watershed Technician and Program Coordinator. Lauren introduced her background experience in grant programs, water planning, MS4 permitting, and construction site inspections.

### B. Financial Report for Payment

Administrator Belfiori directed the TEC to page seven of the packet to discuss the financial report. He highlighted several portions of the spreadsheet including the Wilkinson BMP, Pleasant Lake carp management, and East Goose Lake efforts. Staff recommended approval of the financial report.

It was motioned by Tessier and seconded by Huntrods to recommend approval of the April 2022 financial report for payment. Vote: All aye. Motion passed.

### C. TEC Report to the Board

Belfiori summarized the TEC report to the Board as included in the April packet. Highlights included working on a ditch policy, development of an RFP for the Wilkinson BMP, a financial audit, the upcoming subcommittee meeting in June, and recent cost-share activities.

Chair Farrell asked about the Whitaker Pond biochar project, how biochar works, and if other entities have implemented biochar. Belfiori explained how biochar captures e-coli bacteria and stated he will provide examples to him of biochar sand filters that other watershed management organizations have done. He noted that Coon Creek Watershed District has instlled a similar sand filter.

It was motioned by Commissioner Duxbury and seconded by Commissioner Tessier to approve the April 2022 TEC Report to the Board of Directors. Vote: all aye. Motion passed.

### V. Programs

### A. Education & Outreach

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

Education and Outreach Coordinator Voss summarized the application materials from two Minnesota Water Stewards Ceci and Ed Shapland and explained that the proposed Good Neighbor Guide is an outreach effort in continuation of the Junior Watershed Explorer program from 2020. He explained the guide is intended to be a print-out for cities, townships, and new residents in the watershed to get a basic, yet comprehensive introduction on VLAWMO and water stewardship. Voss said a professional designer would be used for some of the visuals, which is the majority of the project cost. Proposed topics in the guide include pet waste, adopt-a-drain, sedimentation, smart salting, and other key watershed topics frequented in VLAWMO's education and outreach programs.

It was motioned by Commissioner Huntrods and seconded by Commissioner Larson to approve CB 2022-01. Vote: all aye. Motion passed.

2. Community Blue: CB 2022-02 Saint Mary's Raingarden Renovation

Voss summarized the application from Eagle Scout Alex Nelson. The application proposed a raingarden retrofit of a raingarden that was originally installed in 2011. The proposed raingarden renovation work includes a retrofit of its existing basin, weeding and trimming overgrown plants, applying fresh mulch, and planting new native plants as space allows. Voss said Alex Nelson's Eagle Scout troop would help Alex complete the project. Farrell asked for more information on the proposed match for the project and Voss responded the in-kind match from Alex and his Eagle Scout troop is beyond the minimum required match for Community Blue. Commissioner Nelson asked if there is a long-term maintenance agreement for the project. Voss noted that the 10-year maintenance agreement from the original raingarden installation recently expired and the Community Blue program does not require a new agreement, however this project would be a way to continue community connections with Saint Mary's of the Lake and educate their staff on how to continue raingarden maintenance into the future. Nelson recommended including language for the landowner to consult with VLAWMO staff on long-term maintenance to encourage future ongoing maintenance. Farrell also noted it appeared a water standpipe is present in the middle of the raingarden and recommended it be painted blue or at minimum flagged during the raingarden renovation so the Eagle Scouts can ensure the pipe remains clear and accessible.

It was motioned by Commissioner Duxbury and seconded by Commissioner Larson to approve CB 2022-02. Vote: all aye. Motion passed.

### 3. Community Blue: CB-2022-Mini-Grant-01

Voss summarized the pre-approved Community Blue Mini-Grant application received from Sara Svir, principal at Vadnais Heights Elementary. Vadnais Heights Elementary has proposed to treat the invasive sibrian elm that have invaded and surrounded their existing raingarden. This agenda item served as an educational update and didn't require a TEC motion or vote per VLAWMO Community Blue mini-grant policy on pre-allocated pre-approval.

### B. Cost-Share Program

### 1. SHG 2022-03 - Scherer

Voss summarized the application for a proposed native plant restoration in a priority zone of the watershed including the addition of alternative ground cover, pollinator plantings, and native shrubs and trees that are targeted to replace invasive buckthorn. Voss recommended the cost share application for approval.

It was motioned by Commissioner Huntrods and seconded by Commissioner Farrell to approve SHG 2022-03. Vote: all aye. Motion passed.

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

Voss summarized the application for a native plant restoration at the Rotary Nature Preserve and explained that it is phase one of three total phases projected into 2024. He

also noted the education and outreach benefits of the project due to its high visibility to the public and stated it is a good opportunity to continue a partnership with the City of White Bear Lake. He recommended approval of the application. Connie Taillon of the City of White Bear Lake noted the important partnership with the Rotary Club of White Bear Lake and highlighted the overall restoration goals for the project, including the removal of several invasive species. Commissioner Tessier asked for clarification on the park's location and Taillon and Commissioner Huntrods provided directions. Huntrods also noted that the Birch Lake Improvement District is excited about the project and have supported it independently with the City of White Bear Lake.

It was motioned by Commissioner Huntrods and seconded by Commissioner Larson to approve SHG 2022-04. Vote: all aye. Motion passed.

### 3. LL2 2022-01 North Oaks HOA

Sampedro introduced the application submitted by NOHOA for a proposed filtration basin at the south entrance of NOHOA off of highway 96 and Pleasant Lake Road. The proposed basin is about 2,308 square feet. It is proposed as a filtration basin with an underdrain as opposed to an infiltration basin due to the presence of two adjacent wetlands and a higher water table in the area. Sediment and nutrient reductions from the filtration basin are projected to benefit the longevity of the two adjacent wetlands as well as Sucker Lake. The filtration basin is also replacing an existing pavement area. Elfering represented NOHOA as the applicant and affirmed that the project is in accordance with NOHOA's natural environment philosophy, and that the high public visibility of the area makes it a high priority for continued maintenance.

Chair Farrell asked about the pavement reclamation associated with the project and added that some of the most effective stormwater treatment includes pavement removal.

It was motioned by Commissioner Tessier and seconded by Commissioner Huntrods to approve LL2 2022-01 to the Board of Directors. Vote: all aye. Motion passed.

### VI. Projects

### A. Wilkinson/319

Tanner summarized recent efforts and activities regarding the Wilkinson 319 BMP, including consulting with the MPCA and announcing the project to the community in the April 2022 North Oaks News edition. The April edition of the newspaper included an additional article and graphic that discussed the long-term focus on natural environment by North Oaks Company (NOC) and highlighted NOC's contribution to the project. These submitted related news items were contributed by NOC. The engineering request for proposals (RFP) for the upcoming project is currently being developed by VLAWMO staff. A recently completed anlysis and soil borings, by Barr Engineering, is helping to advance design and inform the RFP.

Commissioner Duxbury clarified that the method and design strategy for the project are not known yet. Tanner affirmed.

### B. Vadnais/Sucker Park Buckthorn Removal Update

Tanner summarized the history of the buckthorn removal effort at the Vadnais/Sucker Park at the trail access parking lot off Vadnais Blvd. The effort included a buckthorn removal, smothering with geotextile fabric, and re-seeding. She added that native plant re-establishment is currently underway and initial buckthorn removal is complete at the site. Ramsey County has supported the effort by contributing geotextile fabric and removing several piles of buckthorn. The remaining piles will be allowed to degrade on-site. This effort complements the upcoming wetland restoration effort with Great River Greening, anticipated to start in Fall 2022. Tanner also provided an update that a sentence-to-serve crew has been removing buckthorn at the Vadnais Heights City Hall, which is part of a grant-funded invasive species control effort through the Minnesota Department of Agriculture. Chair Farrell stated buckthorn removal is important for the community and thanked the crew and volunteers.

### C. Carp update

Tanner provided an update that WSB Engineering and Carp Solutions are both working to complete carp removal this spring.

### **VII. Commissioner Reports**

Vadnais Heights: Chair Farrell noted that the City of Vadnais Heights has three upcoming project locations that include a potential wetland enhancement project at Bear Park. Implementation is aspired for 2023.

### 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 May 11th, Next BOD meeting April 27<sup>th</sup>.

### XIII. Adjourn

It was moved by Commissioner Tessier and seconded by Commissioner Larson to adjourn the meeting at 8:52 am. Vote: all aye. Motion passed.

Minutes compiled by Nick Voss.

**VLAWMO Finance Report: May, 2022** 

**Summary** 

May-22								
Iviay-22		Actual 5/1/22	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		\$200	\$200	0%
3.12		Ψ0	Ψ0	\$200	ΨΟ	Ψ200	\$200	070
5.13	Interest + mitigation acct	\$154	\$243	\$1,500	\$0	\$1,257	\$1,500	16%
5.14	Misc. income - WCA admin & other	\$0	\$1,876	\$3,000	\$0	\$1,124	\$3,000	63%
5.15	Other Income Grants/ <u>loan</u>	\$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	\$154	\$471,885	\$1,541,088	\$133,751	\$1,202,954	\$1,674,839	31%
			EXP	ENSES				
3.1	Operations & Admini	stration						
	Office - rent, copies,			I	<u> </u>	I	I	
3.110	post tel supplies	\$2,074	\$10,124	\$27,097	\$0	\$16,973	\$27,097	37%
3.120	Information Systems	\$1,838	\$10,434	\$25,865	\$0	\$15,431	\$25,865	40%
3.130	Insurance	\$0	\$0	\$7,210	\$0	\$7,210	\$7,210	0%
3.141	Consulting - Audit	\$3,465	\$7,875	\$8,191	\$0	\$316	\$8,191	96%
3.142	Consulting - Bookkeeping	\$0	\$0	\$1,500	\$0	\$1,500	\$1,500	0%
3.143	Consulting - Legal	\$104	\$296	\$5,000	\$0	\$4,704	\$5,000	6%
3.144	Consulting - Eng. & Tech.	\$1,014	\$14,602	\$30,000	\$14,000	\$29,398	\$44,000	33%
3.150	Storm Sewer Utility	\$0	\$640	\$14,000	\$0	\$13,360	\$14,000	5%
3.160	Training (staff/board)	\$0	\$7,735	\$12,500	\$0	\$4,765	\$12,500	62%
3.170	Misc. & mileage	\$380	\$966	\$6,300	\$0	\$5,334	\$6,300	15%
3.191	Administration - staff	\$44,062	\$162,699	\$391,400	\$0	\$228,701	\$391,400	42%
3.192	Employer Liability	\$11,385	\$47,053	\$114,425	\$0	\$67,372	\$114,425	41%
3.2	Monitoring and Studi	es						
3.210	Lake and Creek lab analysis	\$350	\$350	\$18,000	\$0	\$17,650	\$18,000	2%
3.220	Equipment	\$34	\$395	\$3,000		\$2,605	\$3,000	13%
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 Outre	ach						
3.310	Public Education	\$0	\$67	\$6,000	\$0	\$5,933	\$6,000	1%
3.320	Marketing	\$407	\$4,302	\$17,500		\$13,198	\$17,500	25%
3.330	Community Blue Ed Grant	\$100	\$100	\$2,000		\$1,900	\$2,000	5%
	functions: Ops,	\$65,213	\$267,638	\$719,988	\$14,000	\$466,350	\$733,988	36%

Capital Im	provement Projects an	d Programs						
3.4	Subwatershed Activit	y						
3.410	Gem Lake	\$0	\$0	\$10,000	\$0	\$10,000	\$10,000	
3.420	Lambert Creek	\$4,143	\$9,319	\$44,432	\$70,000	\$105,113	\$114,432	8%
3.421	Lambert Lake Loan	\$19,284	\$19,284	\$38,568	\$0	\$19,284	\$38,568	50%
3.425	Goose Lake	\$0	\$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	\$16,403	\$31,935	\$93,500	\$12,000	\$73,565	\$105,500	30%
3.450	Pleasant Charley Deep	\$8,112	\$15,898	\$35,000	\$10,000	\$29,102	\$45,000	35%
3.460	Sucker Vadnais	\$0	\$373	\$41,500	\$0	\$41,127	\$41,500	1%
3.48	Programs							
3.480	Soil Health Grant	\$68	\$179	\$5,000	\$0	\$4,821	\$5,000	4%
3.481	Landscape 1	\$0	\$0	\$16,000	\$0	\$16,000	\$16,000	0%
3.482	Landscape 2	\$600	\$7,426	\$28,000	\$17,751	\$38,325	\$45,751	16%
3.483	Project Research & feasibility	\$0	\$0	\$0	\$0	\$0	\$0	#DIV/0!
3.485	Facilities Maintenance	\$753	\$35,719	\$102,600	\$0	\$66,881	\$102,600	35%
3.5	Regulatory							
3.510	Engineer Plan review	\$0	\$0	\$2,000	\$0	\$2,000	\$2,000	0%
	Total CIP & Program	\$49,363	\$143,943	\$496,600	\$119,751	\$472,408	\$616,351	23%
	Total of Core Operations & CIP	\$114,576	\$411,581	\$1,216,588	\$133,751	\$938,758	\$1,350,339	30%

Fund Balan	ce	4/1/2022	5/1/2022
4M Accoun	t	\$584,134	\$531,109
4M Plus Savings		\$324,240	\$324,302
Total		\$908,374	\$855,411

Restricted funds	5/1/2022
Mitigation Savings	\$21,012
Term Series	\$0

### Vadnais Lake Area Water Management Organiza Profit & Loss

3:07 PM 05/04/2022

April 14 through May 11, 2022

**Cash Basis** 

	Apr 14 - May 11, 22
Ordinary Income/Expense	
Income	
5.1 · Income	
5.13 · Interest	153.98
Total 5.1 · Income	153.98
Total Income	153.98
Gross Profit	153.98
Expense	
3.1 · Administrative/Operations	
3.110 · Office	
Copies	89.06
Phone/Internet/Machine Overhead	295.00
Postage	24.61
Rent	1,665.00
Total 3.110 · Office	2,073.67
3.120 · Information Systems	
IT Support	1,838.19
Total 3.120 · Information Systems	1,838.19
3.141 · Audit	3,465.00
3.143 · Legal	103.50
3.144 · Eng. & Tech.	1,013.77
3.170 · Misc. & mileage	380.37
3.191 · Employee Payroll	
payroll	44,062.01
Total 3.191 · Employee Payroll	44,062.01
3.192 · Employer Liabilities	
Admin payroll processing	44.92
Administration FICA	3,251.60
Administration PERA	3,304.65
Insurance Benefit	4,783.92
Total 3.192 · Employer Liabilities	11,385.09
Total 3.1 · Administrative/Operations	64,321.60
3.2 · Monitoring and Studies	
3.210 · Lake & Creek lab analysis	350.00
3.220 · Equipment	34.00
Total 3.2 · Monitoring and Studies	384.00
3.3 · Education and Outreach	
3.320 · Marketing	407.00
3.330 · Community Blue Education Grant	100.00
Total 3.3 · Education and Outreach	507.00
3.4 · Capital Imp. Projects/Programs	
3.420 · Lambert Creek Restoration	

1 · LL grant \$302,679	4,143.08
Total 3.420 · Lambert Creek Restoration	4,143.08
3.421 · Lambert Lake Loan \$385,689.54	19,284.48
3.440 · Gilfillan Black Tamarack Wilkin	
MDH Grant 7300	7,342.80
Wilkinson 319 grant 320705.50	9,060.24
Total 3.440 · Gilfillan Black Tamarack Wilkin	16,403.04
3.450 · Pleasant Charley Deep	8,111.58
Total 3.4 · Capital Imp. Projects/Programs	47,942.18
3.48 · Programs	
3.480 · Soil Health Grant	67.70
3.482 · Landscape 2	600.00
3.485 · Facilities & Maintenance	753.40
Total 3.48 · Programs	1,421.10
Total Expense	114,575.88
Net Ordinary Income	-114,421.90
Net Income	-114,421.90

### Vadnais Lake Area Water Management Organization Check Detail

3:04 PM 05/04/2022

April 14 through May 11, 2022

Type Num Date

	Туре	Num	Date	Name	Item	Account	Paid Amount	Original Amount
	Check	eft	05/01/2022 Reliar	nce Standard		Checking - 1987		-266.96
						Insurance Benefit	-81.00	81.00
						Insurance Benefit	-185.96	185.96
TOTAI	L						-266.96	266.96
	Check	5334	05/11/2022 Dawn	Tanner		Checking - 1987		-76.05
						3.170 · Misc. & mileage	-76.05	76.05
TOTAL	L						-76.05	76.05
	Check	5335	05/11/2022 Nicho	las Voss		Checking - 1987		-217.74
						3.170 · Misc. & mileage	-217.74	217.74
TOTAI	L						-217.74	217.74
	Check	5336	05/11/2022 Brian	Corcoran		Checking - 1987		-86.58
						3.170 · Misc. & mileage	-86.58	86.58
TOTAI	L						-86.58	86.58
	Check	5337	05/11/2022 RMB	Environmental Laboratories, Inc.		Checking - 1987		-350.00
						3.210 · Lake & Creek lab analysis	-90.00	90.00
						3.210 · Lake & Creek lab analysis	-260.00	260.00
TOTAI	L						-350.00	350.00
	Check	5338	05/11/2022 City C	of Roseville		Checking - 1987		-1,838.19
						IT Support	-538.00	538.00
						IT Support	-1,300.19	1,300.19
TOTAI	L						-1,838.19	1,838.19
	Check	5339	05/11/2022 Kenne	edy & Graven, Chartered		Checking - 1987		-2,321.60
						1 · LL grant \$302,679	-1,969.70	1,969.70
						3.143 · Legal	-103.50	
						3.485 · Facilities & Maintenance	-248.40	
TOTAI	L						-2,321.60	2,321.60
	Check	5340	05/11/2022 SEH			Checking - 1987		-2,412.25
						3.144 · Eng. & Tech.	-238.87	238.87
						1 · LL grant \$302,679	-2,173.38	2,173.38
TOTAI	L						-2,412.25	2,412.25
	Check	5341	05/11/2022 Clifton	nLarsonAllen		Checking - 1987		-3,465.00
						3.141 · Audit	-3,465.00	3,465.00

TOTAL			-3,465.00	3,465.00
Check 5342	05/11/2022 City of Vadnais Heights	Checking - 1987		-2,073.67
		Rent	-1,665.00	1,665.00
		Phone/Internet/Machine Overhead	-295.00	295.00
		Postage	-24.61	24.61
		Copies	-89.06	89.06
TOTAL			-2,073.67	2,073.67
Check 5343	05/11/2022 Minnesota Pollution Control Agency	Checking - 1987		-19,284.48
		3.421 · Lambert Lake Loan \$385,689.54	-19,284.48	19,284.48
TOTAL			-19,284.48	19,284.48
Check 5344	05/11/2022 Houston Engineering, Inc	Checking - 1987		-1,279.90
		3.144 · Eng. & Tech.	-774.90	774.90
		3.485 · Facilities & Maintenance	-252.50	252.50
		3.485 · Facilities & Maintenance	-252.50	252.50
TOTAL		•	-1,279.90	1,279.90
Check 5345	05/11/2022 carp solutions	Checking - 1987		-7,648.08
		3.450 · Pleasant Charley Deep	-7,648.08	7,648.08
TOTAL			-7,648.08	7,648.08
Check 5346	05/11/2022 Ramsey County	Checking - 1987		-600.00
		3.482 · Landscape 2	-600.00	600.00
TOTAL			-600.00	600.00
Check 5347	05/11/2022 impressive print	Checking - 1987		-407.00
		3.320 · Marketing	-407.00	407.00
TOTAL			-407.00	407.00
Check 5348	05/11/2022 wsb	Checking - 1987		-463.50
		3.450 · Pleasant Charley Deep	-463.50	463.50
TOTAL		•	-463.50	463.50
Check 5349	05/11/2022 Sara Svir	Checking - 1987		-100.00
		3.330 · Community Blue Education Grant	-100.00	100.00
TOTAL		•	-100.00	100.00
Check 5350	05/11/2022 Joseph Crowe	Checking - 1987		-67.70
		3.480 · Soil Health Grant	-67.70	67.70
TOTAL		•	-67.70	67.70
Check 5351	05/11/2022 City of White Bear Lake	Checking - 1987		-55,180.14

		payroll	-44,062.01	44,062.01
		Administration FICA	-3,251.60	3,251.60
		Administration PERA	-3,304.65	3,304.65
		Insurance Benefit	-4,516.96	4,516.96
		Admin payroll processing	-44.92	44.92
TOTAL			-55,180.14	55,180.14
Check 5352	05/11/2022 Barr Engineering Co	Checking - 1987		-16,403.04
		Wilkinson 319 grant 320705.50	-9,060.24	9,060.24
		MDH Grant 7300	-7,342.80	7,342.80
TOTAL			-16 403 04	16 403 04

### Vadnais Lake Area Water Management Organization Custom Transaction Detail Report

March 1 through May 1, 2022

2:30 PM 05/04/2022

**Accrual Basis** 

Туре	Date N	um Name	Memo	Account	Clr	Split	Amount	Balance
Mar 1 - May 1, 22								
Credit Card Charge	03/02/2022	University of Minnesota	project management - dawn	US Bank CC	$\checkmark$	3.160 · Training (staff/board)	235.00	235.00
Credit Card Charge	03/02/2022	Google*SVCAPPS_VLAWM		US Bank CC	$\sqrt{}$	WEB	36.00	271.00
Credit Card Charge	03/09/2022	adobe *photography plan		US Bank CC	$\sqrt{}$	Software	9.99	280.99
Credit Card Charge	03/18/2022	Prairie Moon Nursery	plants	US Bank CC	$\sqrt{}$	3.220 · Equipment	21.00	301.99
Credit Card Charge	03/23/2022	Lenovo	chromebook	US Bank CC	$\sqrt{}$	3.320 · Marketing	359.70	661.69
Credit Card Charge	03/23/2022	Amazon.com	cpu supplies - Lauren	US Bank CC	$\sqrt{}$	Hardware	85.82	747.51
Credit Card Charge	03/28/2022	Adobe "Creative Cloud		US Bank CC	$\sqrt{}$	Software	32.20	779.71
Credit Card Charge	03/29/2022	Ace Hardware	hammer & bucket	US Bank CC	$\checkmark$	3.220 · Equipment	62.93	842.64
Credit Card Charge	03/31/2022	Ace Hardware	weed killer for workday	US Bank CC	$\sqrt{}$	3.220 · Equipment	69.97	912.61
Credit Card Charge	03/31/2022	Ace Hardware	weed killer for workday	US Bank CC	$\checkmark$	3.220 · Equipment	47.23	959.84
Credit Card Charge	04/01/2022	Ace Hardware	gloves for workday	US Bank CC	$\checkmark$	3.485 · Facilities & Maintenance	27.96	987.80
Credit Card Charge	04/01/2022	Ace Hardware	fence mulch for workday	US Bank CC	$\checkmark$	3.485 · Facilities & Maintenance	111.67	1,099.47
Credit Card Charge	04/04/2022	Google*SVCAPPS_VLAWM	I	US Bank CC		WEB	38.89	1,138.36
Credit Card Charge	04/08/2022	subway	lunch Corrections crew	US Bank CC		3.485 · Facilities & Maintenance	173.53	1,311.89
Credit Card Charge	04/11/2022	University of Minnesota	inspection cert Lauren	US Bank CC		3.160 · Training (staff/board)	125.00	1,436.89
Credit Card Charge	04/12/2022	Zoom	subscription	US Bank CC		Software	110.88	1,547.77
Credit Card Charge	04/13/2022	Ace Hardware	weed killer for workday	US Bank CC		3.485 · Facilities & Maintenance	119.98	1,667.75
Transfer	04/21/2022		Funds Transfer	US Bank CC		Checking - 1987	-1,313.19	354.56
Mar 1 - May 1, 22						- -	354.56	354.56



### TEC Staff Memo - May 11, 2022

### IV. Administration & Operations

### A. Financial Report for May & Authorization for Payment

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

### V. Programs

### A. Education and Outreach

1. Wetland Health Evaluation pilot program with Tamarack Nature Center On April 27th, 2022 the VLAWMO Board of Directors approved a draft MOU outlining the pilot Wetland Health Evaluation Program (WHEP) with Ramsey County Parks and Tamarack Nature Center (TNC). As of the May, 2022 VLAWMO TEC meeting, project partners are reviewing the MOU.

The pilot project is an educational effort to monitor and learn from the Teal Pond wetland within Tamarack Nature Center. The location pairs with the site of the Teal Pond habitat restoration that started in 2020 in partnership between Ramsey County Parks and VLAWMO. The WHEP program enables a way to track and follow the ecological changes that occur as the restoration matures.

The pilot WHELP project is also a combined effort between VLAWMO and Tamrack Nature Center Volunteers. This strategy aspires to build comradery and support between the volunteer groups, culminating in an end-of-year volunteer banquet with both entities involved.

The wetland evaluation consists of monitoring wetland vegetation as well as aquatic macroinvertebrates. The monitoring effort is informed by the long-standing success of Dakota and Hennepin County's WHEP program. Trainings and monitoring sessions will take place between June and August of 2022, followed by a period of data assessment. As outlined in the MOU, a report of the findings and resulting education opportunities to both volunteers and the broader communities of VLAWMO and TNC.

Please see the attached MOU document included in the May TEC packet for more details and an outline of the project scope.

### B. Cost Share Program

1. LL1 Application: LL1-2022-03 Coyne Raingarden

Landowner Joe Coyne submitted a Landscape Level 1 grant application for a 1,000 sq ft raingarden for his property in the City of North Oaks. The raingarden would capture runoff from the property's impervious surfaces as well as from neighboring properties and Skillman Lane through a steep drainage ditch on the east side of the property. The project area directly drains to Pleasant Lake, which is impaired for nutrients. HabAdapt provided a design for the project, which would reduce total phosphorus by about 0.56 lbs/year (23%) and TSS by 102 lbs/year (23%). The applicant obtained two bids for the project including one bid from HabAdapt totaling \$10,290.86 and a second bid from Woodland Restorations LLC totaling \$12,240.75. Staff recommends approval of



Landscape Level 1 Grant 2022-03 contingent upon the addition of an erosion and sediment control detail on the design plans, in the amount of 50% of eligible project expenses, not to exceed \$5,000 in accordance with program guidelines.

- 2. SHG Application: SHG-2022-06 Folsom Native Planting Aaron Folsom has submitted a Soil Health Grant application for a 350 sq ft native shade planting for his property in the City of North Oaks. Folsom will be doing the work himself, and has submitted a photo and sketch diagram of the anticipated project in addition to a detailed cost estimate. The total estimated cost is \$325.15, and the VLAWMO requested funds are \$243.84. The proposed native planting accompanies a septic mound, which will enhance the soil and assist in protecting the septic mound area. Folsom is also a Master Naturalist through the University of Minnesota, and utilized the "Shade Garden for Pollinators" template produced by the MN Board of Water and Soil Resources for his project design. Per the Soil Health Grant policy, Folsom has begun site preparation before grant approval, and will not be reimbursed for any associated expenses related to site preparation. After review of the application, cost estimate, review of required 25% match, project plan, and plant list, staff is recommending approval of Soil Health Grant 2022-06 in the amount of \$243.84.
- 3. SHG Application: SHG-2022-07 Ripka Native Planting
  Mary Ripka has submitted a Soil Health Grant application for a 417.2 sq ft native
  planting and turf replacement for her property in Vadnais Heights. Mary and her daughter
  Becca will be contracting with EcoScapes for project site prep and planting. The
  application includes an aerial diagram in addition to a scope of possible plants to be
  used and project description from the contractor. The total estimated cost is \$1,800, and
  the VLAWMO requested funds are \$750. After review of the application, project plan, and
  plant list, in addition to an on-site visit consultation with staff, staff is recommending
  approval of Soil Health Grant 2022-07 in the amount of \$750.

### VI. Projects

### A. 319/Wilkinson BMP update

Barr Engineering completed a geotechnical report for soil borings collected at the Wilkinson project site. The geotechnical report and recommendation memo were presented to the Board at the April Board meeting. With these documented completed by Barr Engineering, VLAWMO has wrapped up activities for the Minnesota Department of Health grant by SPRWS for preliminary project preparation for the Wilkinson project. Invoices have been submitted to SPRWS, and VLAWMO staff will continue to work on grant close-out.

Following the April regular Board meeting, VLAWMO staff announced the engineering Request for Proposals (RFP) for the Wilkinson BMP project. VLAWMO staff also sent the RFP to 4 qualified firms, as directed by the Board. Proposals are due on May 24, 2022. Submitted proposals will be reviewed and evaluated by staff and the Policy and Personnel Subcommittee. The subcommittee will provide a recommendation to the full Board at the June regular Board meeting.

### B. Pleasant Lake Carp Update

VLAWMO staff continue to monitor carp movement and locations with telemetry. Prep for stream removal with Carp Solutions is well underway. Carp Solutions installed barriers, a



PIT antenna monitoring station, and remote camera in the channel between Deep and Wilkinson Lakes at the location of the planned removal. Movement of carp is being monitored by VLAWMO staff and Carp Solutions.



### C. East Vadnais remnant restoration site prep

VLAWMO staff and University of Minnesota CEL students finished prepping a small, roadside, remnant prairie area this spring. This site was suggested is also receiving support (seed and planting) by a concerned and trained (in restoration) volunteer who lives just down the street. VLAWMO staff and students fenced the area, got the area marked by local utilities, and set up a smothering with geotextile fabric to control weeds. This site will be monitored and maintained over the summer; it will be seeded to supplement natives in the fall.





To: VLAWMO Board of Directors

From: Nick Voss, VLAWMO Education and Outreach Coordinator

Date: 4/27/22

Re: V. A. Consider WHEP MOU pilot project with Tamarack Nature Center and Ramsey

County

VLAWMO and Tamarack Nature Center aspire to improve upon their partnership following the Teal Pond restoration and subsequent volunteer engagement from 2021. The proposed pilot project reflected in the corresponding MOU is a volunteer wetland monitoring, evaluation and education program focused on Teal Pond or other wetlands or lakes within Tamarack Nature Center (TNC).

The pilot program is modeled after the Wetland Health Evaluation Program (WHEP) from Dakota and Hennepin Counties, which has been a successful program with a large volunteer network for 20+ years. Starting with consultations with the WHEP coordinator in Dakota County, VLAWMO and TNC learned about how volunteers are trained and engaged to conduct surveys on wetland health. The surveys consist of two parts: 1) Sampling and identifying aquatic macroinvertebrates and 2) identifying wetland vegetation.

The surveys are projected to occur in the summer of 2022, followed by a period of assessment and the development of a pilot program report. The effort shows potential to be an annual occurrence, building a database that allows for tracking changes over time, and potentially expanding to survey other wetlands in the VLAWMO watershed beyond Tamarack Nature Center. The tracking and monitoring of Teal Pond is especially of interest both for VLAWMO and TNC, as well as Ramsey County, due to the recent Teal Pond wetland restoration that all parties have invested in from 2020-2021. Through the partnership and sharing of responsibilities, staff time is minimal outside of the specified dates outlined in the proposed MOU. Highlighted portions of the MOU signify remaining details pending confirmation with project partners.

The pilot project's accumulation will be TNC's end-of-year volunteer banquet hosted at TNC in October, 2022. This event will allow all VLAWMO volunteers from all project areas to join in a larger volunteer celebration and be thanked for their efforts. The exceptional use of TNC facilities and the expanded volunteer invite is projected to be a valuable resource for both volunteer groups, serving to develop community, network, and provide greater gestures of volunteer appreciation than what VLAWMO is able to accomplish alone.

After the October, 2022 volunteer appreciation event, volunteers will be encouraged to serve as educators to the greater Ne Metro community about what was discovered and why wetland health is important to the community. The pilot completes in April, 2023 with an assessment and review between all parties on what the next stages should be, what level of volunteer investment and interest there is after the pilot, and if the effort should continue in the future.

### Staff Recommendation

Staff recommends approval the proposed MOU, enabling VLAWMO staff to conduct the pilot program as outlined in the MOU specified in agenda item V.A.

### VLAWMO LANDSCAPE LEVEL 1 GRANT APPLICATION FORM

Vadnais Lake Area Water Management Organization 800 County Road E East Vadnais Heights, MN 55127 www.vlawmo.org (851) 204-6075



Please submit form and required materials to: LAUREN SAMPEDRO lauren.sampedro@vlawmo.org

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 staff with any questions.

		DATE: 4/26/22					
DDRESS: 11 Skillm	an Lane	crry: North Oaks			ZIP: 55127		
HONE: 612.720.50	99	EMAIL: 0	coyne.joe@gmai	l.com			
		PROJECT	SUMMARY				
STIMATED TOTAL COST F YOUR PROJECT:	\$ 10,290.86	Al	MOUNT OF GRANT REQ (\$5,000 M	UESTED: IAXIMUM) \$ {	5,000.00		
HEN DO YOU PLAN TO C	OMPLETE YOUR PRO	JECT?		Ju	ine 202 <b>2</b>		
PE OF PROJECT THAT W	ILL BE COMPLETED:						
aingarden.	Shoreline Restoration		Hard Surface Runoff Reduction		Other		
other, please describe							
oposed project:	_						
		DDOISOT D	ACKGROUND				
escribe your property: do u planning to address w .2 acres adjoining nd stop it from runi	Pleasant Lake.	nect to a lak	e, stream, ditch, or we				
2 acres adjoining	Pleasant Lake.  Pleasant Lake.  Ining into the lake  will support the goals	The goal  e.  of the Land	of the project is to	capture a	nd infiltrate runo		



eeding and pla	ин геріасетте	m 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 PROJECT TOTAL PROPERTY AREA (Acres): 2.2 SIZE (SQ.FT.): 1000 IMPERVIOUS AREA PERVIOUS AREA DRAINING TO PROJECT DRAINING TO (SQ.FT.): 20200 53,330 PROJECT (SQ.FT.): IF YOUR PROJECT INCLUDES INFILTRATION, PLEASE PROVIDE THE FOLLOWING INFORMATION DEPTH OF RAINGARDEN BASIN SOIL INFILTRATION RATE (INCHES/HR): 2946 (INCHES): 5.5

### \*ADDITIONAL REQUIRED ATTACHMENTS\*

### TO COMPLETE YOUR APPLICATION, PLEASE INCLUDE:

- Detailed drawing or plan set of the proposed project, drafted by either the landowner or a
  contractor. Dependent upon the complexity of the project, VLAWMO may require project final
  designs be completed by a qualifying professional or Engineer. Drawing 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 1 Cost Share Guidance document for eligible project materials that are applicable for grant funding.
- \*\*This information, along with the application, may be scanned and emailed to Lauren Sampedro, VLAWMO Watershed Technician & Program Coordinator at lauren.sampedro@vlawmo.org\*\*

2022 VLAWMO Landscape Level 1(LL1) Cost Share Grant Program

# LL1 2022-03 Coyne Raingarden



ArcGIS Web AppBuilder County of Ramsey, Esri, HERE, Garmin, GeoTechnologies, Inc., Intermap, USGS, EPA | Esri, HERE |

Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

0.07

0.15

0.3 km

1:9,028 <sub>0.1</sub>

0.2 mi

5/2/2022, 4:16:20 PM

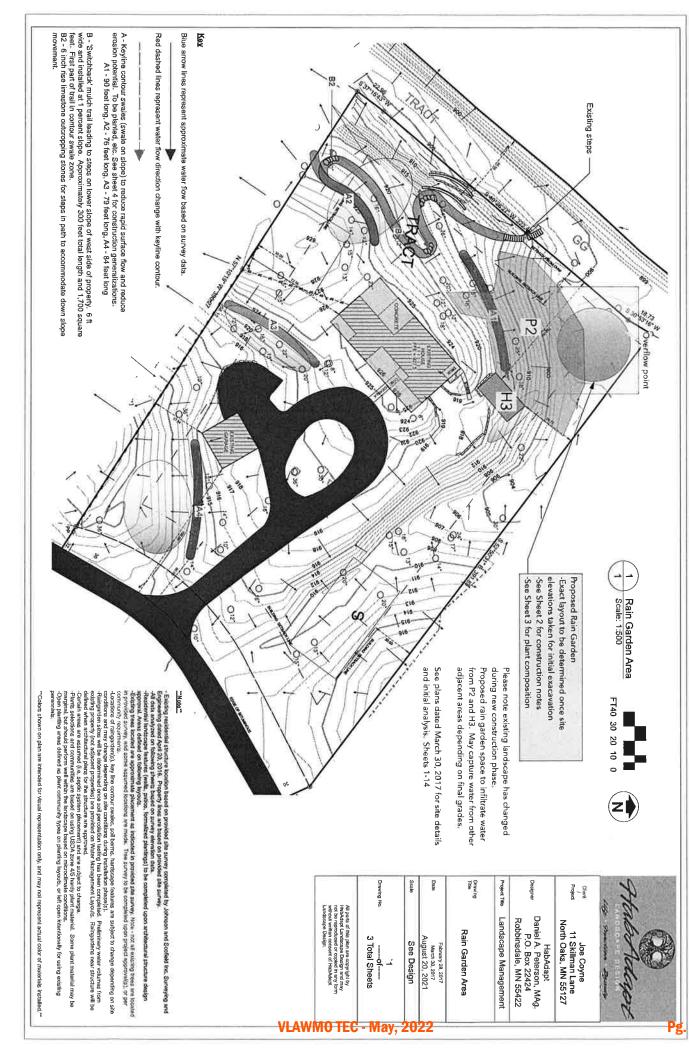
J VLAWMO Boundary 2020

Project Location

VLAWMO streams

VLAWMO roads

VLAWMO lakes



	200	518.01	85 O	1470	P4
value Saluet	2561.4	1504.34	0.38	4269	P3
Dain Cardo	4303.8	2527.68	0.38	7173	P2
	868.2	509.91	0.38	1447	14
Infiltration Area	777	396.30	0.33	1295	87
hour rain event	6238.2	3181.70	0.33	10397	R6
Total Gallon Cap	4118,4	2100.53	0,33	6864	RS
	1084.8	553.29	0.33	1808	R4
	1951.2	995.18	0.33	3252	R3
	88.2	44,99	0,33	147	82
Nam Garden e	6976.2	3558.11	0.33	11627	R1
	970.8	330,09	0,22	1618	B13
Milet House his	721.2	245.23	0.22	1202	812
Approximate in	1936.8	658.56	0.22	3228	811
Approximate	4173.6	1419,12	0.22	6956	810
	642.6	218.50	0.22	1071	89
	335.4	114.04	0.22	559	88
Schride	82.2	27.95	0.22	137	87
TOTAL BUILDING LECEINED	789	207.31	0,17	1315	86
marg surraces	900,6	236.63	0.17	1501	85
Total gallons received	1198.2	314.82	0.17	1997	84
naro surraces	641.4	168.52	0.17	1069	83
oden Employ sections	1116.6	293.38	0.17	1861	62
	2480.4	575.04	0.15	4134	81
Gallons per 1 i	271.8	92.42	0.22	453	47
CONTRACTOR OF THE PARTY OF THE	387.6	131.79	0.22	646	Y6
rain fall (total water	298.2	101.40	0,22	497	<b>Y</b> S
Total water volume	397.8	135.26	0.22	663	Y4
Rain Event	526.8	179.12	0.22	878	Y3
Total Water Volume	283.8	96.50	0.22	473	12
1.5 inches of rain in	766,2	118.42	0,1	1277	Υı
Outflow formula inc	393	546.67	0.9	655	Н7
1.5 inch per Hour Ex	1942.2	2701.61	0.9	3237	#
Water Outflow Forr	2595.6	3610.49	0,9	4326	H5
	480	667.68	0.9	800	14
	301.2	418.97	0.9	502	H3
and out out on Boundary by	871.2	1211.84	0.9	1452	£
the section is no mayor	1002.6	1394.62	0.9	1671	11
Total outflow gallons p	event	per hour event			
Total outflow gallons p	Volume per	Outflow Gallons Volume for 1.5 inch	Runoff	Area square	Area io
	Total Water				

based on site modifications as designed

outflow gallons per 1.5 inch per hour rain	10551 89
outflow gallons per 1.5 inch per hour rain	21554_14
outflow gallons per 1.5 inch per hour rain	32106 04

Vater Outflow Formula Per	
.5 Inch per Hour Event	Q=CIA
Dutflow formula indicates tot	Dutflow formula indicates total water volume potentially leaving property in case of
.5 inches of rain in one hour	
otal Water Volume Per Inch	

## inch rain event

Total Volume Gallons =0.6 gallons x square feet formula indicates total gallons falling on property per one inch wolume received determined by multiplying by total inches!

0000000	Ingue	00000000	surfaces
951238	per 1.5 inch	0.55555	Total gallons received per 1 inch rainfall on all
white co.	event		hard surfaces
73745 1	per 1.5 inch	W ESTER	Total gallons received per 1 inch rainfall on non-
The same	event		hard surfaces
11379 7	per 1.5 inch	7585 90	Total gallons received per 1 inch rainfall on all

ans and landscape foundation plans are completed ingarden sizes and locations to be determined

### ize Notes

Sallon Capacity for 1.5 inch per Constructed Surface modified soil (assumed infiltration coefficient of .33)	0.45 ft depth	2000 sq ft	2946.7	ation Area RG1
Depth of excavation and Capacity for 1.5 inch per Constructed Surface modified soil (assumed	infiltration coefficient of .33)	Area		ain event
Depth of excavation and	modified soil (assumed	Constructed Surface	1.5 inch per	Sallon Capacity for
	Depth of excavation and			

## to infiltrate water from area P2 and H3

## Raingarden sizing based on total water volume per 1.5 inch rain per 1 hour event

3+Guantity, C+Caethoent,		I cubic foot wat
sinches Ashores	Decuber feeting	7.48052 gallon

H = Hard Surface (patios, dects, drives, roof areasetc.)

\*\* = Wooded/Shrub/Perennia/Furf Light Slope

\*\* = Wooded/Shrub/Perennia/Furf Haay Rolling Slope

\*\* = Wooded/Shrub/Perennia/Turf Haay Rolling Slope

\*\* = Wrooded/Shrub/Perennia/Turf Steep Slope Runoff coefficient based on slope and vegetation type Surface flow from slope peak or downspout(s) ...... 6 inch PVC draintile with sleeve and 6 inch atrium grate exit (if required for input) SHOW Rain garden fill and excavation zone Surface Level

Calculation Rain Garden Area
Calculationed Area (Impervious surface x factored
soil surface flow)
-Infiltration Rate factor per 6 inch excavated alingarden
(0.19-0.25 for sand, 0.30-0.37 for sit, 0.45-0.55 for clay)

(AR) Area of Raingarden for 1 inch rainfall excavated 6 inches = Catchment area x infiltration rate factor (Note: Area or depth can be mutiplied by number of inche rainfall for desired for catchment infiltration)

(DRG) Designed raingarden square feet

(DRGf) Designed raingarden holding factor capacity per six inch excavation = DRG / AR

(DRGhc) Designed raingarden holding capacity per six inch excavation = DRG x DRGf

Volume water per square foot per inch impervious surface (i.e, roof, patio, drive, etc.) =  $lnches \times 0.6 = gallons per square foot$ 

Rain Garden and Rain Infiltration Zone Construction

Fill a uniform mix of the following
20 to 30% composted fice hull
20% sand (may not be required if native soil is high in gravel and sand)
15 to 20% composted bark
45 to 55% native soil - \*\*May be reduced if native soil is heavy clay

45 to 55% native soil - \*\*May be reduced if native soil is heavy clay in which case additional sand and compost will be utilized.\*\*
-All excavation to be completed with mini excavator from edges to reduce compaction of

existing soil and fill mix

Any compaction due to excavation to be loosened with grading bar

-Any compaction due to excavation to be loosened with grading bar

-Excavation to be a minimum 24 inches or to the existing subsoil which ever is greater

-Excavation may be less and rain garden / infiltration zone increased if obstacles found

in excavation zone (i.e bed rock, utilities, etc.)

-Several auger holes may be required to reach subsoil if subsoil is deeper than 2.5 feet to allow water movement through soil column "if no porous subsoil is present raingarden, infiltration zone area will be increased to handle 2 inch rain event.

Excavated material used for down slope side birm

Planting of rain garden / infittation zone to be completed within 24 hours of final grading of rain garden
 Plantings to be a mix of woody and herbaceous species
 Draintile outlet afrium grate exposed if input title is used.

Swales to be constructed without major soil modifications

slope
Overflow location if rain garden
No overflow if infiltration basin Excavated 'top' horizon soil birmed on down

Existing topsoil or 'top' soil horizon

Subsoil

Augered holes to subsoil if necessary (may be omitted if no porous subsoil is present)

Rain Garden / Infiltration Profile Not to Scale

Maximum ponding depth of 12 inches to porous soils



Construction notes are a guideline only. Actual installation may vary slightly depending on material used. Use details as guideline only. Percolation rates may result in adjusted construction depth(s).

Client / Project	36
Joe Coyne 11 Skillman Lane North Oaks, MN 55127	iler Mapi

	Client / Project	100
HabAdapt	Joe Coyne 11 Skillman Lane North Oaks, MN 55127	Sanction Spanis

Project Title	Designer
Landscape Management	HabAdapt Daniel A. Peterson, MAg. P.O. Box 22424 Robbinsdale, MN 55422

Date	Drawing Tale
February 28, 2017 March 30, 2017	Rain Garden Construction Guidelines and Information Tables

ving No.	
2 of 3 Total Sheets	See Design

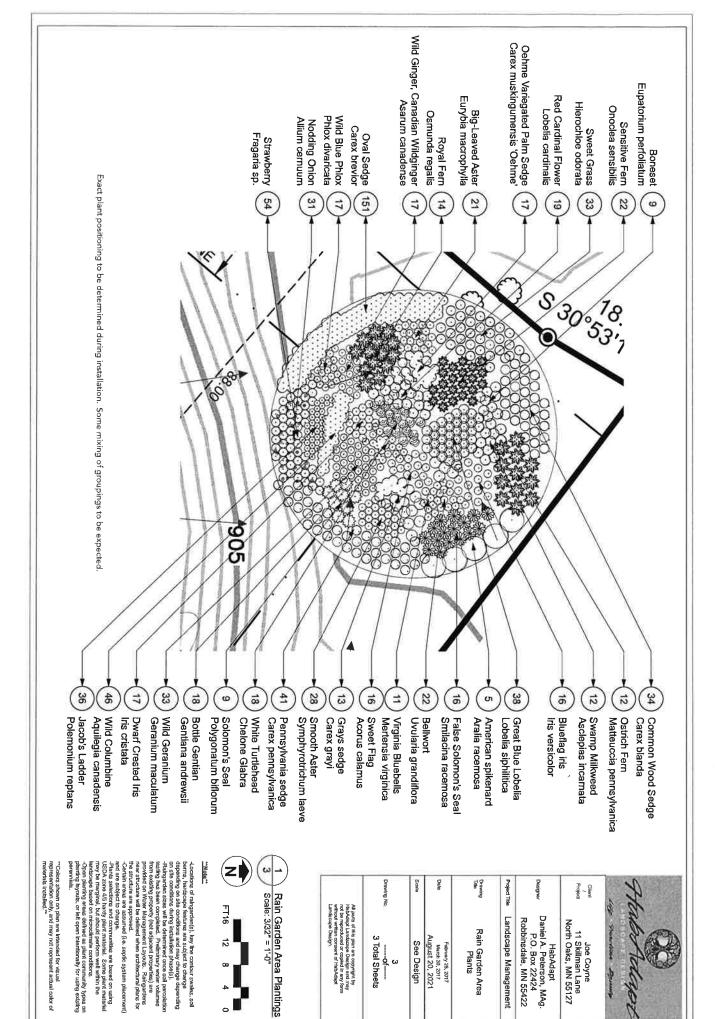
Draw

Scale

March 30, 2017 August 20, 2021

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VLAWMO TEC - May, 2022



**VLAWMO TEC - May,** 

Pg. # 024

### Bid 1 HabAdapt

Design Sept 23, 2021 Pricing April 28, 2022



-

Eurybia macrophylla Osmunda regals

Big leaved aster. 3 inch container

=

\$5.13

\$56.43

Oehme sedge, #1 container

Royal Fern, #1 container

Eupatorium perfoliatum

Boneset #1 container

U

0

\$59.35

\$356.10

removed. Per cubic yard

Rain garden soil mix. Used to amend existing soils once plant material and sod material has been

Rain garden soil mix

Rain Garden Installation

Plans for details.

Install rain garden per design dated August 20, 2021. 1000 square foot coverage. See

Quantity

Price Per Unit (price includes

**fotal Price** 

Material or Labor

Description

Materials & Labor

Oncoclea sensibilis Hierochloe odorata

Sensitive Fern. #1 container Sweet grass. 3 inch container

Cardinal Flower, 1 quart container

0 7 1

\$8.37 \$8.37 \$5.13

\$41.85 \$92.07 \$87.21 \$59.40

S

\$7.11

\$63,99

Lobelia cardinals

Carex muskingumensis

	11
Joe Coyne 11 Skillman Lane North Oaks, MN 55127	HabAdapt P.O. Box 22424 Robbinsdale, MN 55422
Option 2	612 735 9321
Landscape Project 1 Estimate	Date Revised
West rain garden space per design dated August 20, 2021. Size reduced by 50%	September 23, 2021 April 28, 2022

			3	
\$700.00	\$700.00	Estimate	Equipment used for excavating soil area and hauling equipment. Estimate	Equipment Fees
\$226.50	\$37.75	6	Pine fine mulch for top dress of rain garden space, per yard	Composted pine fines
\$50.00	\$50.00	1	Rabbit scram application installed after planting.	Rabbit scram
\$150.66	\$8.37	18	Jacob's Ladder. #1 container	Polemounium reptans
\$117.99	\$5.13	23	Wild Columbine, 3 inch container	Aquilegia canadensis
\$75.33	\$8.37	9	Dwarf Crested Iris. #1 container	Iris cristata
\$87.21	\$5.13	17	Wild Geranium. 3 inch container	Geranium maculatum
\$63.18	\$7.02	9	Bottle Gentian. 1 quart container	Gentiana andrewsii
\$41.85	\$8.37	5	Solomon's seal. #1 container	Polygonatum biflorum
\$46.17	\$5.13	9	White Turtlehead. 3 inch container	Chelone glabra
\$170.52	\$8.12	21	Pennsylvania sedge, #1 container	Carex pennsylvanica
\$71.82	\$5.13	14	Smooth Aster. 3 inch container	Symphyrotichum laeve
\$57.47	\$8.21	7	Grays sedge. 1 quart container	Carex grayi
\$41.04	\$5.13	8	Sweet flag. 3 inch container	Acorus calamus
\$50.22	\$8.37	6	Virgina Bluebells. #1 container	Mertensia virginica
\$92.07	\$8.37	11	Bellwort. #1 container	Uvularia grandifolora
\$66.96	\$8.37	00	False Solomon's Seal. #1 container	Smilacina racemosa
\$38.88	\$12.96	з	American spikenard, #1 container	Aralia racemosa
\$97.47	\$5.13	19	Blue Lobelia, 3 inch container	Lobelia siphilitica
\$41.04	\$5.13	8	Blue Flag Iris. 3 inch container	Iris versicolor
\$30.78	\$5.13	6	Swamp Milkweed. 3 inch container	Asclepias incarnata
\$50.22	\$8.37	6	Ostrich Fern. #1 container	Matteuccia pennsylvanica
\$87.21	\$5,13	17	Wood sedge, 3 inch container	Carex blanda
\$138.51	\$5.13	27	Strawberry, 3 inch container	Fragaria sp./
\$75.33	\$8.37	9	Blue phlox, #1 container	Phlox divaricata
\$82.08	\$5.13	16	Nodding Onion, 3 inch container	Allium cernuum
\$133.38	\$10.26	13	Oval Sedge. 6 pack	Carex brevior
\$75.33	\$8.37	9	Wild Ginger. #1 container	Asarum canadense

Delivery Fees	Delivery fees charged by distributors for delivering bulk material and plant material (plant material to be hand selected prior to delivery)	Estimate	\$650.00	\$650.00
Labor				\$5,866.00
Notes:				
xcavation fees may change dep	Excavation fees may change depending on underground obstructions that may be present. Communication will be provided in	t. Communication	will be provided in	
rices are subject to change. Pric	Prices are subject to change. Prices quoted for materials are 2021 prices and may adjust for 2022	or 2022 season.		
Daniel Peterson Principle and Ow will not be left unsupervised.	Daniel Peterson Principle and Owner at HabAdapt Landscape Design will be onsite for entire project. Any subcontractors used will not be left unsupervised.	ire project. Any su	bcontractors used	
labAdapt Landscape Design wil	HabAdapt Landscape Design will contact Gopher State One two weeks prior to project initiation to have utilities marked	tiation to have utili	ties marked.	
Additional fees may be applicabl material, etc.)	Additional fees may be applicable if buried debris is located in any excavation zone (i.e. buried rubble / concrete, hazardous material, etc.)	uried rubble / conc	rete, hazardous	
dditional work performed will ro o initiation. Hourly rate for chan	Additional work performed will result in change order billing. All additional work will be communicated in writing (email) prior to initiation. Hourly rate for change order projects is \$110 per labor hour rounded to the nearest 0.25 hour.	ommunicated in w learest 0.25 hour.	riting (email) prior	
all pavement cutting tools will be	All pavement cutting tools will be either dust vacuuming or wet cutting to reduce aerosolized particulate matter.	ed particulate mat	ter.	
II power equipment used by Ha	All power equipment used by HabAdapt will be run with generators or gas powered. No power to be drawn from the facility.	ower to be drawn	from the facility.	
quipment will be moved in and	Equipment will be moved in and out of work zone in one location to minimize collateral damage during installation phase.	mage during insta	llation phase.	
ssumed HabAdapt Landscape I	Assumed HabAdapt Landscape Design will have access to water throughout project for irrigation,		wetting product and washing	
lo pesticides or herbicides will b	No pesticides or herbicides will be used during the installation of the project.			
abor quote / price is guaranteed	Labor quote / price is guaranteed 60 days from bid / estimate generation date unless prior agreement has been made	r agreement has be	en made.	
lant species will be itemized out ne plans will be used with additi	Plant species will be itemized out when specific species are determined. Assumed most of the perennial species indicated in the plans will be used with additional species added depending on availability.	f the perennial spe	cies indicated in	
All plant material is hand selected. If we can go savings will be passed on with the final invoice	All plant material is hand selected. If we can get quantity discounts or the same material from an a savings will be passed on with the final invoice	om an alternative v	Iternative vendor, the price	
*Equipment, delivery and disposals more deliveries, disposals, etc. are requipment costs may be combined	*Equipment, delivery and disposals are estimates. Typically, the estimates are higher than what is usually needed, however, if more deliveries, disposals, etc. are required pricing may adjust accordingly. If ordered are combined some of the delivery and equipment costs may be combined.	what is usually nee combined some o	usually needed, however, if ed some of the delivery and	
*All product pricing is wholesale cost (we do not mark adjusted on the final invoice upon project completion.	*All product pricing is wholesale cost (we do not mark up materials). Should materials be acquired for less the price will be adjusted on the final invoice upon project completion.	acquired for less th	e price will be	

Estimate total	

m

## Warranty Information

## Plant Warranty

only valid if autumn winterization is performed by HabAdapt during first two growing seasons (winter wrapping, fencing, etc.) drought, rabbit or deer damage, storm damage, improper pruning, salt toxicity, etc.) Warranty does not cover herbaceous plants (i.e. sod, perennials, annuals). Warranty is damage prevention, etc. Warranty does not cover damage or death of plants due to environmental damage, animal damage, or improper care (i.e. lack of water during from installation date. Warranty will be honored if proper care has been performed during the growing season(s) which includes but is not limited to basic watering, animal \*Warranty only covers plants installed by HabAdapt. Warranty will cover replacement of woody plant materials (evergreens, shrubs, and / or trees for the first two seasons

from original estimate should vendor change prices mid season, or vendor needs to be changed \*\*Note\*\* Prices provided are based on 2021 costs from local vendors. Hardscape materials (stone, pavers, gravel, etc.) and plant materials may vary some

<sup>\*</sup>Client agrees to bid and supplemental information upon signing.

<sup>\*</sup>Material payment required before project initiation with labor portion due upon completion unless prior arrangement has been made

<sup>\*</sup>Additional work performed will result in change order billing. All additional work will be communicated prior to initiation.

<sup>\*</sup>Labor quote / price is guaranteed 60 days from bid / estimate generation date unless prior agreement has been made.

depending on vendor charges, plant price reductions due to vendor change or quantity discounts. \*Certain elements of the estimate / bid may change during installation and will be indicated on final invoice. Examples include but are not limited to delivery fee(s) change

that typically die back to the ground at the end of the season. \*Herbaceous plants and non-warrantied plants will be replaced at cost of new plant material plus delivery fees if applicable. Herbaceous plants are any grasses, perennials

\*Plant warranty is valid for one replacement.

## Hardscape Warranty

other construction activities, vehicular collision, etc.), or chemical damage (salt and abrasive cleaners). repaired to condition originally designed. Hardscape warranty does not cover natural disaster occurance (storms, floods, etc.), mechanical damage (damage resulting from \*All hardscape construction is guaranteed for 5 years. Should hardscape construction (i.e. pavers, walls, etc.) fail during specified time frame, the hardscape feature will be

\*Natural stone may weather with time (crack, oxidize, etc.)

### Bid 2 Woodland Restorations LLC

Design HabAdapt Sept 23, 2021 Pricing April 27, 2022 From: Woodland Restorations, LLC quickbooks@notification.intuit.com &

Subject: Estimate 1623 from Woodland Restorations, LLC

Date: April 27, 2022 at 7:36 PM To: coyne.joe@gmail.com



Dear Joe Coyne,

Please review the estimate below. Feel free to contact us if you have any questions. We look forward to working with you.

Thanks for your business! Woodland Restorations, LLC

----- Estimate -----P.O. Box 396 Hugo, MN 55038 US 651-868-1617

Estimate #:

Date: Exp. Date:

1623 84/27/2822 \$12,248.75

Address:

Joe Coyne 11 Skillman Lane North Oaks, MN 55127

Date	Description	0tv	Rate	Anount
	ain Garden Installation			11,400.00T
	Design From HabAdapt			

Includes all Labor and Material

SubTotal: Tax:	\$11,400.00
Total:	\$12,240,75

Woodland Restorations, LLC P.O. Box 396

Hugo, MN 55038 woodlandrestorations@yahoo.com



### **Project Information**

Calculator Version: Version 4: July 2020
Project Name: Joe Coyne Raingarden

User Name / Company Name:

Date: 5/2/22

Project Description: Proposed raingarden to capture runoff coming from steep

drainage ditch on property, street, and a few neighboring

properties.

Construction Permit?: No

### **Site Information**

Retention Requirement (inches):

Site's Zip Code:

Annual Rainfall (inches):

Phosphorus EMC (mg/l):

TSS EMC (mg/l):

51.1

1.1

55127

31.8

0.3

54.5

### **Total Site Area**

Land Cover	A Soils (acres)	B Soils (acres)	C Soils (acres)	D Soils (acres)	Total (acres)
Forest/Open Space - Undisturbed, protected forest/open space or reforested land		2.75			2.75
Managed Turf - disturbed, graded for yards or other turf to be mowed/managed		1.2			1.2
			Impervious A	rea (acres)	1
			Total A	rea (acres)	4.95

### **Site Areas Routed to BMPs**

Land Cover	A Soils (acres)	B Soils (acres)	C Soils (acres)	D Soils (acres)	Total (acres)
Forest/Open Space - Undisturbed, protected forest/open space or reforested land					0
Managed Turf - disturbed, graded for yards or other turf to be mowed/managed		1			1
		I	mpervious A	rea (acres)	0.46
			Total A	rea (acres)	1.46

### **Summary Information**

### **Performance Goal Requirement**

Percent volume removed towards performance goal	11	%
Volume removed by BMPs towards performance goal:	450	ft³
Performance goal volume retention requirement:	3993	ft3

### **Annual Volume and Pollutant Load Reductions**

Post development annual runoff volume	3.0349	acre-ft
Annual runoff volume removed by BMPs:	0.6863	acre-ft
Percent annual runoff volume removed:	23	%
Post development annual particulate P load:	1.3621	lbs
Annual particulate P removed by BMPs:	0.308	lbs
Post development annual dissolved P load:	1.114	lbs
Annual dissolved P removed by BMPs:	0.252	lbs
Total P removed by BMPs	0.56	lbs
Percent annual total phosphorus removed:	23	%
Post development annual TSS load:	449.9	lbs
•		
Annual TSS removed by BMPs:	101.7	lbs
Percent annual TSS removed:	23	%

### **BMP Summary**

### **Performance Goal Summary**

BMP Name	BMP Volume Capacity (ft3)	Volume Recieved (ft3)	Volume Retained (ft3)	Volume Outflow (ft3)	Percent Retained (%)
1 - Bioretention basin (w/o underdrain)	450	1837	450	1387	24

### **Annual Volume Summary**

BMP Name	Volume From Direct Watershed (acre-ft)	Volume From Upstream BMPs (acre-ft)	Volume Retained (acre-ft)	Volume outflow (acre-ft)	Percent Retained (%)
1 - Bioretention basin (w/o underdrain)	1.5192	0	0.6863	0.8329	45

### **Particulate Phosphorus Summary**

BMP Name	Load From Direct Watershed (lbs)	Load From Upstream BMPs (lbs)	Load Retained (lbs)	Outflow Load (lbs)	Percent Retained (%)
1 - Bioretention basin (w/o underdrain)	0.6818	0	0.308	0.3738	45

### **Dissolved Phosphorus Summary**

BMP Name	Load From Direct Watershed (lbs)	Load From Upstream BMPs (lbs)	Load Retained (lbs)	Outflow Load (lbs)	Percent Retained (%)
1 - Bioretention basin (w/o underdrain)	0.5579	0	0.252	0.3059	45

### **Total Phosphorus Summary**

BMP Name	Load From Direct Watershed (lbs)	Load From Upstream BMPs (lbs)	Load Retained (lbs)	Outflow Load (lbs)	Percent Retained (%)
1 - Bioretention basin (w/o underdrain)	1.2397	0	0.56	0.6797	45

### **TSS Summary**

BMP Name	Load From Direct Watershed (lbs)	Load From Upstream BMPs (lbs)	Load Retained (lbs)	Outflow Load (lbs)	Percent Retained (%)
1 - Bioretention basin (w/o underdrain)	225.21	0	101.74	123.47	45

### **BMP Schematic**





### 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 a25% 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 4<sup>th</sup> Friday of the month for review of eligibility, and applications will be considered for funding at VLAWMO's monthly Technical Commission meetings on the 2<sup>nd</sup> 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 you 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 2<sup>nd</sup> 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: <a href="mailto:nick.voss@vlawmo.org">nick.voss@vlawmo.org</a> 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**

Applicant Landowne	. Illioilliation			
Name:				
Aaron Folsom				
Address of property when	re project will be implemer	nted:		
24 N Oaks Rd				
City, State, Zip:				
North Oaks, MN 5512	7			
Phone:				
612-396-9650				
Email address:				
folso001@umn.edu				
Grant Specifics				
ESTIMATED TOTAL COST OF YOUR PROJECT:	\$ 325.15	AMOUNT OF GRANT REQUE (\$750 MAXIN (\$1,000 Maximum if within T	MUM) $$243.84$ Targeted	1
WHEN DO YOU PLAN TO	COMPLETE YOUR PROJECT?	Priori	ity Zone)	
PROJECT TYPE: Raingarden	Native Restoration/Pollinator  Planting	Turf Replacement		Фтђег
If other, please describe proposed project:				
Project Background	_			
purpose of your project I want to create a na watershed. The gar Pollinators" template it with cardboard to cover the cardboard root or plugs from a  Describe how your project Information). Does your VLAWMO's list of eli a pollinator garden your	ative flower pollinator garderden will be roughly 30 feet e provided by the Minnesot smother the remaining turf. I with 5 inches of compost a native nursery, plant, and eect will support the goals of the proposed project directly reigible projects includes creawill reduce water use on mynt hill and from my roof and	to a lake, stream, ditch, or we en to replace part of my lawn, X 12 feet and essentially foll a BWSR. The garden site hand later wood chip mulch. I care for them.  The Soil Health Grant Program duce, capture, or treat stormwating pollinator gardens with a lawn and will benefit useful patio through my yard. I am	, which is in the Vilows the attached as been partly preform Ramsey Court will purchase approximative plants. Rejinsects. It will als	LAWMO "Shade Garden for epared, by covering ty for and proximately 60 bare the for more placing turf with o reduce rain run-

ı	Please briefly describe anticipated maintenance activities of your project:
	After planting the garden, I will water it intitally as needed, mulch it to preserve water, and
	weed it regularly so that the native plants thrive. I will do this for at least the 5 years required,
	and if any plants need replacing I will do this at my own expense.
ı	

### 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		TOTAL PROJECT
(Acres):	1.5	SIZE (SQ.FT.): 360
IMPERVIOUS AREA		PERVIOUS AREA
DRAINING TO PROJECT		DRAINING TO
(SQ.FT.):	1,746	PROJECT (SQ.FT.): 23,457
IF YOUR PROJECT I <b>NCLU</b>	DES INFILTRATION	, PLEASE PROVIDE THE FOLLOWING INFORMATION
SOIL INFILTRATION		DEPTH OF RAINGARDEN BASIN
RATE (INCHES/HR): NA	4	(INCHES): NA
<del>-</del>		

### **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 minimterview 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.

VLAWMO Soil Health Grant Operations & Maintenance Requirements: 2022 VLAWMO Soil Health Grant (SHG) Cost Share Grant Program

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?	<b>√</b> YES	NO
•	Participate in VLAWMO's outreach and project sharing efforts?	<b>√</b> ES	NO
•	Do you understand that your Project may be visited and inspected by a VLAWMO representative during the 5 year Project maintenance period	1? 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 Aaron Folsom	
Signature Jaron Falson	<sub>Date</sub> _4/14/22
VLAWMO STAFF	
Ci-m-to-m-	Data

Nursery	Species	Number	Cost	t
Landscape Alternatives	Oval Sedge		12	\$19.00
	Penn Sedge		6	\$31.50
	Alumroot		12	\$19.00
	Ohio Spiderwort		6	\$9.50
	Fragrant hyssop		6	\$9.50
	Cardinal flower		6	\$9.50
	Wild Bergamot		6	\$9.50
	Culver's root		6	\$9.50
	Green headed cone flowe	r	6	\$9.50
	Zig-zag goldenrod		6	\$9.50
Morning Star Nursery	Downy Yellow Violet		8	\$64.00
	Calico Aster		6	\$8.95
	Yarrow (seed)	1 pack		\$4.00
Cane Creek Meeadows	Wild Geranium		10	\$16.00
	Solomon's Seal		15	\$29.57
	Edging			\$45.00
	Subtotal			\$303.52
	tax 7.125%			\$325.15
Match	25%	, )		\$81.31
Total requested				\$243.84

# Shade Garden for Pollinators

Spring

Solomon's Seal

There are great native plant options for a shady spot. The plants featured here also selected for their beautiful foliage as well as continuous bloom from spring to fall

sedge provides growing and Pennsylvania ground-cover woodland A grass-like fine textured larva. Low pollinators anc nesting habitat for

pollinators. in the garden, bloom before emerge and ephemerals food for valuable early providing the other plants Yellow Violets

A low-growing garden. in a shady season-long native coral foliage interest nectar and blooms and provides early bell, Alumroot It is pollinated shady garden gracefully adds texture to a

other wildlife provide food for Blue berries in native bees. and other by bumblebees late summer

for other plants 1 plant

3 plants

9 plants

7 plants

5 plants

out. Prune lower Dogwood a allow space branches to it will flower late spring. Violets sculptural small Dogwood leafs before Pagoda planted beneath copious flowers in tree, producing

a beautiful its space other gardens with your shallow rhizomes and share its easy to transplant scented, Wild Geranium is when it outgrows neighbors or your powerhouse. It is spreading 4 plants

Ohio Spiderwort deep shade. and Spikenard Solomon's seal textured foliage in front of great planted of day. It looks during the hear closes its buds morning and \*won't survive in plants like

3 plants

Yarrow attracts Beautiful lacy sometimes when pollinator hottest time of blooms in the butterflies and bees and foods are the summer

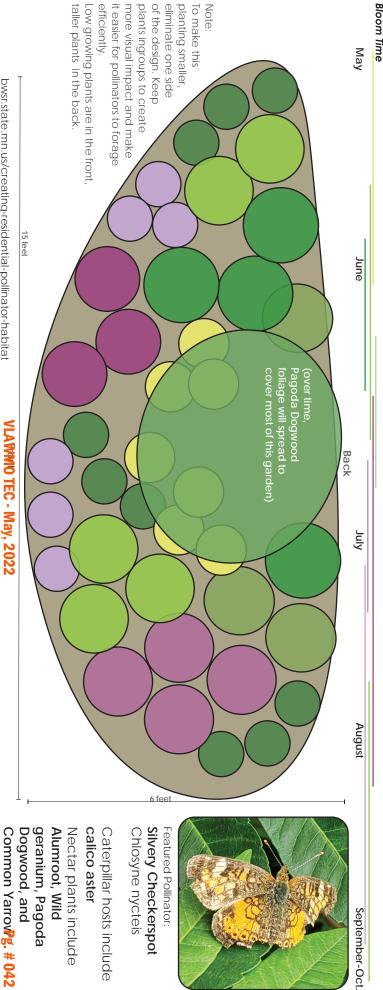
5 plants



Common lacy flowers look winter interest. seed heads add late fall. Fluffy summer into last from larva. Blooms Checkerspot for Silvery It is a host plant by other plants. best supported Callico Aster's

3 plants





VLAWMO TEC - May, 2022

bwsr.state.mn.us/creating-residential-pollinator-habitat

# Substitutions for selected species

native plant communities and provides plant species that are sure Use plants found within their natural range, this helps protect nearby to be compatible with local insect populations

# Sedge: Pennsylvania

Wood Sedge

Virginia

Bloodroot, Wild Ginger Oval Sedge Blue Eyed Bishop's Cap, Rue Anemone Hepatica, Pussytoes, Woodland Common violet

# Downy Yellow Violet:

Spring Beauty, Bleeding Heart• Bishop's Cap, Rue Anemone, Hepatica **Breeches** Dutchman's Common violet Bloodroot, Bluebells,

# Alumroot:

Foam Flower Sessile-leaf Bellwort, Wild Ginger Wild Columbine, Jack-in-the-Bellwort, Large-flowerec Bloodroot, Bishop's Cap, Hepatica,

# Solomon's

Dwarf Bush Bugbane, Starry False Ligularia • , Mist Flower Hairy Solomon's Solomon's Seal False Solomon's Bellwort, Large-flowered

# Geranium:

Pale Corydalis\* Giant Hyssop Foxglove Flower, Cardinal Beards-tongue Flower, Blue Ladder, Foam Rue Anemone Jacob's Turtlehead

Bugbane Spikenard Dogwood Red Osier Dogwood Round leafed

# Dogwood:

Harebells,

Service-berry, Hazelnut, Red Baneberry Americar

# Spiderwort:

Blue Lobelia Phlox, Swamp Clasping Rough Blazing **Bottle Gentian** Milkweed Poke Milkweed Dogbane Woodland

## Yarrow: Common

Mountain Mint\*, Virginia Coneflower, Monarda\* Woodland Phlox Green-Headed Obedient Plant Milkweed Swamp Turtlehead

## Calico Aster:

Bottle Gentian, Virginia Mountain Green-Headed Heart-leaf Aster, Big-leaf Aster, Woodland Phlox, Coneflower,

Star\*, Plant\* Obedient Rough Blazing

Wood Lily

not native to MN

Redbud.

Honeysuckle

\* Needs part-sun, will not thrive in dense shade.

# Planting Tips for new gardeners

- Prepare your new garden bed. Use methods Pollinator Habitat page found on BWSR's Creating Residentia
- Dig a hole as deep and 2-3 sizes wider than the pot. Remove the pot
- that have growing a circle around the base of the plant. Loosen roots and remove any roots
- or shrub and the base of below the flare of the tree The soil level should be just
- your plant gently around the roots. Mulch around the plant, but don't place mulch against the trunk. Spread roots, then re-fill hole. Tamp soil down
- Water immediately after planting then once a week for the first summer

# PERENNIAL PLANTS

Prepare your new garden bed

Use methods found

on BWSR's Creating Residential

TREES & SHRUBS

- Dig a hole as deep and 2-3 sizes wider than the Pollinator Habitat page
- ) 100
- Remove the pot
- Loosen roots and remove any roots growing in a circle around the base of the plant.

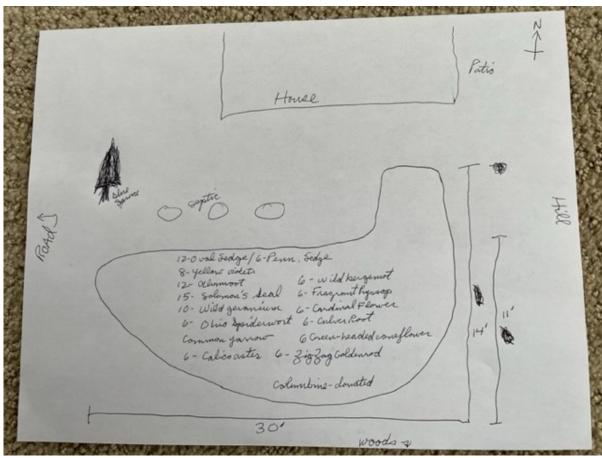
root flare

- Mulch around the plant against the stem but don't place mulch
- Water immediately after planting, then once a week for the first summer



### **SHG 2022-06—Folsom**







# SOIL HEALTH COST SHARE GRANT APPLICATION

### What is VLAWMO's Soil Health Grant?

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- 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 2<sup>nd</sup> 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: Address of property where project will be implemented: City, State, Zip: Phone: Email address: **Grant Specifics ESTIMATED TOTAL COST** AMOUNT OF GRANT REQUESTED: OF YOUR PROJECT: (\$750 MAXIMUM) (\$1,000 Maximum if within Targeted Priority Zone) WHEN DO YOU PLAN TO COMPLETE YOUR PROJECT? PROJECT TYPE: **Turf Replacement** Native Other Raingarden Restoration/Pollinator **Planting** 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? 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?

Project Specification	 S		
	· ·		ter and pollutants captured), specific
they should be able to pro	·		rking with a professional landscaper,
triey sribulu be able to pro	vide you with this int	ormation.	
TOTAL PROPERTY AREA		TOTAL PROJECT	
(Acres):		SIZE (SQ.FT.):	
IMPERVIOUS AREA		PERVIOUS AREA	
DRAINING TO PROJECT		DRAINING TO	
(SQ.FT.):	600	PROJECT (SQ.FT.):	300
15.VOLID DD 0 1507 : 1101 111	DEC INITIATION		
IF YOUR PROJECT I <b>NCLU</b> I SOIL INFILTRATION	JES INFILIRATION, F	PLEASE PROVIDE THE FOLLOWING IN DEPTH OF RAINGARDEN	
JOIL IN ILITATION			DAJIN

### **Additional Required Attachments**

RATE (INCHES/HR):

### To complete your application, please include:

Please briefly describe anticipated maintenance activities of your project:

- 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.

(INCHES):

\*\*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 minimterview 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.

VLAWMO Soil Health Grant Operations & Maintenance Requirements: 2022 VLAWMO Soil Health Grant (SHG) Cost Share Grant Program

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	VEQ	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			
Signature	May Grees Right	Date	
VLAWMO STAFF			
Signature		Date	



### **Estimate**

Mary & Rebecca Ripka 819 Hiawatha Avenue Vadnais Heights, MN 55127 Home 651-484-5407 Cell 651-808-3486 rebeccaripka@gmail.com

**Project**: Landscape Renovation

**Date**: April 13, 2022

**Proposal #1:** Remove existing unwanted plants and weeds in corner planting surrounding electric pole and tree in front yard. Create and nice flowing border to the planting beds. Install 180 - 3" potted native perennials and 4 yards of mulch to complete new native planting. Layout to be completed onsite with homeowner approval. \$2700.00

**Proposal #2:** Remove 4 failing Spruce trees in side yard, roots and all as well as all removing all weedy woody species below trees. Haul away all brush and roots. Install 5 – 20 gal White Pine trees with new mulch rings., Regrade and seed turf into all areas disturbed by the removal and shade of previous trees. Layout to be completed onsite with homeowner approval.

\$4000.00 .

**Proposal #3:** Create new planting bed to surround large maple tree on the back corner of the house. Remove all weeds and grass from around tree. Prepare new planting bed. Install 5-2-5 gal native shrubs, 72-3" potted native perennials, and 2 yard of shredded hardwood mulch.

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### **Contract Terms**

This is an agreement between "Customer", defined above, and Ecoscapes LLC. Under the terms set forth below, Customer agrees to purchase the services of Ecoscapes LLC in preparing and constructing the landscaping and/or brick paving and/or retaining wall design as set forth in the Proposals, and Ecoscapes LLC agrees to render such services.

As consideration, Customer agrees to pay Ecoscapes LLC the amount shown as "Total" ("Contract Price") in exchange for performing the services described in the Proposals that are initialed or agreed to. The parties further agree as follows:

### **Payments**

Customer will pay Ecoscapes LLC as stated in proposal or 50% of the Contract Price upon acceptance of the Proposal. Ecoscapes LLC will invoice Customer for the remaining balance along with any change orders due to site conditions, customer's changes or additions, and design changes, when work is substantially complete, as determined by Ecoscapes LLC. The invoice shall be paid by Customer within 15 days of the invoice date. If the total balance is not received by Ecoscapes LLC. by the end of the



15-day period, interest will be paid on that balance by Customer at a rate of 1.5% per month. Failure by Customer to pay the remaining balance within 105 days will constitute breach of this agreement. Upon breach of this agreement, Customer agrees to pay all costs of collecting any remaining balances, including attorney's fees. No warranties will be issued until full payment is received.

### **Brick Paving/ Retaining Walls**

Ecoscapes LLC warrants that brick paving or retaining wall material used in this contract will be free from defects and the installation will be functional for a period of two (2) years from the date of completion of the Contract, provided the installation was used as was intended when the project was designed, and was not misused. Any repairs/replacements made to any installation after expiration of the warranty will be made at Customer's expense. Any repairs made to any installation by any party other than Ecoscapes LLC voids any warranties offered by Ecoscapes LLC.

### **Plants**

Ecoscapes LLC will offer one-time only replacement of any tree, shrub, evergreen, woody vine, or perennial that has died within one (1) year from the date of installation, provided the plant has been cared for as instructed, and not abused. Ecoscapes LLC will not replace plants killed by animals, rodents, insects, mechanical damage, neglect, natural disasters or other reasons over which Ecoscapes LLC has no control. This warranty does not cover annuals, seeds, bulbs, roses and non-winter hardy plants. An additional labor charge for plant removal and reinstallation will apply. Any repairs/replacements made to any installation after expiration of the warranty will be made at Customer's expense. Any repairs made to any installation by any party other than Ecoscapes LLC voids any warranties offered by Ecoscapes LLC.

### **Underground Work**

Ecoscapes LLC is not responsible for underground obstructions not marked by Gopher State One Call, or improperly marked by property owner including but not limited to dog fences, irrigation lines, gas grill, or any other private utilities.) Removal of any unforeseen or unmarked underground item including but not limited to large boulders, concrete, stumps, or debris will be billed at an hourly rate. Ecoscapes LLC will notify customer as soon as possible if then items are un-earthed.

### Changes

Ecoscapes LLC will make reasonable efforts to complete the Contract as designed. Circumstances may arise beyond the control of Ecoscapes LLC that may prevent construction of the Contract exactly as planned. Ecoscapes LLC will make reasonable efforts to minimize this impact on the design and construction. Customer acknowledges this possibility and accepts the action Ecoscapes LLC will take to minimize the potential change in design. If Customer wishes to change any part of the installation after this agreement is signed, but prior to commencement of installation, which results in additional material or labor costs for Ecoscapes LLC or results in delays in the completion of the Contract, said costs will be added to the remaining balance of the Contract and billed as part of the original Contract. Any changes in the design or Contract, whether the changes result in additional time, cost, or neither, must be made in



writing and signed by both parties, using an Additional Work Order Form.

### **Permits**

Customer is responsible for securing all necessary permits. Unless specified in writing, Ecoscapes LLC is not responsible for code violation made at Customer request. PROJECT START AND COMPLETION

An estimate of the number of days to complete the contracted work and an expected start date are provided as a courtesy. There may be delays in the beginning date and completion date due to poor weather or other circumstances beyond the control of Ecoscapes LLC. Those delays will not alter or invalidate any part of this Contract, nor will they entitle Customer to additional rights under the Contract

### Termination

This agreement may be canceled by Customer by mailing written notice to Ecoscapes LLC before midnight the third business day after Customer has signed this agreement. If after that time Customer wishes to terminate this Contract, Customer must give Ecoscapes LLC five (5) days advance written notice. Ecoscapes LLC will retain any monies paid by Customer up to the effective date of termination, and is entitled to any expenses for materials or other expenses incurred by Ecoscapes LLC.

### **Estimates**

Ecoscapes LLC will make reasonable effort to accurately estimate the materials needed to complete the Contract. However, Customer acknowledges that there may be differences between the estimate and the final price. If the actual price is less than the estimated Contract Price, that amount will be discounted on the final payment due Ecoscapes LLC. If the actual price is more than the estimated Contract Price, that additional amount will be added to the final payment due Ecoscapes LLC. Customer will pay Ecoscapes LLC that additional amount.

### **Notice of Lien Rights**

AS REQUIRED BY THE MINNESOTA CONSTRUCTION LIEN LAW, BUILDER HEREBY NOTIFIES OWNER THAT PERSONS OR COMPANIES FURNISHING LABOR OR MATERIALS FOR THE CONSTRUCTION ON OWNER'S LAND MAY HAVE LIEN RIGHTS ON OWNER'S LAND AND BUILDINGS IF NOT PAID. THOSE ENTITLED TO LIEN RIGHTS, IN ADDITION TO THE UNDERSIGNED BUILDER, ARE THOSE WHO CONTRACT DIRECTLY WITH THE OWNER OR THOSE WHO GIVE THE OWNER NOTICE WITHIN 60 DAYS AFTER THEY FIRST FURNISH LABOR OR MATERIALS FOR THE CONSTRUCTION. ACCORDINGLY, OWNER PROBABLY WILL RECEIVE NOTICES FROM THOSE WHO FURNISH LABOR OR MATERIALS FOR THE CONSTRUCTION, AND SHOULD GIVE A COPY OF EACH NOTICE RECEIVED TO THE MORTGAGE LENDER, IF ANY, TO SEE THAT ALL POTENTIAL LIEN CLAIMANTS ARE DULY PAID.

The failure of Ecoscapes LLC to enforce any right accruing under this agreement shall not be construed as a waiver of a subsequent right of Ecoscapes LLC to enforce the same or any other right, term or condition.



This agreement shall be interpreted and enforced in accordance with the laws of the State of Minnesota.

To agree to individual proposals of contract, initial next to price of agreed proposal and write in calculated total contract price in space provided. Sign contract below to create a binding agreement.

Customer Signature	Date
Customer Signature	Date

Name Scientific name

**Native Trees & Shrubs** 

Quercus rubra Red Oak

Amelanchier canadensis Shadblow Serviceberry Pin Cherry Prunus pensylvanica

Showy Mountain Ash Sorbus decora

**Shrubs** 

Elderberry Sambucus canadensis

Diervilla Ionicera Dwarf Bush Honeysuckle **Gray Dogwood** Cornus racemosa

American Black Currant Ribes

Nannyberry Viburnum lentago Skunkbush Rhus aromatica

Red Snowberry Symphoricarpos orbiculatus

**Native Perennials** 

Pale Purple Coneflower Echinacea pallida Blue Wild Indigo Baptisia austalis

Northern Dropseed Sporobolus heterolepis

Meadow Blazing Star Liatris ligulstylis Monarda fistulosa Wild Bergamot Swamp Milkweed Asclepias incarnata Spotted Joe Pye Weed Eupatorium purpureum Wild Geranium Geranium maculatum Foxglove Beardtongue Penstemon digitalis Lady Fern Athryium felix femina Sensitive Fern Onoclea sensibilis Carex pennsylvanica Pennsylvania Sedge Heart-leafed Aster Aster cordifolius Early Meadow Rue Thalictrum dioicum

Aster macrophyllus Big-leafed Aster Canada Anemone Anemone canadensis Jacob's Ladder Polemonium reptans Aster macrophyllus **Big-leafed Aster** 

Little Bluestem Schizachyrium scoparium Pycnanthemum virginianum Mountain Mint

## SHG 2022-07—Ripka

