

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting Wednesday, March 16, 2022

Agenda Item

Item 4. E. – Authorize payment to City of Burnsville for Willow Creek Stabilization

Prepared By

Linda Loomis, Administrator

Summary.

At the September 15, 2021, meeting of the LMRWD Board of Managers, the Board authorized participation in a project to stabilize an area known as Willow Creek Ravine. A Cooperative Agreement between the LMRWD and the City was approved and executed at the February 16, 2022 Board meeting.

The project is essentially complete and the City is requesting reimbursement. Young Environmental Consulting Group reviewed the request and additional information provided by the City on behalf of the LMRWD. Staff from Young Environmental inspected the project and has prepared a memorandum for the Board and recommends reimbursing the City.

In addition, LMRWD staff is recommending an additional consideration for future cost shares with municipalities and others, which is addressed in the memorandum.

Attachments

Technical Memorandum dated March 9, 2022 Re: Burnsville 2021 Slope Project – Payment Request Review Excerpt from September 15, 2021 LMRWD Board of Managers meeting minutes Cooperative Agreement for 21-604 Willow Creek Ravine Stabilization Project

Recommended Action

Motion to authorize payment to the City of Burnsville for the Willow Creek Stabilization Project



Technical Memorandum

To: Linda Loomis, Administrator

Lower Minnesota River Watershed District

From: Katy Thompson, PE, CFM

Hannah LeClaire, PE

Date: March 9, 2022

Re: Burnsville 2021 Slope Project—Payment Request Review

At the September 15, 2021, Lower Minnesota River Watershed District (LMRWD) board of managers meeting, the managers approved a \$75,000 grant funding request from the City of Burnsville (City) for the 2021 Slope Project (also known as the Willow Creek Stabilization Project) to expand the scope of the slope stabilization project (Attachment 1). The project proposed to stabilize an additional 120 feet of streambank that was actively eroding and contributing sediment to the LMRWD. The cost for the entire project was estimated to be \$462,395. The LMRWD share of \$75,000 would partially cover the material and installation costs of riprap, gabions, and anchored slope protection to stabilize the failing streambank (Attachment 2). Although the project was not within the LMRWD boundary, it aligned with the District's goal to protect, improve, and restore surface water quality. The recommendation was to provide 90 percent of the grant at substantial completion (\$67,500), then the remaining 10 percent when final restoration could be confirmed in the spring or summer of 2022.

Willow Creek Payment Request

The project was awarded to lowest bidder, Heselton Construction, by the Burnsville City Council on October 19, 2021, for the amount of \$184,722, significantly under the engineer's estimate of \$462,395. On February 23, 2022, the City submitted an invoice in the amount of \$67,500, along with the contract pay voucher and quantities. Table 1 shows the items the LMRWD agreed to finance and the funding amount. Table 2 shows the same items from the Burnsville February 2022 invoice (Attachment 3).

Table 1. Engineer's Estimate and LMRWD Cost-Share

		Engineers Estimate			
Item	Description	Quantity	Unit Cost	Total	LMRWD Share
	Random Fieldstone				
2511.507	Riprap Class III	400 tons	\$200/ton	\$80,000	\$40,000
2512.507	Gabion	70 cubic yards (CY)	\$600/CY	\$42,000	\$21,000
2573.602	Rock Ditch Check	2 each (EA)	\$10,000/EA	\$20,000	\$10,000
	Anchored Slope				
2575.603	Protection	120 linear feet (LF)	\$120/LF	\$14,400	\$4,000

Table 2. February 2022 Payment Voucher for Substantial Completion

Item	Description	Quantity	Unit Cost	Total
2511.507	Random Fieldstone Riprap Class III	243 ton	\$73.15/ton	\$17,775.45
2512.507	Gabion	72 CY	\$380.00/CY	\$27,360.00
2573.602	Rock Ditch Check	1 EA	\$500.00/EA	\$500.00
2575.603	Anchored Slope Protection	59 LF	\$65.00/LF	\$3,835.00

Site Visit

To confirm the project had reached substantial completion, Young Environmental staff visited the site on March 4, 2022, and compared it to the received plans and specifications the City provided. The site appeared to have been constructed as proposed and stabilized for winter conditions (Attachment 4). The City will be providing final restoration in the spring, including tree replacement and final seeding.

Discussion

Although the site was constructed as intended and will provide benefits to the LMRWD, the overall cost of the project changed following the managers' approval in September. The change in cost is largely related to the difference between the unit costs in the engineer's estimate and the awarded bid prices (Tables 1 and 2) because the overall quantities and extent of the project generally remained the same. To avoid disproportionally funding grant requests in the future, we recommend funding a percentage of the estimated cost not to exceed to \$75,000, rather than a lump sum.

Recommendations

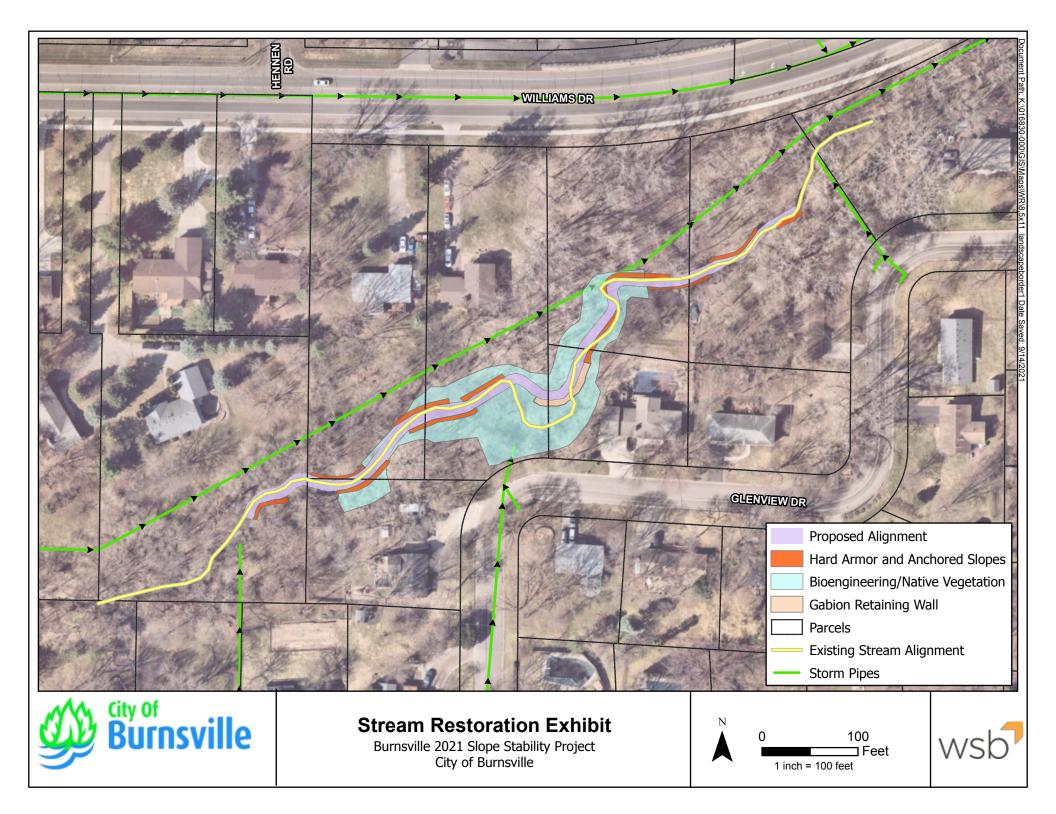
Staff recommends payment of the invoice as presented and as agreed to.

Attachments

- Attachment 1—City of Burnsville Willow Creek Stream Restoration Exhibit
- Attachment 2—Young Environmental Funding Request Memo, September 13, 2021
- Attachment 3—Burnsville Invoice, dated February 14, 2022
- Attachment 4—Photographs from March 4, 2022, Site Visit

Attachment 1

City of Burnsville Willow Creek Stream Restoration Exhibit



Attachment 2

Young Environmental Funding Request Review, September 13, 2021,



Technical Memorandum

To: Linda Loomis, Administrator

Lower Minnesota River Watershed District

From: Katy Thompson, PE, CFM

Della Schall Young, CPESC, PMP

Date: September 13, 2021

Re: Burnsville 2021 Slope Project—Funding Request Review

At the August 18, 2021, Lower Minnesota River Watershed District (LMRWD) board of managers meeting, the City of Burnsville (City) presented two projects for which it was requesting funding from the LMRWD—the I35W Trail Project and the 2021 Slope Project (also known as the Willow Creek Stabilization Project). Young Environmental provided a review of the two projects and scored them as moderate-to-low and moderate-to-high priority, respectively. The LMRWD managers requested that Young Environmental work with the City to review the projects further and make a recommendation at the September 15, 2021, board meeting for funding.

Young Environmental and the District Administrator met with the City of Burnsville on September 8, 2021, to discuss the two projects. Upon further review and discussion with the City, the I-35W Trail project is not being recommended for funding because we were unable to identify added value or benefits to the LRMWD in excess of what was previously presented. The Willow Creek Stabilization Project, however, provides quantifiable benefits to the LMRWD in terms of reduction in total suspended solids and total phosphorus loading. Young Environmental requested the City provide a specific request for the LMRWD funding contribution for Willow Creek, which is presented below.

Willow Creek Project Request

The City is requesting a grant from the LMRWD to fund an expansion of the Willow Creek Slope Stabilization project first presented to the managers at the August 18, 2021, meeting. The expansion of the project footprint will stabilize an additional 120 feet of streambank that is actively eroding. The cost for the entire project is \$462,395, and the City is requesting that the LMRWD fund \$75,000, which would cover the material and installation costs of riprap, gabions, and anchored slope protection to stabilize the

failing streambank (see attached estimate).

Funding Recommendations

We recommend the LMRWD approve the \$75,000 request from the Willow Creek Stabilization Project because the project aligns with the following issues and goals outlined in the District's Watershed Management Plan:

- Issue 3: Water Quality
- Issue 5: Erosion and Sediment Control
- Goal 2: Surface Water Management—to protect, improve, and restore surface water quality
- Goal 7: Erosion and Sediment Control—to manage erosion and control sediment discharge

Furthermore, the Willow Creek Stabilization Project follows the District's strategy of partnering with municipalities to leverage financial resources and improve the natural resources within the LMRWD boundaries.

The project is slated to be constructed in late fall 2021 to winter 2022, with final restoration in spring 2022. As part of the cooperative agreement between the LMRWD and the City for these funds, we recommend specifying they can be used for only the bank stabilization items highlighted in Attachment 2. Additionally, because of the extended window between substantial completion and final restoration, we recommend that 90 percent of the grant funds be released to the City, upon request, at substantial completion. The remaining 10 percent should be held until LMRWD staff confirm final site restoration in spring or summer 2022.

Attachments

Attachment 1—Young Environmental Review of City of Burnsville's 2021 Slope Project Funding Request

Attachment 2—City of Burnsville Willow Creek Engineers Estimate

ATTACHMENT 1 August 13, 2021 Funding Request Review Memo



Technical Memorandum

To: Linda Loomis, Administrator

Lower Minnesota River Watershed District

From: Katy Thompson, PE, CFM

Della Schall Young, CPESC, PMP

Date: August 13, 2021

Re: Burnsville 2021 Slope Project—Funding Request Review

In 2018, the City of Burnsville (City) performed a slope stability analysis as part of its asset management program. This analysis identified and estimated the risk of unstable slopes on public and private properties within the City's political boundaries. In its first phase, the analysis involved the development of a slope vulnerability model, followed by a second phase of field verifications to develop recommendations for slope mitigation, further study, or no further action. The City's analysis was similar to the Lower Minnesota River Watershed District (LMRWD) 2021 Gully Inventory and Condition Assessment, which also relied on desktop methods to identify potential gullies and conduct field surveys to verify their condition. The City has many steep ravines in various states of erosion and the slope stability analysis was used to target which ravines are most in need of maintenance. The City funds its repairs through a biannual Ravine Restoration and Slope Stabilization project included in its annual budget. In 2019, four slopes were stabilized. For 2021, one site, located in a large gully behind 3104 Glenview Drive (see attached memo from WSB and Figure 1), has been selected for repair in the fall of 2021. The severity of the erosion is threatening the home at 3104 Glenview Drive and a 72-inch storm sewer parallel to the ravine. The ravine itself flows under County Road 34 (Williams Drive) and enters the LMRWD, where it eventually discharges into the Minnesota River.

The project location is within the Black Dog Watershed Management Organization (WMO) boundary; however, it is approximately 300 feet upstream of the boundary with the LMRWD and is tributary to the Minnesota River. While not located within the LMRWD, the LMWRD managers have established precedent in funding projects outside of the District boundaries to leverage resources to protect, preserve, and manage water and natural resources within the District. Most recently, the LMRWD partnered with the Riley Purgatory Bluff Creek Watershed District to provide funding for a feasibility study

in 2016 that identified opportunities to improve Riley Creek's water quality and reduce annual sediment transport to the Minnesota River, as well as \$150,000 in funding for the construction of the Lower Riley Creek Ecological Restoration Project in 2019.

As part of the 2021 Gully Inventory and Condition Assessment, on July 21, 2021, Young Environmental Consulting Group (Young Environmental) staff visited the ravine behind 3104 Glenview Drive and confirmed the instability of the site (see attached survey report. In response to the City's request, Young Environmental completed an initial funding review. Additionally, the City found the homeowners in this area to be receptive to the project and is therefore considering expanding the original scope of the project to stabilize additional failing banks within the same ravine system to maximize the benefits of the project.

Funding Request Evaluation

LMRWD continues to receive requests from municipalities and other partners for project funding support. Historically, because these requests were infrequent and appeared to compete with other requests and priorities, decisions to provide financial assistance were not supported by documented criteria or scoring. Recently, in response to the request from the City of Carver for the levee project, Young Environmental developed the following scoring system, which was applied to the Burnsville 2021 Slope request.

The goal of the scoring system is to establish an impartial and fair evaluation of all District funding requests based on the project's alignment with the goals, policies, and strategies of the LMRWD Watershed Management Plan. Projects are scored on nine different metrics, detailed below, for a possible 82 points.

- 1. Project Type (Maximum 24 points): The Project Type Score considers whether a proposed project is tributary to an impaired waterway, if it solves an issue previously identified by the community or LMRWD plans, and whether the project is explicitly included in the community or LMRWD plans. Points are awarded based on how well the project aligns with the community or LMRWD plans.
- 2. Plan Goals (Maximum 9 points): The Plan Goals Score gives credit depending on how well-aligned a proposed project is with the goals of the LMRWD Watershed Plan. Projects are assigned a score of 0 through 9 based on how many of the District's goals are addressed.
- 3. Water Capture (Maximum 7 points): The Water Capture Score gives credit to projects that meet or exceed the standards for stormwater runoff volume management. Projects are assigned a score of 0 to 7 based on the amount of volume reduction that the proposed project provides.
- **4. Pollutant Management (Maximum 7 points):** The Pollutant Management Score gives credit to projects that meet or exceed the amount of water quality treatment provided beyond what is required for regulatory purposes. Projects without a

- pollutant reduction component will receive a score of 0, whereas those that reduce pollutant loading to downstream resources can receive a score of up to 7.
- 5. Habitat Restoration (Maximum 7 points): The Habitat Restoration Score gives credit to projects that provide habitat benefits. Projects with no habitat benefit receive a score of 0. Projects likely to achieve habitat benefits as a secondary project benefit receive a score of 3. Projects that include a replacement of the existing habitat with an improved habitat receive a score of 5. Projects that include habitat creation or enhancement as the primary purpose of the project receive a score of 7.
- 6. Bank Stabilization (Maximum 7 points): The Bank Stabilization Score gives credit to projects that restore or stabilize degraded stream banks or shorelines. A project is assigned a bank stabilization score based on the length of the stream bank or shoreline restored or stabilized and the level of existing degradation. This metric is only applied to projects with a designed restoration component (versus indirect benefits). Projects without a designed stream bank or shoreline restoration component are assigned a score of 0.
- 7. Watershed Benefits (Maximum 7 points): The Watershed Benefits Score gives credit to projects that provide benefits beyond the immediate site location. Scores are based on where the proposed project is located within the watershed, giving greater weight to those near headwaters.
- **8. Partnership Opportunities (Maximum 7 points):** The Partnership Opportunity Score gives credit to projects that allow the District to partner with other organizations. The District is interested in being a project partner with its member communities. A project receives the maximum score of 7 if one or more of the partners is a financial contributor to the project.
- **9. Public Education (Maximum 7 points):** The Public Education Score gives credit to projects that spread awareness of the District's projects and their benefits to the public. The score is based on the accessibility of the final project, giving the greatest weight to those on public lands with public access.

Using the total points scored, projects fit into one of four priority categories (low, low-to-moderate, moderate-to-high, and high), as shown in Table 1.

Table 1. LMRWD	Fundina	Request	Scorina	Priority

Project Score	Priority	Recommended Action
0–19	Low	Do not recommend funding requests at this time; additional information may be needed to evaluate the potential project more fully.

20–40	Low-to-Moderate	Work with project sponsors to incorporate more District goals, policies, or strategies.
41–61	Moderate-to-High	Consider partial funding requests with funding amount and design components that align with District priorities.
62–82	High	Recommend full funding request as presented.

The detailed scoring of the Burnsville 2021 Slope Project is provided in Table 2, below.

Table 2. City of Burnsville 2021 Slope Project Funding Request Scoring

Scoring Metric	Project Comment	Project Score	Max Points
1. Project Type	Although the Burnsville 2021 Slope Project is located within the Black Dog WMO, it is a tributary of the Minnesota River. In addition, the need to address steep slopes and ravine restoration is included in the City's five-year Capital Improvement Plan, 2040 Comprehensive Plan, and 2017 Water Resources Management Plan.	24	24
	The project addresses three of the District's goals: • Goal 2—Surface Water Management: The project proposes to stabilize an actively eroding slope that is contributing sediment and phosphorus to the Minnesota River, meeting the intent of the goal, which is to protect, improve, and restore surface water quality.		
2. Plan Goals Addressed	Goal 4—Unique Natural Resources Management: The project proposes to stabilize an eroding ravine, characteristic of the unique bluff and steep slopes landscape within the LRMWD, meeting the intent of the goal.	3	9
	Goal 7—Erosion and Sediment Control: The project proposes to prevent further erosion of the slope and restore failed banks, addressing this goal.		
3. Water Capture	The project does not provide any stormwater runoff volume management, so no points were awarded in	0	7

Scoring Metric	Project Comment	Project Score	Max Points
	this category.		
4. Pollutant Management	In its funding request, the City of Burnsville provided water quality calculations demonstrating that the project would remove large-scale erosion areas and stabilize the banks of the ravine, and would provide an annual reduction in the LMRWD of 22.25 pounds of total phosphorus and 44,500 pounds of total suspended solids.	7	7
5. Habitat Restoration	Although the planting plans have not been provided for the site, by stabilizing and revegetating the ravine, there is opportunity to improve the quality of the area's existing habitat.	5	7
6. Bank Stabilization	The primary purpose of the 2021 Burnsville Slope Project is to stabilize an existing eroded bank and ravine. The site has been evaluated by both the City and its consultants, as well as by LMRWD staff members, all of whom concur that the site is unstable and in need of restoration.	7	7
7. Watershed Benefits	The 2021 Burnsville Slope Project is located slightly above the midpoint of the subwatershed, with approximately 70 percent of the subwatershed located downstream.	5	7
8. Partnership Opportunities	The City of Burnsville has a recurring line item in its annual budget for ravine restoration projects and is a committed partner to the construction of the 2021 Slope project. The City also has a \$500,000 biannual budget item to fund these projects.	7	7
9. Public Education	The 2021 Burnsville Slope Project is located almost entirely on private lands, with a small portion of the project on public lands adjacent to County Road 34 (Williams Drive). There do not appear to be any trails or other public access to the site, which presents limited visibility of the project for the public and therefore limited opportunities for public education as part of this project.	1	7

Scoring Metric	Project Comment	Project Score	Max Points
Total Score		59	82

Project Scoring

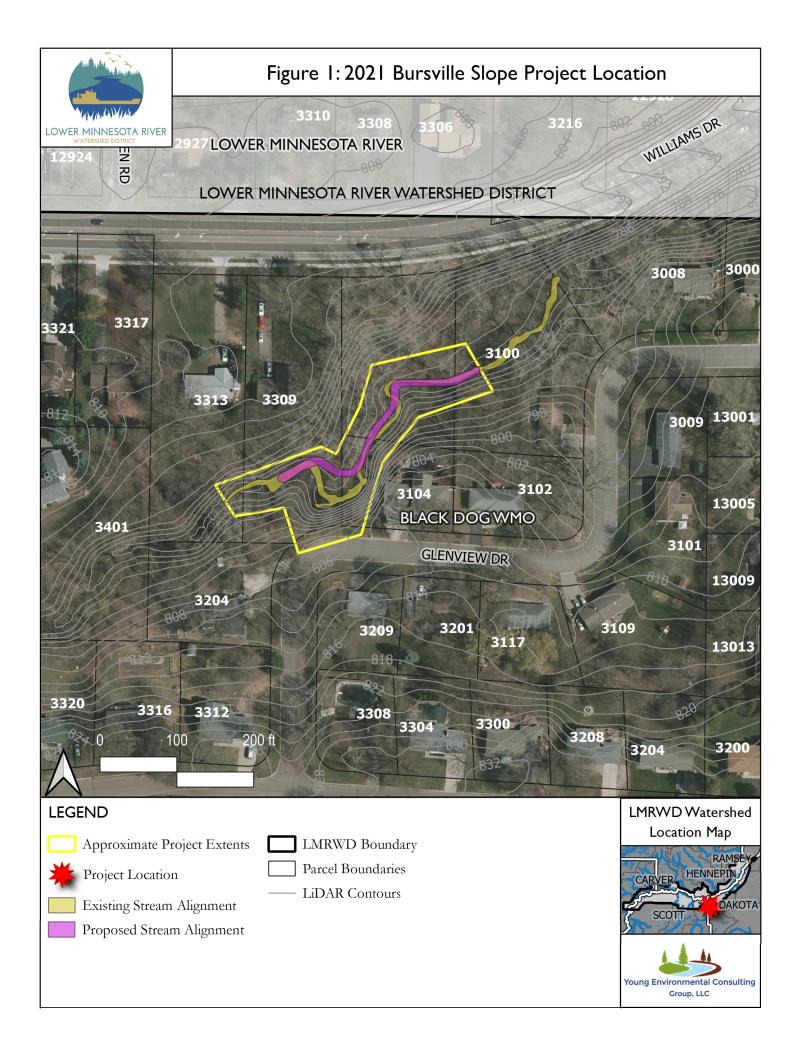
Based on the presented information, the 2021 Burnsville Slope Project received a score of 59 points out of a maximum of 82, placing it at the top of the moderate-to-high priority category, three points short of high priority status.

Funding Recommendation

Based on the observations made on July 21, 2021, if the project were located within the LMRWD boundaries, it would be ranked as having moderate erosion probability and the recommendation to monitor the site for future study and collaboration opportunities would be put forward. Because the City has requested a potential partnership with the LMRWD and is looking to maximize the restoration opportunities in the area, we recommend providing funding assistance for the development of the preliminary engineering designs for the expanded footprint and/or contributing to the cost of the construction for the overall project. Because the City has not requested a specific monetary amount from the LMRWD, staff members will continue to coordinate with the City to better understand the financial needs associated with the unfunded portion of the project to provide a funding recommendation.

Attachments

Figure 1. Project Location Map
2021 Ravine Stabilization Project Memo from WSB
LMRWD 2021 Gully 07:21–01:33 Survey Report



Attachment 2 2021 Ravine Stabilization Project Memo from WS	В



Memorandum

To: Ms. Linda Loomis, Administrator, LMRWD

From: Jen Desrude, PE, City Engineer, City of Burnsville

Jacob Newhall, PE, WSB Laura Cummings, PE, WSB

Date: June 30, 2021

Re: 2021 Ravine Stabilization Project

WSB Project No. 016830-000

BACKGROUND

In 2018, WSB performed a geohazards evaluation throughout the City of Burnsville to determine the risk of slope failure as part of their asset management program. Several failure types were evaluated including gullying, slides, river migration, and springs. 131 slopes were then ranked using the Slope Risk Matrix previously developed in collaboration with the City. Initial risk ranking results identified 12 of the 131 as mitigation recommended. In further collaboration with the City, two of these 12 slopes were removed from the list and one was added, for a new total of 11 slopes.

In 2019, four of the slopes identified as mitigation recommended were addressed. The City has since identified two additional slopes for review during the 2021 slope project.

A site visit was conducted in September 2020 to review eight slope areas. Of these eight slopes one was selected to be repaired in the fall of 2021. WSB and the City of Burnsville continue to work together to minimize the effects of slope failures including property damage, costly maintenance repairs, and threats to public infrastructure and safety.

2021 SITE

The proposed site is located north and west of 3104 Glenview Drive in the rear yard along a City drainageway. Severe erosion has occurred resulting in very steep slopes adjacent to an existing home and Glenview Drive. The drainageway is not a DNR water. See attached photos for existing conditions. There is an existing 72-inch trunk storm sewer that runs parallel to the stream. The stream drains to City storm sewer and crosses through Williams drive and continues north, ultimately discharging to the Minnesota River. While the boundaries show the project is within Black Dog Watershed Management Commission, the Lower Minnesota River Watershed District is ultimately receiving the drainage from the stream.

OBJECTIVE AND PROJECT DESIGN

The objectives of the project are as follows:

- Reduce the risk of erosion to city road, existing utilities, and adjacent home.
- Increase stability of the channel.
- Erosion reduction and ultimate downstream loading reduction in TSS and TP.

The proposed project will change the alignment to remove large scale erosion areas, and the banks will be stabilized with hard armoring and bioengineering. Gabion retaining walls will also be used along the southern side adjacent to the roadway and home to result in more gradual slopes. Grading and turf reinforcement mats will be installed along the banks to reduce erosion and stabilize the bank slopes. Removal of sloughed material will be done with the location of the new alignment. See **Figure 1** for project location and proposed improvements.

The Board of Water and Soil Resources Pollution Reduction Estimator was used to quantify the TP and TSS reduction from the project. See **Table 1** for water quality reductions made with the proposed improvements.

Table 1: Water Quality Summary

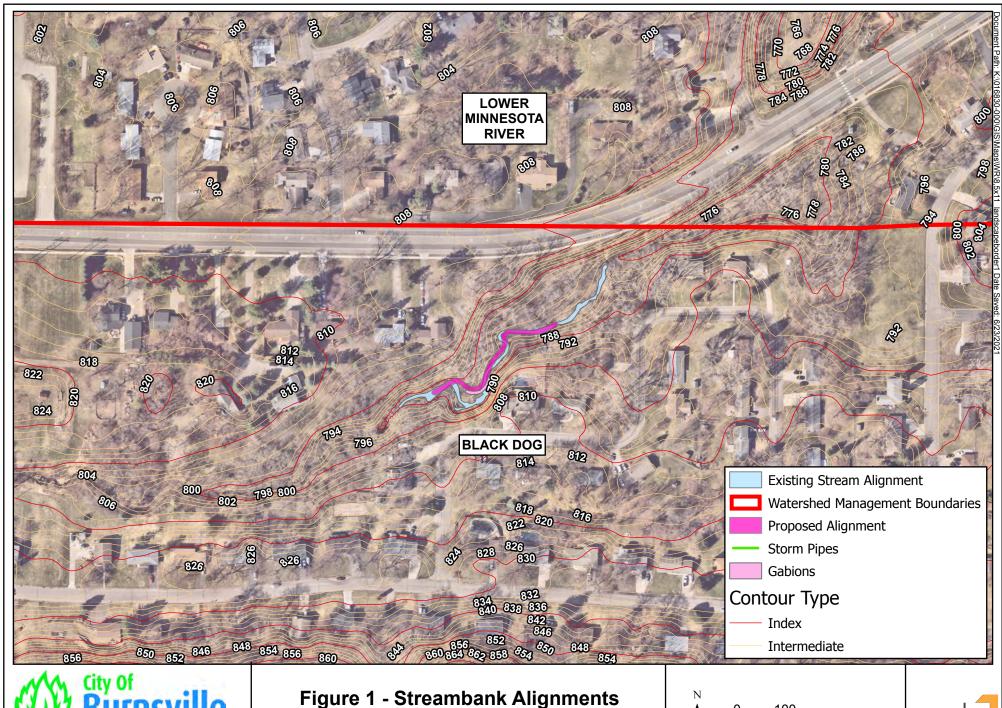
Water Quality	Reduction (pounds/year)	
Total Phosphorus	22.25	
Total Suspended Solids	44,500	

SUMMARY

The proposed improvements will help reduce erosion, benefit downstream water quality, and increase the stability of the creek and streambanks. The City of Burnsville is planning on construction in the fall of 2021. The 60% construction cost estimate is approximately \$400,000. The proposed project will alter the channel alignment, include bioengineering and rock armoring, install gabion walls, grading side slopes, and installation of geofabrics.

Attachments

- Site Photos
- Figure 1
- BWSR Water Quality Calculations



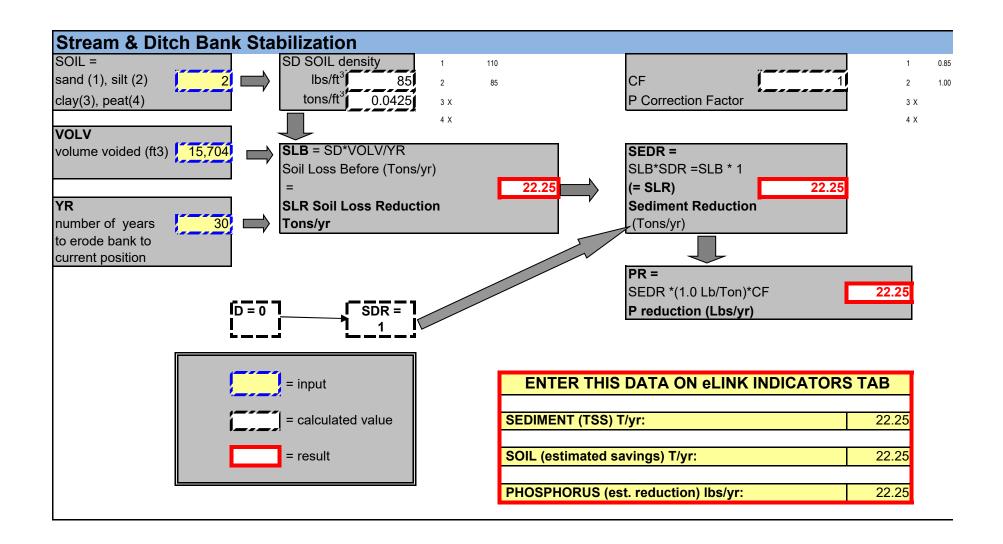


Burnsville 2021 Slope Stability Project City of Burnsville















Attachment 3 -- Gully 07:21--01:33 Survey Report

07:21-01:33			
~			
Date & Time:			
July 21, 2021 1:33 PM			
Location:			
Burnsville			
Weather:	GLENVIEW DR		
Cloudy			
Storm/Rainfall Event in the Past 24 Hours?			
No	County of Dakota, County of Scott, Three Rivers Park District, E Power		
G	ULLY INFORMATION		
Calculated Erosion Potential:	igh		
Approximate Depth: 5-	Deep (>15')		
Approximate Bottom Width: 3-	3-Medium (1'-5')		
Approximate Gully Length: 5-	5-Long (>100')		
Condition of Gully Bottom: 5-	Bare Soil		
Condition of Gully Banks: 1-	Heavy Vegetation		
Gully Bank Angles: 3-	Mid-Range (45 to 90 degrees)		
Gully Shape: 5-	V-Shaped		
Gully Material: Si	lt/Clay		
Seep: 0-	No		
Stormwater Runoff: 0-	No		
Stormwater Inputs:			
Fallen Trees: 1-	Yes		
Degradation:	3-Moderate		



Aggradation:		1-Low	
Slumping:		1-Yes	
Additional Notes:	Classification	PHigh	
	Presence of V	Vater? Yes	
	Quantity of W	/ater? Puddles/Stagnant	
	puddles of wa	ents: Large gully outside district, bottom has ater that look like they may be slowly flowing, many gully, could not get down right bank due to safety ay be rough	

Photo 1 Image



Photo 2 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Gully

Photo 2 View Direction

Upstream

Photo 2 Caption

Gully



ATTACHMENT 2 City of Burnsville's 2021 Slope Stability Project Engineer's Estimate

2021 SLOPE STABILIZATION PROJECT BURNSVILLE, MINNESOTA

Date: 9.9.2021

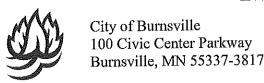
Line Item	Item Code	Description	Units	Quantity	Cost	Total Cost	LMRWD Cost	City Cost
1	2021.501	MOBILIZATION	LS	1	\$30,000.00	\$30,000.00		\$30,000.00
2	2563.601	TRAFFIC CONTROL	LS	1	\$10,000.00	\$10,000.00		\$10,000.00
3	2101.501	CLEARING	TREE	53	\$500.00	\$26,500.00		\$26,500.00
4	2101.524	GRUBBING	TREE	40	\$500.00	\$20,000.00		\$20,000.00
5	2104.502	REMOVE PIPE APRON	ΕA	1	\$1,000.00	\$1,000.00		\$1,000.00
6	2104.503	REMOVE SEWER PIPE (STORM)	LF	50	\$30.00	\$1,500.00		\$1,500.00
7	2105.601	SITE GRADING	LS	1	\$40,000.00	\$40,000.00		\$40,000.00
8	2105.607	COMMON FILL(LV)	CY	1500	\$20.00	\$30,000.00		\$30,000.00
9	2501.502	18" RC PIPE APRON	ΕA	1	\$2,500.00	\$2,500.00		\$2,500.00
10	2503.503	18" RC PIPE SEWER DES 3006 CL V	LF	74	\$80.00	\$5,920.00		\$5,920.00
11	2503.602	CONNECT TO EXISTING STORM SEWER	ΕA	1	\$2,500.00	\$2,500.00		\$2,500.00
12	2506.503	CONST DRAINAGE STRUCTURE DES 60-4020	LF	8	\$900.00	\$7,425.00		\$7,425.00
13	2511.507	RANDOM FIELDSTONE RIPRAP CLASS III	TONS	400	\$200.00	\$80,000.00	\$40,000.00	\$40,000.00
14	2511.515	GEOTEXTILE FILTER FABRIC TYPE 4	SY	110	\$5.00	\$550.00		\$550.00
15	2512.507	GABION	CY	70	\$600.00	\$42,000.00	\$21,000.00	\$21,000.00
16	2571.524	DECIDUOUS TREE 2.5" CAL B&B	TREE	5	\$600.00	\$3,000.00		\$3,000.00
17	2571.525	DECIDUOUS SHRUB NO 5 CONT	SHRB	20	\$120.00	\$2,400.00		\$2,400.00
18	2573.501	STABILIZED CONSTRUCTION EXIT	LS	2	\$1,500.00	\$3,000.00		\$3,000.00
19	2573.502	STORM DRAIN INLET PROTECTION	ΕA	1	\$300.00	\$300.00		\$300.00
20	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LF	1500	\$5.00	\$7,500.00		\$7,500.00
21	2573.602	ROCK DITCH CHECK	ΕA	2	\$10,000.00	\$20,000.00	\$10,000.00	\$10,000.00
22	2575.504	EROSION CONTROL BLANKETS CATEGORY 3N	SY	3000	\$6.00	\$18,000.00		\$18,000.00
23	2575.508	SEED MIXTURE 25-151	LB	20	\$20.00	\$400.00		\$400.00
24	2575.603	ANCHORED SLOPE PROTECTION	LF	120	\$120.00	\$14,400.00	\$4,000.00	\$10,400.00
25	2575.605	SEEDING	SY	500	\$2.00	\$1,000.00		\$1,000.00
26	2575.605	SEEDING SPECIAL	A C	0.60	\$25,000.00	\$15,000.00		\$15,000.00
27	2577.502	LIVE STAKES, DOGWOOD	ΕA	500	\$10.00	\$5,000.00		\$5,000.00
10% Conting	gency					\$40,000.00		\$40,000.00
Total						\$430,000.00	\$75,000.00	\$354,895.00
Design, Eng	jineering, Per	mits, Construction and Project Admin				\$107,500.00		\$107,500.00

Total	\$537,500.00	\$75,000.00	\$462,395.00

Attachment 3

City of Burnsville Invoice, February 14, 2022

INVOICE



INVOICE:

2022-00000006

DATE: **DUE DATE:**

02/14/2022 03/14/2022

CUSTOMER# 3231

Payment in full is due by invoice due date. Any balance due beyond that date will be considered delinquent. Return bottom portion of this invoice to ensure proper credit.

LINDA LOOMIS LOWER MINNESOTA RIVER WATERSHED DISTRICT 112 E. 5TH STREET #102 CHASKA, MN 55318

Questions contact Jen Desrude 952-895-4544

ENGINEERING DEPARTMENT

	Quantity Unit Price Total Price
	Ouantity Unit Price Total Price
Description	

LMRWD Cost Share of Willow Creek Restoration (21-604), 90% substantial completion; 10% at final restoration.

\$67,500.0000

\$67,500.00

When you provide a check as payment, you authorize us to either use the information from your check to make a one-time electronic fund transfer from your account or to process the payment as a check transaction. When we use information from your check to make an electronic fund transfer, funds may be withdrawn from your account as soon as the same day you make your payment, and you will not receive your check back from your financial institution

Invoice Total:

\$67,500.00

Prepaid Amount:

(\$0.00)

Balance Due:

\$67,500.00



CUSTOMER#	BILLING DATE	DUE DATE	INVOICE#	Total Due
3231	02/14/2022	03/14/2022	2022-00000006	\$67,500.00

Pay this Amount \$67,500.00

LINDA LOOMIS LOWER MINNESOTA RIVER WATERSHED DISTRICT 112 E. 5TH STREET #102 CHASKA, MN 55318

Payment to: City of Burnsville Accounts Receivable 100 Civic Center Pkwy Burnsville MN 55337-3817



100 Civic Center Parkway Burnsville, MN 55337

Contract Number: 21-604
Pay Request Number: 2



Page 1 of 4 Contract 21-604 Pay Voucher 2

Project Number		Project Description				
21-604		Slope and Ravine Restoration (Contract 21-604)				
Contractor:	Heselton Construction, LLC 680 N.W. 24th Street Faribault, MN 55021	Vendor Number: Up To Date:	1 12/31/2021			
Contract Amount		Funds Encumbered				
Original Contract	\$184,722.00	Original	\$184,722.00			
Contract Changes	\$2,214.17	Additional	N/A			
Revised Contract	\$186,936.17	Total	\$184,722.00			
Work Certified To Date		_				
Base Bid Items	\$169,757.40					
Contract Changes	\$2,214.17					

	Work Certified This Request	Work Certified To Date	Less Amount Retained	Less Previous Payments	Amount Paid This Request	Total Amount Paid To Date
	\$66,341.92	\$171,971.57	\$8,598.58	\$100,348.17	\$63,024.82	\$163,372.99
1	400]0	P	ercent: Retained: 5%		Perce	nt Complete: 91.99%

\$0.00

\$171,971.57

This is to certify that the items of work shown in this certificate of Pay Estimate have been actually furnished for the work comprising the above-mentioned projects in accordance with the plans and specifications heretofore approved.

Approved By

Material On Hand

Total

Jen Desrude

City/Project Engineer 12/29/2021

Date

Approved By Heselton Construction, LLC

Mark Mahowald

Contractor 12/29/2021

Date

100 Civic Center Parkway Burnsville, MN 55337

Payment Summary			-	
No.	Up To Date	Work Certified Per Request	Amount Retained Per Request	Amount Paid Per Request
1	2021-11-30	\$105,629.65	\$5,281.48	\$100,348.17
2	2021-12-31	\$66,341.92	\$3,317.10	\$63,024.82

Funding Category Name	Funding Category Number	Work Certified to Date	Less Amount Retained	Less Previous Payments	Amount Paid this Request	Total Amount Paid to Date
Storm Utility	- Italia	\$171,971.57	\$8,598.58	\$100,348.17	\$63,024.82	\$163,372.99

Accounting Number	Funding Source	Amount Paid this Request	Revised Contract Amount	Funds Encumbered to Date	Paid Contractor to Date
Storm	Utility - Storm Water - 607-4610- 463.01	\$63,024.82			\$163,372.99

Base/Alt	Line	ltem	Description	Units	Unit Price	Quantity		Amount This Request	Quantity To Date	Amount To Date
Base Bid	1	2021.501	MOBILIZATION	LS	\$10,500.00	1	0.25	\$2,625.00	0.75	\$7,875.00
Base Bid	1	2101.524	CLEARING	TREE	\$450.00	53	C	\$0.00	62	\$27,900.0
Base Bid	1	2101.524	GRUBBING	TREE	\$135.00	40	C	\$0.00	4	\$5,940.00
Base Bid	1	2104.502	REMOVE PIPE APRON	EΑ	\$450.00	1	(\$0.00		1 \$450.00
Base Bid	1	2104.503	REMOVE SEWER PIPE (STORM)	LF	\$38.00) 45	Ċ	\$0.00	4	\$1,710.0
Base Bid	1	2105.504	GEOTEXTILE FABRIC TYPE 4	SY	\$5.30	110	250	\$1,325.00	25	\$1,325.0
Base Bid	1	2105.601	SITE GRADING	LS	\$9,600.00) 1	0,5	\$4,800.00)	\$9,600.0
Base Bid	1	2105.607	COMMON FILL(LV)	CY	\$17.3	1500) 48	\$832.80	168	\$29,148.0
Base Bid	1	2501.502	18" RC PIPE APRON	ΕA	\$1,450.00	1	(\$0.00		1 \$1,450.0
Base Bid	1	2503.503	18" RC PIPE SEWER DES 3006 CL V	LF	\$91.00	97	(\$0.00	9	7 \$8,827.0
Base Bid	1	2503.602	CONNECT TO EXISTING STORM SEWER	EΑ	\$1,400.00	,	1	\$0.00		1 \$1,400.0
Base Bid	1	2506.503	CONST DRAINAGE STRUCTURE DES 48- 4020	LF	\$370.00)	3	\$0.00		\$2,960.0
Base Bid	1	2511.507	RANDOM FIELDSTONE RIPRAP CLASS III	TONS	\$73.1	5 400	243	\$17,775.45	36	\$26,772.9
Base Bid	1	2511.507	GRANULAR FILTER	CY	\$60.00	D 15	5 (\$0.00	1	0 \$0.0



Base/Alt	Line	ltem	Description	Units		Contract Quantity	Quantity This Request	Amount This Request	Quantity To Date	Amount To Date
Base Bid	1	2512.507	GABION	CY	\$380.00	60	72	\$27,360.00	72	\$27,360.00
Base Bid	1	2563.601	TRAFFIC CONTROL	LS	\$1,050.00)	1 0.25	\$262.50	1	1 \$1,050.00
Base Bid	1	2571.524	DECIDUOUS TREE 2.5" CAL B&B	TREE	\$660.00		5 (\$0.00		\$0.00
Base Bid	1	2571.525	DECIDUOUS SHRUB NO 5 CONT	SHRB	\$115.00	20	0 (\$0.00	1	\$0.00
Base Bid	1	2573.502	STABILIZED CONSTRUCTION EXIT	EΑ	\$1,750.00	:	2	\$0.00)	1 \$1,750.0
Base Bid	1	2573.502	STORM DRAIN INLET PROTECTION	ΕA	\$175.00		3	\$0.00		2 \$350.0
Base Bid	1	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LF	\$4.50	200	0	\$0.00	10	5 \$472.5
Base Bid	1	2573.602	ROCK DITCH CHECK	ΕA	\$500.00		2	\$500.00	0	2 \$1,000.0
Base Bid	1	2575.504	EROSION CONTROL BLANKETS CATEGORY 3N	SY	\$1.50	420	0 290	0 \$4,350.00	290	0 \$4,350.0
Base Bid	1	2575.504	HYDROMULCH	SY	\$0.70	230	o	0 \$0.00	D	0 \$0.0
Base Bid	1	2575.505	SEEDING	SY	\$0.5	5 20	0	0 \$0.00	0	0 \$0.0
Base Bid	1	2575.508	SEED MIXTURE 25-151	LB	\$5.0	0 1	0	0 \$0.00	0	0 \$0.0
Base Bid	1	2575.603	ANCHORED SLOPE PROTECTION	LF	\$65.0	0 11	0 5	9 \$3,835.0	0 11	7 \$7,605.0
Base Bid	1	2575.605	SEEDING SPECIAL	A C	\$770.0	0.	6 0.	6 \$462.0	0 0.	6 \$462.0
Base Bid	1	2577.502	LIVE STAKES (DOGWOOD)	ΕA	\$5.3	0 50	10	0 \$0.0	o	0 \$0.0
Base Bid	 Totals	<u> </u>					-	\$64,127.75		\$169,757.40

Project Category Total:	S		
	Category	Amount This Request	Amount To Date
Project	Category		\$169,757,40
21-604		\$64,127.75	ψ107.701 ₁

Contract	Onan	ıgc ı		lutuo					· · · · · · · · · · · · · · · · · · ·		la 411	IA
Project	СС	CC#		Item	Description	Units	1	Contract Quantity	Quantity This Request	Amount This Request	Quantity To Date	Amount To Date
21-604	wo	1	2		REMOVE MISCELLANEOUS DEBRIS	LS	\$1,102.00	1		1 \$1,102.00		1 \$1,102.0



100 Civic Center Parkway Burnsville, MN 55337

Page 4 of 4 Contract 21-604 Pay Voucher 2

21-604 WO 2 3 2502.603 DRAIN TILE L.F. \$1,112.17 1 1 \$1,112.17	1 \$1,112.1

Contract Total	\$171,971.57
 W-1	

Contract C	Contract Change Totals						
Number	Description	Amount This Request	Amount To Date				
2	Drain Tile behind Gabion	\$1,112.17	\$1,112.17				
1	Misc Debris Removal	\$1,102.00	\$1,102.00				

Mater	ial On Hand Ad	ditions			~	
Line	Item	Description	Date	Added	Comments	

Material On Hand Balance							
Line	ltem	Description	Date	Added	Used	Remaining	
]		

Attachment 4 Photographs from March 4, 2022 Site Visit



Looking upstream toward start of project from right bank at left bank anchored slope protection (grading, hydroseed and rock toe)



Looking upstream from channel at Glenview Drive construction access point at right bank anchored slope stabilization (grading, hydroseed and rock toe)

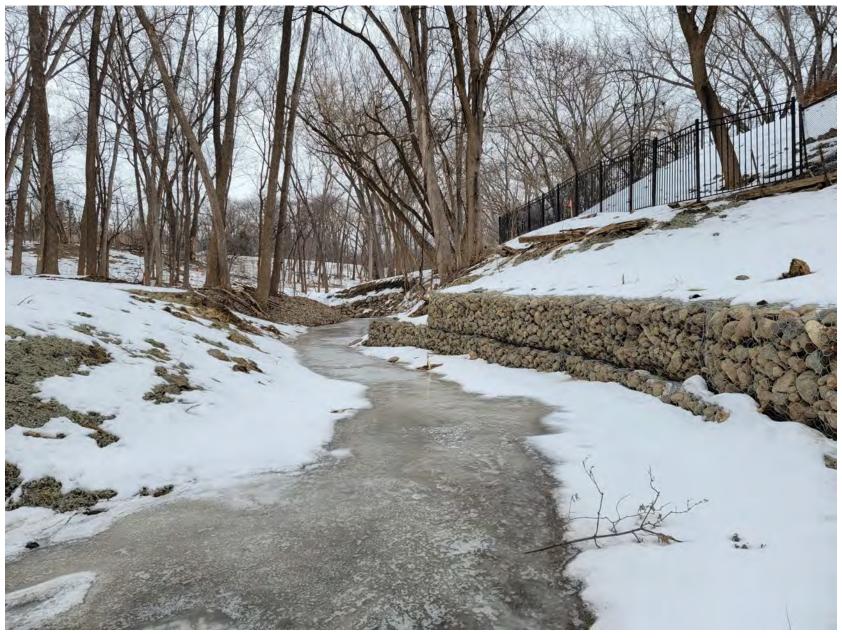


Looking at right bank anchored slope stabilization with rock toe from Glenview Drive construction access point. Appeared to be a sediment delta forming in the channel.

March 4, 2022 Site Visit



Looking downstream from Glenview Drive construction access point. Anchored slope protection with rock toe on left bank and gabion wall on right bank



Looking downstream in channel at left bank anchored slope protection (grading and hydroseed) and gabion wall on right bank



Looking upstream in channel at right bank gabions, riprap outfall, and Glenview Drive construction access



Looking upstream from left bank at gabion toe on right bank and Glenview Drive construction access point

March 4, 2022 Site Visit



Looking across at anchored slope protection on right bank downstream from gabions (log, rock, grading, and hydroseed)



Looking downstream near end of construction with anchored slope protection on right bank using large logs and rock.

Rock ditch check was not visible due to recent snow cover.

LOWER MINNESOTA RIVER WATERSHED DISTRICT BOARD OF MANAGERS WEDNESDAY, September 15, 2021 MEETING MINUTES

Manager Mraz asked if staff feels an additional meeting would be needed again next summer. Ms. Schall-Young noted that one of the reasons the LMRWD has seen so many permit reviews is that several cities do not yet have the municipal approval the LMRWD grants to cities. The LMRWD is looking to approve all the cities before next summer, so the workload will be reduced.

Manager Mraz made a motion to adjust the meeting schedule. The motion was seconded by President Hartmann. Upon a vote being taken the motion carried unanimously.

6. OLD BUSINESS

A. I-35W Frontage Trail Cost Share – Burnsville

Administrator Loomis noted at the previous meeting the Jen Desrude, Public Works Director for Burnsville, requested funding on two projects: the I-35W Trail project and the Willow Creek stabilization. Young Environmental scored the projects and the trail project did not score very high and the ravine stabilization project scored quite a bit higher. Staff continued to work with the City to find a number appropriate for the District's participation. Staff recommends the District does not participate in the I-35W Trail project. Staff recommends \$75,000 from the District to the Willow Creek stabilization project seems appropriate if the Board decides to participate.

Manager Raby thinks if they fund the project, they should fund it in phases.

Ms. Schall-Young suggested when the construction is substantially complete, the District would give them 90% and when it is fully restored they would get the remaining 10%.

Manager Raby made a motion to approve the \$75,000 contribution with 90% paid upon substantial completion and 10% after total completion. The motion was seconded by President Hartmann. Upon a vote being taken the motion carried unanimously.

B. Cost Share Application - S. Mueller, 10745 Lyndale Bluffs Trail

No new information to report other than what was reported in the Executive Summary.

C. City of Carver Levee

No new information to report other than what was reported in the Executive Summary.

D. Remote meeting participation

Administrator Loomis met with facilities and IT people at the County to discuss the District's needs for meetings and tying into their system. They now have the capacity to bring people into meetings remotely. She noted the County will be upgrading their system and there will be discussions on what is appropriate for the LMRWD to contribute to the cost of upgrades.

Manager Raby asked if he should use his own computer to join a Board meeting from a remote location? Administrator Loomis noted that is a decision that is up to the Board. Manager Raby said he is fine using his own equipment unless some special equipment is required. He would prefer not to take a LMRWD owned computer away for the months he is gone.

President Hartmann asked about the bandwidth when participating from a remote location. Administrator Loomis agreed that could be an issue. She noted that you can plug a laptop directly into the internet router using an ethernet cable to improve connectivity. Manager Raby asked if he would need to meet in a public location when in a remote location. Administrator Loomis said that is a requirement of the open meeting laws.

Manager Raby noted the Board approved funding for equipment necessary to allow Managers to participate from a remote location. Managers Raby and Amundson said they both plan to attend the October Board meeting from a remote location.

COOPERATIVE AGREEMENT FOR 21-604 WILLOW CREEK RAVINE STABILIZATION PROJECT

This Agreement is made this	day of	, 2022, by and between
the Lower Minnesota River Watershed	District, a Min	nesota watershed district (hereinafter the
"LMRWD"), and the City of Burnsville,	a Minnesota m	unicipal corporation (hereinafter the
"City").		

WITNESSETH:

WHEREAS, the LMRWD has adopted the Watershed Management Plan for the Lower Minnesota River Watershed District, 2018-2027 on October 24, 2018 (hereinafter the "Plan"), as required by Minn. Stat., § 103B and 103D and Minnesota Rules (MN Rules) 8410; and

WHEREAS, the Plan includes an Implementation Program Budget with annual funding for Cost Sharing and Water Quality Restoration; and

WHEREAS, the City presented the Willow Creek Ravine Stabilization Project (City Project 21-604) (hereinafter the "Project") to the LMRWD Board of Managers at their regular meeting on August 18, 2021 requesting a cost share from the LMRWD; and

WHEREAS, Willow Creek is a public drainageway that is located outside of the LMRWD boundary but ultimately drains to the Lower Minnesota River; and

WHEREAS, stabilizing Willow Creek is anticipated to have water quality benefits by reducing total Phosphorus by approximately 25,000 pounds per year and reducing sediment by approximately 45,000 pounds per year; and

WHEREAS, the LMRWD Board of Managers at their regular meeting on September 15, 2021 approved a \$75,000 contribution toward the Project, of which 90% shall be paid upon substantial completion and the remaining 10% after total completion; and

WHEREAS, the Burnsville City Council awarded a contract for the Project at their regular meeting on October 19, 2021 and a notice to proceed was issued on November 2, 2021 to Heselton Construction, LLC.

NOW, THEREFORE, on the basis of the premises and mutual covenants and agreements hereinafter set forth, the parties agree as follows:

1. The Project consists of improvements to Willow Creek as shown in Attachment A.

- 2. The City will pay the contractor and all other expenses related to the construction of the Project and will keep and maintain complete records of such costs incurred.
- 3. The LMRWD will reimburse the City \$75,000 for construction costs related to the Project. Ninety percent (90%) reimbursement will occur at the time of substantial completion and the remaining ten percent (10%) will occur after total completion. All costs of the Project incurred in excess of the reimbursement amount of \$75,000, including all costs incurred in excess of estimated project costs due to unforeseen conditions or any other cause, shall be borne by the City or secured by the City from other sources.
- 4. All City books, records, documents, and accounting procedures related to the Project are subject to examination by the LMRWD.
- 5. The City will secure all necessary local, state, or federal permits required for construction of the Project.
- 6. The Project is constructed on land owned or easements held by the City.
- 7. The City will have ownership of the associated improvements and will maintain them in good condition in perpetuity or until such time as they are replaced with like improvements.
- 8. The City will defend, indemnify, protect, and hold harmless the LMRWD and its agents, officers, and employees, from any claims arising out of the design, construction, or maintenance of the Project, including environmental claims. Nothing herein shall be deemed a waiver of the limitations of liability in Minnesota Statutes, Chapter 466.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized officers on behalf of the parties as of the day and date first above written.

LOWER MINNESOTA RIVER WATERSHED DISTRICT	CITY OF BURNSVILLE
By: Its President	By:
And by:	Its Mayor And by:
Its Administrator	Its Manager

Attachment A Construction Plans (or Exhibit)

