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VLAWMO TECHNICAL COMMISSION MEETING

8:00 AM August 9, 2023

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

Action items: X

- I. Call to Order: 8:00 am
- II. Approval of Agenda
- III. Approval of Minutes (July 12, 2023)
- IV. Administration & Operations
 - a. Financial report for August and authorization for payment 🔅 Phil Pg. 6
 - b. August TEC report to the Board 🌣 Phil Pg. 14
- V. Programs
 - a. LL1 2023-05 Swanson Shoreline 🌣 Lauren Pg. 21
 - b. Outreach updates: MN Water Steward capstone, groundwater conservation Nick Pg. 15
 - c. VLAWMO 40th Anniversary Conservation Celebration Aug 24 Nick Pg. 15
 - d. Update on approved 2024 VLAWMO budget Phil Pg. 16
- VI. Projects Dawn
 - a. Update on Wilkinson deep-water wetland restoration project bid process Pg. 16
 - b. Wilkinson deep-water wetland project pre-construction remote-camera survey Pg. 18
 - c. Gilfillan aquatic vegetation survey completed Pg. 19
 - d. SEH biochar analysis and next 319 grant round Pg. 19
- VII. Commissioner reports
- VIII. NOHOA
- IX. Ramsey Soil & Water Conservation Division
- X. St. Paul Regional Water Services
- XI. Public Comment
- XII. Next Meetings: TEC: September 13, Board: August 23
- XIII. Adjourn

Upcoming Events: Native Plant tour at WB Montessori: Aug 9 Neighborhood BMP tour: Aug 17 VH Heritage Days: Aug 19 40th Anniversary Celebration with RCSWCD: Aug 24

Vadnais Lake Area Water Management Organization Technical Commission (TEC) Minutes July 12, 2023 Vadnais Heights City Hall, Council Chambers 800 County Road E East, Vadnais Heights, MN 55127

Commission Members Present:

Nick Ousky	Vadnais Heights (VH) (Alternate)
Gloria Tessier	Gem Lake (GL)
Jami Philip	White Bear Township (WBT)
Susan Miller	North Oaks (NO)
Terry Huntrods	White Bear Lake (WBL)

Absent: Andy Nelson (LL)

Others in attendance: Phil Belfiori, Brian Corcoran, Lauren Sampedro, Nick Voss, Dawn Tanner (VLAWMO staff), Jeremy Erickson (SPRWS)

I. Call to Order

Chair Tessier called the meeting to order at 7:59 am.

II. Approval of Agenda

It was moved by Commissioner Huntrods and seconded by Commissioner Miller to approve the July 12, 2023 TEC agenda Vote: all aye. Motion passed.

III. Approval of Minutes (June 14, 2023)

It was moved by Commissioner Miller and seconded by Commissioner Ousky to approve the June 14 meeting minutes as presented. Vote: all aye. Motion passed.

IV. Administration & Operations

A. Financial Report for July and Authorization for Payment

Administrator Belfiori outlined the July finance report, which included expenses related to special CIP projects like the spent lime and Wilkinson deep water wetland projects, and a soil health grant project reimbursement. He recommended payment of the July expenses.

It was moved by Commissioner Miller and seconded by Commissioner Huntrods to approve the July financial report and authorize payment. Vote: all aye. Motion passed.

V. Programs

A. 40th Anniversary Campaign Update

Voss provided coasters commemorating VLAWMO's 40th anniversary to the TEC and noted that the VLAWMO website includes a 40th anniversary campaign with a series of six events. He then summarized the upcoming August 24th celebration at Vadnais-Sucker Lake Regional Park-pavilion #1. He noted that Stephanie McNamara's retirement recognition will be scheduled for 3:30pm. He also summarized some of the other activities that are planned for the August 24th event, such as an aquatic macroinvertebrate activity, yard games, a State climatology speaker, sandwiches, and mini restoration tours in the park. He invited the TEC to attend.

B. SHG 2023-02 McCarthy Raingarden

Sampedro explained the grant application submitted from a landowner located in White Bear Lake. The project is located in the target priority zone for stormwater volume reduction and drains to Lambert Creek. The project is a downspout raingarden with a mixed sun and shade planting plan. Sampedro recommended approval of the application at 75% up to \$1,250.

It was moved by Commissioner Ousky and seconded by Commissioner Huntrods to approve SHG-2023-02 McCarthy Raingarden. Vote: all aye. Motion passed.

C. LL1 2023-04 Hill Shoreline

Sampedro explained the grant application submitted from a landowner on the southeast side of Birch Lake on Birch Lake Blvd in White Bear Lake. The application motivation was influenced by an adjacent neighbor who completed a previous VLAWMO grant shoreline restoration. The project proposal includes native aquatic and terrestrial vegetation, a shoreline buffer of about 11ft in width (110 linear ft of shoreline), and an upland buffer of about 2,400 square feet. Existing sand and turf would be removed and replaced with a soil amendment and native species. Staff recommended approval at 50% up to \$5,000.

Commissioner Miller inquired about the cost share program, whether VLAWMO is at a budget that it would typically expect for this time of year. Sampedro affirmed that the current trend is expected due to the time it takes for homeowners to get applications together and the competitiveness in reserving contractors.

It was moved by Commissioner Huntrods and seconded by Commissioner Ousky to approve LL1 2023-04 Hill Shoreline. Vote: all aye. Motion passed.

VI. Projects

A. East Vadnais Lake Subwatershed Resiliency Study

Sampedro summarized the East Vadnais Lake Subwatershed resiliency study in partnership with Ramsey County, the City of Vadnais Heights, and Saint Paul Regional Water Services. The project is focused on flood reduction and water quality improvements in the area outlined on the map expressed in the packet. The partners have signed a MOU to complete the study with shared funding contributions, which is expected to total about \$70,000. Study proposals are due by the end of July and will be scored in the first week of August. The full study is expected to be completed in 2024.

Commissioner Miller asked whether there are homeowners experiencing basement flooding in the project area, or if there's current street flooding issues. Sampedro confirmed that the intersection of Centerville Rd and Vadnais Blvd is a persistent spot for flooding.

B. Spent Lime project at Oak Knoll Pond

Tanner explained that the City of White Bear Lake City Council considered the spent lime quote and contract documents at their July 11, 2023 council meeting. She said staff expect to receive news from the City on if the project can move forward later this morning.

C. Wilkinson Deep-water Wetland Restoration Project Bid Process

Tanner announced that the bid is available to interested contractors. An in-person mandatory pre-bid meeting is occurring at the end of July.

D. Amelia Flowering Rush Project

Tanner explained that the MN DNR has requested continued monitoring for flowering rush at Amelia Lake. After a period of 5 years with no flowering rush the DNR will consider delisting it from Amelia Lake. VLAWMO is working with Ramsey County Soil and Water Conservation Division on the monitoring and both entities value the learning opportunity for this unique invasive species treatment task.

E. Polar Lakes Park Stormwater Reuse Feasibility Study

Corcoran introduced the stormwater reuse project that is occurring in partnership with White Bear Township. The VLAWMO BOD approved moving forward with the feasibility study at the June Board meeting. The Polar Lakes park area can use up to 6 million gallons of water per year, and the study is focused on the feasibility of using a nearby mitigation wetland to reduce potable water use. The feasibility study will determine the maximum drawdown of the wetland and the wetland recharge, analysis of existing irrigation and irrigation needs, water quality data, available water storage, and more. VLAWMO and White Bear Township are splitting the cost 50/50 for the feasibility study through a signed MOU. The completed study will be presented to the Township and VLAWMO Board to discuss findings and future direction.

Earlier in the spring of 2023 the TEC also approved smart irrigation controllers for this park, which are now installed.

Commissioner Miller provided support for using surface water runoff rather than groundwater drinking water to water the fields.

I. Commissioner Reports

None

II. NOHOA

Commissioner Miller inquired about the carp removal in Deep Lake, and asked if the carp removal may be already be impacting the water quality for the better.

Tanner noted that the clarity increase is likely due to vegetation taking up the nutrients in the lake, andthe aquatic vegetation is healthier with greater ability to retain lake nutrients. She noted that the changes are likely due to two years of continued carp removal and the time that aquatic vegetation has had to recover in carp's absence.

III. Ramsey Soil & Water Conservation Division

None

IV. St. Paul Regional Water Services

Jeremy Erickson reported that the Highland water tower open house is the weekend of July 14-15.

V. Public Comment

None

VI. Next Meetings:

Next TEC meeting August 9th. Next BOD meeting August 23rd.

XIII. Adjourn

It was moved by Commissioner Miller and seconded by Commissioner Philip to adjourn the meeting at 8:33 am. Vote: all aye. Motion passed.

Minutes compiled by Nick Voss.

VLAWMO Finance Summary: August 2023

Aug-23		Actual 8/1/23 Actual to Date 2023 Budget Carry over from 2022 to 2023		Remaining in Budget	2023 Available	Act vs. Budget		
BUDGET #				INCOME				
5.11	Storm Water Utility	\$581,750	\$592,641	\$1,090,887	\$0	\$498,246	\$1,090,887	54%
5.12	Service Fees	\$0	\$0	\$200	\$0	\$200	\$200	0%
5.13	Interest + mitigation acct	\$6,043	\$28,280	\$1,000	\$0	(\$27,280)	\$1,000	2828%
5.14	Misc. income - WCA admin & other	\$1,710	\$8,209	\$3,000	\$0	(\$5,209)	\$3,000	274%
5.15	Other Income Grants/ <u>loan</u>	\$0	\$69,693	\$385,284	\$0	\$315,591	\$385,284	18%
5.16	Transfer from reserves		\$0	\$294,364	\$231,999	\$526,363	\$526,363	0%
	TOTAL	\$589,503	\$698,823	\$1,774,735	\$231,999	\$1,307,911	\$2,006,734	39%
				EXPENSES				
3.1	Operations & Adminis	stration						
3.110	Office - rent, copies, post tel supplies	\$2,140	\$14,935	\$28,181	\$0	\$13,246	\$28,181	53%
3.120	Information Systems	\$1,439	\$11,231	\$33,300	\$0	\$22,069	\$33,300	34%
3.130	Insurance	\$9,245	\$9,406	\$7,571	\$0	(\$1,835)	\$7,571	124%
3.141	Consulting - Audit	\$0	\$10,585	\$9,000	\$0	(\$1,585)	\$9,000	118%
3.142	Consulting - Bookkeeping	\$46	\$243	\$1,500	\$0	\$1,257	\$1,500	16%
3.143	Consulting - Legal	\$0	\$723	\$6,000	\$0	\$5,277	\$6,000	12%
3.144	Consulting - Eng. & Tech.	\$640		\$30,000	\$15,000	\$42,822	\$45,000	5%
3.150	Storm Sewer Utility	\$0	\$2,978	\$15,000	\$0	\$12,022	\$15,000	20%
3.160	Training (staff/board)	\$940	\$8,809	\$13,250	\$0	\$4,441	\$13,250	66%
3.170	Misc. & mileage	\$444	\$1,459	\$6,300	\$0	\$4,841	\$6,300	23%
3.191	Administration - staff	\$31,403	\$233,635	\$422,353	\$0	\$188,718	\$422,353	55%
3.192	Employer Liability	\$9,475	\$68,170	\$122,428	\$0	\$54,258	\$122,428	56%
3.2	Monitoring and Studi	es						
3.210	Lake and Creek lab analysis	\$2,510	\$4,044	\$18,000	\$0	\$13,956	\$18,000	22%
3.220	Equipment	\$0	\$928	\$3,000	\$1,000	\$3,072	\$4,000	23%
3.230	Wetland assessment & management	\$0	\$0	\$O	\$10,000	\$10,000	\$10,000	0%
3.240	Watershed planning /special study	\$0	\$0	\$10,000	\$5,000	\$15,000	\$15,000	0%
3.3	Education and Outrea	ach						
3.310	Public Education	\$0	\$2,131	\$6,000	\$0	\$3,869	\$6,000	36%
3.320	Marketing	\$436	\$4,021	\$15,000	\$9,500	\$20,479	\$24,500	16%
3.330	Community Blue Ed Grant	\$0	\$1,500	\$8,000	\$0	\$6,500	\$8,000	19%
Monitoring,	functions: Ops, Education	\$58,718	\$376,976	\$754,883	\$40,500	\$418,407	\$795,383	47%
Capital Imp	provement Projects an	d Programs			l			
3.4	Subwatershed Activit							
3.410	Gem Lake	\$0	\$0	\$15,000	\$10,000	\$25,000	\$25,000	
3.420	Lambert Creek	\$3,024	\$5,107	\$55,000	\$0	\$49,893	\$55,000	9%
3.421	Lambert Lake Loan	\$0	\$19,284	\$38,568	\$0	\$19,284	\$38,568	50%

3.425 3.430	Goose Lake Birch Lake	\$5,151 \$0	\$18,095 \$0	\$92,500 \$20.000	\$0 \$0	\$74,405 \$20,000	\$92,500 \$20,000	20% 0%
3.440	Gilf Black Tam Wilk Amelia	\$12,389	\$85,517	\$157,500	\$43,000	\$114,983	\$200,500	43%
3.450	Pleasant Charley Deep	\$10,880	\$22,440	\$48,000	\$30,000	\$55,560	\$78,000	29%
3.460	Sucker Vadnais	\$0	\$1,857	\$35,000	\$28,000	\$61,143	\$63,000	3%
3.48	Programs							
3.480	Soil Health Grant	\$1,250	\$1,818	\$8,000	\$0	\$6,182	\$8,000	23%
3.481	Landscape 1	\$5,000	\$5,000	\$30,000	\$6,263	\$31,263	\$36,263	14%
3.482	Landscape 2/BWSR WBF	\$675	\$2,251	\$35,000	\$36,636	\$69,385	\$71,636	3%
3.483	Project Research & feasibility	\$O	\$O	\$5,000	\$0	\$5,000	\$5,000	0%
3.485	Facilities Maintenan/ Pub. Ditch Main.	\$537	\$7,749	\$90,000	\$37,600	\$119,851	\$127,600	6%
3.5	Regulatory							
3.510	Engineer Plan review	\$O	\$O	\$5,000	\$O	\$5,000	\$5,000	0%
	Total CIP & Program	\$38,906	\$169,118	\$634,568	\$191,499	\$656,949	\$826,067	20%
	Total of Core Operations & CIP	\$97,624	\$546,094	\$1,389,451	\$231,999	\$1,075,356	\$1,621,450	34%

Fund Balan	ce	7/1/2023	8/1/2023
4M Accoun	t	\$688,652	\$1,216,296
4M Plus Sa	4M Plus Savings		\$234,866
Total		\$922,497	\$1,451,162

Restricted f	8/1/2023	
Mitigation Sa	\$21,016	
Term Series		\$0

Vadnais Lake Area Water Management Organization Check Detail

July 13 through August 9, 2023

08/01/2023

Туре	Num	Date	Name Item	Account	Paid Amount	Original Amount
Check	eft	07/24/2023 Reliance Standard		Checking - 1987		-312.17
				Insurance Benefit	-91.50	91.50
				Insurance Benefit	-220.67	220.67
AL					-312.17	312.17
Check	eft	08/01/2023 US Bank		Checking - 1987		-46.09
				3.142 · Bookkeeping help	-46.09	46.09
AL					-46.09	46.09
Check	5590	07/14/2023 Barr Engineering Co		Checking - 1987		-2,169.50
				Oak Knoll	-2,169.50	2,169.50
AL					-2,169.50	2,169.50
Check	5591	08/09/2023 city of North Oaks		Checking - 1987		-1,912.25
				3.440 · Gilfillan Black Tamarack Wilkin	-1,912.25	1,912.25
AL					-1,912.25	1,912.25
Check	5592	08/09/2023 Brian Corcoran		Checking - 1987		-232.48
				3.170 · Misc. & mileage	-232.48	232.48
AL					-232.48	232.48
Check	5593	08/09/2023 Lauren Sampedro		Checking - 1987		-36.29
				3.170 · Misc. & mileage	-36.29	36.29
AL					-36.29	36.29
Check	5594	08/09/2023 Nicholas Voss		Checking - 1987		-16.14
				3.170 · Misc. & mileage	-15.07	15.07
AL				3.320 · Marketing	-1.07	1.07
AL.					-16.14	16.14
Check	5595	08/09/2023 Dawn Tanner		Checking - 1987		-160.00
				3.170 · Misc. & mileage	-160.00	160.00
AL					-160.00	160.00
Check	5596	08/09/2023 Sisoka Duta		Checking - 1987		-420.00
				3.320 · Marketing	-420.00	420.00
AL					-420.00	420.00
Check	5597	08/09/2023 Kelli Wendland		Checking - 1987		-5,000.00
				3.481 · Landscape 1 - cost-share	-5,000.00	5,000.00
AL					-5,000.00	5,000.00

Check	5598	08/09/2023 City of Vadnais Heights	Checking - 1987		-2,139.72
			Rent	-1,715.00	1,715.00
			Phone/Internet/Machine Overhead	-305.00	305.00
			Postage	-71.19	71.19
			Copies	-48.53	48.53
TOTAL				-2,139.72	2,139.72
Check	5599	08/09/2023 Ramsey County	Checking - 1987		-675.00
			3.482 · Landscape 2	-675.00	675.00
TOTAL				-675.00	675.00
Check	5600	08/09/2023 Barr Engineering Co	Checking - 1987		-8,597.54
			$3.440 \cdot Gilfillan Black Tamarack Wilkin$	-4,110.01	4,110.01
			3.440 · Gilfillan Black Tamarack Wilkin	-1,506.50	1,506.50
			Oak Knoll	-2,981.03	2,981.03
TOTAL				-8,597.54	8,597.54
Check	5601	08/09/2023 SEH	Checking - 1987		-640.33
			3.144 · Eng. & Tech.	-640.33	640.33
TOTAL			-	-640.33	640.33
Check	5602	08/09/2023 RMB Environmental Laboratories, Inc.	Checking - 1987		-2,685.00
			3.210 · Lake & Creek lab analysis	-55.00	55.00
			3.210 · Lake & Creek lab analysis	-396.00	396.00
			3.210 · Lake & Creek lab analysis	-362.00	362.00
			LL VLAWMO cash match	-175.00	175.00
			3.210 · Lake & Creek lab analysis	-441.00	441.00
			3.210 · Lake & Creek lab analysis	-858.00	858.00
			3.210 · Lake & Creek lab analysis	-55.00	55.00
			3.210 · Lake & Creek lab analysis	-343.00	343.00
TOTAL				-2,685.00	2,685.00
Check	5603	08/09/2023 League of MN Cities Insurance Trust WC	Checking - 1987		-3,460.00
			3.130 · Insurance	-3,460.00	3,460.00
TOTAL			-	-3,460.00	3,460.00
Check	5604	08/09/2023 League of MN Cities Insurance Trust P & C	Checking - 1987		-5,785.00
			3.130 · Insurance	-5,785.00	5,785.00
TOTAL			-	-5,785.00	5,785.00
Check	5605	08/09/2023 Houston Engineering, Inc	Checking - 1987		-8,157.50
			3.420 · Lambert Creek Restoration	-2,848.75	2,848.75
			3.485 · Facilities & Maintenance	-537.50	537.50
			Wilk 319 cash match \$182,137	-4,771.25	4,771.25
TOTAL				-8,157.50	8,157.50
Check	5606	08/09/2023 Metro - Inet	Checking - 1987		-1,439.00
			IT Support	-1,439.00	1,439.00

TOTAL				-1,439.00	1,439.00
Check	5607	08/09/2023 carp solutions	Checking - 1987		-10,880.00
			3.450 · Pleasant Charley Deep	-10,880.00	10,880.00
TOTAL				-10,880.00	10,880.00
Check	5608	08/09/2023 Press Publications	Checking - 1987		-88.93
			3.440 · Gilfillan Black Tamarack Wilkin	-88.93	88.93
TOTAL			-	-88.93	88.93
Check	5609	08/09/2023 City of White Bear Lake	Checking - 1987		-40,566.15
			payroll	-31,403.24	31,403.24
			Administration FICA	-2,282.97	2,282.97
			Administration PERA	-2,355.24	2,355.24
			Insurance Benefit	-4,479.78	4,479.78
			Admin payroll processing	-44.92	44.92
TOTAL				-40,566.15	40,566.15
Check	5610	08/09/2023 Charley Lake Homeowners Assoc	Checking - 1987		-1,250.00
			3.480 · Soil Health Grant	-1,250.00	1,250.00
TOTAL			-	-1,250.00	1,250.00

Vadnais Lake Area Water Management Organization) 11:11 AM
Profit & Loss	08/01/2023
July 13 through August 9, 2023	Cash Basis
	Jul 13 - Aug 9, 23
Ordinary Income/Expense	
Income	
Misc.	1,710.00
5.1 · Income	
5.11 · Storm Water Utility	581,749.79
5.13 · Interest	6,043.69
Total 5.1 · Income	587,793.48
Total Income	589,503.48
Gross Profit	589,503.48
Expense	,
3.1 · Administrative/Operations	
3.110 · Office	
Copies	48.53
Phone/Internet/Machine Overhead	305.00
Postage	71.19
Rent	1,715.00
Total 3.110 · Office	2,139.72
3.120 · Information Systems	_,
IT Support	1,439.00
Total 3.120 · Information Systems	1,439.00
3.130 · Insurance	9,245.00
3.142 · Bookkeeping help	46.09
3.144 · Eng. & Tech.	640.33
3.160 · Training (staff/board)	940.00
3.170 · Misc. & mileage	443.84
3.191 · Employee Payroll	
payroll	31,403.24
Total 3.191 · Employee Payroll	31,403.24
3.192 · Employer Liabilities	- ,
Admin payroll processing	44.92
Administration FICA	2,282.97
Administration PERA	2,355.24
Insurance Benefit	4,791.95
Total 3.192 · Employer Liabilities	9,475.08
Total 3.1 · Administrative/Operations	55,772.30
3.2 · Monitoring and Studies	,
3.210 · Lake & Creek lab analysis	2,510.00
Total 3.2 · Monitoring and Studies	2,510.00
3.3 · Education and Outreach	2,010.00
3.320 · Marketing	435.97
Total 3.3 · Education and Outreach	435.97
	400.97

VLAWMO TEC · Aug 2023

3.420 · Lambert Creek Restoration	
LL VLAWMO cash match	175.00
3.420 · Lambert Creek Restoration - Other	2,848.75
Total 3.420 · Lambert Creek Restoration	3,023.75
3.425 · Goose Lake	
Oak Knoll	5,150.53
Total 3.425 ⋅ Goose Lake	5,150.53
3.440 · Gilfillan Black Tamarack Wilkin	
Wilk 319 cash match \$182,137	4,771.25
3.440 · Gilfillan Black Tamarack Wilkin - Other	7,617.69
Total 3.440 · Gilfillan Black Tamarack Wilkin	12,388.94
3.450 · Pleasant Charley Deep	10,880.00
Total 3.4 · Capital Imp. Projects/Programs	31,443.22
3.48 · Programs	
3.480 · Soil Health Grant	1,250.00
3.481 · Landscape 1 - cost-share	5,000.00
3.482 · Landscape 2	675.00
3.485 · Facilities & Maintenance	537.50
Total 3.48 · Programs	7,462.50
Total Expense	97,623.99
• Net Ordinary Income	491,879.49
t Income	491,879.49

Net Income

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

May 1 through J	uly 1, 2023	-							Accrual Basis
	Туре	Date	Num Name	Memo	Account	Clr	Split	Amount	Balance
May 1 - Jul 1, 23									
	Credit Card Charge	05/02/2023	Google*SVCAPPS_VLAWM	1	US Bank CC	\sqrt{WEB}		42.00	42.00
	Credit Card Charge	05/08/2023	adobe *photography plan		US Bank CC	√ Softw	vare	9.99	51.99
	Credit Card Charge	05/11/2023	ESRI	ArcGIS credits	US Bank CC	√ IT Sy	stems - Hardware	720.00	771.99
	Transfer	05/22/2023		Funds Transfer	US Bank CC	√ Chec	king - 1987	-444.81	327.18
	Credit Card Charge	05/25/2023	Adobe "Creative Cloud		US Bank CC	√ Softw	vare	32.20	359.38
	Credit Card Charge	05/28/2023	hologram	account refill	US Bank CC	√ Softw	vare	30.00	389.38
	Credit Card Charge	05/30/2023	print for change	WMO Brochures	US Bank CC	√ 3.320) · Marketing	186.00	575.38
	Credit Card Charge	06/02/2023	Google*SVCAPPS_VLAWM	1	US Bank CC	\sqrt{WEB}		42.00	617.38
	Credit Card Charge	06/06/2023	Speedy	mulch remnent	US Bank CC	√ 3.460) · Sucker Vadnais	23.96	641.34
	Credit Card Charge	06/07/2023	Speedy	mulch remnent	US Bank CC	√ 3.460) · Sucker Vadnais	29.95	671.29
	Credit Card Charge	06/09/2023	Speedy	mulch remnent	US Bank CC	√ 3.460) · Sucker Vadnais	23.96	695.25
	Credit Card Charge	06/14/2023	Crestline	coasters	US Bank CC	√ 3.320) · Marketing	353.19	1,048.44
	Credit Card Charge	06/15/2023	adobe *photography plan		US Bank CC	√ Softw	vare	9.99	1,058.43
	Credit Card Charge	06/20/2023	Frattalone Companies	staples remnent	US Bank CC	√ 3.460) · Sucker Vadnais	8.99	1,067.42
	Credit Card Charge	06/20/2023	TO Retail	plants remnant	US Bank CC	√ 3.460) · Sucker Vadnais	85.50	1,152.92
	Transfer	06/20/2023		Funds Transfer	US Bank CC	√ Chec	king - 1987	-1,010.20	142.72
	Credit Card Charge	06/26/2023	Adobe "Creative Cloud		US Bank CC	√ Softw	vare	32.20	174.92
	Credit Card Charge	06/27/2023	Prairie Moon Nursery	wilkinson plants	US Bank CC	√ 3.440) · Gilfillan Black Tamarack Wilkin	1,564.64	1,739.56
	Credit Card Charge	06/29/2023	REI	dawn - water jug	US Bank CC	√ 3.460) · Sucker Vadnais	19.95	1,759.51
	Credit Card Charge	06/30/2023	Meta	neighborhood tours post	US Bank CC	3.320) · Marketing	12.93	1,772.44
May 1 - Jul 1, 23								1,772.44	1,772.44

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TEC Report to the Board August 2023

Programs & Projects	Effort Level LOW MED HIGH	Completion Date	Comments							
Projects				Administrat	ion & Opera	ation				
319 Biochar			Monitoring ongoing and final report to MPCA in development process	Audit		2022/2023	2	2022 audit approv	ved by Board a	at the April meeting.
Oak Knoll Pond/Wood Lake		ongoing	In discussions with contractor on final contract language.	Budget		for 2024 budget	VLAW	VMO Board appro	ved 2024 buc	lget at June 28 meeting.
Public Ditch Maintenance		ongoing	Planning fall cleaning	Personnel /HR		ongoing	Mid year re	eview and discuss	sion on emplo	yee work objectives complete
MPCA 319 /Wilkinson Lake BMP		2021-24	Bids for construction contractor will be opened on Aug 3rd. Will provide update at meeting .	SSU		ongoing	2023 SSU certifica	2023 SSU certifications is anticipated for consideration at the August VLAWMO Bo meeting		eration at the August VLAWMO Board
Pleasant Lake Carp Management		2022-28	Spring removal complete. Biomass estimate will be done later in the season, and a 5-year plan is requested by VLAWMO from Carp Solutions to bring to the Board by the end of the year.	Strategic /watershed planning		2023	Starting discussion this month on strategic planning for late 23 /early and mid 24 will lead into development of 10 year watershed plan starting in 2024			
Programs										
City/Township MS4		June	Distributing existing MS4 education materials, customization by request. Vadnais Heights custom raingarden guide for Bridgewood Park Raingarden.	FI	NANCIAL SU	IMMARY as of 8/	1/2023	1		
Education/Outreach		August- Sept	Public boothing active such as White Bear Lake Marketfest and Vadnais Heights Heritage Days. Smart irrigation campaign continues, addition of WBT promo photos, article printed in WB Press July 26, 2023. Planning 40th Anniversary Campaign celebration event for August 24th, 2023, composing a video consisting of interviews of past and present VLAWMO admins and Board chair.		unt (1.10)	4M Plus (1.23)	Total			
Website		June- August	Website mock-up completed, final renovated sight expected in August, 2023.	\$1,21	.6,296	\$234,865	\$1,451,161			
WAV		June-Sept	Minnesota Water Steward Megan Sigmon-Olsen capstone project has completed the purple loosetrife component of the project. Megan is now conducting tours of her VLAWMO grant- funded raingarden, hosting education materials in neighborhood Night to Unite, and issuing a mailing letter to the neighborhood. Summer tours of past cost-share projects and WB Montessori native plantings.							
Cost Share & BWSR WBIF		ongoing	Westfield Park project completed and featured at an open house for the public August 3, NOHOA entrance raingarden planting completed this month. Several cost share applications moving forward and site visits continue. Two North Oaks homeowner's associations pursuing potential smart irrigation controllers. Continuing to work on projects for the BWSR WBIF grant program with partners, such as a potential raingarden through a Vadnais Heights street reconstruction project.		Budget Summary	Actual Expense YTD	2023 Budget "working"	Remaining in Budget	% YTD	
GIS		ongoing	Managing ESRI storage, updating the online GIS viewer as needed.		Operations	\$376,976	\$795,383	\$418,407	47%	
Monitoring		ongoing	2023 season underway		CIP	\$169,118	\$826,067	\$656,949	20%	
WCA		ongoing	Administering WCA as needed.		Total	\$546,094	\$1,621,450	\$1,075,356	34%	



TEC Staff Memo – August 9, 2023

IV. Administration & Operations

A. Financial Report for August and Authorization for Payment

Please find the August financial report and authorization to pay bills in the ePacket for review and approval.

B. August TEC Report to the Board

Please find the August TEC report to the Board attached in the ePacket for review and approval.

V. Programs

A. LL1 2023-05 Swanson Shoreline

Landowners Kristina and Andy Swanson submitted a Landscape Level 1 grant application for a shoreline restoration project on about 256 linear feet of shoreline along the south side of Gilfillan Lake in North Oaks. Gilfillan Lake is impaired for nutrients and the TMDL implementation plan recommends restoring 75% of the shoreline with native vegetation and installing buffers. The shoreline would be restored by removing the existing, failing concrete barricade along the bank, removing invasive species and turf grass, and replacing them with native plant plugs over 140 linear feet. An additional 2,400 square feet of native buffer will be added to further stabilize and restore the shoreline and capture stormwater runoff. The estimated pollutant reductions are about 1.41 tons/year of TSS and 1.2

Ibs/year of total phosphorus. The applicant received two bids for the project; one from Natural Shore Technologies at \$15,430 for eligible costs and another from Davey Resources Group at \$10,294 for eligible costs. Staff recommends approval of Landscape Level 1 Grant 2023-05 in the amount of 50% of eligible project expenses, not to exceed \$5,000 in accordance with program guidelines.

B. Outreach updates: MN Water Steward capstone, groundwater conservation

Minnesota Water Steward Megan Sigmon-Olsen has completed the purple loosestrife beetle rearing portion of her project. She is now focused on raingarden and Rice Lake shoreline tours at her home, most of which are VLAWMO-funded grant projects including a large curb-cut raingarden. Megan is utilizing VLAWMO and Hamline Center for Global Environmental Education (CGEE) education materials for her neighborhood Night to Unite, which was held on August 1st. Neighborhood mailings and additional tours will complete her Water Steward capstone project. Nick will provide photos of the event.

C. VLAWMO 40th Anniversary Conservation Celebration

The 40th Anniversary Celebration is being held August 24th from 3-7 pm at the Vadnais-Sucker Lake Park, near the Sucker Lake channel. The event includes food, games, a looking back at the work VLAWMO and the Ramsey County Soil and Water Conservation Division has completed over the years, and tours of nearby restoration efforts. A special retirement commemoration for Stephanie McNamara will occur at **3:30 pm**, with a presentation of a gift from the VLAWMO community and sharing of



cupcakes. Commission and Board members as well as volunteers and the general public are welcome to attend.

D. Update on Approved 2024 VLAWMO Budget

At their June 28, 2023 meeting, the VLAWMO Board approved the 2024 annual budget. As approved, the budgeted expenditures for 2024 will be \$1,970,811. To pay these expenditures the projected income within the approved budget for 2024 is made up of: 1) \$1,643,311 from the VLAWMO Storm water Utility and fund balance carry over funds from 2023 and 2) up to \$327,500 in loans, grants and partnership funds. Grants income includes MPCA 319 grant income /partnership for proposed Wilkinson Lk. deep water wetland BMP, and BWSR grant income for watershed-based implementation funding program. These outside funding revenue grant amounts are anticipated to be revised based on project board action and project timing constraints and or other variables.

Summary of some of the key 2024 approved Budget project highlights include (but not limited to):

- 1. Continued implementation of the Wilkinson Lake deep water wetland BMP,
- 2. Wilkinson / Tamarack Lake TMDL implementation / possible alum project,
- 3. Pleasant Lake management including carp management, possible AIS management (per discussions with MN Dept of Health), and water quality projects,
- 4. Implementation of proposed resiliency study in East Vadnais Lake subwatershed,
- 5. Public ditch ongoing ditch maintenance, inspection, and technical work & partnership
- 6. BWSR Watershed Based Fund grant implementation cost-share program partnership with member communities including City street reconstruction projects in the City of Vadnais Heights and City of White Bear Lake;
- 7. Completion of the Spent Lime Demonstration Project at Oak Knoll Pond (construction schedule?),
- 8. Development of the VLAWMO 10 year watershed management plan,
- 9. Results of proposed feasibility study of possible water reuse project in Polar Park

VI. Projects

A. Update on Wilkinson deep-water wetland restoration project bid process

The mandatory pre-bid meeting for interested contractors was well attended and conducted on July 26, 2023. The meeting was held in the North Oaks Community Room, with an initial orientation, project description, and question-and-answer session, that was followed by a site visit to the construction location. The bid package has been purchased and downloaded from Quest CDN ~18 times. Approximately 20 interested contractor representatives attended the meeting. Bid opening is scheduled for August 3, 2023, and a recommendation will be brought to the VLAWMO Board at the August regular meeting.



The current project dashboard is shown below. This dashboard includes all VLAWMO staff time and invoices received through July 31, 2023.

November December	January February	March /	April May	June	July	August
	Permitting					
arly Prelim Design Preliminar	ry Plans & Specs 🛛 🎝 inal F	lans & Specs and Bid Proc	:	\diamond		\diamond
		lim design in cket Feb 13	Final P&S in packet April 17		Authorize bid ocess in packet June 19	Award of contract in packet August 1
lighlights		Budget vs Sp	pent to date			
Bid open	Costs	Anticipated	Spent to date	<u>+/(-)</u>		
Pre-bid meeting July 26	Eng throug	h bid \$110,302	\$127,467	(\$17,165)		
Bid opening Aug. 3, 2:00	BMP imp/c	onst \$374,445				
	Monitoring	/maint \$18,096				
onsiderations	PM/VLAW	/IO staf \$31,667	\$20,369	\$11,298		
Eagle nesting tree	Total Budg	et \$534,510	\$147,836			
Monitoring well; will need to be reme leeded short term		PM/VLAW staff Monitoring & maint	MO Eng de	isign		
		3%	throug 229	h bid		
racking Comments						
Timing •>						
Scope >				MP imp & Instruction		
Budget 😑 >				69%		
Overall •>	Prelim. cost o based on wo	istribution, kplan/revised to include eng. cor	ntract updated 5/17/23			



B. Wilkinson deep-water wetland project pre-construction remote-camera survey

A remote camera was set up at the Wilkinson project site on April 22, 2023, with University of Minnesota Community-engaged learning students. The students used photos from the initial camera check for their final poster presentation for their Ethics in Natural Resources course. The camera has been running continuously for more than 11 weeks. The camera has captured photos of mammals including: Raccoons, coyotes, White-tailed deer, and Muskrat. The camera has also captured interesting birds such as waterfowl: Blue-winged teal, Canada geese, Mallards. The resident eagles have even made a few appearances. The eagle pair has 3 chicks this year. Two of them visited the camera site together. The photos below are part of the last camera check that was done when VLAWMO staff were onsite for the mandatory pre-bid meeting. The post-construction camera survey will provide insight into wildlife use following project installation.

White-tailed deer bucks interacting in the channel. | A coyote visits the camera.



This year's Bald eagle chicks perch together on the log that crosses the channel.





C. Gilfillan aquatic vegetation survey completed

VLAWMO staff joined RCSWCD on July 28, 20203, to complete the Gilfillan Lake aquatic vegetation and bathymetry survey. The last surveys were done on Gilfillan in 2009. The current update expands our understanding about the native plant community in the lake and provides detailed contours of the lake bottom. This information helps to guide ongoing improvement efforts.



D. SEH biochar analysis and beginning prep for next 319 grant round

VLAWMO staff met with SEH in June and July to prepare for upcoming 319 grant administration. SEH prepared and is working to complete a task order that includes providing load-reduction results for the biochar filter and Lambert meander. *E. coli* storm samples are being collected by VLAWMO staff and analyzed in the lab by our partners at SPRWS. P and TSS reductions collected by VLAWMO staff during 2022 are being analyzed for the meander. Results of SEH's analysis will be provided to the MPCA as part of the grant close-out for that project.

In anticipation for the next grant round in the 319/small, priority watershed program with MPCA, VLAWMO staff met with SEH engineers to work on a task order to investigate possible projects to continue to work toward improvement of Wilkinson Lake. Results of this work and other potential project

VLAWMO TEC · Aug 2023

investigations that are underway will be provided to the TEC for consideration as early feasibilities are evaluated and optimal projects are identified. VLAWMO will provide a project proposal to the MPCA in 2025. Preparation at this time will prepare us for the next grant-funded project.

LL1 Grant Application



Submit completed application to: Lauren Sampedro

lauren.sampedro@vlawmo.org

Applicant Information:

Name:	Kristina & Andy Swanson
Address:	35 Robb Farm Road
City/Township, State, Zip:	North Oaks, MN 55127
Phone:	612.239.6751
Email:	kdolejsi@hotmail.com

Project Summary:

ESTIMATED TOTAL PROJECT COST	\$10,294	
(\$)		\bigcirc
AMOUNT REQUESTED	\$5,000	
(\$5,000 reg, \$7,500 curb cut)		\checkmark
EXPECTED PROJECT COMPLETION	Fall 2023	
(Month, Year)		

PROJECT TYPE:

	Raingarden/Infiltration Basin: Curb cut
\bigcirc	Raingarden/Infiltration Basin: Regular
	Shoreline/Streambank Stabilization and/or Restoration
\bigcirc	Filtration
	Other

If other, please describe the proposed project:

Project Background:

Describe the project location.	256 Feet of shoreline restoration includes concrete barriers.
Does it connect to a lake, stream,	
ditch, or wetland in VLAWMO?	Connects to Lake Gilfilan.
What issues will be addressed with this project?	Concrete baracades, erosion control and a large array of invasive plants.

Project Background: Continued

Describe how your project	Stabilize and restore activley eroding shoreline/land area.
will support the goals of	Improve shoreline health and water supply on lake Gilfilan.
the Landscape Level 1	
Grant Program.	Reduce stormwater volume.
(See LL1 policy)	Plant native plants to create a better environment for pollinators and benefical species.
Briefly describe the planned installation and maintenance activities for your project.	Remove concrete barriers, eradicate invasive plants, restore shoreline. We will maintain by weeding and watering plants, etc. Please see additional details in the proposals attatched for additional details.

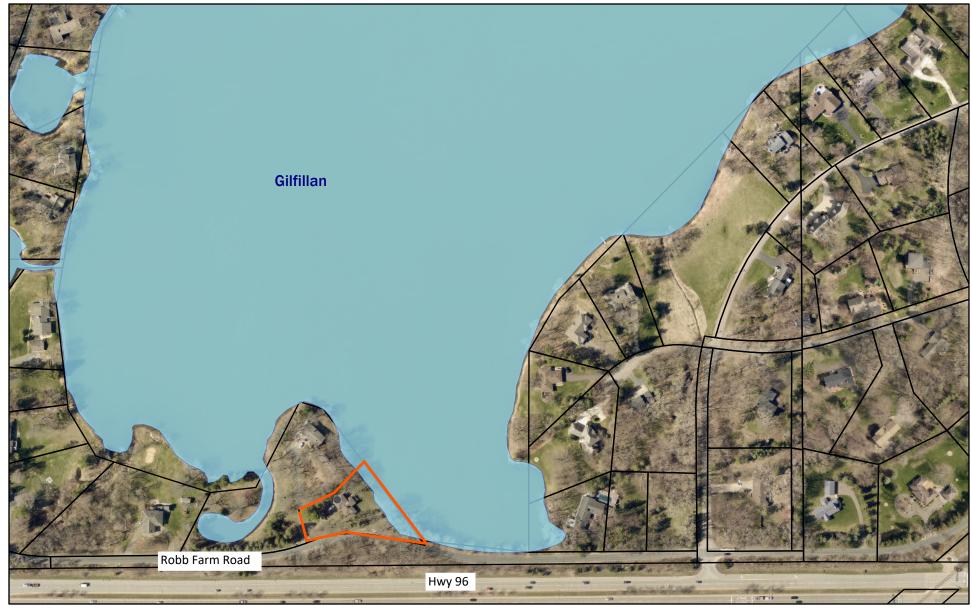
Project Specifications:

TOTAL PROPERTY AREA (Acres)	.66ac	Total PROJECT SIZE (Sq Ft)	~2,600sq ft Upland buffer+SL
IMPERVIOUS (HARD) AREA DRAINING TO PROJECT (Sq Ft):	4,874 sq ft	PERVIOUS (GRASSY, NON- PAVEMENT) AREA DRAINING TO PROJECT (Sq Ft):	14,660
DEPTH OF PRACTICE (In): Provide if project includes infiltration/filtration	N/A	BOTTOM SURFACE AREA (Sq Ft): Provide if project includes infiltration/filtration	N/A

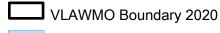
Required Attachments:

- Detailed drawing or plan of the proposed project. If project is complex, VLAWMO may require project final designs to be completed by a qualified professional or engineer. Drawing must include project dimensions that enable VLAWMO staff to model the project for estimated water quality benefits.
- \Rightarrow At least 2 bids for construction of proposed project.
- ⇒ Detailed project budget estimate with itemized materials and costs that equal the total project cost.

LL1 2023-05 Swanson Shoreline



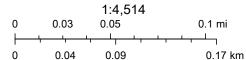
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Project Location

VLAWMO Lakes

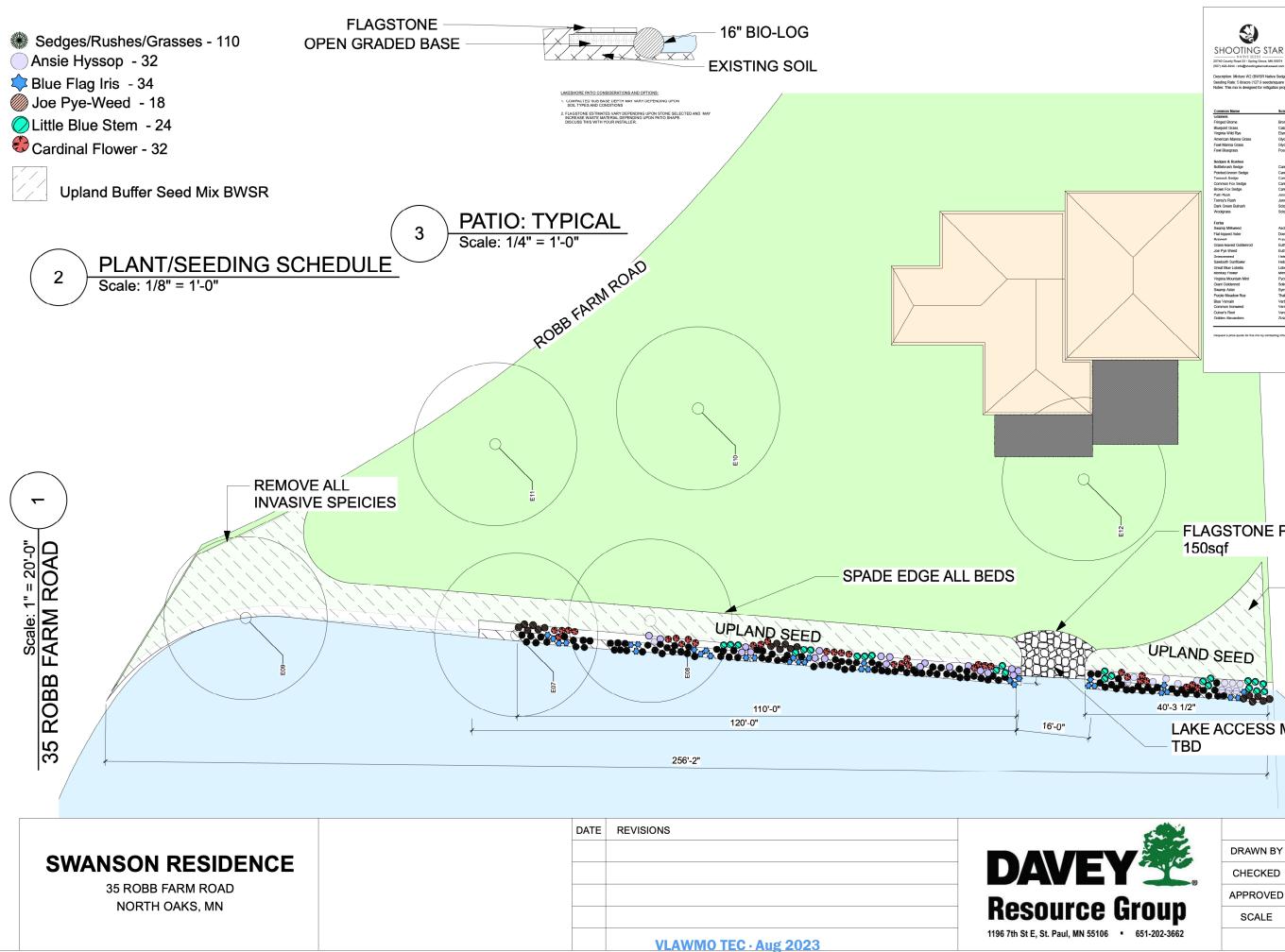
VLAWMO TEC · Aug 2023



ArcGIS Web AppBuilder

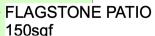
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, County of Ramsey, Esri, HERE, Garmin, GeoTechnologies, Inc.,

County of Ramsey, Esri, HERE, Garmin, GeoTechnologies, Inc., USSS, ErAP





Common Name	Scientific Name	% of Mix	Seeds/ft ²	Total
Grasses				
Fringed Brome	Bromus ciliatus	8.10%	1.5	0.405 PLS lb
Bluejoint Grass	Calamagrostis canadensis	1.60%	8.2	0.080 PLS lb
Virginia Wild Rye	Elymus virginicus	42.30%	3.3	2.115 PLS lb
American Manna Grass	Glyceria grandis	3.20%	4.1	0.160 PLS lb
Fowl Manna Grass	Glyceria striata	1.60%	4.7	0.080 PLS lb
Fowl Bluegrass	Poa palustris	7.10%	17.0	0.355 PLS lb
Serines & Rushes				
Bottlebrush Sedge	Carex comosa	4.30%	2.4	0.215 PLS lb
Pointed-broom Sedge	Carex scoparia	1.00%	15	0.050 PLS Ib
Tussock Sedge	Carex stricta	0.80%	0.8	0.040 PLS Ib
Common Fox Sedge	Carex stipata	3.20%	2.0	0.160 PLS lb
Brown Fox Sedge	Carex vulpinoidea	3.20%	5.9	0.160 PLS lb
Path Rush	Juncus tenuts	0.20%	3.7	0.010 PLS Ib
Torrey's Rush	Juncus torreyi	0.60%	17.6	0.030 PLS lb
Dark Green Bulrush	Scirpus atrovirens	2.00%	16.9	0.100 PLS lb
Woolgrass	Scirpus cyperinus	0.20%	6.2	0.010 PLS Ib
Forbs				
Swamp Mikweed	Asclepias incarnata	5.00%	0.4	0.250 PLS lb
Flat-topped Aster	Doellingeria umbellata	1.20%	1.5	0.060 PLS lb
Roneset	Funatorium perfoliatum	0.40%	12	0.020 PLS lb
Grass-leaved Goldenrod	Euthamia gramnifolia	0.20%	1.3	0.010 PLS lb
Joe Pye Weed	Eutrochium maculatum	0.40%	0.7	0.020 PLS lb
Oneezeweed	I lelenium autumnale	0.30%	0.7	0.015 PLS lb
Sawtooth Sunflower	Helianthus grosseserratus	0.60%	0.2	0.030 PLS lb
Great Blue Lobelia	Lobelia siphilitica	0.30%	2.8	0.015 PLS lb
Monkey Flower	Mimulus ringens	0.20%	8.4	0.010 PLS ID
Virginia Mountain Mint	Pycnanthemum virginianum	0.30%	1.2	0.015 PLS lb
Giant Goldenrod	Solidago gigantea	0.30%	1.4	0.015 PLS lb
Swamp Aster	Symphyotrichum puniceum	4.00%	5.9	0.200 PLS lb
Purple Meadow Rue	Thalictrum dasycarpum	0.40%	0.1	0.020 PLS lb
Blue Vervain	Verbena hastata	1.30%	2.2	0.065 PLS lb
Common Ironweed	Vernonia fasciculata	0.50%	0.2	0.025 PLS lb
Culver's Root	Veronicastrum virginicum	0.20%	2.9	0.010 PLS lb
Golden Alexanders	Zizia aurea	5.00%	1.0	0.250 PLS Ib



REMOVE ALL INVASIVE SPEICIES

LAKE ACCESS MATERIAL

-			Date: 6/1/2023
	DRAWN BY	СН	
	CHECKED	Checked	
	APPROVED	Approved	L100
e Group	SCALE	1" = 20'-0"	
06 • 651-202-3662			Pg. 024



Restoration Proposal for:

Ms. Kristina Dolejsi 35 Robb Farm Road North Oaks, MN

Proposal Date: August 1, 2023

Prepared by:

Bill Bartodziej M.S., Senior Restoration Ecologist Natural Shore Technologies, Inc. 612.730.1542 <u>bill.b@naturalshore.com</u>



Project Summary

- 1. Project site: shoreland 200' L x 10' W on average (2,000 SF)
- 2. Site assessment and plan development include: detailed site preparation methods, plant selection, and a project timeline and work schedule for our staff. Because most of projects involve the establishment of natural buffers, site drawings and planting plans are not necessary. We have found that over time, native plants will seek out the optimal micro-habitats and flourish. However, project plan drawings can certainly be provide at an additional cost upon client request.
- 3. Delineate and verify total restoration project area.
- 4. Kill selected turf areas with an herbicide appropriate for upland or aquatic use. A licensed herbicide applicator from Natural Shore Technologies will apply the treatment.
- 5. Cut and remove any weedy plant material from planting area.
- 6. Install biologs at the base of the shore slope. (seawall will be removed by another contractor or by the landowner)
- 7. Apply a 2-3" layer of shredded hardwood mulch in areas that will be planted.
- 8. Plant selections will provide flowering throughout the growing season, with at least 25 native plant species included in the plan.
- 9. Lay out plants into plant zones per plan specifications and install at approximately 1.5' centers.
- 10. Mulch will be moved aside, plant containers installed, and a light mulch layer will be returned around the base of the plants to hold moisture.
- 11. We will use 1,000 3-4" containers for your planting.
- 12. Site monitoring will be conducted and appropriate maintenance will be provided through October, 2024.

Installation note: Prior to installation, please let us know of any underground utility lines, sprinkler lines, or other obstacles in the restoration area. It is the owner responsibility to clearly mark lines, and NST will not be held liable for any damages.

VLAWMO TEC · Aug 2023

Preliminary Plant Species List

Common Name	Scientific Name	Height (ft)	Color	Bloom Time
EMERGENT				
Spike rush	Eleocharis palustris	1 to 2	Brown	June-July
Broadleaved arrowhead	Sagittaria latifolia	4	White	July - August
Hard Stem Bulrush	Schoenoplectus acutus	4 to 6	Brown	July - August
Soft Stem Bulrush	Schoenoplectus tabernaemontani	4 to 6	Brown	July - August
Giant burreed	Sparganium eurycarpum	3 to 5	Green/Brown	July - August
WET MEADOW				
Grasses, Sedges, Rushes		_		
Canada Blue Joint	Calamagrostis canadensis	3 to 6	Tan-Green	July - August
Bebb's Sedge	Carex bebbii	2 to 3	Green	May - June
Bottlebrush Sedge	Carex comosa	2 to 3.5	Green	May - June
Porcupine Sedge	Carex hystricina	2 to 3.5	Green	May - June
Tussock Sedge	Carex stricta	2 to 3	Green	May - July
Fox Sedge	Carex vulpinoidea	1.5 to 2.5	Green	May - June
Green Bulrush	Scirpus atrovirens	2 to 5	Green-Brown	July - August
Woolgrass	Scirpus cyperinus	3 to 5	Brown	July-September
Forbs				
Sweet flag	Acorus calamus	2	Green	May - July
Canada Anemone	Anemone canadensis	1 to 2	White	May - July
Swamp Milkweed	Asclepias incarnata	3 to 4	Lavender	June - August
Turtlehead	Chelone glabra	2 to 3	White	August -
Boneset	Eupatorium perfoliatum	2 to 4	White	October June-July
Joe-Pye Weed	Eutriochium maculatum	3 to 6	Purple	June-July
Sneezeweed	Helenium autumnale	4 to 5	Yellow	August - September
Blue Flag Iris	Iris versicolor	2 to 3	Blue	June - July

Meadow Blazing Star	Liatris ligulistylis	2 to 3.5	Purple	June - July
Cardinal Flower	Lobelia cardinalis	3 to 4	Red	June - October
Blue Lobelia	Lobelia siphilitica	1.5 to	Blue	June - October
		2.5		
Mountain Mint	Pycnanthemum	2 to 3	White	July - September
	virginianum			
New England Aster	Symphyotrichum novae-	3 to 5	Purple	September-
	angliae			October
Blue vervain	Verbena hastata	2 to 5	Purple	July-August
Culvers Root	Veronicastrum	3 to 5	White	July-August
	virginicum			

PRAIRIE

Grasses, Sedges

Side Oats Grama	Bouteloua curtipendula	1.5 to 2.5	Red-green	July - September
Blue Grama	Bouteloua gracilis	.5 to 1	Green-purple	July-September
June grass	Koeleria macrantha	1 to 2	Amber	May-June
Little Bluestem	Schizachyrium scoparium	1.5 to 3	Amber	July - September
Indian Grass	Sorghastrum nutans	4 to 6	Amber	July - September
Prairie Dropseed	Sporobolus heterolepis	1.5 to 3	Green	August - October
Forbs	_			
Anise Hyssop	Agastache foeniculum	2 to 4	Purple	June-October
Prairie Onion	Allium stellatum	1 to 1.5	Pink	July - September
Butterfly Milkweed	Asclepias tuberosa	1 to 2	Orange	June -
				September
Blue wild indigo	Baptisia australis	4.0	Blue	May-July
Prairie Coreopsis	Coreopsis palmata	1.5 to	Yellow	June -
		2.5		September
Purple coneflower	Echinacea purpurea	4.0	Purple	July-September
Rattlesnake master	Eryngium yuccifolium	4.0	White	July-September
Oxeye	Heliopsis helianthoides	5.0	Yellow	June-September
Prairie blazing star	Liatris pycnostachya	2 to 5	Purple	August -
				September
Wild bergamot	Monarda fistulosa	4.0	Pink-Purple	July-September
Foxglove Beardtongue	Penstemon digitalis	3 to 4	White	July-August

Prairie Phlox	Phlox pilosa	1.5 to 2	Pink	May - June
Mountain Mint	Pycnanthemum virginianum	2 to 3	White	July - September
Grey-headed Coneflower	Ratibida pinnata	5.0	Yellow	July-September
Black Eyed Susan	Rudbeckia hirta	2 to 3	Yellow	June - October
Heath aster	Symphyotrichum ericoides	2 to 4	White	August- September
Smooth blue aster	Symphyotrichum laeve	4	Blue	August-October
Aromatic aster	Symphyotrichum oblongifolium	2	Puprle	August- November
Sky Blue Aster	Symphyotrichum oolentangiense	2 to 3.5	Purple	August-October
Ohio Spiderwort	Tradescantia ohiensis	2 to 4	Blue	July - October
Hoary vervain	Verbena stricta	1 to 3	Purple	July-August
Golden Alexanders	Zizia aurea	1 to 3	Yellow	May-July

Project Cost

This bid includes project design and management, all materials, labor, and a two year maintenance plan. This is a comprehensive bid estimate and valid for thirty days. We require a 50% down payment to schedule your project.

Cost Breakdown

(seawall removal conducted by another contractor or landowner)		<u>-\$900.00</u> <u>\$16,870.00</u> J 15, V30 eligible Costs ZA
		1 15,430 eligible costs
	TOTAL =	\$16,870.00
Maintenance Plan - 5 visits - 2023		\$900.00
Maintenance Plan - 3 visits - 2022		\$540.00
1,000 Plants - 3" and 4" - containers @ 1.5' spacing		\$4,800.00
Biologs - 16" dia., soil smoothing behind - install - 100'		\$5,250.00
Mulch and/or Erosion Control - installed, Temp. fencing		\$1,770.00
Site preparation, herb. trts, clearing, hauling, fine grading		\$2,210.00
Site Design, Project Management, Mobilization		\$1,400.00

Site maintenance

Site maintenance includes at least 5 visits per year during the growing season to monitor and conduct activities that will ensure proper restoration establishment. We use the most appropriate, up-to-date maintenance techniques such as targeted herbicide application, hand pulling, mowing, and spot weed whipping to effectively control invasive weeds. Our lead maintenance supervisor has a B.S. in Biology and 10 years of field experience.

Watering - We will thoroughly water your site immediately after plant installation. Any necessary watering after installation is the responsibility of the owner. (Generally, normal rainfall during the growing season is adequate for native plant establishment.)

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

Staff Qualifications

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

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

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

Natural Shore Technologies Plant Material

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

Information about our retail native plant greenhouses located in Maple Plain is also available at: www.naturalshore.com



Using Ecology to Restore Land and Water

Guarantee

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

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

On projects that we install and manage, we will guarantee successful establishment of your ecological restoration within three full growing seasons. This proposal provides a plan for accomplishing the restoration of the project site. If successful establishment does not occur within three growing seasons, all necessary steps will be taken to ensure the eventual success of the project, at no additional charge. For purposes of this guarantee, successful establishment is defined as follows: That the presence of at least 80% of the original seeded or planted species can be found on the site, and that the overall density of vegetation is comprised of no less than 80% native species.

The only exceptions to this guarantee have to do with plant death due to acts of God (floods or drought) the actions of others (vandalism), or animal herbivory (e.g., geese, muskrats). Watering by the owner during dry periods is necessary, and the lack of adequate watering in this circumstance may nullify this guarantee.

If these extreme circumstances do happen to occur, we will work with the client at a reduced rate to make all necessary repairs.

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

Contract

- A down payment of \$8,400 is required to schedule your project.
- The remainder of the project cost is due at project completion. Any unpaid amount beyond the 30 day period after billing will incur a 3% monthly finance charge.
- Please note that this proposal is valid for 30 days from the date on this Contract.

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

Client name: Ms. Kristina Dolejsi

Signed: _____

Contract Value: \$16,870.00

Date _____

Contract Date: Contract Date for 30 Day term

Contractor: Natural Shore Technologies, Inc.

Signed:

M.M. Mas

William M. Bartodziej, M.S. Senior Restoration Ecologist, Natural Shore Technologies

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

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



Using Ecology to Restore Land and Water

VLAWMO TEC · Aug 2023



Corporate Headquarters 295 South Water Street, Suite 300 Kent, OH 44240 800-828-8312

> Local Office 1196 7th St E St. Paul, MN 55196 651-202-3662

June 1, 2023

Kristina Dolejsi 35 Robb Farm Road North Oaks, MN 55330

RE: Shoreline Restoration

Dear Kristina

Thank you for contacting Davey Resource Group, Inc. "DRG" to provide you with this proposal to work with with you on your shoreline restoration planting. This proposal is inclusive of all labor, material, and equipment required to perform work described in the RFP.

This proposal can be implemented by either issuing a purchase order, or by signing the Authorization to Proceed below and returning to our office.

If you have any questions or wish to arrange for a meeting to discuss this scope of work and more specifically the treatment methods and areas, please call our office at **651.202.3662** or my cell at **651-253-2157**.

Sincerely,

Com R-+

Chuck Hanna Principal Consultant Davey Resource Group, Inc. www.daveyresourcegroup.com

US SIteWorks DRG Proposal Page 1

Authorization to Proceed

SHORELINE RESTORATION

1. Buckthorn removal and treatment along shoreline as shown on j	plan . \$2,00 0.00
2. Removal and disposal of concrete barriers along shoreline:	\$3,800.00
3. Installation of 19 - 16" Coconut Fiber Biologs, staked and tied	\$5,035.00
4. 230 sqy of sod removal and disposal (Spade Edge)	\$1,725.00
5. Grading with existing soils to back of bio logs	\$480.00
6. Installation of 249 native plugs as per plan	\$871.50
7. Installation of 5 - #5 native shrubs	\$300.00
8. Installation of Upland Seed Mix 2,400 sqf	\$390.00
9. Installation of 255 SQY Category 3 Straw Blanket	\$892.50
10. Site Restoration	\$600.00
Total Project Cost	\$16,094.00
	\$ 10,294 eligible costs
	COSTS
SHORELINE PATIO	LX

1. Install 150 sqf Chilton Patio over 6" of open graded rock.

Any additional services requested, outside of the scheduled maintenance as described above shall be invoiced at \$95.00 per hour plus material. Prices above do not include appropriate sales tax, which will be added at the time of invoice. DRG may make recommendations to the client as issues occur. Any additional request for services shall be done in writing or electronically to benjamin.rietz@davey.com.

By signing this form, I do hereby acknowledge acceptance of the scope of work and associated fee, as well as the terms and conditions and limited warranty contained herein. Furthermore, my signature authorizes the work to be performed.

Client Name:

Authorizing Signature: _____

DRG Proposal Page 2

9750.00

Title:

Date:

Davey Resource Group, Inc.

Name/Title:

Date:

TERMS AND CONDITIONS

- All pricing is valid for 30 days from the date of this proposal, after which time we reserve the right to amend fees as needed.
- Time and materials (T&M) estimates may fluctuate and will be billed accordingly. Fixed fee contract prices will be billed as shown.
- Invoicing will be submitted monthly for work performed, unless otherwise agreed upon.
- Payment terms are net 30 days.
- If prevailing wage requirements are discovered after the date of this proposal, we reserve the right to negotiate our fees.
- Plant materials are subject to availability and substitutions may be made as necessary.
- All trees and shrubs are warranted for one year from the date of the project completion.
- Warranty does not cover lack of proper care, animal, vehicle, storm, drought, vandalism or human-caused damage.
- The client is responsible for any permit fees, taxes, and other related expenses, unless noted as being included in our proposal.
- The client shall provide 48 hours' notice of any meetings where the consultant's attendance is required.
- Unless otherwise stated, one round of revisions to deliverables is included in our base fee. Additional edits or revisions will be billed on a time and material (T&M) basis.
- All reports are provided only to the client unless otherwise directed.

LIMITED WARRANTY

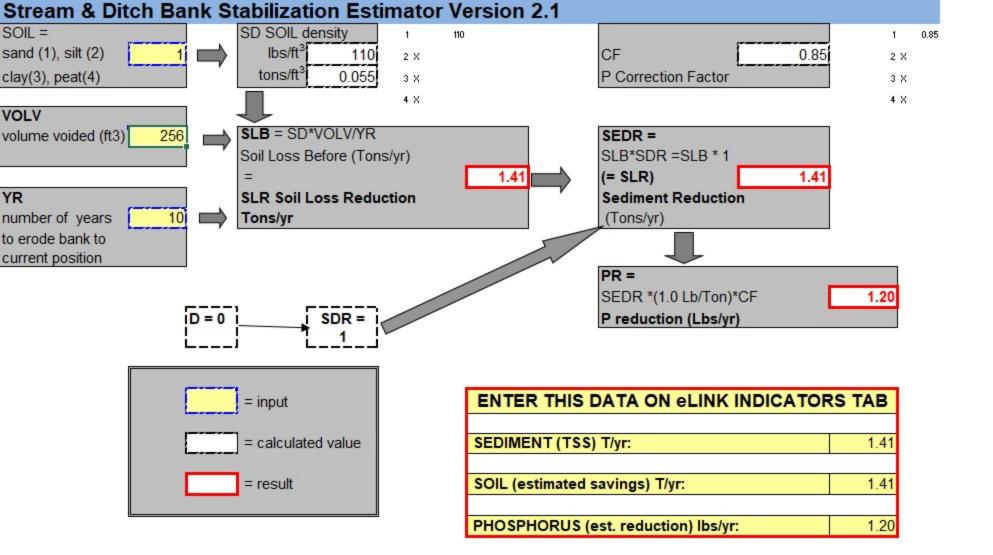
Davey Resource Group, Inc. ("DRG") provides this limited warranty ("Limited Warranty") in connection with the provision of services by DRG (collectively the "Services") under the agreement between the parties, including any bids, orders, contracts, or understandings between the parties (collectively the "Agreement").

Notwithstanding anything to the contrary in the Agreement, this Limited Warranty will apply to all Services rendered by DRG and supersedes all other warranties in the Agreement and all other terms and conditions in the Agreement that conflict with the provisions of this Limited Warranty.

DRG Proposal Page 3

VLAWMO TEC · Aug 2023





V.A. Swanson Shoreline

LL1 2023-05 Grant Application

Lauren Sampedro TEC Meeting 8/9/2023





