



Please note the Carver County Government is closed therefore the meeting will be held online.

PLEASE CONTACT DISTRICT ADMINISTRATOR, LINDA LOOMIS FOR DIRECTIONS ON HOW TO PARTICIPATE.

LOWER MINNESOTA RIVER WATERSHED DISTRICT

Lower Minnesota River Watershed District

7:00 PM

Wednesday, May 20, 2020

Carver County Government Center

602 East Fourth Street, Chaska, MN 55318

Agenda Item	Discussion
1. Call to order	A. Roll Call
2. Approval of agenda	
3. Citizen Forum	<i>Citizens may address the Board of Managers about any item not contained on the regular agenda. A maximum of 15 minutes is allowed for the Forum. If the full 15 minutes are not needed for the Forum, the Board will continue with the agenda. The Board will take no official action on items discussed at the Forum, with the exception of referral to staff or a Board Committee for a recommendation to be brought back to the Board for discussion or action at a future meeting.</i>
4. Consent Agenda	<p><i>All items listed under the consent agenda are considered to be routine by the Board of Managers and will be enacted by one motion and an affirmative vote of a majority of the members present. There will be no separate discussion of these items unless a Board Member or citizen request, in which event, the items will be removed from the consent agenda and considered as a separate item in its normal sequence on the agenda.</i></p> <p>A. Approve Minutes March 18, 2020 Regular Meetings</p> <p>B. Receive and file February 2020 Financial reports</p> <p>C. Approval of Invoices for payment</p> <ul style="list-style-type: none"> i. Liberty Mutual Insurance Company - annual payment for surety bond ii. Frenette Legislative Advisors - for April 2020 lobbying services iii. Rinke Noonan Attorneys at Law - for March 2020 legal services iv. Star Tribune - for public hearing legal notice publication v. TimeSaver Off Site Secretarial Service - for preparation of February meeting minutes vi. HDR Engineering , Inc. - for website maintenance and development of rules pages vii. Naiad Consulting, LLC - for January, February and March 2020 administrative services, mileage and expenses viii. Young Environmental Consulting Group - for March 2020 technical services
5. New Business/ Presentations	<p>A. Metropolitan Airport Commission presentation</p> <p>B. MAWD Dues</p> <p>C. Larson 2020 Cost Share Application - 1033 Sunny Ridge Drive, Carver</p>

6. Old Business	A. City of Carver Levee B. Remote meeting participation - no new information to report C. Dredge Management <ul style="list-style-type: none"> i. Vernon Avenue Dredge Material Management site ii. Private Dredge Material Placement D. Watershed Management Plan E. 2020 Legislative Action F. Education & Outreach - no new information to report G. LMRWD Projects - See Administrator Report for project updates <i>(only projects that require Board action will appear on the agenda. Informational updates will appear on the Administrator Report)</i> <ul style="list-style-type: none"> i. Eden Prairie Study Area 3 ii. Gully Inventory and Condition Assessment iii. 2020 Trout Stream Gap Analysis & Long Term Strategic Management Plan H. Project Reviews - See Administrator Report for project updates <i>(only projects that require Board action will appear on the agenda. Informational updates will appear on the Administrator Report)</i> <ul style="list-style-type: none"> i. Peterson Farms, LLC Road Maintenance Review (Permit No. 2020_100) ii. Hennepin County Regional Rail Authority Trail repair iii. 565 Lakota Lane, Chanhassen, variance request iv. Structures, Inc., Chaska I. MPCA Soil Reference Values - No new information since last update
7. Communications	A. Administrator Report B. President C. Managers D. Committees E. Legal Counsel F. Engineer
8. Adjourn	Next meeting of the LMRWD Board of Managers is 7:00pm Wednesday, June 20, 2020

Upcoming meetings/Events

- UMWA - Thursday, May 21, 2020, 12:30pm to 1:30pm, check with District Administrator to join
- USACE River Resource Forum #117 - August 25-26, Savage City Hall
- USACE River Resource Forum #118 - December 1-2, MN Valley US Fish & Wildlife Service Visitor's Center, Bloomington, MN

For Information Only

- WCA Notices
 - City of Shakopee - Notice of Application - Ridge Creek, residential development, (Prior Lake Outlet Channel realignment. Notice of Decision has been extended to May 22, 2020. LMRWD provided comments to the city May 7, 2020
- DNR Public Waters Work permits
 - None
- DNR Water Appropriation permits
 - City of Chanhassen - request for comment on construction dewatering for placement of a sanitary sewer line.



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Minutes of Regular Meeting

Board of Managers

Wednesday, April 15, 2020

Carver County Government Center, 602 East 4th Street, Chaska, MN 7:00 p.m.

Approved _____, 2019

1. CALL TO ORDER AND ROLL CALL

On Wednesday, April 15, 2020, at 7:12 PM, President Hartmann called to order the meeting of the Board of Managers of the Lower Minnesota River Watershed District (LMRWD) and asked for roll call to be taken. The meeting was convened on-line due to a declaration of a peacetime emergency by Governor Walz. The following Managers were present: Manager Adam Frey, and President Jesse Hartmann. Manager Dave Raby joined the meeting at 7:15pm. In addition, the following were also on-line: Linda Loomis, Naiad Consulting, LLC, LMRWD Administrator; Della Schall Young, Young Environmental Consulting Group, LLC, Technical Consultant; John Kolb, Rinke Noonan, Attorneys at Law, Legal Counsel; Lisa Frenette, Frenette Legislative Advisors, lobbyist for the LMRWD; and Lindsey Albright, Dakota County Soil & Water Conservation District.

2. APPROVAL OF THE AGENDA

Administrator Loomis said she had no additions or corrections to the Agenda.

President Hartmann made a motion to approve the Agenda. The motion was seconded by Manager Frey. Upon a vote being taken the following voted in favor of: Frey, and Hartmann, the following voted against: none and the motion carried.

3. CITIZEN FORUM

Administrator Loomis said she had not received any communications from anyone that wished to address the Board.

4. CONSENT AGENDA

President Hartmann introduced the item.

A. Approve Minutes of the February 19, 2020 Regular Meeting

B. Receive and file February 2020 Financial reports

C. Approval of Invoices for payment

- i. Coalition for A Clean Minnesota River - 2019 payment for water storage initiative
- ii. Daniel Hron - for March & April 2020 office rent
- iii. Metro Sales - payment on copier maintenance agreement
- iv. Frenette Legislative Advisors - for March 2020 lobbying services
- v. Rinke Noonan Attorneys at Law - February 2020 legal services
- vi. US Bank Equipment Finance - for May 2020 copier lease payment
- vii. Scott County - fee charged for verifying levy for 2019 audit
- viii. Young Environmental Consulting Group - for December 2019 technical services

ix. Young Environmental Consulting Group - for February 2020 technical services

President Hartmann made a motion to approve the Consent Agenda. The motion was seconded by Manager Frey. Upon a vote being taken the following voted in favor of the motion: Frey, and Hartmann, the following voted against: None. (Manager Raby joined the meeting at this point)

5. NEW BUSINESS

There was no new business.

6. OLD BUSINESS

A. City of Carver Levee

Administrator Loomis said she had nothing additional to report other than what was included in the Executive Summary. She noted that LMRWD staff is meeting with the City on Friday.

B. Remote meeting participation

No new information to report since last update.

C. Dredge Management

i. Vernon Avenue Dredge Material Management site

Administrator Loomis said she is working to set up a meeting with terminal operators to discuss the construction this fall.

President Hartmann asked what might affect the construction schedule.

Administrator Loomis said the timing of the project has to do with the level of the river. Typically fall is the period of the year when the water levels are the lowest. Ms. Young said the level of the river is the primary concern and that the LMRWD was also concerned with the private dredge material. She noted that ideally private material would be removed from the site prior to construction. By scheduling construction for late fall it gives enough time for private dredge material to dry out for easier removal. She noted that typically it is preferred to carry out this type of construction activity in the late fall to early winter

ii. Private Dredge Material Placement

See above discussion of dredge material management site.

D. Watershed Management Plan

Administrator Loomis said the most of the cities within the LMRWD were waiting for the rules to be adopted before they began the work of amending their official controls. She said that therefore the majority of the cities will not be able to meet the May 1, 2020 deadline set by the LMRWD. Several cities have requested extensions beyond the May 1 deadline. She also noted some cities want to wait until a face to face public hearing can be held. Staff discussed extending the deadline and is recommending extending the deadline to September 1. Administrator Loomis said the rules and permits pages of the website went live today so all permits can be applied for online.

Manager Raby made a motion to approve extending the official control to September 1, 2020. The motion was seconded by President Hartmann. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby, the following voted against: None.

Administrator Loomis said Board will be asked to approve a fee schedule at the May meeting. She noted the District has not charged fees for project reviews before. President Hartmann asked how the recommended fees compare to other watershed Districts. Ms. Young said the fees presented are in line with other watersheds.

Manager Raby asked if the fees are enough to cover the estimated costs for the completing reviews. Ms. Young said that at the moment they are not sufficient and are aligned with the fees charged by surrounding watershed districts. She noted that reviewing projects in High Value Resource Areas may align better. She noted that the fees do not necessarily correlate with the complexity of a project; that sometimes smaller projects take more time and are charged less.

She said the majority of the reviews that will be conducted by the District will be MNDOT projects and will not be charged a fee. Manager Raby asked if this is a result of the reviews being conducted by the local entity. Ms. Young said that is correct.

Attorney Kolb noted that project reviews should be structured to be revenue neutral. Fees should cover the actual cost realized by the District to permit and inspect projects. He noted that the District has the ability to change the fee schedule as it moves forward and has real day to day experience with the cost of projects reviews and oversight.

E. 2020 Legislative Action

Administrator Loomis said she didn't have anything to report and asked Ms. Frenette to report. Ms. Frenette said the legislature has moved back in to action. She said she has spoken with Senators Ingebrigtsen and Hall about how important it is to the LMRWD request to reallocate money from the dredge site to replace the grant that for the Seminary Fen Ravine stabilization that was lost. Representative Cantrell has had the bill heard in the house Environmental Committee and it was laid over for inclusion in the omnibus bill.

She noted that a Freeway Landfill Bill was being heard in the Judiciary Committee. The Bill deals with the ability of property owner to benefit from clean up of the property by the State.

She noted next year's funding will be tight with the state of the economy. President Hartmann asked how it will be. Ms. Frenette said it looks pretty bad.

F. Education and Outreach Plan

No information to report since last update.

G. LMRWD Projects

(only projects that require Board action will appear on the agenda. Informational updates will appear on the Administrator Report)

i. West Chaska Creek

Administrator Loomis said this project is in the 2018 capital improvement plan. She said a cost share agreement between the Carver County WMO and the LMRWD for this project id before the Board for approval and execution authorization. The agreement has been reviewed by legal counsel who recommended some edits. CCWMO accepted the edits and staff is recommending approval. The term of the agreement will end 10 years after the completion of construction. Contribution by the LMRWD is \$50,000.

Manager Raby asked what the projected total cost is. Administrator Loomis said the total for phase one and two is over \$1.5 million. [Upon review of the project after the meeting Administrator Loomis corrected the cost of the project, which is estimated to cost \$352,230.]

Attorney Kolb noted the amount of contribution by the LMRWD was not apportioned according to a percentage but on the benefits of the project to the District.

Manager Raby made a motion to approve the agreement and authorize execution. The motion was seconded by President Hartmann. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

H. Project/Plan Reviews

(only projects that require Board action will appear on the agenda. Informational updates will appear on the Administrator Report)

I. MPCA Soil Reference Values - no change since last update

No new information since last update.

7. COMMUNICATIONS

A. Administrator Report: Administrator Loomis said there is a link to the Jonathan Carver Parkway project that was added to the report after its initial posting to the website.

She noted that after she had posted the report to the website she received an update on the study Freshwater is conducting regarding the contaminant nonyphenol in the river sediments. Freshwater had expected to have the report complete by the end of June, however the St. Croix Research Station was locked down in March. Work on the project must wait until the lock down ends.

Administrator Loomis reported on a meeting with MNDOT regarding Trunk Highway 13, which she and Ms. Young attended today. She explained details of the proposed changes to the roadway.

President Hartmann asked about the amount of per diem that Managers are allowed. Administrator Loomis said that the Board approved increasing the per diem to the higher amount allowed by 2019 legislation. The higher amount takes effect in 2020 and was budgeted for. Manager Raby reminded the Board that they had agreed to wait until 2020 so that increase could be included in the budget.

Administrator Loomis commented on the memo the LMRWD received from Hennepin County that notified the LMRWD that tax settlements may be impacted by COVID-19. She has not received any such messages from other counties, but assumes that they may have similar situations.

B. Managers: No report.

C. Committees: No report

D. Legal Counsel: No Report

E. Engineer: No report

8. ADJOURN

President Hartmann adjourned the meeting at 7:50pm. Manager Frey seconded the motion.

Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

The next meeting of the LMRWD Board of Managers will be 7:00, Wednesday, May 1, 2020 and will be held at the Carver County Government Center, 602 East 4th Street, Chaska, MN. Electronic access will also be available.

Dave Raby, Secretary

Attest:

Linda Loomis, Administrator

Item 4.B.
LMRWD 5-20-20

BEGINNING BALANCE	31-Mar-20	\$ 2,403,547.04
ADD:		
General Fund Revenue:		
		<u>\$ -</u>
Total Revenue and Transfers In		\$ -
DEDUCT:		
Warrants:		
423133	Liberty Mutual Insurance Co. Annual Surety Bond premuim	\$ 180.00
423341	Frenette Legislative Advisors April 2020 lobbying services	\$ 1,666.67
423356	Rinke Noonan Attorneys at Law February 2020 legal services	\$ 1,219.00
423361	Star Tribune Public hearing legal notice publication	\$ 1,243.20
100012482	TimeSaver Off Site Secretarial February 2020 meeting minute prep	\$ 148.00
100012596	HDR Engineering, Inc. Website maintenance & rules pages	\$ 3,947.47
100012603	Naiad Consulting, LLC Jan, Feb, Mar 2020 admin services	\$ 31,961.67
100012615	Young Environmental Consulting March 2019 technical services	\$ 44,171.81
JE	Carver County Finance Dept. Q1 2020 Financial services payment	\$ 1,251.60
		<u>\$ -</u>
Total Warrants/Reductions		<u>\$ 85,789.42</u>
ENDING BALANCE	30-Apr-20	<u><u>\$ 2,317,757.62</u></u>

EXPENDITURES	2020 Budget	April Actual	YTD 2020	Over (Under) Budget
Administrative expenses	\$ 250,000.00	\$ 39,582.49	\$ 54,634.97	\$ (195,365.03)
Cooperative Projects				
Eden Prairie Bank Stabilization Area #3	\$ 35,000.00	\$ -	\$ 2,352.21	\$ (32,647.79)
Gully Erosion Contingency Fund		\$ 6,399.56	\$ -	\$ -
USGS Sediment & Flow Monitoring	\$ 19,700.00	\$ -	\$ -	\$ (19,700.00)
Ravine Stabilization at Seminary Fen in Chaska	\$ 55,200.00	\$ -	\$ -	\$ (55,200.00)
Riley Creek Cooperative Project with RPBCWD	\$ 74,565.67	\$ -	\$ -	\$ (74,565.67)
509 Plan Budget				
<i>Resource Plan Implementation</i>				
TH 101 Shakopee Ravine	\$ 35,000.00	\$ -	\$ -	\$ (35,000.00)
Assumption Creek Hydrology Restoration		\$ -	\$ -	\$ -
Carver Creek Restoration	\$ 15,000.00	\$ -	\$ -	\$ (15,000.00)
Groundwater Screening Tool Model	\$ 50,000.00	\$ -	\$ -	\$ (50,000.00)
Eagle Creek (East Branch) Project		\$ -	\$ -	\$ -
Minnesota River Floodplain Model Feasibility Study		\$ -	\$ -	\$ -
Schroeder Acres Park Stormwater Mgmt Proj	\$ 181,055.00	\$ -	\$ -	\$ (181,055.00)
PLOC Realignment/Wetland Restoration		\$ -	\$ -	\$ -
Spring Creek Project		\$ -	\$ -	\$ -
West Chaska Creek		\$ -	\$ -	\$ -
Sustainable Lakes Management Plan (Trout L	\$ 50,000.00	\$ -	\$ 1,223.62	\$ (48,776.38)
Geomorphic Assessments (Trout Streams)	\$ 50,000.00	\$ -	\$ -	\$ (50,000.00)
Paleolimnology Study (Floodplain Lakes)		\$ -	\$ -	\$ -
Fen Stewardship Program		\$ 15,230.00	\$ 34,028.45	\$ 34,028.45
District Boundary Modification		\$ -	\$ -	\$ -
East Chaska Creek Bank Stabilization Project		\$ 4,504.55	\$ 31,629.50	\$ 31,629.50
East Chaska Creek Treatment Wetland Project		\$ -	\$ -	\$ -
Minnesota River Sediment Reduction Strategy		\$ -	\$ -	\$ -
Seminary Fen - gap analysis		\$ -	\$ -	\$ -
Seminary Fen C2 Ravine Stabilization	\$ -	\$ -	\$ 97.50	\$ 97.50
Data Assessments and Program Review		\$ -	\$ -	\$ -
Dakota County Fen Management Study	\$ 25,000.00	\$ -	\$ -	\$ (25,000.00)
Riley Creek Cooperative Project		\$ -	\$ -	\$ -
Local Water Management Plan reviews	\$ 8,000.00	\$ -	\$ 3,277.25	\$ (4,722.75)
Project Reviews	\$ 20,000.00	\$ 5,964.50	\$ 13,586.40	\$ (6,413.60)
<i>Monitoring</i>	\$ 65,000.00	\$ -	\$ -	\$ (65,000.00)
<i>Watershed Management Plan</i>	\$ 56,000.00	\$ 13,354.97	\$ 20,849.07	\$ (35,150.93)
<i>Public Education/CAC/Outreach Program</i>	\$ 30,000.00	\$ 222.05	\$ 5,222.05	\$ (24,777.95)
<i>Cost Share Program</i>	\$ 20,000.00	\$ -	\$ -	\$ (20,000.00)
Nine Foot Channel				
Transfer from General Fund	\$ 80,000.00	\$ -	\$ -	\$ (80,000.00)
Dredge Site Improvements	\$ 315,000.00	\$ 531.30	\$ 2,679.90	\$ (312,320.10)
Total:	\$ 1,184,520.67	\$ 85,789.42	\$ 169,580.92	\$ (1,069,574.72)



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting
Wednesday, May 20, 2020

Agenda Item

Item 5. A. - Metropolitan Airport Commission presentation

Prepared By

Linda Loomis, Administrator

Summary

Jennifer Gora from the Metropolitan Airport Commission will participate in the virtual meeting to update the Board with activities at the Minneapolis/St. Paul Airport.

Attachments

No attachments

Recommended Action

No action recommended



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting
Wednesday, May 20, 2020

Agenda Item

Item 5. B. - MAWD Dues

Prepared By

Linda Loomis, Administrator

Summary

The LMRWD received notice that it is time to pay annual dues to MAWD. Payment of dues has been waiting until the Board of Managers had an opportunity to discuss payment. Dues are \$7,500 and documentation received from MAWD is attached for the Board's review.

This is the second notice for payment.

Attachments

2020 MAWD dues memo request for payment

Recommended Action

Motion to authorize payment of MAWD annual dues



Minnesota Association of Watershed Districts, Inc.
www.mnwatershed.org | 651-440-9407

Memo

DATE: January 16, 2020 - 1st Notice **March 10, 2020 - 2nd Notice**

TO: Watershed District Administrators

FROM: Emily Javens, Executive Director

CC: MAWD President Mary Texer, Treasurer Sherry Davis White, Co-Treasurer Jackie Anderson
MAWD Accountant Angie Fischer Obremski

RE: 2020 ANNUAL DUES STATEMENT

Please find attached the 2020 MAWD Membership Dues Worksheet that shows the amounts due from each watershed organization to be members of MAWD this year. The dues formula remained the same from last year, but your dues amount may have gone up or down based on the updated taxable market values for your watershed. The current dues payment for watershed districts is equal to 0.5% of each watershed district's maximum general levy as defined in statute (before applying the \$250,000 levy limit), not to exceed \$7,500. Dues for water management organizations will remain at \$500 for 2020.

2020 WD Dues = 2017 Taxable Market Value x 0.00048 x 0.005, not to exceed \$7,500
2019 WMO Dues = \$500

Please remit payment by February 28, 2020 to the MAWD Accountant:

MN Association of Watershed Districts
c/o Obremski Ltd.
1005 Mainstreet
Hopkins, MN 55343

Thank you for your support!

Attachments: 2020 MAWD Dues Worksheet
BWSR Memo dated July 17, 2018 re: 2018 Taxable Market Values

2020 MAWD Membership Dues

WATERSHED DISTRICT NAME	Estimated Market Values	2020 MAWD Dues
BEAR VALLEY	221,457,700	531
BELLE CREEK	415,815,100	998
BOIS DE SIOUX	4,559,626,000	7,500
BROWN'S CREEK	1,938,920,100	4,653
BUFFALO CREEK	2,322,046,700	5,573
BUFFALO-RED RIVER	8,958,175,200	7,500
CAPITOL REGION	22,568,389,100	7,500
CARNELIAN MARINE ST. CROIX	1,706,562,200	4,096
CEDAR RIVER	2,907,759,700	6,979
CLEARWATER RIVER	1,633,188,700	3,920
COMFORT LAKE - FOREST LAKE	2,068,377,700	4,964
COON CREEK	16,123,925,700	7,500
CORMORANT LAKES	578,953,800	1,389
CROOKED CREEK	379,939,000	912
HERON LAKE	2,502,098,000	6,005
HIGH ISLAND	1,152,024,400	2,765
JOE RIVER	233,271,200	560
KANARANZI-LITTLE ROCK	1,703,696,000	4,089
LAC QUI PARLE-YELLOW BANK	3,041,400,900	7,299
LOWER MINNESOTA RIVER	10,234,630,000	7,500
MIDDLE FORK CROW RIVER	1,816,448,800	4,359
MIDDLE SNAKE TAMARAC RIVERS	2,590,548,300	6,217
MINNEHAHA CREEK	54,724,737,200	7,500
NINE MILE CREEK	20,812,262,300	7,500
NORTH FORK CROW RIVER	1,438,556,400	3,453
OKABENA-CHEDA	999,289,500	2,398
PELICAN RIVER	2,199,426,700	5,279
PRIOR LAKE-SPRING LAKE	4,169,842,200	7,500
RAMSEY-WASHINGTON METRO	16,827,737,100	7,500
RED LAKE	8,335,247,800	7,500
RICE CREEK	22,885,493,500	7,500
RILEY-PURGATORY-BLUFF CREEK	14,968,773,000	7,500
ROSEAU RIVER	769,910,800	1,848
SAND HILL RIVER	1,130,955,600	2,714
SAUK RIVER	8,693,633,700	7,500
SHELL ROCK RIVER	2,095,326,400	5,029
SOUTH WASHINGTON	12,751,609,300	7,500
STOCKTON-ROLLINGSTONE WS	512,233,500	1,229
TURTLE CREEK	1,564,576,100	3,755
TWO RIVERS	1,235,002,900	2,964
UPPER MINNESOTA RIVER	1,391,288,200	3,339
VALLEY BRANCH	4,778,103,200	7,500
WARROAD	374,141,600	898
WILD RICE	3,644,267,200	7,500
YELLOW MEDICINE RIVER	2,510,395,200	6,025
TOTALS	278,470,063,700	224,241
WATERSHED MANAGEMENT ORGANIZATIONS		500

Notes:

Dues Calculation = Estimated Market Values x 0.00048 x 0.005, capped at \$7,500

2019 Estimated Market Values Source: BWSR Memorandum, June 21, 2019

Memo

Date: June 21, 2019

To: Watershed District Administrators and Managers

From: Annie Felix-Gerth, Water Programs Coordinator

Cc: Emily Javens, MAWD

Rob Sip, RRWMB

BWSR: John Jaschke, Angie Becker Kudelka, Kevin Bigalke, Dave Weirens, Jeremy Olson,
Regional Managers and Board Conservationists

RE: 2019 Estimated Market Values

Please find attached a table containing the recently released total estimate market values (EMV) for 2019 from the Minnesota Department of Revenue. The 2019 abstract of tax list was used as the basis for calculating the table.

In order to determine the annual maximum General Fund levy for a watershed district, the EMV listed in the table must be multiplied by 0.048 percent (0.00048) and then compared to the maximum General Fund levy limit of \$250,000. Use whichever value is less. See Minn. Stat. § 103D.905, Subd. 3 for reference.

Please contact me if you have any questions,

Annie Felix-Gerth

Annie.Felix-gerth@state.mn.us | 651-238-0677

Attachment: Taxes Payable 2019 Estimated Market Values For Watershed Districts in Minnesota

Taxes Payable 2019 - Estimated Market Values for Watershed Districts in Minnesota

Watershed Name	Total EMV (\$)	Watershed Code
Bear Valley Watershed District	221,457,700	001
Belle Creek Watershed District	415,815,100	003
Bois De Sioux Watershed District	4,559,626,000	031
Browns Creek Watershed District	1,938,920,100	069
Buffalo Creek Watershed District	2,322,046,700	005
Buffalo-Red River Watershed District	8,958,175,200	007
Capitol Region Watershed District	22,568,389,100	070
Carnelian-Marine-St. Croix Watershed District	1,706,562,200	010
Cedar River Watershed District	2,907,759,700	002
Clearwater River Watershed District	1,633,188,700	009
Comfort Lake-Forest Lake Watershed District	2,068,377,700	071
Coon Creek Watershed District	16,123,925,700	013
Cormorant Lakes Watershed District	578,953,800	015
Crooked Creek Watershed District	379,939,000	016
Heron Lake Watershed District	2,502,098,000	024
High Island Watershed District	1,152,024,400	018
Joe River Watershed District	233,271,200	020
Kanaranzi-Little Rock Watershed District	1,703,696,000	021
Lac qui Parle-Yellow Bank Watershed District	3,041,400,900	022
Lower Minnesota River Watershed District	10,234,630,000	060
Middle Fork-Crow River Watershed District	1,816,448,800	074
Middle-Snake-Tamarac Rivers Watershed District	2,590,548,300	026
Minnehaha Creek Watershed District	54,724,737,200	062
Nine Mile Creek Watershed District	20,812,262,300	058
North Fork Crow River Watershed District	1,438,556,400	008
Okabena-Ocheda Watershed District	999,289,500	028
Pelican River Watershed District	2,199,426,700	030
Prior Lake-Spring Lake Watershed District	4,169,842,200	032
Ramsey-Washington Metropolitan Watershed District	16,827,737,100	034
Red Lake Watershed District	8,335,247,800	036
Rice Creek Watershed District	22,885,493,500	038
Riley-Purgatory-Bluff Creek Watershed District	14,968,773,000	064
Roseau River Watershed District	769,910,800	040
Sand Hill Watershed District	1,130,955,600	042
Sauk River Watershed District	8,693,633,700	043
Shell Rock River Watershed District	2,095,326,400	073
South Washington Watershed District	12,751,609,300	014
Stockton-Rollingstone-Minnesota City Watershed District	512,233,500	044
The Two Rivers Watershed District	1,564,576,100	050
Turtle Creek Watershed District	1,235,002,900	048
Upper Minnesota River Watershed District	1,391,288,200	052
Valley Branch Watershed District	4,778,103,200	054
Warroad Watershed District	374,141,600	056
Wild Rice Watershed District	3,644,267,200	066
Yellow Medicine River Watershed District	2,510,395,200	068



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting
Wednesday, May 20, 2020

Agenda Item

Item 5. C. - Larson 2020 Cost Share Application - 1033 Sunny Ridge Drive, Carver

Prepared By

Linda Loomis, Administrator

Summary

The LMRWD received an cost share application from the homeowner at 1033 Sunny Ridge Drive, Carver, Renae Larson.

The application is for the construction of a rain garden in the front yard of the home that will capture rain water from the street in front of the home and driveway. Pierson Garden and Landscape estimated the cost for the project to be \$5,878.13. The LMRWD Cost Share program allows for grants of 50% of the project cost up to a maximum of \$2,500. 50% of the cost of this project is \$2,939.065 so the homeowner is eligible to receive \$2,500. Rain gardens are allowed projects under the program.

Attachments

Larson Cost Share Application
Larson Cost Share Worksheet
County Property report card
Location map

Recommended Action

Motion to approve cost share application for 1033 Sunny Ridge Drive



LOWER MINNESOTA RIVER
WATERSHED DISTRICT

Cost share grant application 2020

Application type (check one) ☒ Homeowner ☐ Non-profit - 501(c)(3) ☐ School
☐ Business or corporation ☐ Public agency or local government unit

Project type (check all that apply) ☒ Raingarden ☐ Vegetated Swale ☒ Infiltration Basin
☐ Wetland restoration ☐ Lake/creek/wetland buffer ☐ Conservation practice
☐ Shoreline/bank stabilization ☐ Pervious hard surface
☒ Other Pollinator habitat garden

Applicant Information

Name of Organization or Individual Applying for Grant (to be named as Grantee):

Renee Larson

Address (street, city and ZIP code):

1033 Sunny Ridge Dr, Carver, MN 55315

Phone: 612-280-9763 Email address: cattygiles@gmail.com

Primary Contact (if different from above)

Name of Organization or Individual Applying for Grant (to be named as Grantee):

Address (street, city and ZIP code):

Phone: _____ Email address: _____

Project location

Address (street, city and ZIP code):

1033 Sunny Ridge Drive, Carver, MN 55315

Property Identification Number (PID)

20.4500100

Property Owners:

Renee Larson

Project Summary

Title Larson Raingarden 2020

Total Project Cost 5878.13 Grant amount requested 2939.00

Estimated start date May 15, 2020 Estimated completion date July 1, 2020

Is project tributary to a water body? ☒ No, water remains on site ☐ Yes, indirectly ☐ Yes, directly adjacent

Project description:

SEE ATTACHMENT 1

Is this work required as part of a permit? ☒ No ☐ Yes

(If yes; describe how the project provides water quality treatment beyond permit requirement on a separate page.)

Project Details

Checklist To be considered complete the following must be included with the application.

☒ location map ATTACHMENT 3(b) ☒ project timeline ATTACHMENT 1

☒ site plan & design schematic ATT 3(a) ☒ proof of property ownership ATTACHMENT 4

☒ itemized budget or contractor bid ATT 1 ☒ plant list & planting plan (if project includes plants) ATT 3(a)

Description

Describe the current site conditions, as well as site history, and past management

SEE ATTACHMENT 2 #1

What are the project objectives and expected outcomes? Give any additional project details.

SEE ATTACHMENT 2 #2

List other key participants and their roles (provide contact information for each partner and his/her expected contribution to the project)

Renee Larson 612-280-9763 cattygiles@gmail.com
Owner

David Pierson 612-251-9910 info@piersonlandscape.com
Pierson Garden and Landscape, Owner

Which cost share goals does the project support? (check all that apply)

☐ improve watershed resources

☒ Foster water resource stewardship

☒ increase awareness of the vulnerability of watershed resources

☒ increase familiarity with and acceptance of solutions to improve waters

How does the project support the goals you checked?

- Increases awareness with front yard exposure and expansiveness of project.
- Displays aesthetically pleasing manner to collect runoff of water and filtration of road debris.
- Increases familiarity with and acceptance of improving waters by being the first homeowner on Sunny Ridge Drive to put in a rain garden which may engage other homeowners in the area to do the same.

Project Details (continued)

Benefits Estimate the project benefits in terms of restoration and/or annual pollution reduction. If you are working with a designer or contractor, they can provide these numbers. If you need help contact the district Administrator.

Benefit	Amount
Water captures	unknown gal/year
Water infiltrated	unknown gal/year
Phosphorus removed	unknown lbs/year
Sediment removed	unknown lbs/year
Land restored	1,500 sq. ft.

How will you share the project results with your community?

- Next Door
- Facebook
- Word of mouth
- Site may also be used in Pierson Garden & Landscape advertising as per ATTACHMENT 2

Are there other projects that could be initiated as a result of this one?

Possibility of a second raingarden on the west side of the driveway.

Evaluation

How will the project be monitored and evaluated?

Project will be monitored by the homeowner who will follow watering and maintenance guidelines provided by Pierson Garden & Landscape.

Maintenance agreement

I acknowledge that receipt of a grant is contingent upon agreeing to maintain the project for the number of years outlined in the cost share guidelines. X Yes

Authorization

Name of landowner or responsible party Renae Larson

Signature Renae Larson Date 5/11/2020

Type or handwrite your answers on this form. Attached additional pages as needed

(For questions, contact Linda Loomis at Naiad Consulting@gmail.com or call 763-545-4659.)

Mail the completed application to:

or Email to:

Lower Minnesota River Watershed District
c/o Linda Loomis, Administrator
112 E. Fifth St., Suite 102
Chaska, MN 55318

Linda Loomis, Administrator
naiadconsulting@gmail.com



LANDSCAPE INVITATION AND PROPOSAL

Renae Larson • 1033 Sunny Ridge Drive, Carver, MN 55315

Version 2

Industry Accreditation, Education, and Affiliations:



**Landscape &
Hardscape**
Summit 2019



PROPOSAL AND AGREEMENT

Pierson Garden And Landscape, LLC., herein known as "PG&L", will notify the customer prior to proceeding with additional work.

I. General Specifications for all maintenance:

1. Customer shall remove or secure all fragile or irreplaceable items in the yard that could be disturbed or damaged during the project.
2. Material(s) may need to be delivered and dumped from large and heavy equipment which can damage or destroy driveway(s), surfaces as well as personal and public property. The customer understands these risks and consents to PG&L's use of the property for storage of these heavy materials.
3. Use all products according to industry standards and manufacturer's printed guidelines.
4. At the end of each day, the working area will be orderly, protected, raked/or swept as applicable.
5. Tools and Equipment will be gathered and stored at the end of each day.
6. PG&L will contact local utility companies prior to beginning a large project, if applicable. Underground and hidden residential utilities may be damaged or destroyed during a remodeling project. These items must be marked by Client prior to the commencement of the Scope of Work at the property, and client agrees to assume responsibility for destruction of these items which are not clearly identified.
7. Install all products according to industry standards and manufacturer's printed guidelines.



II. Scope of Work:

Landscape Preparation: PG&L will cover surfaces with property protection such as plywood or tarping to mitigate damage to work area. Temporary Work-Day protection covering lawns will be removed at the end of the work day to reduce risk of long-term damage to grass/lawn.

Turf Removal Services: Mechanically remove remaining lawn turf from the rain-garden portion of the yard, approximately 1,200 square feet or 1,530 square feet depending on the chosen option. Turf will be left onsite for homeowner's personal projects. Hauling and disposal fees are not included.

Custom-Designed Garden Plan: Specifically designed for this location, all perennial plant material is proven hardy to the Minnesota Cold-hardiness zone of 4 or less as designated by the USDA. These plants are proven most-likely to be able to survive our harsh climate. All plants are chosen for the location based on three critical factors: Light Conditions, Environment, and soil conditions. Perennial/shrub gardens will not be installed with landscape fabrics in areas to receive organic mulch.

PG&L guarantees that all plant material, as detailed in this proposal, will be delivered and installed in the size and quantity described or with most similar cultivars. Should PG&L be unable to locate a satisfactory plant as detailed, PG&L may choose a smaller option and will refund the price difference.

Placement of plant materials may vary slightly if conditions in the field call for changes. For example, a hidden rock may force the installer to shift plant(s). Planting includes fronting, three-step installation, and initial watering with root-stimulator/organic beneficial bacteria as necessary.

PLANT MATERIALS:

(1) ONE Franks Columnar Pine:

Medium is approx. 4' in height
Small is approximately 3' in height

A hardy selection of pine grows narrow and is good for smaller spaces. Grows only 6"-12" each year, little maintenance is needed in the landscape. Extremely tough and adaptable.



(1) ONE 'Tiger Eyes' Sumac:

#5 medium, approx. 1.5' tall
#2 small, approx. 12" in height

Tiger Eyes® is a beautiful golden-leafed form of cut-leaf staghorn sumac. New growth is a lively chartreuse green, quickly changing to yellow with both colors contrasting nicely with the rosy-pink leaf stems. The branches angle upward while the deeply cut leaflets drape downward.



**(12) ONE Calamagrostis 'Karl
Foerster' Grass**

Thin tan flower heads appear in early fall, becoming a mass of wheat-color seed heads which persist into winter. Clump-forming. Mesic grass, adaptable to heavy soils.

#1 Container



PERENNIAL SELECTION:

Due to plant condition and availability, selections will likely change from the listing below. Initial perennial selection is based on the photo below. Plant selection and planting will depend on soil moisture and exposure tolerance; from dry mesic to wet with occasional standing water, and sun to dappled shade. Photo below shows mesic/mesic-dry perennials. All perennials are "plug" size, small perennials that are small plants, one-year or less in growth. Due to their fragility, approximately 5% of plug-size perennials will not survive the first season. 5% loss of plugs is not covered under any warranty.



Asclepias 'Butterfly Flower'

Mesic plant can self-seed. Does well in a variety of locations.

Blooms June-August.

Recommendations





Baptisia, wild blue

A Top-10 Perennial! Hardy, reliable, multi-season interest. Available in a clear lemon-color bloom or a rich violet bloom in late spring.

Columbine

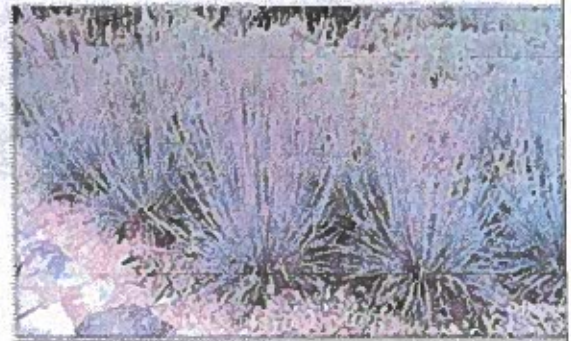
Cheery blooms appear in early spring and provide critical early-season food for insects including bees. Good shade tolerance.





Schizachyrium 'Little Bluestem'

Native to Minnesota. Green-blue foliage flourishes in warm summer months then turns a beautiful rust-orange in fall. Mesic grass- drought-tolerant once established. Excellent habitat for skippers and other insects. (Right shows summer color, left shows fall color)



Blue Flag Iris

Sword-like foliage adds vertical interest to the landscape. Grows very well in mesic soils as well as very wet locations. Flowers blooms 28-32" during the late spring.

Rudbeckia hirta

Classic prairie perennial blooms through summer. Pairs well with ornamental grasses.



Hardwood blended mulch

Double shredded hardwood mulch: PG&L will supply and spread *Double-shredded Hardwood Mulch* to cover the new perennial beds. Care is taken to spread to industry standards to reduce risk of plant-killing girdling roots and other risks. All mulch includes a coating of weed-seed inhibitor.

OUR SERVICE GUARANTEE:

1. Provide skilled, trained, certified workers for a full shift until the job is done (except for inclement weather or pre-approved days off).
2. Provide proof of Liability Insurance and Workers Comp Insurance, upon request.
3. Offer multiple references near your neighborhood and community.
4. Communicate with you as long as you need on a daily basis.
5. Perform work according to the manufacturer's instructions and industry standards.
6. Manage all project aspects in a courteous, professional manner
7. Respect your home, your family, your neighbors and your visiting friends
8. Provide an open line of communication to address any customer concerns.
9. Address all concerns within 24 hours.
10. Welcome a final walk-around with you to ensure your 100% satisfaction.

Our mission is to nurture long-lasting relationships through extraordinary service.

GOOD

- ***Partial* rain garden: Driveway to approx. 20 ft west of Spruce**
- **Smaller initial size evergreens, sumac, and tall grasses**
- Turf and burm package
- Perennial plug selection
- Mulch package

\$5,878.13

III. Payment Terms

STANDARD ORDER TERMS		
10% DEPOSIT DUE UPON ACCEPTANCE FOR MATERIAL DOWNPAYMENT		PAID
½ OF TOTAL PRICE DUE ON FIRST DAY OF WORK		
REMAINING BALANCE DUE UPON COMPLETION		
YOU, THE OWNER, MAY CANCEL THIS TRANSACTION AT ANY TIME PRIOR TO MIDNIGHT OF THE THIRD BUSINESS DAY AFTER THE DATE OF THIS TRANSACTION. Applicable state and local sales taxes are NOT included in pricing. Pricing based on check or cash payments. Credit Card payments are accepted with an additional charge of 3%.		

Pierson Garden and Landscape, LLC., ("PG&L"), submits this proposal to the undersigned client (the "Client"). Once signed, this document constitutes an agreement to undertake the landscaping work described within this document. By signing below, PG&L agrees to undertake the landscaping scope of work described in Section I "General Specifications and Job Site Preparation", Section II "Scope of Work" and Section III "Payment Terms". In exchange, Client agrees to remit payment to Pierson Garden and Landscape in accordance with Section III. Both parties agree to the terms and conditions stated herein.

Project: _____ Price: _____

ACCEPTED AND AGREED: The prices, specifications and conditions contained herein this Agreement are satisfactory and hereby accepted. You are authorized to perform the work as specified.

Customer

DATE

PIERSON GARDEN AND LANDSCAPE, LLC

By: David Pierson,
Its: Owner

DATE

IV. Misc. Terms and Conditions

1. **Access to Property.** Client agrees to provide access to the property during reasonable business hours to PG&L during the agreed upon work schedule dates.
2. **Additional Work.** Pierson Garden And Landscape, LLC., herein known as "PG&L", will notify the customer prior to proceeding with additional work beyond the scope outlined in this proposal and agreement. Additional Garden Maintenance work (such as splitting and transplanting perennials) will be billed at a rate of \$49.50 per labor hour. Other additional work to be bid on an individual basis.
3. **Termination.** Client may cancel this contract within (3) THREE Business days of the signing of this contract. Any deposits will be issued in check form from Pierson Garden and Landscape, LLC within (5) FIVE BUSINESS DAYS via the US Postal Service. PG&L may terminate this Agreement. In addition to termination, PG&L may also elect to stop work, or seek any other remedies afforded in law or equity to recover unpaid amounts due and owing, including a lien against real property.
4. **Construction.** This Agreement shall be subject to and construed in accordance with the laws of the State of Minnesota.
5. **Entire Agreement and Severability.** This Agreement is the entire agreement between the parties with respect to its subject matter. The Agreement may not be modified except in writing signed by both parties. If any provision(s) of this Agreement shall be held to be invalid, illegal, unenforceable or in conflict with the law of any jurisdiction, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.
6. **Deadline for acceptance of proposal.** This proposal is based upon current material and labor cost. This proposal may be withdrawn if not accepted within ten (10) days.
7. **Authority.** The undersigned represents and agrees that they have the authority to enter into this binding agreement on behalf of Client.
8. **Subcontractors.** Pierson Garden and Landscape, LLC may utilize sub-contractor(s) workers during the project.
9. **Use of Photography.** Images and accounts of your project may be used for advertising purposes.
10. **Product Maintenance.** Live product will be watered up to the last day of work. Customer is responsible for maintaining all plant materials after the last full day of work.
11. **Scheduling.** Statements of scheduling of services are estimates only. Start dates, length of work, and finish dates are never guaranteed and may change drastically.
12. **Product Warranty Information.** Because of their perishable nature, live plants come with a limited 30-DAY WARRANTY.
13. **Use of Dyed Mulch.** Dyed mulch, if included in your project, may permanently stain surfaces including but not limited to driveways, walk-paths, patios, foundations, and other surfaces.

14. **Product Warranty Information.** Because of their perishable nature, live plants come with a 30-day warranty. Client may elect to purchase a plant warranty covering new plant material for a period of two years. Transplanted materials and annual plants (not-winter hardy plants) are NOT included in the Warranty.



During the Warranty period, should new perennial covered under the Warranty not survive, PG&L shall replace plants at no additional charge with appropriate materials of similar size. Should an issue arise with product or installation within a period of TWO YEARS, Client shall immediately notify PG&L and permit a representative of PG&L to see the plant(s) Monday through Friday between 9AM and 5PM, during the growing season. Plants which show signs of neglect, intentional acts of damage or damage from pests and animals are excluded from this Warranty. Client will incur a \$35.00 charge for PG&L's site visit if the subject plant material has been harmed or damaged by neglect, intentional acts of damage or damage from pests and animals.

Price of TWO-YEAR WARRANTY is: \$361 for Best, \$349 for Better, \$318 for Good.

Client Initial below

Client hereby elects to purchase the Two-Year Warranty: _____

Client hereby elects NOT to purchase the Two-Year Warranty: _____

ACCEPTED AND AGREED: The prices, specifications and conditions contained herein this Agreement are satisfactory and hereby accepted. You are authorized to perform the work as specified.

Customer

DATE

PIERSON GARDEN AND LANDSCAPE, LLC

By: David Pierson,
Its: Owner

DATE

ATTACHMENT 2

Description

- 1) The house was built in 1986. Renae Larson is the original and only owner. The home sits lower than Sunny Ridge Drive. Therefore, the angle of the driveway slopes down towards the house from the street. Rainwater (and at times road debris such as salt, sand, dirt) run from the street into the driveway and pools at the northeast side. In 2009, the City of Carver installed curb and gutter on Sunny Ridge Drive. A better driveway was constructed, but since the house sits lower than the road, rainwater still collects at the northeast portion of the driveway. To temporarily mitigate this, a small trench was formed in the turf as a collection point. Mulch was added around the area. See pictures below.



- 2) The project objectives are to provide approximately 1500 sq. ft. area for rainwater to drain from the driveway into a small infiltration basis (currently the trench). The project includes a pollinator habitat with many flowering perennials. Plants used will be suitable for the dry and wet areas of the raingarden. See ATTACHMENT 1 for project details.

ATTACHMENT 3(a)



PIERSON
GARDEN AND
LANDSCAPE

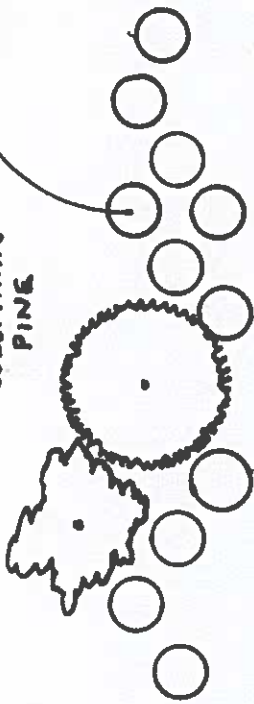
"CUSTOM LANDSCAPE HAPPINESS!"

DAVID PIERSON • PHONE: (612) 251-9910

ORNAMENTAL GRASSES

SUMAC

COMPACT COLUMNAR PINE



BRICK OR STONE BORDER

FULL SUN

ORNAMENTAL TREE X

PARTIAL SHADE

FULL SHADE

PARTIAL SHADE

FULL SUN

(ORANGE)
OVERFLOW
LEVEL (ESTIMATED DEPTH OF 3-6" MAX)

TURF GRASS

SHORT BURN,
PLANT COVERED

(W)

PRIMARY SOURCE
RAINWATER
RUNOFF

MESIC/DRY
PARTIAL SHADE
RECOMMENDATIONS:

DRY SHADE
RECOMMENDATIONS:

MESC/RAINGARDEN
RECOMMENDATIONS:

MESC/DRY
RECOMMENDATIONS:

NET/RAINGARDEN SHADE: GALIUM, IRIS (FLAG)

- ASCLEPIAS MILKWEED, BUTTERFLY FLOWER
- BAPTISIA
- ASTER
- RUDBECKIA HIATA
- MONARDA
- SCHIZACHYRIUM LITTLE BLUESTEM
- ECHINACEA PURPUREA
- LIATRIS
- IRIS
- LOBELIA
- CORSOPIA
- AQUILEGIA
- CAREX PENNSYLVANICA
- GERANIUM (MLO)
- UVULARIA
- POLYGONUM
- PHYSOSTEGIA

(R)

CURBING

SECONDARY
SOURCE OF
RAINWATER
RUNOFF (MINIMAL)

(E)

Location map2





**Carver County
Property Tax Department**
600 East 4th Street, P.O. Box 69
Chaska, MN 55318-0069
(952) 361-1910 • www.co.carver.mn.us

For the following visit our website at www.co.carver.mn.us

- Pay your taxes online
- Sign up for our Tax Payment Reminder
- Print additional copies of your Tax Statement

Property ID #: 20.4500100

ATTACHMENT 4

2020 Property Tax Statement

VALUES AND CLASSIFICATION

Taxes Payable Year:		2019	2020
Step 1	Estimated Market Value:	209,900	239,300
	Homestead Exclusion:	18,300	15,700
	Taxable Market Value:	191,600	223,600
	New Improvements/ Expired Exclusions:		
	Property Classification:	Res Hstd	Res Hstd

Step
2
PROPOSED TAX
\$3,056.00

PROPERTY TAX STATEMENT			
Step 3	First half taxes due:	5/15/2020	1,599.00
	Second half taxes due:	10/15/2020	1,599.00
	Total Taxes Due in 2020:		3,198.00

Taxpayer: RENAE LEEANN GILES
C/O RENAE LARSON
1033 SUNNY RIDGE DR
CARVER MN 55315-9355



02012469

**\$\$\$
REFUNDS?**

You may be eligible for one or even two refunds to reduce your property tax. Read the back of this statement to find out how to apply.

Bill#: 1111237

Property Address:

1033 SUNNY RIDGE DR
CARVER MN 55315-9355

Property Description:

Section 19 Township 115 Range 023
SUNNY SIDE ADDITION Lot 002 Block 002

Tax Detail for Your Property:

Taxes Payable Year:		2019	2020
1. Use this amount on Form M1PR to see if you are eligible for a property tax refund. File by August 15. If this box is checked, you owe delinquent taxes and are not eligible.		<input type="checkbox"/>	3,165.00
2. Use these amounts on Form M1PR to see if you are eligible for a special refund.		2,851.00	
Tax and Credits	3. Property taxes before credits	2,851.00	3,165.00
	4. Credits that reduce property taxes		
	5. Property taxes after credits	2,851.00	3,165.00
Property Tax by Jurisdiction	6. County		
	A. CARVER COUNTY	698.66	785.91
	B. CO RAIL AUTHORITY	2.00	2.26
	7. City or Town CITY OF CARVER	969.35	1,105.75
	8. State General Tax		
	9. School District SD 0112 Eastern Carver Cnty		
	A. Voter Approved Levies	806.19	740.42
	B. Other Local Levies	310.29	459.94
	10. Special Taxing Districts		
	A. Metro Council	12.46	13.19
	B. Metro Mosquito Control	8.10	8.82
	C. Carver County CDA	31.15	35.74
	D. Watershed	12.80	12.97
11. Non-school voter approved referenda levies			
12. Total property tax before special assessments		2,851.00	3,165.00
13. Special Assessments Interest: Principal: 33.00		33.00	33.00
14. TOTAL PROPERTY TAX AND SPECIAL ASSESSMENTS		2,884.00	3,198.00

Line 13 Special Assessment Detail:

HAZ & SOLID WASTE FEE RES/AG 33.00

Principal: 33.00
Interest:

Labor Costs (Contractors, Consultants, In-Kind Labor)

Service Provider	Task	# Hours	Rate/Hour	Requested Funds from LMRWD	Matching/In-Kind Funds	Total
Pierson Garden & Landscape (see proposal attached to application)	install raingarden at 1033 Sunny Ridge Drive, Carver, MN			\$ 2,500.00	\$ 3,378.13	\$ 5,878.13
Total:				\$ 2,500.00	\$ 3,378.13	\$ 5,878.13

Project Materials

Material description	Unit Cost	Total # of Units	Requested funds from LMRWD	Matching/In-Kind Funds	Total
Included in total estimate provided by contractor					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
Total:			\$ -	\$ -	\$ -

Total Requested Funds from LMRWD*:	\$ 2,500.00 (A)
Total Matchin/In-Kind Funds:	\$ 3,378.13 (B)
Project Total:	\$ 5,878.13 (C)

*Please note: total requested funds (A) cannot be more than 50% of the Project Total (C) or maximum allowed grant amount.

Property Card	Parcel ID Number 204500100
----------------------	-----------------------------------

Taxpayer Information
Taxpayer Name RENAE LEEANN GILES C/O RENA LARSON
Mailing Address 1033 SUNNY RIDGE DR CARVER, MN 55315-9355



Property Address
Address 1033 SUNNY RIDGE DR
City CARVER, MN 55315

Parcel Information			
Uses Res 1 unit	GIS Acres	0.43	Net Acres
	Deeded Acres		
	Plat	SUNNY SIDE ADDITION	
	Lot	002	
	Block	002	
Tax Description			

Building Information			
Building Style 1 Story Frame	Above Grade Finished Sq Ft 1104	Bedrooms 3	
Year Built 1986	Garage Y		

Miscellaneous Information				
School District 0112	Watershed District WS 060 LOWER MN RIVER	Homestead Y	Green Acres N	Ag Preserve N

Assessor Information			
Estimated Market Value	2019 Values (Payable 2020)	2020 Values (Payable 2021)	Last Sale
Land	\$69,800.00	\$69,800.00	Date of Sale
Building	\$169,500.00	\$172,500.00	Sale Value
Total	\$239,300.00	\$242,300.00	

The data provided herewith is for reference purposes only. This data is not suitable for legal, engineering, surveying or other similar purposes. Carver County does not guarantee the accuracy of the information contained herein. This data is furnished on an 'as is' basis and Carver County makes no representations or warranties, either expressed or implied, for the merchantability or fitness of the information provided for any purpose. This disclaimer is provided pursuant to Minnesota Statutes §466.03 and the user of the data provided herein acknowledges that Carver County shall not be liable for any damages, and by using this data in any way expressly waives all claims, and agrees to defend, indemnify, and hold harmless Carver County, its officials, officers, agents, employees, etc. from any and all claims brought by anyone who uses the information provided for herein, its employees or agents, or third parties which arise out of user's access. By acceptance of this data, the user agrees not to transmit this data or provide access to it or any part of it to another party unless the user includes with the data a copy of this disclaimer.



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting
Wednesday, May 20, 2020

Agenda Item

Item 6. A. - City of Carver Levee

Prepared By

Linda Loomis, Administrator

Summary

On April 17, 2020, LMRWD staff met with the City of Carver. The LMRWD scoring of the City's request for funding of the Levee was discussed. Carver provided arguments as to why the project should score higher. LMRWD staff agreed to continue work with the city and to begin the process of including the project in the LMRWD plan.

The city increased the amount of funding requested to \$100,000.

Attachments

No attachments

Recommended Action

No recommended actions



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting
Wednesday, May 20, 2020

Agenda Item

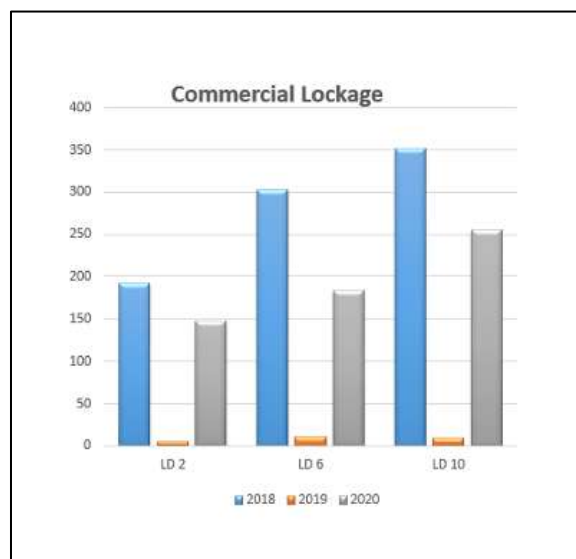
Item 6. C. - Dredge Management

Prepared By

Linda Loomis, Administrator

Summary

- i. **Vernon Avenue Dredge Material Management site**
LMRWD staff is meeting Monday, May 18th with representatives from Cargill, CHS, Inc., Savage Riverport and LS Marine to discuss activities at the dredge placement site.
- ii. **Private Dredge Material Placement**
LMRWD has received communications that dredging will begin (or may have already begun). A recent report from the Upper Mississippi River Waterway Association show river navigation is up over last year, but behind 2018. I have included a chart from the report.



Attachments

No attachments

Recommended Action

No action recommended



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting
Wednesday, May 20, 2020

Agenda Item

Item 6. D. - Watershed Management Plan

Prepared By

Linda Loomis, Administrator

Summary

Cities were notified that the Board of Manager approved extending the deadline for revising their official controls. The District has heard from several cities if their plans to amend official controls. All that have communicated with the District have indicated that they should be able to comply with the September 1, 2020 date.

A recommended fee schedule is attached for Board approval. As was discussed that the April Board meeting, fees are based on project review fees charged by other watershed districts. It was also discussed that fees will not necessarily cover the District's cost for project review as sometimes the smallest projects take the most time to review, while larger projects may be more straightforward.

Staff will monitor the correlation between the fees collected and the actual cost to review project and inform the Board.

Attachments

Fee Schedule

Recommended Action

Motion to adopt fee schedule.



LMRWD FEE SCHEDULE

Lower Minnesota River Watershed District Project Review Fee Schedule (Effective May 1, 2020)

Land Disturbing Activities on Single-Family Residential Property

LMRWD RULE	FEE
Rule B – Erosion and Sediment Control	\$50
Rule D – Stormwater Management	\$250

All Other Projects and Rules

AMOUNT OF LAND DISTURBANCE	FEE
< 5 ACRES	\$750
5 TO <10 ACRES	\$1,000
10 ACRES OR LARGER	\$1,500

The fee provided by this rule will not be charged to any agency of the United States or any governmental unit or political subdivision of the State of Minnesota.



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting
Wednesday, May 20, 2020

Agenda Item

Item 6. E. - 2020 Legislative Action

Prepared By

Linda Loomis, Administrator

Summary

The 2020 legislative session is scheduled to end on Monday, May 18th. The bill the LMRWD introduced has been interesting to follow; it's in the Senate version, it's not in the house version, it went to conference committee and everything blew up without any agreement. We have just been caught in the middle between all the other provisions of the environmental bills. Lisa Frenette has been following it and making contacts with key legislators to make sure it gets included in whatever legislation is passed.

The Board will be updated at the meeting.

Attachments

No attachments

Recommended Action

No action recommended



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting
Wednesday, May 20, 2020

Agenda Item

Item 6. G. - LMRWD Projects

Prepared By

Linda Loomis, Administrator

Summary

i. **Eden Prairie Study Area #3**

Staff has recently been investigating this area. On Thursday, May 7, LMRWD staff met on site with staff from the city of Eden Prairie to assess the severity of erosion at the top of the bluff. A summary of the field inspection is attached along with the January 2020 memo, a map of the properties affected and pictures taken the day of the field inspection.

Staff would like the Board to discuss the recommendations in the January report and the next steps in the May 7th report. There is a fund of \$110,000 the District has collected to pay for expenses incurred in this area. The District collected \$75,000 in 2017 and \$35,000 in the 2020 budget. The only expenses that have been charged to this project so far have been the expenses incurred to monitor the inclinometers. These expenses total \$9,011 since 2013.

Additionally, we received readings from the inclinometers that were taken in February. The readings show no movement in the bluff and has been shared with the City of Eden Prairie.

ii. **Gully Inventory and Condition Assessment**

In 2007, the LMRWD engaged the Minnesota Conservation Corps to inventory gullies throughout the District. Since that time, some of the gullies have been stabilized and others have seen more erosion occur. The District has planned to update the inventory, by visiting all the gullies identified in 2007 and then documenting gullies that may have been missed and have been found to be experiencing significant amounts of erosion. Staff has prepared a work plan for this work, which is attached. Staff intends to use funds collected from the Gully Erosion Contingency Fund and the funds collected for the Minnesota River Sediment Reduction Strategy. There is currently \$150,000 in the Gully Erosion Contingency fund and \$50,000 in the Minnesota River Sediment Reduction Strategy fund.

One of the goals to this project will be to track sources of sediment that has been observed in different areas along Flying Cloud Drive.

iii. **2020 Trout Stream Gap Analysis and Long-Term Strategic Management Plan**

A work plan is attached that continues the work the District began in 2019 with the geomorphic assessment of the Trout streams. The work plan explains the project. Staff is looking for the Board to authorize this plan.

Item 6. G. LMRWD Projects

Executive Summary

May 20, 2020

Page 2

Attachments

Eden Prairie Study Area #3 memo and attachments

2020 Gully Inventory and Condition Assessment work plan

Trout Streams Gaps Analysis and Long-Term Strategic Management Plan work plan

Recommended Action

Provide direction to staff for Study Area #3

Approve Gully Inventory and Condition Assessment work plan and authorize implementation

Approve Trout Streams Gaps Analysis and Long-Term Strategic Management Plan work plan and authorize implementation

Technical Memorandum

To: Linda Loomis, Administrator
Lower Minnesota River Watershed District

From: Katy Thompson, PE, CFM
Della Schall Young, CPESC, PMP

Date: May 12, 2020

Re: Area 3 Site Visit Meeting Summary

The Lower Minnesota River Watershed District (LMRWD or District) has been working with the City of Eden Prairie (City) since 2008 to evaluate locations along the Minnesota River that have been experiencing bluff erosion, listed in the District's 2018–2027 Watershed Management Plan as "Minnesota River Study Area 3 – Bluff Stabilization Project." The following summarizes the site visit recommended during the December 18, 2019, meeting (see attached 12/18/19 meeting summary).

May 7, 2020, Site Visit

Linda Loomis, District Administrator; Patrick Sejkora, City of Eden Prairie (City) Water Resources Engineer; and Della Young and Katy Thompson, Young Environmental Consulting Group (Young Environmental) met at 12641 Riverview Road in Eden Prairie for a site visit of the bluff and review of inclinometers.

The owner of 12613 Riverview Road was outside and allowed access to the bluff on her property. She has lived there since 2003 and said that the rate of erosion on the bluff near the property has accelerated in recent years. She said that she reached out to LMRWD, the City, and the US Army Corps of Engineers (USACE) several times to discuss the neighborhood concerns, especially the need to install retaining walls to protect their residences. The backyards of 12557, 12585, 12613, 12641, and 12669 Riverview Road all were observed to have relatively new retaining walls located near the residences (see attached landowners map and photos).

The homeowner confirmed that the soils around her property were extremely sandy, as evidenced by active bank erosion in nearby gullies. The gullies contained numerous

brush clippings and vegetation, placed in the gully at the advice of USACE staff several years ago.

The inclinometers could not be found during the visit, but no signs of active landslides or mass wasting processes were observed in the field. The active erosion seemed to be contained to the existing gullies and runoff from private property.

Next steps

1. Young Environmental will contact Braun Intertec for inclinometer coordinates because the inclinometers could not be located in the field.
2. The City of Eden Prairie will provide electronic storm sewer maps of the area. (Received 5/8/2020)
3. Young Environmental will overlay inclinometer locations, lidar topography, storm sewer outfalls, available photos, and historic aerials to identify possible concentrated flow locations that could exacerbate the erosion processes and reconvene in June/July 2020 to discuss the results at a later date.
4. District will evaluate options for a team to view the site in the fall (September or October) from the Minnesota River.
5. The District will also contact the Freshwater Society to find out if it has identified potential areas of erosion.
6. Young Environmental will review the Federal Emergency Management Agency hot spots report.

Attachments:

December 18, 2019, Meeting Summary

Riverview Road Landowners Map

May 7, 2020, Site Photos

Technical Memorandum

To: Linda Loomis, Administrator
Lower Minnesota River Watershed District

From: Steve Woods, PE
Della Schall Young, CPESC, PMP

Date: January 17, 2020

Re: Eden Prairie Area 3 and the Minnesota River—Meeting summary and recommendations

Background

Area 3 occupies steep bluff lands adjacent to the Minnesota River southeast of Flying Cloud Airport or south of the intersection of Pioneer Trail and Flying Cloud Drive in Eden Prairie, Minnesota. The river has meandered adjacent to the north valley wall. Upland land use is split between a landfill and residential sites, though there is a strip of undeveloped land on the slope between the river and existing residential areas owned by Lakefront Properties, Inc. The Minnesota River Valley formed through the overtopping of Lake Agassiz, which created an outlet river (Glacier River Warren) that drained south and carved it.¹

In 2008, the City of Eden Prairie (City) and the Lower Minnesota River Watershed District commissioned a project by SRF Consulting Group, Inc. (SRF) to study sites along the Minnesota River Valley that were experiencing flooding to determine the cause of the erosion and to provide recommendations for addressing the erosion and preventing future problems. See the enclosed study Area 3 location map. SRF's site investigation and analysis yielded the following results, which were presented in the 2008 report²:

¹ Minnesota River Valley Formation, *Minnesota River Basin Data Center*, visited 18 November 2019.

² SRF Consulting Group, Erosion Stabilization Study: Study Area 3 Final Report Prepared for the City of Eden Prairie, October 2008.

The analysis of bluff instability and erosion found causes and problems such as the following:

1. Low internal soil strength properties
2. Removal of vegetation
3. Frequent river flooding
4. Soil saturation due to flooding and the presence of springs
5. High velocities along the outside bend of the river during flood stage
6. Presence of steep slopes

It was further stated that erosion may be caused by “a combination of localized erosive velocities as the river flows around the bend and the permanent soil saturation that occurs near the springs that has accelerated bluff erosion, which would otherwise occur more slowly from flooding saturation/desaturation, low in-situ soil shear strength, steep slopes, and the removal of vegetation” (SRF 2008).

Recommendation: Using the causal information generated, SRF recommended two alternative solutions: 1) Regrade to a more gentle slope to balance driving and resistive forces, with a probable cost estimate (PCE) of approximately \$434,000; and 2) Increase resistive forces of the soil through the use of constructed, stabilized slopes with a PCE of \$414,000. Alternative 2 was recommended for its “technical” and cost advantages.

In 2010, the team of Wenck Associates, Inc. and Stanley Consultants, Inc. were retained to expand on the information produced by SRF. The Wenck team focused on the slope interface with the river (see enclosed existing conditions map). Additional data were collected, and the team completed hydrology, hydraulics slope stability and geotechnical analyses. The Wenck team’s conclusions were similar to SRF’s. They highlight that the meander is a natural process that has been accelerated by changes in hydrology and climate variability and increased erosion due to stormwater runoff concentrated on the surface and seepage flows (Wenck, 2010). The Wenck team concluded that if left as is, without stabilization, erosion will continue as the meander moves downstream. That said, they did note that the slope stability analyses showed the bluff had an acceptable safety factor for the residences and properties.

Recommendation: Based on the analysis completed and data collected, three alternatives for bank stabilization were identified: 1) riprap blanket with a PCE of \$1.9 million, 2) bendway weirs with a PCE of \$3.3 million, and 3) rock vanes with a PCE of \$1.1 million. Alternative 3 was selected because of cost.

Because of the acceptable safety factor, the District commissioned the placement of inclinometers on the slope to monitor if movement occurs. Inclinometers have been monitored and reports submitted to the District since 2010 by Braun Intertec (Braun). In June 2019, Braun provided a report that showed slope movement. Alarmed, the District

and its technical consultants (Young Environmental Consulting Group, LLC and Barr Engineering Company) met to review the information and discuss a path forward. As the group reviewed the information, it was apparent there were problems with the information received. The problem spurred these questions:

- Is the information accurate?
- If it is accurate, what do we do with the information?
- If the information isn't accurate, what should we do to remedy the error?
- What does the District do with the data it collects?
- Should this data be collected by the LMRWD?
- Are there other activities, like work in the river to reduce the speed of encroachment, that LMRWD should invest in?

December 2019 Meeting

Young Environmental was instructed to contact Braun to have them review and validate the information provided and to convene a team of experienced professionals familiar with Area 3 to consider these questions and review past studies, collected data, and a range of options for future action.

The team was convened on Wednesday, December 18, 2019. Attendees were as follows:

Linda Loomis, LMRWD
Della Young and Steve Woods, Young Environmental
Joel Toso and Ed Matthiesen, Wenck
Bill Holman, Stanley Consultants
Bryan Ripp, Braun Intertec
Aaron Grosser, Barr

During the meeting the group converged on two overarching discussion topics: slope erosion and river meander movement. Below is a summary of those topics.

Slope Monitoring. Inclinometers were installed in 2010 to monitor slope erosion and/or movement. Braun has been collecting and analyzing data collected from the inclinometers on behalf of the District since installation. Until June 2019, the inclinometers had not shown any indication of movement. When this data appeared, LMRWD requested further analysis as there was some doubt as to its accuracy. Subsequent review by Braun identified a hardware calibration issue, and the data set was updated. Braun's revised data showed no movement.

This hardware issue initiated the gathering of professionals to consider whether further data collection was warranted by the District. Following a historic review of the area and consequent discussion, it was concluded that these data need to be collected with a few enhancements by the District and then shared with the City because they serve as a management information tool.

River Flow. As highlighted in the reports by SRF and the Wenck team, landslides in the area are a normal process that has been worsened by the increasing magnitude and frequency of flood flows in the Minnesota River. In addition, the meander bend apex continues to move toward the Area 3 embankment, resulting in downstream migration of the riverbank toward the City's stormwater pond, which currently is overtopped by high river flows. As the river continues to progress downstream, the backyards of properties along the bluff could be affected.

Because of the conditions exhibited by the Minnesota River over the past few years, it was concluded that the rock vane bank stabilization alternative recommended by the Wenck team should be reviewed and designed, while sources of funding are investigated and acquired to address the river's effects on the toe of the slope.

Recommendations

Based on the discussion, the LMRWD Board of Managers is asked to consider and approve the following recommendations:

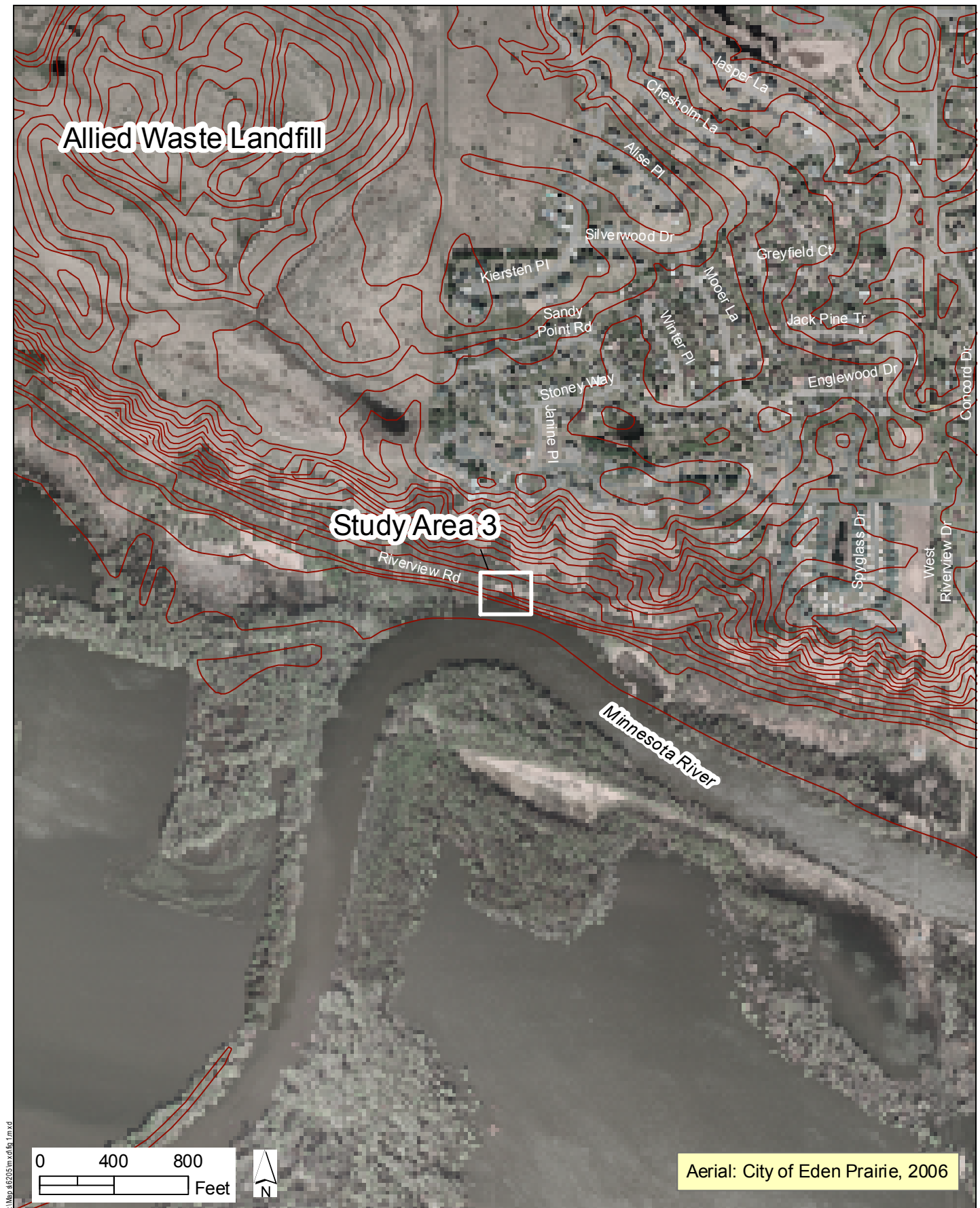
1. Install a vibrating wire piezometer in the casing of an existing piezometer to record water levels in the embankment. If the existing piezometer cannot be located, a new vibrating wire piezometer will be installed in a soil boring within the slope to monitor groundwater conditions.
2. Increase the frequency of data collection from the inclinometers to a minimum of twice per year—after snow melt in the spring and sustained high water in late summer or early fall. Provide the data analysis of the inclinometers and piezometers in monitoring memos to the LMRWD after each monitoring event summarizing the condition of the slope.
3. Update river cross-sections (i.e., soundings) taken for the 2010 report. This effort would update the location of the thalweg (a line that connects the lowest points in a valley or river channel, and thus the line of fastest flow or deepest water along a river's course) and allow for estimates of both scour and movement.
4. Conduct a field reconnaissance exercise with the City to verify where flows are still overtopping the bluff. In the Wenck team's 2010 report and review of aerial

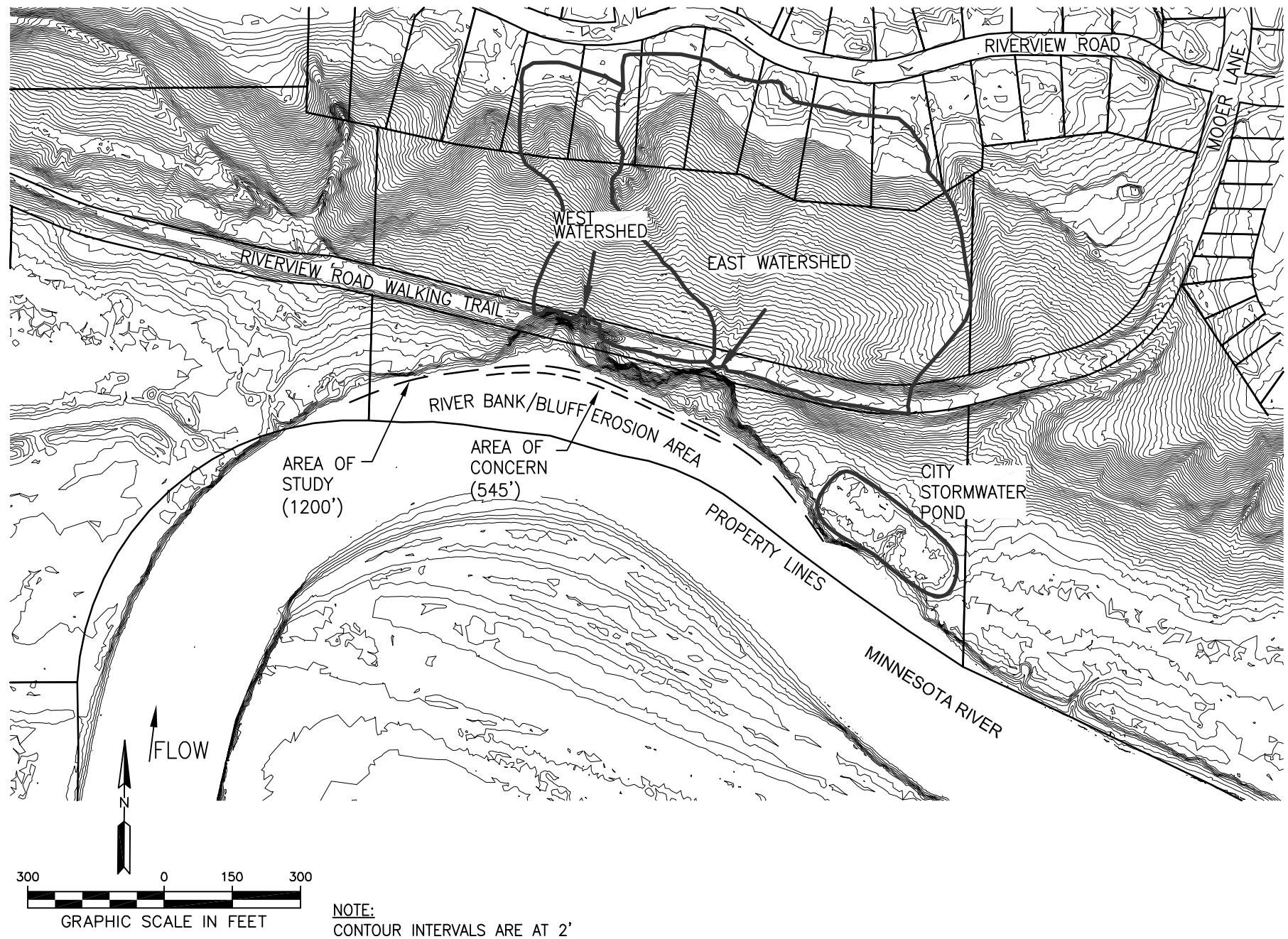
photos, it appeared the bluff was taking overland flow. This has direct erosion potential, adds weight, and lowers soil cohesion.

5. Design and construct the Minnesota River rock vane bank stabilization alternative recommended in 2010 by the Wenck team (See enclosed Rock Vane Plan and Section). As presented, the alternative had a PCE of \$1.1 million. To convert this estimate to 2020 dollars, we applied the Engineering News-Record cost index for Minneapolis, which advances the PCE to \$1.4 million³. Engineering design and regulatory costs were not included in the Wenck team's PCE. However, those costs are estimated to be 10–15 percent of the PCE. This project represents a potential partnership with the City, area legislators, the US Army Corps of Engineers, and the river transport-based industry concerned with navigability of the Minnesota River. (Note: The LMRWD has no property or infrastructure in the project area.)

CC: Rod Rue and Leslie Stovring, City of Eden Prairie
Joel Toso, Wenck Associates
Ed Matthiesen, Wenck Associates
Bill Holman, Stanley Consultants
Bryan Ripp, Braun Intertec
Aaron Grosser, Barr Engineering

³ Ed Matthiesen, Wenck Associates, personal communication, January 7, 2020





LOWER MINNESOTA RIVER WATERSHED DISTRICT

Existing Conditions

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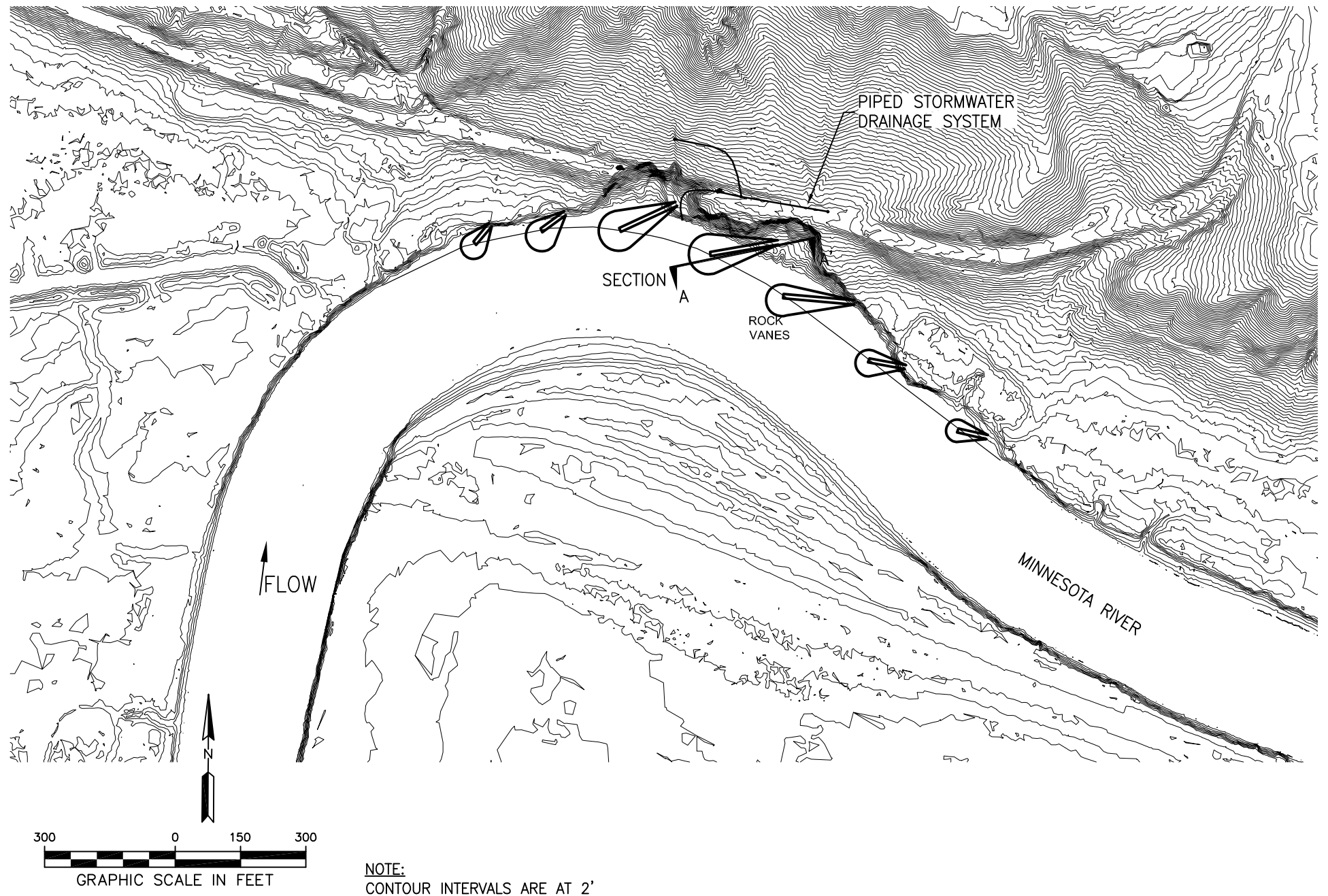


Wenck Associates, Inc.
Environmental Engineers

Wenck

1800 Pioneer Creek Center
Maple Plain, MN 55339

FIGURE 2



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Rock Vane Plan

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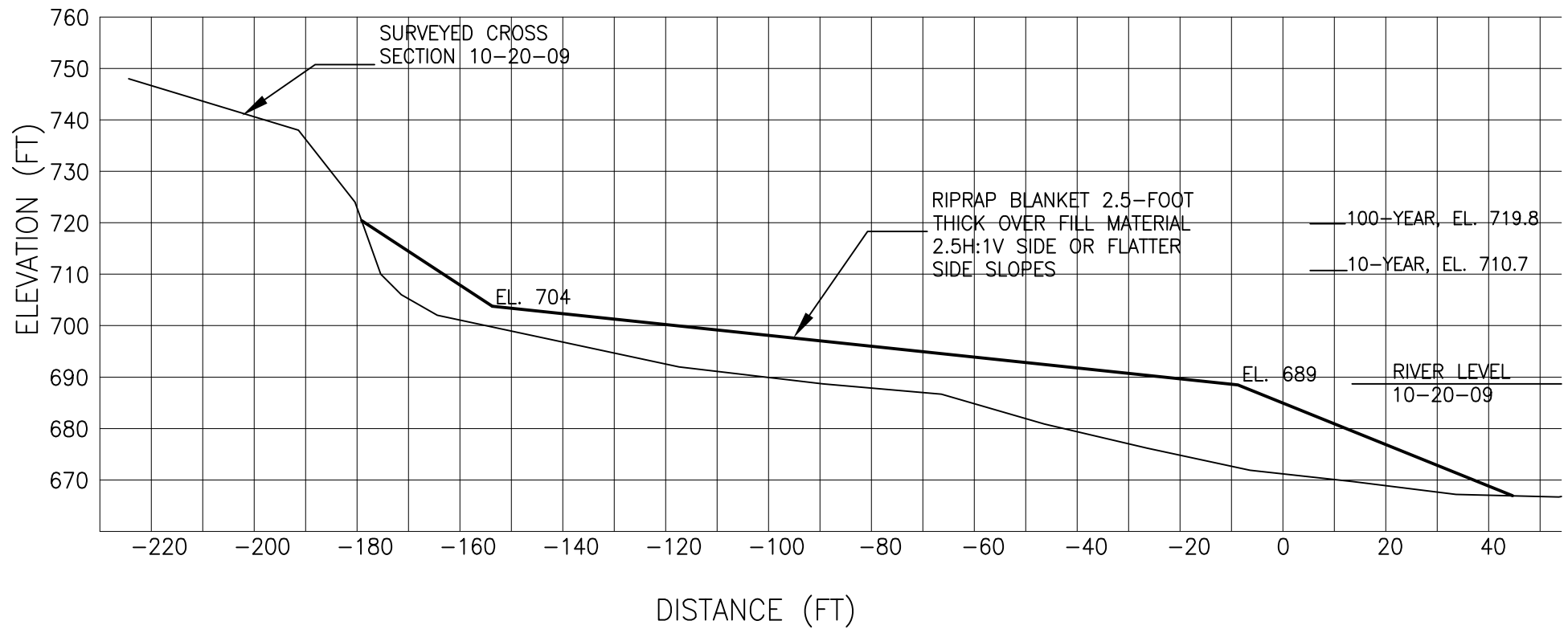


Wenck Associates, Inc.
Environmental Engineers

Wenck

1800 Pioneer Creek Center
Maple Plain, MN 55339

FIGURE 15



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Rock Vane Section A-A'



Figure 1. Riverview Road Properties (map courtesy of Hennepin County).



MAY 7, 2020 SITE VISIT

12585 Riverview Rd

12557 Riverview Rd



MAY 7, 2020 SITE VISIT

12613 Riverview Rd



A photograph showing a riverbank with a tree and grassy slope. The tree has yellow-green leaves. The river is in the background, and there are more trees on the opposite bank. The foreground is a grassy slope with some dry grass and branches.

MAY 7, 2020 SITE VISIT

**Active gully erosion
at 12613 Riverview
Rd and homeowner
preventative
measures**



MAY 7, 2020 SITE VISIT

**Same gully at 12613
Riverview Rd and
homeowner
preventative
measures**

MAY 7, 2020 SITE VISIT

12641 Riverview Rd

12669 Riverview Rd



LOWER MINNESOTA RIVER WATERSHED DISTRICT
Trout Streams Gaps Analysis and Long-Term Strategic Management Plan
WORK PLAN—May 15, 2020

Summary

<i>Outcome:</i>	Trout Streams Gaps Analysis and Long-Term Strategic Management Plan:
<i>Project Partners:</i>	Minnesota Department of Natural Resources (MNDNR), US Fish and Wildlife Service (USFWS), Trout Unlimited, City of Burnsville, City of Eagan, City of Bloomington, City of Savage, City of Shakopee, City of Chaska, City of Chanhassen, Dakota County, Carver County, Scott County, Hennepin County, and the public.
<i>Timeline for Completion of Project:</i>	June–October 2020
<i>Total Project Budget:</i>	\$42,000–\$49,500

Objective 1. Project Management

Task 1-1: Project plan development and project management. Finalize the workplan; assign project tasks; determine whether additional resources are needed; set dates for deliverables; generate and maintain project schedule/Gantt chart.

Deliverables: Invoices and project updates

Estimated Budget: \$2,500–\$3,000

Objective 2. Data Collection and Review

Task 2-1: Gather available information. Collect available information on all of the viable trout streams within the Lower Minnesota River Watershed District (LMRWD or District) from public resources, including LiDAR data and cold water resources management plans from the MNDNR, historical aerial photos, and information generated and produced from the 2019 *Geomorphic and Habitat Assessments of Trout Streams in the Lower Minnesota River Watershed District*. Develop standardized email for LMRWD to send to project partners notifying them about the project and advising that they may be contacted by Young Environmental staff.

Task 2-2: Desktop analysis. From the information collected in Task 2-1, develop a comprehensive list of items needed to effectively manage trout streams as well as areas of needed research. Generate a sustainable trout habitat criteria list based on the comprehensive list, detailing the ideal habitat characteristics necessary for a healthy and sustainable trout stream. This task will also develop a trout stream strategic plan framework based on the MNDNR's 2004–2015 Strategic Plan for Coldwater Resources Management in Southeast Minnesota for long-range planning, management, and operation of these cold-water resources.

Timeline for Completion: June–July 2020

Deliverables: Standardized email to project partners, sustainable trout habitat criteria list, and cold-water resource strategic plan framework

Estimated Budget: \$7,000–\$9,000

Objective 3. Gaps Analysis

Task 3-1: Complete gaps analysis for each viable trout stream. Using the sustainable trout habitat criteria list generated in Task 2-2, evaluate each viable trout stream data and knowledge for gaps. This task assumes some work with project partners, as needed.

Timeline for Completion: July–August 2020

Deliverable: Gaps analysis

Estimated Budget: \$4,000–\$5,000

Objective 4. Long-term Strategic Management Plan

Task 4-1: Complete the long-term strategic management plan. Using the cold-water resources strategic plan framework developed in Objective 2 and outcomes of Objective 3, develop a ten-year strategic plan for each viable trout stream within the District. These adaptive plans will define the individual and specific management actions required to achieve the goals in the cold-water resources strategic plan and draft annual operational plans.

Timeline for Completion: August–September 2020

Deliverables: High-level themes, goals, strategies, and operational plans

Estimated Budget: \$6,500–\$7,500

Objective 5. Partner Engagement

Task 5-1: Solicit input from project partners. Host two workshops with project partners to solicit input. The first workshop will be held following the completion of the gaps analysis in Objective 3, and we will ask the participants to review and comment on the cold water resources strategic plan framework generated in Objective 2 and the outcome of Objective 3. The second workshop will be held following the completion of the long-term strategic planning in Objective 4.

Timeline for Completion: July and September 2020

Deliverables: Workshop agendas and summaries for two workshops

Estimated Budget: \$4,500–\$5,500

Objective 6. Documentation

Task 6-1: Generate Draft Outline: Generate a draft annotated outline that documents the assumptions, methodology, and results of Objectives 2–5.

Task 6-2: Develop the Draft Report: Build on the annotated outline, develop the draft report documenting methods, assumptions, procedures, results, and recommendations.

Task 6-3: Present Approach and Preliminary Plan: Present approach and preliminary findings to the project partners and the district's managers.

Task 6-4: Finalize the Report: Finalize draft report, incorporating project partners, district administrator, and managers written feedback.

Timeline for Completion: June–October 2020

Deliverables: Annotated outline, draft report, preliminary plan presentation, and final report

Estimated Budget: \$17,500–\$19,500

LOWER MINNESOTA RIVER WATERSHED DISTRICT
2020 UPDATED GULLY INVENTORY AND CONDITION ASSESSMENT

WORKPLAN – March 23, 2020

Using the Minnesota River as a focal point, this project will examine issues facing the river's complex natural system, which is a shared resource and a place where varied interests and other systems converge. The report will examine pressures on the river from inside the watershed and expand to consider areas upland of the watershed. Fieldwork will be conducted to inventory gullies in the watershed and to prioritize the gullies by their potential for loading sediment into the Minnesota River. The outcome will determine the primary areas of flow and sediment contribution into the Minnesota River between the City of Carver and the confluence with the Mississippi River, as well as formulating potential management strategies moving forward.

Summary

Outcome: 2020 Updated Gully Inventory and Condition Assessment

Timeline for Completion of Project: 2020 – 2021

Project Partners: Minnesota Department of Natural Resources (MnDNR), U.S. Fish and Wildlife Service (USFWS), Trout Unlimited, City of Burnsville, City of Eagan, City of Bloomington, City of Savage, City of Shakopee, City of Chaska, City of Chanhassen, Dakota County, Carver County, Scott County, and Hennepin County.

Audience (For whom is this plan intended?): Cities and counties within the Lower Minnesota River Watershed District (LMRWD), and resource and landuse professionals.

Total Project Budget: \$109,000 – \$118,500, see table 1

Objective 1. Project Management

Task 1-1: Project plan development and project management. Finalize the workplan; assign project tasks; determine if additional resources are needed; set dates for deliverables; generate and maintain project schedule/Gantt chart.

Timeline for Objective 1 Completion: 5 – 7 months

Estimated Objective 1 Budget: \$4,500 – \$6,000

Objective 2. Collect and Review Data

Task 2-1: Gather background information. Gather background resource information from public resources, including LiDAR data from the MnDNR, and water resources management plans from partners' websites listed above. Develop standardized email for LMRWD to send to project partners notifying them about the project and advising that they may be contacted by Young Environmental staff.

Task 2-2: Desktop analysis. From the information collected in task 2-1, develop a list and map of existing gullies, as well as proposed and completed projects since 2006 that may have addressed gully erosion. Reach out to partners identified above for additional information as needed. Develop a Gully Erosion Susceptibility analysis and map using geospatial data, including MnDNR LiDAR data, soil types, land use and land cover, and surficial geology, to determine remotely which areas within the LMRWD watershed may be most susceptible to gully erosion.

Task 2-3: Complete a gaps analysis for 2020 fieldwork. Validate 2006 Gully Inventory and compare to LMRWD and partner studies and projects since 2006, as well as LMRWD and partner planned studies and projects and the

Gully Erosion Susceptibility analysis from task 2-2. Develop a list of sites which have not been assessed to date that will provide the basis for the objective 3 fieldwork. Work with project partners as needed.

Task 2-4: Condition assessment means and methods. Develop means and methods to address data gaps in the existing gully inventory and ensure the necessary data for determining a conditional assessment is collected during the 2020 fieldwork. Develop field data collection sheets to ensure data needed to objectively assess and rank an individual gully is captured during summer field visits.

Timeline for Objective 2 Completion: 6 – 10 weeks

Estimated Objective 2 Budget: \$15,000 – \$17,000

Objective 3. Fieldwork

Task 3-1: Gully Inventory. Deploy a team of interns to update the 2006 LMRWD Gully Inventory. Interns will collect photographs and waypoint locations of each of the gullies in the District identified in objective 2. Using the field data collection sheets developed in task 2-4, the current gully condition will be objectively assessed in the field. This will be supported by field data collection sheets, photographs, waypoint locations, and any field notes detailing the condition of the gully.

Task 3-2: Gully Ranking. Based on the gully condition assessment, rate the identified and assessed gullies in the LMRWD by the potential for sediment loading into the Minnesota River, HVRA, or 303-listed impaired waterbody, and potential project partnering opportunities.

Timeline for Objective 3 Completion: 12 weeks

Training Needed for Objective 3: Field safety training; gully condition assessment field sheets training.

Equipment Needed for Objective 3: Bug spray, sun block, car rental, LMRWD decals for cars, broomsticks/walking sticks, personal protective equipment (safety vests, safety glasses, hats), first aid kits, field notebooks, pencils, water bottles, and survey rods/measuring tape

Estimated Objective 4 Budget: \$74,000 – \$78,000

Objective 4. Documentation

Task 4-1: Generate draft outline. Generate draft annotated outline for the 2020 Updated Gully Inventory that will document the assumptions, methodology, results of the desktop analyses and 2020 fieldwork, and any recommendations or conclusions.

Task 4-2: Develop Updated Gully Inventory report. Building on the annotated outline, develop the draft report documenting methods, assumptions, procedures, results, and recommendations.

Task 4-3: Presentation of Approach and Preliminary Findings. Interns will present the gully inventory, condition assessment, and preliminary results to the LMRWD Board

Task 4-4: Submit Report for Review and Finalize Document. Submit draft Updated Gully Inventory to the District and project partners for consideration and written feedback with a two-week review window for return comments. Review feedback on draft Updated Gully Inventory. Incorporate edits as needed and submit final report to Board and project partners.

Timeline for Objective 4 Completion: 4 weeks

Estimated Objective 4 Budget: \$15,500 – \$17,500

Table 1: LMRWD 2020 Gully Inventory Update – Schedule and Cost Estimate

Objective	Task	Schedule (Mar. – Oct. 2020)	Budget
Objective 1. Project Management	Task 1-1: Project plan development and project management	5 – 7 months	\$4,500 – \$6,000
Objective 2. Collect and Review Data	Task 2-1: Gather background information	6 – 10 weeks	\$15,000 – \$17,000
	Task 2-2: Desktop analysis		
	Task 2-3: Complete gaps analysis for 2020 fieldwork		
	Task 2-4: Condition assessment means and methods		
Objective 3. Gully Inventory	Task 3-1: Gully inventory	10 – 12 weeks	\$74,000 – \$78,000
	Task 3-2: Gully ranking		
Objective 4. Documentation	Task 4-1: Annotated outline	4 weeks	\$15,500 – \$17,500
	Task 4-2: Updated Gully Inventory report		
	Task 4-3: Presentation of approach and findings		
	Task 4-4: Submit report for review and finalize Updated Gully Inventory		
Total		5 – 7 months	\$109,000 – \$118,500



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting

Wednesday, May 20, 2020

Agenda Item

Item 6. H. - Project Reviews

Prepared By

Linda Loomis, Administrator

Summary

i. Peterson Farms, LLC Road Maintenance Review (Permit No. 2020_100)

The LMRWD received an application to make a repair to access to fields located in the MN River floodplain. Staff has reviewed the application and recommends approval of the repairs. A technical memorandum is attached for Board review.

Attachments

Peterson Farms Technical Memorandum, dated May 15, 2020

Recommended Action

Motion to approve Permit No. 2020_100 allowing access road repairs within the MN River floodplain

ii. Hennepin County Regional Rail Authority (HCRRA) Trail Repair

This project is to repair the Minnesota River Bluffs Regional Trail that washed out during the summer of 2014. LMRWD staff has been working with the Hennepin County and Barr Engineering (the County's consultant) for approval of this project. A technical memorandum, dated January 6, 2020, has been attached to this summary along with the most recent technical memorandum dated April 13, 2020. The LMRWD asked for a maintenance agreement for the storm sewer facilities. A maintenance agreement was drafted for LMRWD review. Legal Counsel for the LMRWD reviewed the maintenance agreement and staff is recommending approval of the project and to authorize execution of the maintenance agreement.

Attachments

MN River Bluffs Regional Trails Technical Memorandum, dated April 13, 2020

MN River Bluffs Regional Trails Technical Memorandum, dated January 6, 2020

Agreement for Maintenance of Stormwater Facilities between the LMRWD and HCRRA

Recommended Action

Motion to approve MN River Bluffs Regional Trail repair and authorize execution of the maintenance agreement

iii. 565 Lakota Lane, Chanhassen - variance request

The LMRWD received notice of a request for a variance from city ordinance for the property at 565 Lakota Lane in Chanhassen. The variance requested is to allow for placement of a separate sanitary sewer system. If the septic system was placed as required by city ordinance, the septic tank would be located in the face of the bluff behind the home. The homeowner is therefore requesting the system be placed on the northwest corner of the property.

A technical memorandum prepared for this project is attached. Staff is not able to recommend approval until the location of the septic tanks has been verified.

Attachments

565 Lakota Lane Variance Request Technical Memorandum, dated May 15, 2020

Recommended Action

No action recommended

iv. Structures, Inc., Chaska

The city of Chaska provided details of this project to the LMRWD. The LMRWD was first made aware of this project in 2019 when Brian Field of Anderson Engineering contacted the LMRWD for information regarding requirements of the LMRWD. At that time LMRWD staff was working on rules. Now that the project is before the LMRWD, rules have been adopted. The applicant has been informed that the LMRWD will issue a permit, since the City has not yet applied for a municipal permit. LMRWD staff completed a technical review of the information submitted, but needs additional information before approval can be recommended.

Attachments

Structure, Inc. Technical Memorandum, dated May 15, 2020

Recommended Action

No action recommended

Technical Memorandum

To: Linda Loomis, Administrator
Lower Minnesota River Watershed District

From: Katy Thompson, PE, CFM
Della Schall Young, CPESC, PMP

Date: May 15, 2020

Re: Peterson Farms, LLC Road Maintenance Review (Permit No. 2020_100)

Mr. Bert Notermann requested a review of his proposed maintenance project from the Lower Minnesota River Watershed District (District). The project, located along Flying Cloud Drive (County Road 61) and shown in **Figure 1**, is to maintain an existing access road on his property that is used for farm operations as well as inspections by the Minnesota Department of Natural Resources and US Department of Agriculture. The proposed project is not in a high value resource or steep slope overlay districts; however, it is located in the 100-year floodplain, triggering a review of compliance with the District's Rule C.

Summary

<u>Project Name:</u>	Peterson Farms, LLC Road Maintenance
<u>Purpose:</u>	Perform routine maintenance activities on access road for farming operations and inspections
<u>Project Size:</u>	0.25 acres
<u>Location:</u>	Parcel ID 250020200, Flying Cloud Drive, Chanhassen, MN
<u>Applicable LMRWD Rules:</u>	Rule C
<u>Recommended Board Action:</u>	Approval

Discussion

Rule B—Erosion and Sediment Control

In his project, Mr. Notermann proposes maintenance activities necessary to restore the farm access road to its previous condition. The proposed disturbance affects 0.25 acres, which is less than the one-acre land disturbance threshold required to trigger Rule B.

Rule C—Floodplain and Drainage Alteration

The project is located in the 100-year FEMA floodplain and floodway, and a District permit is required for land alteration or placement of fill below the floodplain. The project proposes restoring the existing roadbed to its previous condition and does not include any new fill or other land alterations; thus, the project is not expected to unduly restrict flood flows or increase flood elevation levels.

Rule D—Stormwater Management

The District requires stormwater management for projects that create more than one acre of new impervious surfaces. This project does not propose creating any impervious areas as part of the maintenance repair work; therefore, Rule D is not applicable.

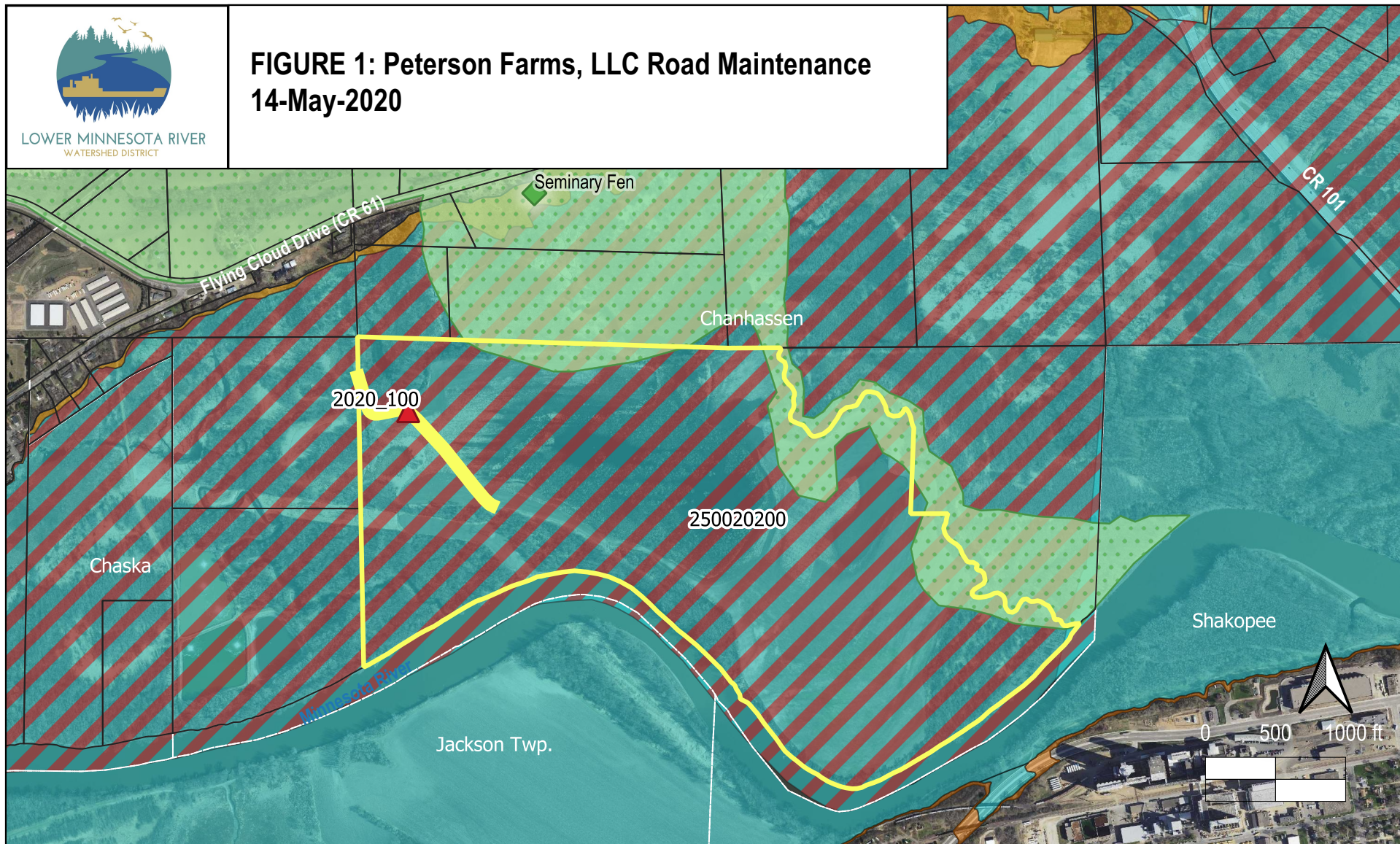
Recommendations

While it is located in the 100-year floodplain, the project is not expected to increase flood elevations or reduce flood storage capacity; thus, staff recommends that the proposed road maintenance project at Flying Cloud Drive be approved. If the proposal changes significantly, Mr. Notermann must provide the District with a narrative summarizing the changes and showing the project's compliance with Rule C or other rules it may trigger.



LOWER MINNESOTA RIVER
WATERSHED DISTRICT

**FIGURE 1: Peterson Farms, LLC Road Maintenance
14-May-2020**



LEGEND

LMRWD_Boundary

Approximate Project Location

Calcareous Fens

High Value Resource Area Overlay District

Carver Co. Parcel Data

Carver County Parcels

Peterson Farms, LLC Parcel

FEMA Floodplain

100-yr Floodway

100-yr Floodplain

500-yr Floodplain



Young Environmental Consulting
Group, LLC



LOWER MINNESOTA RIVER WATERSHED DISTRICT PROJECT REVIEW

Project ID	2020_0100	Authorization Agent	Bert Notermann
Project Name	Peterson Farms Road Maintenance	Email Address	bbnoter1@aol.com
Organization	Peterson Farms	Phone Number	9522402515
Notes	5/6/2020 - Received application thru website		

Project Summary

Anticipated start date	5/25/2020	Date received	5/6/2020
Project location	Co. Rd 61, Chanhassen, MN	Project map included?	<input type="checkbox"/>
Project acres	0.25	Is the project in an unincorporated area?	<input type="checkbox"/>
Total disturbed acres	0.25	Is it located in a High Value Resource Area	<input checked="" type="checkbox"/>
New impervious acres	0	Is it located in a Steep Slope Overlay District	<input type="checkbox"/>
Local Partners	n/a	Other Sensitive Areas	Applicant self identified project is located in the floodplain

Project Description

Maintain farm road. This road needs to be maintained for the DNR and US Dept of Agriculture for inspections and also for farming operations.

Additional Notes

5/6/20 - received application via website

Review Status

- Is this a preliminary review? ☐
- Is this a permit review? ☒
- Does this project require a technical review ☐

Project Status

- Project is pending ☒
- Project is active ☐
- Project has been archived ☐

Erosion and Sediment Control

This rule does not apply.

Triggers

Disturbs one acre plus ☐

Located within the HVRA
Overlay District ☐

Meets the HVRA threshold ☐

Criteria

Erosion and Sediment Control Plan ☐

Inspection and maintenance addressed ☐

NPDES/SDS General Construction
Permit documentation ☐

The documentation requirements for this rule have not been met. A review cannot be completed until all required documentation has been submitted.

Additional Notes

5/6/20 - maintenance activities on existing farm road - portions of the parcel are located in the HVRA, but the project limits are outside.

Floodplain Drainage Alteration

This rule does not apply.

Triggers

Changes in water surface elevation of
floodplain ☐

If yes,

Compensatory storage equal
or greater than volume of fill ☐

If no,

No-rise certification by a
professional engineer ☐

Calculations by a professional engineer
demonstrating no decrease to
conveyance ☐

Conveyance capacity decrease below
100yr high water elevation ☐

Temporary placement of fill ☐

Criteria

Net decrease of storage capacity OR
increase in 100yr elevation ☐

Will floodplain storage be created ☐

Adverse impacts to water quality,
habitat, or fisheries ☐

New structures have 2ft+ between
lowest enclosed area's floor and 100yr
high water elevation ☐

The documentation requirements for this rule have not been met. A review cannot be completed until all required documentation has been submitted.

Additional Notes

5/6/20 - maintenance activities on existing farm road along Minnesota River. The applicant is requesting to restore the road to its previously constructed conditions and will not be placing additional fill in the floodway.

Stormwater Managment

This rule does not apply.

Type of project Linear

Triggers

One acre or more of impervious surface

☐

Are trout streams protected

☐

HVRA Overlay District

Located within the HVRA Overlay District

☐

Rate control exceeded for 1, 2, 10, and 100yr 24-hour event

☐

If yes,

Meets the HVRA threshold

☐

Projects with 1+ acres of new impervious: are MPCA's Construction General Permit

☐

Criteria

Post-construction runoff rates exceed existing rates for 1, 2, 10, and 100yr 24-hour events?

☐

Net increase of TP

☐

Net increase of TSS

☐

Is maintenance adequately addressed

☐

New Development: the post-construction runoff volume retained onsite equal 1.1 inches of runoff from impervious surfaces

☐

Project will result in a net decrease of TP and TSS

☐

Redevelopment: the project will capture and retain onsite 1.1 inches from new/fully reconstructed impervious surface

☐

Volume control requirements sufficiently addressed

☐

Linear: the site will capture and retain (a) 0.55 inches of runoff from new/fully reconstructed impervious, or (b) 1.1 inches of runoff from the net increase in impervious area

☐

Alternative Infiltration Measures

Additional Notes

Steep Slopes

This rule does not apply.

Triggers

Is the project in the Steep Slopes Overlay District ☐

Excavation of 50 cubic yards+ of earth ☐

Displacement of 5,000 sq. ft+ of earth ☐

Vegetation removal or displacement ☐

Activities that require LGU permits ☐

Criteria

Has the project been certified by a professional engineer ☐

Adverse impact to waterbodies ☐

Unstable slope conditions ☐

Degradation of water quality ☐

Preservation of existing hydrology ☐

New discharge points along slope ☐

Additional Notes

Technical Memorandum

To: Linda Loomis, Administrator
Lower Minnesota River Watershed District

From: Della Schall Young, CPESC, PMP

Date: April 13, 2020

Re: Minnesota Bluffs LRT Regional Trail Repair – Final Project Review

CC: John Kolb, Attorney
Rinke Noonan

Young Environmental Consulting Group, LLC (Young Environmental), as requested by the Lower Minnesota River Watershed District (LMRWD or District), completed the preliminary review of the Minnesota Bluffs LRT Regional Trail Repair Project (the Project). The attached January 6, 2020, memo highlights the outstanding items below, which were conveyed to both Hennepin County Regional Rail Authority (HCCRA, the project's owner) and Barr Engineering Company (Barr, the project's design engineering company):

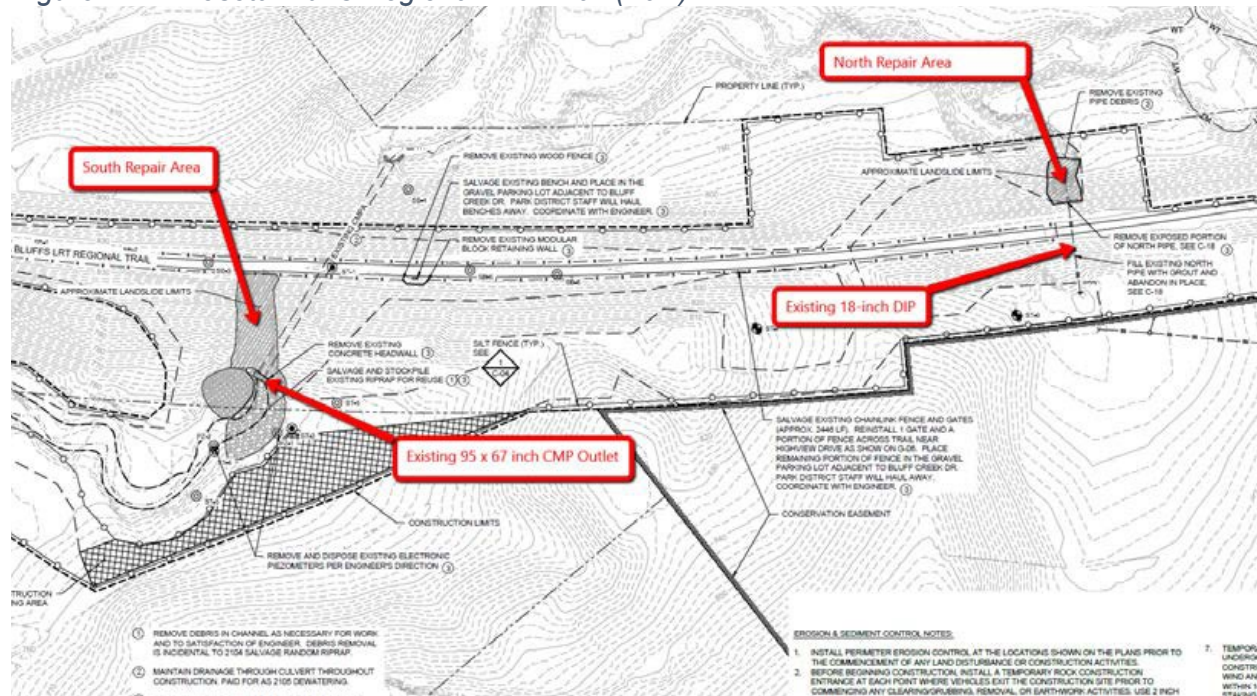
- Drainage calculations reflecting the effects of the Project on existing hydrology and drainage patterns.
- Long-term operation and maintenance agreement for the permanent stormwater management system.
- Final plans with the engineer's seal and signature, signifying the engineer on record certifies the suitability of the slopes for the proposed construction.

HCCRA and Barr have addressed the outstanding items as follows:

- *Drainage Calculations:* On January 21, 2020, Barr provided the Project's Hydraulic Design Summary Memorandum (Memo). The Memo provides the reasons for the changes to the existing conditions hydrology and hydraulics, as well as a summary of the design basis for the hydraulic structures implemented

(see Figure 1). Specifically, to fortify the existing drainage channel in the south repair area, the stream channel was armored with riprap, boulder cross-vanes, and a stilling basin to help mitigate future erosion. The modifications in the south repair area do not include the creation of new discharge points along the steep slopes. However, the proposed stream channel design represents a change to the existing hydrology. In the north repair area, the existing 18-inch culvert was abandoned and replaced with a channel and a new 24-inch culvert. Barr's analysis shows that water stored upstream of the proposed culvert will not cause flooding problems because enough storage is provided. Barr has provided satisfactory justification for the modifications to the hydrology, as they represent efforts to stabilize the slopes and accompanying drainage channels.

Figure 1: Minnesota Bluffs Regional LRT Trail (Barr)



- **Long-term Maintenance Agreement:** On April 8, 2020, HCRRA emailed the final draft agreement for maintenance. The agreement was been submitted to John Kolb, District Legal Counsel, for review.
- **Final Seal Plans:** On April 8, 2020, HCRRA provided the 100 percent plans. However, the engineer's name, signature, date, and license number are missing.

Recommendations

We recommend approval of the Project, conditioned on receiving the final executed Long-Term Maintenance Agreement addressing any comments generated by Legal Counsel and receipt of the final signed plans. If the Project significantly changes before or during construction, a narrative summarizing the proposed changes and how the

Project maintains compliance with District standards must be submitted to Linda Loomis, District Administrator.

Technical Memorandum

To: Linda Loomis, Administrator
Lower Minnesota River Watershed District

From: Shane Soukup, Water Resources Scientist
Della Schall Young, CPESC, PMP

Date: January 6, 2020

Re: Minnesota Bluffs LRT Regional Trail Repair – Project Review

Barr Engineering Co. (the Company) provided the Lower Minnesota River Watershed District (LMRWD or District) with plan sheets, including the stormwater pollution prevention plan (SWPPP), for the Minnesota Bluffs LRT Regional Trail Repair Project (the Project). The Company has asked the District to review the plan sheets to assess compliance with District standards. Young Environmental Consulting Group, LLC (Young Environmental) reviewed the plan sheets on the District's behalf; the findings are presented below.

The Project is located in the City of Chanhassen, on a segment of the Minnesota Bluffs LRT Regional Trail between Flying Cloud Drive and Pioneer Trail. In 2014, landslides and washouts occurred, closing the public's access to this portion of the trail. The Project consists of the repair and regrading of landslide damaged slopes, repair of damaged culverts, installation of storm sewer and manholes, and site restoration to reopen the trail. A new channel is also proposed, as part of the Project. The Project, located within the LMRWD Steep Slopes Overlay District, disturbs 7.22 acres of land and does not create a net change in impervious surface. The Project triggers the District's Erosion and Sediment Control Standard and the Steep Slopes Standard.

Erosion and Sediment Control Standard

The Project is required to comply with the NPDES General Construction Stormwater Permit (the General Permit), which satisfies most of the District's erosion and sediment control requirements. Included in the plans were site-specific erosion and sediment control details and plans and a comprehensive SWPPP. The following should be

included in the SWPPP narrative: Send the District a copy of the Project's General Permit and notify the District 48 hours before the start of construction.

Steep Slopes Standard

The Steep Slopes Standard (found in Appendix K of the District's Watershed Management Plan) requires the Project to comply with the following:

- 1) Land-disturbing activities as regulated in this section may occur within the Steep Slopes Overlay District, provided a qualified professional/professional engineer registered in the state of Minnesota certifies the suitability of the area for the proposed activities, structures, or uses resulting from the activities and the following requirements are addressed:
 - a) Minimum erosion and sediment control best management practices (BMPs) include site stabilization and slope restoration measures to ensure the proposed activity will not result in:
 - i) Adverse impacts to adjacent and/or downstream properties or water bodies;
 - ii) Unstable slopes conditions; and
 - iii) Degradation of water quality due to erosion, sedimentation, flooding, and other damage.
 - b) Preservation of existing hydrology and drainage patterns. Land-disturbing activities may not result in any new water discharge points on steep slopes or along the bluff.

Findings:

- The Project is intended to repair damage caused by landslides that occurred in 2014 and to regrade the slopes to improve trail safety and the suitability of the slopes.
- The plans include site-specific erosion and sediment control BMPs utilized for steep slopes, including erosion control blankets, seeding, horizontal slope grading, and terracing.
- A storm sewer and drainage channel are being constructed on the southern side of the trail using a turf reinforcement mat. An existing culvert, which crosses the trail on the northern edge of the Project, will be plugged. The new storm sewer runs parallel to the trail on the southern edge and serves to replace the drainage needs of the plugged culvert. The proposed storm sewer will drain into the newly constructed drainage channel, which outlets into a preexisting outlet for a culvert on the southern edge of the Project. Although the proposed alterations will not create a new discharge point along the steep slope, drainage calculations were not provided to determine the effects of the Project on existing hydrology and drainage patterns. In addition, Hennepin County Regional Railroad Authority's

long-term operation and maintenance plan for the permanent stormwater management system was not provided.

- The final plan documents must include the engineer's seal and signature, signifying the engineer on record certifies the suitability of the slopes for the proposed construction.

Recommendations

The information provided on the Project generally addresses the needs of the District's Erosion and Sediment Control Standard. However, there are several items associated with the Steep Slopes Standard that must be addressed before we can recommend approval of the Project. The Project proposer is encouraged to contact Della Schall Young at (651) 249-6974 or della@youngecg.com to discuss and address the outstanding requirements expeditiously. Otherwise, the Company should submit the final complete Project documents four weeks before a District Board meeting, which generally takes place on the third Wednesday of each month.

Enclosure: LMRWD 2019_085 Project Review Output



LOWER MINNESOTA RIVER WATERSHED DISTRICT PROJECT REVIEW

Project ID	2019_085	Authorization Agent	Sarah Johnson
Project Name	Minnesota Bluffs LRT Regional Trail Repair	Email Address	sjohnson@barr.com
Organization	Hennepin County Regional Railroad Authority	Phone Number	2182608025

Notes

Project Summary

Anticipated start date	12/16/2019 10:06:09 AM	Date received	12/12/2019
Project location	Chanhassen	Project map included?	<input checked="" type="checkbox"/>
Project acres	7.22	Is the project in an unincorporated area?	<input type="checkbox"/>
Total disturbed acres	7.22	Is it located in a High Value Resource Area	<input type="checkbox"/>
New impervious acres	0	Is it located in a Steep Slope Overlay District	<input checked="" type="checkbox"/>
Local Partners		Other Sensitive Area	

Project Description

This project involves erosion control, repair and regrading of landslide damaged slopes, repair of damaged culverts, installation of storm sewer and manholes and site restoration.

Additional Notes

Review Status

Is this a preliminary review?	<input checked="" type="checkbox"/>
Is this a permit review?	<input type="checkbox"/>
Does this project require a technical review	<input checked="" type="checkbox"/>

Project Status

Project is pending	<input checked="" type="checkbox"/>
Project is active	<input type="checkbox"/>
Project has been archived	<input type="checkbox"/>

Erosion and Sediment Control Standard

This project triggers one or more thresholds for this standard.

Triggers

- | | |
|--|-------------------------------------|
| Disturbs one acre plus | <input checked="" type="checkbox"/> |
| Located within the HVRA Overlay District | <input type="checkbox"/> |
| Meets the HVRA threshold | <input type="checkbox"/> |

Criteria

- | | |
|---|-------------------------------------|
| Erosion and Sediment Control Plan | <input checked="" type="checkbox"/> |
| Inspection and maintenance addressed | <input checked="" type="checkbox"/> |
| NPDES/SDS General Construction Permit documentation | <input type="checkbox"/> |

The documentation requirements for this standard have not been met. A review cannot be completed until all required documentation has been submitted.

Additional Notes

12/18/19 - Initial review of the project completed. District requests:

- Send the District a copy of the Project's NPDES General Permit and notify the District 48 hours before the start of construction.

Floodplain Drainage Alteration Standard

This standard does not apply.

Triggers

- | | |
|--|--------------------------|
| Changes in water surface elevation of floodplain | <input type="checkbox"/> |
| <i>If yes,</i> Compensatory storage equal or greater than volume of fill | <input type="checkbox"/> |
| <i>If no,</i> No-rise certification by a professional engineer | <input type="checkbox"/> |

Criteria

- | | |
|---|--------------------------|
| Net decrease of storage capacity OR increase in 100yr elevation | <input type="checkbox"/> |
| Will floodplain storage be created | <input type="checkbox"/> |

- | | |
|--|--------------------------|
| Calculations by a professional engineer demonstrating no decrease to conveyance | <input type="checkbox"/> |
| Conveyance capacity decrease below 100yr high water elevation | <input type="checkbox"/> |
| Temporary placement of fill | <input type="checkbox"/> |
| Adverse impacts to water quality, habitat, or fisheries | <input type="checkbox"/> |
| New structures have 2ft+ between lowest enclosed area's floor and 100yr high water elevation | <input type="checkbox"/> |

Additional Notes

Stormwater Management Standard

This standard does not apply.

Type of project

Triggers

One acre or more of impervious surface

☐

Are trout streams protected

☐

HVRA Overlay District

Located within the HVRA Overlay District

☐

Rate control exceeded for 1, 2, 10, and 100yr 24-hour event

☐

If yes,

Meets the HVRA threshold

☐

Projects with 1+ acres of new impervious: are MPCA's Construction General Permit

☐

Criteria

Post-construction runoff rates exceed existing rates for 1, 2, 10, and 100yr 24-hour events?

☐

Net increase of TP

☐

Net increase of TSS

☐

Is maintenance adequately addressed

☐

New Development: the post-construction runoff volume retained onsite equal 1.1 inches of runoff from impervious surfaces

☐

Project will result in a net decrease of TP and TSS

☐

Redevelopment: the project will capture and retain onsite 1.1 inches from new/fully reconstructed impervious surface

☐

Volume control requirements sufficiently addressed

☐

Linear: the site will capture and retain (a) 0.55 inches of runoff from new/fully reconstructed impervious, or (b) 1.1 inches of runoff from the net increase in impervious area

☐

Alternative Infiltration Measures

Additional Notes

Shoreline and Streambank Alteration Standard

This standard does not apply.

Triggers

Work or alternation below the ordinary high-water mark ☐

Work within the bankfull height of a watercourse ☐

Addition of new material or structural changes to the shoreline or streambank ☐

Criteria

Obtained a DNR permit ☐

Is a copy of the permit included ☐

Shoreline stabilized with minimal encroachment/interference of flow or navigation ☐

Are retaining walls used ☐

Is there a demonstrated need for the wall(s) ☐

Has a registered engineer certified the wall design ☐

Will riprap be placed and sized appropriately ☐

Will transitional layers meet requirements ☐

Will riprap meet height requirements ☐

Will shoreline erosion protection account for soils, wave energy, and ice pressure/movement ☐

Additional Notes

Steep Slopes Standard

This project triggers one or more thresholds for this standard.

Triggers

Is the project in the Steep Slopes Overlay District ☒

Excavation of 50 cubic yards+ of earth ☐

Displacement of 5,000 sq. ft+ of earth ☐

Vegetation removal or displacement ☒

Activities that require LGU permits ☐

Criteria

Has the project been certified by a professional engineer ☒

Adverse impact to waterbodies ☐

Unstable slope conditions ☐

Degradation of water quality ☐

Preservation of existing hydrology ☒

New discharge points along slope ☐

The submission included the required documentation for this standard.

Additional Notes

12/18/19 - Initial District Review

- A storm sewer and drainage channel are being constructed on the southern side of the trail using a turf reinforcement mat. An existing culvert, which crosses the trail on the northern edge of the

Project, will be plugged. The new storm sewer runs parallel to the trail on the southern edge and serves to replace the drainage needs of the plugged culvert. The proposed storm sewer will drain into the newly constructed drainage channel, which outlets into a preexisting outlet for a culvert on the southern edge of the Project. Although the proposed alterations will not create a new discharge point along the steep slope, drainage calculations were not provided to determine the effects of the Project on existing hydrology and drainage patterns. In addition, Hennepin County Regional Railroad Authority's long-term operation and maintenance plan for the permanent stormwater management system was not provided.

- The final plan documents must include the engineer's seal and signature signifying the engineer on record certifies the suitability of the slopes for the proposed construction.

Water Appropriations Standard

This standard does not apply.

Triggers

Is the project in the HVRA Overlay District ☐

Did the project apply for a DNR Water Appropriations Permit ☐

Will the project withdrawal more than 10,000 gallons per day ☐

Is a copy of the DNR Water Appropriations Permit included with the submission documents ☐

Will the project withdrawal more than 1 million gallons per year ☐

Has the LMRWD reviewed the DNR Water Appropriations Permit ☐

Criteria

Have documents demonstrated no net change in groundwater levels to adjacent fens ☐

Discharge management plan ☐

Has the plan been reviewed AND accepted by the LMRWD ☐

Additional Notes

Water Crossings Standard

This standard does not apply.

Triggers

Horizontal drilling under a road, highway, utility, bridge, boardwalk or associated structure that is in contact with the bed/bank of a waterbody ☐

Placement of a road, highway, utility, bridge, boardwalk or associated structure in contact with the bed/bank of a waterbody ☐

Altering a waterbody to enclose it within a pipe or culvert ☐

Construction timed to avoid spawning ☐

Aquatic/upland wildlife passages preserved ☐

Hydraulic and navigation capacity retained ☐

Analysis of the effects of the project on the stream/waterway by a qualified professional ☐

Designated trout stream, or contain endangered or threatened species ☐

Status of additional consultation with LMRWD

Criteria

Is the DNR manual "Best Practices for Meeting DNR General Public Waters Work Permit GP 2004-0001" followed ☐

Maintenance agreement ☐

Additional Notes

**AGREEMENT FOR MAINTENANCE OF STORMWATER FACILITIES
BETWEEN LOWER MINNESOTA RIVER WATERSHED DISTRICT AND
HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY**

This Agreement for the Maintenance of Stormwater Facilities (“**Maintenance Agreement**”) is made by and between the Lower Minnesota River Watershed District, a political subdivision and special-purpose local government unit of the State of Minnesota (“**LMRWD**”), and Hennepin County Regional Railroad Authority, a political subdivision and local government unit of the State of Minnesota (“**HCRRA**”). LMRWD and HCRRA are referred to collectively herein as the **Parties**.

RECITALS

WHEREAS, LMRWD has the purposes and powers set forth in Minnesota Statutes Chapters 103B and 103D; and

WHEREAS, pursuant to Minnesota Statutes § 103D.335, the LMRWD adopted and enforces standards for improvements that may impact water resources, and which regulate the design, construction, and maintenance of drainage systems or facilities within its jurisdiction; and

WHEREAS, HCRRA owns property it intends to improve for the purpose of repairing the Minnesota Bluffs LRT Regional Trail (“**Property**”); and

WHEREAS, the Property is described and depicted in Exhibit A, attached hereto and incorporated herein; and

WHEREAS, LMRWD adopted and enforces the Stormwater Management Standard, regulating the improvements that HCRRA wishes to make to the existing drainage and stormwater management system or facilities located on the Property in Carver County, Minnesota (“**Facilities**”), as shown in the site plan in Exhibit B, attached hereto and incorporated herein; and

WHEREAS, the Facilities require ongoing inspection and maintenance; and

WHEREAS, the Maintenance and Easement section of the Stormwater Management Standard requires a private landowner to record in the recorder's office where its drainage and stormwater system or facilities are located, a maintenance agreement which memorializes a plan and a perpetual obligation to inspect and maintain its stormwater system and/or facilities; and

WHEREAS, a public landowner may meet the aforementioned recording requirement by entering a written agreement with the LMRWD which memorializes a plan and a perpetual obligation to inspect and maintain its drainage and stormwater system or facilities; and

WHEREAS, in accordance with the LMRWD rules and regulations, and as a condition precedent to LMRWD's grant of approval on _____, _____. 2020 of HCRRA's plans to improve the Facilities, the HCRRA must enter a written agreement with LMRWD which memorializes its plan and its perpetual obligation to inspect and maintain the Facilities; and

WHEREAS, the Parties executed this Maintenance Agreement to satisfy the condition precedent to LMRWD's grant of approval on approval on __, _____. 2020 of HCRRA's plans to improve the Facilities.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual and reciprocal promises, LMRWD and HCRRA hereby agree as follows:

1. **Recitals.** All of the Recitals set forth above are incorporated herein.
2. **Stormwater Management Standard.** LMRWD hereby agrees that this Maintenance Agreement fully satisfies LMRWD's inspection, maintenance, reporting, and property transfer requirements.
3. **Facilities.** (a) The HCRRA, at its sole cost, shall inspect and maintain the Facilities in perpetuity as follows:

(1) **Raingardens, infiltration basins and filtration basins.** Infiltration basins and filtration basins shall be inspected annually to ensure continued live storage capacity at or above the design volume. Invasive vegetation, excess sediment and debris shall be removed as needed, and healthy plant growth shall be maintained to ensure that the Facilities remain in a condition that continues to accomplish the purposes for which they were designed, constructed and permitted.

(2) **Grit chambers, sump catch basins and sump manholes.** Grit chambers, sump catch basins, and sump manholes shall be inspected in the spring, summer and fall of each year. All sediment and debris shall be removed as needed to ensure that the Facilities operate as designed and constructed, and in a condition that continues to accomplish the purposes for which they were designed, constructed and permitted.

3. **Reporting.** By January 31 of each year, HCRRA shall submit a brief, annual report to LWMRD that describes the inspection and maintenance activities performed to the Facilities under this Maintenance Agreement in the preceding calendar year. The report shall include the dates and locations of any inspections and maintenance activities performed to the Facilities.
4. **Property Transfer.** (a) If the HCRRA conveys a fee interest in any portion of the Property to a private rather than a public owner ("**Private Purchaser**"), then the HCRRA shall require as a condition of that purchase and sale agreement, and shall enforce the following condition:

(1) The Private Purchaser must record with in the Carver County Recorder's Office, a declaration on the Property that incorporates the maintenance requirements of this Maintenance Agreement; and

(2) Said recording required under Section 4(a)(1) of this Maintenance Agreement must occur either before any other encumbrance is recorded on the Property or, if after, only as accompanied by a subordination and consent executed by the encumbrance holder ensuring that the declaration will run with the land in

perpetuity.

(b) If the HCRRA conveys a fee interest in any portion of the Property that has become subject to this Maintenance Agreement to a public rather than private owner, ("**Public Purchaser**"), then the HCRRA shall require as part of that conveyance that the Public Purchaser accept an assignment of all obligations of HCRRA under this Maintenance Agreement.

(c) If the HCRRA transfers any ownership or responsibilities under this Maintenance Agreement to a Private Purchaser or to a Public Purchaser, then the HCRRA must notify the LMRWD of the details of that transfer.

4. **Assignment of Rights and Obligations.** The HCRRA may assign and transfer any rights and obligations under this Maintenance Agreement to Carver County without the written approval of LMRWD. Carver County may subsequently assign and transfer any rights and obligations under this Maintenance Agreement that it accepts from HCRRA to the Carver County Regional Railroad Authority without the written approval of LMRWD. Any other assignment or transfer of any rights or obligations under this Maintenance Agreement requires the written permission of LMRWD.
5. **Effective Date.** This Maintenance Agreement shall be effective when executed by all of the Parties.
6. **Amendments and Termination.** This Maintenance Agreement may be amended and terminated only in a writing signed by the Parties.

[SIGNATURE PAGE FOLLOWS]

LOWER MINNESOTA RIVER WATERSHED DISTRICT AUTHORIZATION

IN WITNESS THEREOF, the Lower Minnesota River Watershed District has caused this Maintenance Agreement to be executed by its _____ and by its _____, pursuant to the authority of its _____, its governing body, on this _____ day of _____, _____.

SIGNED: _____

DATE: _____

Print Name and Position

SIGNED: _____

DATE: _____

Print Name and Position

IN WITNESS THEREOF, the HCRRA has caused this Maintenance Agreement to be executed by its Chair and Executive Director, pursuant to the authority of the Hennepin County Board of Commissioners, its governing body, on this _____ day of _____, _____.

Reviewed by the County
Attorney's Office

Date: _____

HENNEPIN COUNTY REGIONAL
RAILROAD AUTHORITY
STATE OF MINNESOTA

By: _____
Chair of Its Board
Date: _____

ATTEST: _____
Deputy/Clerk of County Board
Date: _____

HCRRA AUTHORIZATION

By: _____
Executive Director
Date: _____

By: _____
Deputy Executive Director
Date: _____

Recommended for Approval:

Director, Community Works
Date: _____

EXHIBIT A

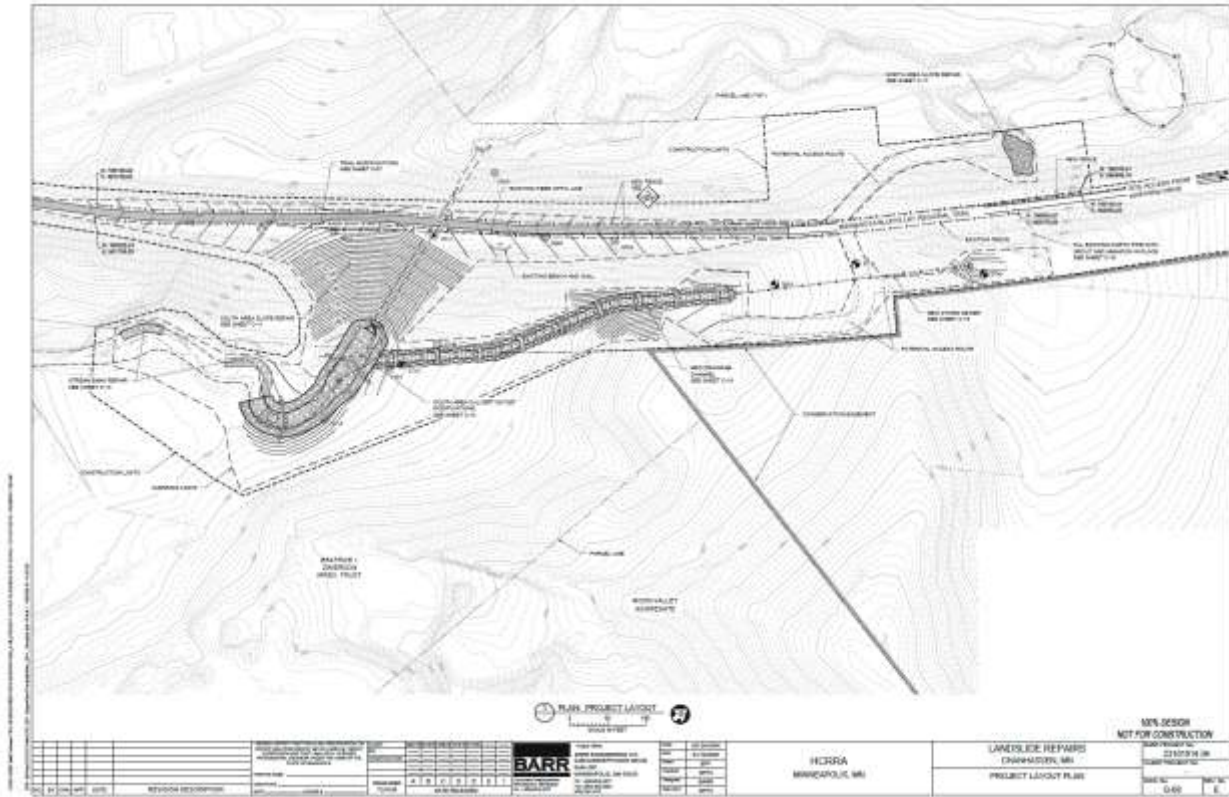
(Property Description and Depiction)

(Legal Description of Property)

All that part of a variable width strip of land in Sections 36 and 25, Township 116, Range 23, Carver County, Minnesota, being former railroad right of way as shown on HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY PROPERTY MAP NO.'s 15 and 16, according to the recorded Maps thereof, said Carver County, lying easterly of the east line of the 66.00 foot wide strip depicted and labelled as "STATE HIGHWAY NO 101" in said Property Map No. 15.

EXHIBIT B

(Site Plan of Facilities)



Technical Memorandum

To: Linda Loomis, Administrator
Lower Minnesota River Watershed District

From: Katy Thompson, PE, CFM
Della Schall Young, CPESC, PMP

Date: May 15, 2020

Re: 565 Lakota Lane Septic Variance Request Review (Permit No. 2020_101)

The City of Chanhassen (City) provided the Lower Minnesota River Watershed District (LMRWD or District) with a project review request for 565 Lakota Lane (Parcel ID 251300010). The landowner is installing a new mound septic system on the northwest corner of their property (**Figure 1**), and the City has requested agency review of the project. The project is not in a high value resource area overlay district. However, it may be in the District's Steep Slopes Overlay District, triggering review of the project for required compliance with the District's Rule F—Steep Slopes Rule. Rule B—Erosion and Sediment Control—and Rule D—Stormwater Management—may apply, and therefore, compliance with those requirements were also checked.

Summary

<u>Project Name:</u>	565 Lakota Lane Septic Variance
<u>Purpose:</u>	Construction of new septic system at 565 Lakota Lane
<u>Project Size:</u>	2.57-acre parcel, ~2,500 square feet of disturbance, no new impervious surface
<u>Location:</u>	Parcel ID 250020200, Flying Cloud Drive, Chanhassen, MN

Applicable LMRWD Rules: 565 Lakota Lane, Chanhassen, MN

Recommended Board Action: No action, incomplete application/additional information required.

Discussion

The District has been provided the following documents for our review:

- Agency Review Request from City of Chanhassen, dated May 4, 2020
- Percolation Tests, Soil Borings, and Septic Design by Bohn Well Drilling Co., dated April 8, 2020
- Certificates of Survey by Pioneer Engineering, dated March 10, 2020, and April 2, 2020
- Application for Development Review, dated May 1, 2020
- Fee Breakdown
- Letter from Landowners, dated April 20, 2020
- Notice of Public Hearing, to be published in the *Chanhassen Villager* on May 21, 2020
- Property Card, dated April 27, 2020

Rule B—Erosion and Sediment Control

The project proposes minor grading activities necessary to install a mound septic system to serve the residence at 565 Lakota Lane. The District's Rule B applies to activities that disturb one or more acres of land; as such, this rule does not apply.

Rule D—Stormwater Management

The District requires stormwater management for projects that propose to create more than one acre of new impervious surfaces. This project does not include any new impervious area as part of the construction of the septic system; therefore, Rule D does not apply.

Rule F—Steep Slopes Rule

The District regulates land disturbing activities within the Steep Slopes Overlay District (SSOD) and requires a permit for activities that involve the excavation of 50 cubic yards or more of earth or the displacement or removal of 5,000 square feet or more of surface area or vegetation within the overlay area. Based on the information provided, the proposed septic mound is located outside of the SSOD; however, the proposed tanks may be located on or within that boundary. We will need additional information provided demonstrating the construction of the tanks will be in compliance with the District's Rule

F or is outside of the SSOD and therefore not applicable.

Recommendations

Because of the uncertainty of the location of the tanks, we recommend authorizing staff to collect additional information from the applicant confirming their location. District Staff would ask the applicant to provide evidence that the entire project is located outside of the SSOD. Following receipt of the information, we will update our recommendations.

Attachments:





Figure 1—Proposed Project Location Map

LMRWD Permit Review Checklist

FIGURE 1: 565 Lakota Lane Variance Request 14-May-2020



LEGEND

- | | |
|---|---|
| Carver Co. Parcel Data |  Proposed Septic Mound and Tanks |
|  565 Lakota Lane |  Steep Slopes Overlay District |
|  Carver County Parcels | |



LOWER MINNESOTA RIVER WATERSHED DISTRICT PROJECT REVIEW

Project ID	2020_0101	Authorization Agent	Heather Silva
Project Name	565 Lakota Ln Septic Variance	Email Address	heather.lynn.silva@gmail.com
Organization	Private Resident	Phone Number	9524849366
Notes 5/4/20 - Received agency review request from City of Chanhassen			

Project Summary

Anticipated start date	5/12/2020 10:06:33 AM	Date received	5/4/2020
Project location	565 Lakota Ln, Chaska, MN	Project map included?	<input type="checkbox"/>
Project acres	0	Is the project in an unincorporated area?	<input type="checkbox"/>
Total disturbed acres	0	Is it located in a High Value Resource Area	<input type="checkbox"/>
New impervious acres	0	Is it located in a Steep Slope Overlay District	<input checked="" type="checkbox"/>
Local Partners	Other Sensitive Area		
n/a			

Project Description

Consider a request for setback variances to install a septic system in the NW corner of property located at 565 Lakota Lane.

Additional Notes

5/4/20 - Received agency review request from City of Chanhassen

Review Status

- | | |
|---|-------------------------------------|
| Is this a preliminary review? | <input type="checkbox"/> |
| Is this a permit review? | <input checked="" type="checkbox"/> |
| Does this project require a technical review? | <input type="checkbox"/> |

Project Status

- | | |
|---------------------------|-------------------------------------|
| Project is pending | <input checked="" type="checkbox"/> |
| Project is active | <input type="checkbox"/> |
| Project has been archived | <input type="checkbox"/> |

Erosion and Sediment Control

This rule does not apply.

Triggers

Disturbs one acre plus ☐

Located within the HVRA
Overlay District ☐

Meets the HVRA threshold ☐

Criteria

Erosion and Sediment Control Plan ☐

Inspection and maintenance addressed ☐

NPDES/SDS General Construction
Permit documentation ☐

The documentation requirements for this rule have not been met. A review cannot be completed until all required documentation has been submitted.

Additional Notes

5/12/20 - total land disturbance not provided, however assumed to fall under "minor" category

Floodplain Drainage Alteration

This rule does not apply.

Triggers

Changes in water surface elevation of
floodplain ☐

If yes,

Compensatory storage equal
or greater than volume of fill ☐

If no,

No-rise certification by a
professional engineer ☐

Calculations by a professional engineer
demonstrating no decrease to
conveyance ☐

Conveyance capacity decrease below
100yr high water elevation ☐

Temporary placement of fill ☐

Criteria

Net decrease of storage capacity OR
increase in 100yr elevation ☐

Will floodplain storage be created ☐

Adverse impacts to water quality,
habitat, or fisheries ☐

New structures have 2ft+ between
lowest enclosed area's floor and 100yr
high water elevation ☐

Additional Notes

5/12/20 - no floodplain on property

Stormwater Managment

This rule does not apply.

Type of project Development

Triggers

One acre or more of impervious surface

☐

Are trout streams protected

☐

HVRA Overlay District

Located within the HVRA Overlay District

☐

Rate control exceeded for 1, 2, 10, and 100yr 24-hour event

☐

If yes,

Meets the HVRA threshold

☐

Projects with 1+ acres of new impervious: are MPCA's Construction General Permit

☐

Criteria

Post-construction runoff rates exceed existing rates for 1, 2, 10, and 100yr 24-hour events?

☐

Net increase of TP

☐

Net increase of TSS

☐

New Development: the post-construction runoff volume retained onsite equal 1.1 inches of runoff from impervious surfaces

☐

Is maintenance adequately addressed

☐

Project will result in a net decrease of TP and TSS

☐

Redevelopment: the project will capture and retain onsite 1.1 inches from new/fully reconstructed impervious surface

☐

Volume control requirements sufficiently addressed

☐

Linear: the site will capture and retain (a) 0.55 inches of runoff from new/fully reconstructed impervious, or (b) 1.1 inches of runoff from the net increase in impervious area

☐

Alternative Infiltration Measures

Additional Notes

5/12/20 - stormwater rule does not apply

Steep Slopes

This project triggers one or more thresholds for this rule.

Triggers

Is the project in the Steep Slopes Overlay District ☒

Excavation of 50 cubic yards+ of earth ☒

Displacement of 5,000 sq. ft+ of earth ☒

Vegetation removal or displacement ☒

Activities that require LGU permits ☒

Criteria

Has the project been certified by a professional engineer ☐

Adverse impact to waterbodies ☐

Unstable slope conditions ☐

Degradation of water quality ☐

Preservation of existing hydrology ☐

New discharge points along slope ☐

The documentation requirements for this rule have not been met. A review cannot be completed until all required documentation has been submitted.

Additional Notes

5/12/20 - project proposes a new septic system for 565 Lakota Lane, only feasible location is NW corner, avoiding the steep slopes overlay district. Agree with proposed placement.

Technical Memorandum

To: Linda Loomis, Administrator
Lower Minnesota River Watershed District

From: Katy Thompson, PE, CFM
Della Schall Young, CPESC, PMP

Date: May 15, 2020

Re: Structures, Inc., Initial Project Review (Permit No. 2020_102)

The City of Chaska provided the Lower Minnesota River Watershed District (District) with the Stormwater Management Plan for the Structures, Inc., proposed development (Project). HGA Architects and Anderson Engineering of Minnesota, LLC, are proposing to develop the parcel for industrial purposes and expand the existing stormwater pond to provide treatment for the new development. The proposed Project is not in a high value resource area overlay district or a steep slope overlay district.

Summary

<u>Project Name:</u>	Structures, Inc.
<u>Purpose:</u>	Construction of new office/warehouse, parking lot, and storage yard for Structures, Inc.
<u>Project Size:</u>	5.25-acre parcel, 4.94 acres of disturbance, 1.521 acres of new impervious surface
<u>Location:</u>	Southwest corner of Arbor Drive and Old Audubon Road, Chaska, MN (Parcel ID 301460020)
<u>Applicable LMRWD Rules:</u>	Rule B—Erosion and Sediment Control, Rule D—Stormwater Management

Recommended Board Action: No action, incomplete application

Discussion

HGA Architects and Anderson Engineering of Minnesota, LLC, are proposing to construct a new office and warehouse building, parking lot, and storage yard located in the southwest corner of Arbor Drive and Old Audubon Street in Chaska, Minnesota (Carver County Parcel ID: 301460020, Out-lot A of the East Creek Carriage Homes Subdivision). The District has been provided with the following documents for our review:

- Storm Water Management Plan, dated March 27, 2019, revised April 29, 2020, by Anderson Engineering of MN, LLC
- City of Chaska's Stormwater Review of Structures, Inc., Memo, dated May 12, 2020, by Stantec
- The proposed project is located in the City of Chaska and normally would be subject to municipal review; however, the City of Chaska does not have an approved Municipal Permit with the District. As such, the applicant must receive a District permit prior to construction.

Rule B—Erosion and Sediment Control

The District regulates land-disturbing activities that affect one acre or more outside the High Value Resource Area (HVRA) Overlay District under Rule B. The proposed project disturbs 4.94 acres. The applicant provided an erosion and sediment control plan, but to complete our review, the applicant must also submit the following:

- Stormwater Pollution Prevention Plan
- Stormwater Maintenance Agreement

Rule D—Stormwater Management

The District requires stormwater management for projects that propose to create more than one acre of new impervious surfaces. The stormwater management for the project must meet District criteria for rate control, volume reduction, and water quality. Below is a summary of our review of how those criteria are met by the project.

Rate Control

Section 4.4.1 of Rule D requires that applicants demonstrate no increase in proposed runoff rates when compared to existing conditions. The rate control requirement for the proposed development is met by a proposed expansion of an

existing stormwater pond currently serving the East Creek Carriage Homes subdivision. A summary of the provided results appears in **Table 1** below.

Table 1. Structures, Inc., Rate Control Summary

EVENT	EXISTING (CFS)	PROPOSED (CFS)	Δ (CFS)
2-YR 24-HR	2.23	2.05	-0.18
10-YR 24-HR	3.02	2.85	-0.17
100-YR 24-HR	6.99	4.85	-2.14
100-YR 10-DAY (SNOW)	3.86	3.52	-0.34

It should be noted that the HydroCAD modeling contains an error; some of the catchments (1S, 2S, 3S, 10S, and 20S) are using a Type B hydrologic soil group, while the soil borings indicate clay, and peat deposits cover much of the site. Please revise the existing and proposed models to reflect the soil boring information.

By expanding the existing East Creek Carriage Homes' stormwater pond, the proposed development is able to meet the District's rate control requirements without reducing the freeboard of the pond.

Volume Reduction

Section 4.4.2 of Rule D requires volume reduction for postconstruction stormwater runoff volumes for projects that create more than one acre of impervious surface. No information has been provided.

Water Quality

Section 4.4.3 of Rule D requires that projects that create more than one acre of impervious surface provide evidence that no net increase will result from the project in total phosphorus (TP) or total suspended solids (TSS) in the receiving waters. The Structures, Inc., project proposes to use an existing stormwater pond to meet the required water quality control requirement; the applicant must demonstrate that the modification of the East Creek Carriage Homes' stormwater pond will not result in an overall net reduction in water quality benefits. They must ensure that the existing pond will continue to provide the water quality treatment originally intended, as well as provide the required water quality benefits for the proposed Structures, Inc., development.

The District also requires applicants to develop and adhere to a stormwater maintenance plan for the project, including acquisition of any necessary easements.

Recommendations

We are unable to complete our review of the Structures, Inc., development because the required submittals for Rule B—Erosion and Sediment Control and Rule D—Stormwater Management were not provided. The applicant must provide the following for us to complete our review:

- Stormwater Pollution Prevention Plan
- Stormwater Maintenance Agreement
- Stormwater volume reduction calculations
- Stormwater water quality calculations and demonstration of the following:
 - The proposed modifications to the existing East Creek Carriage Homes' stormwater pond will not reduce the water quality treatment currently provided for the pond for the subdivision.
 - The proposed modifications are sufficient to meet the District's water quality criteria for the proposed Structures, Inc., development.

We recommend that the current application be deemed incomplete and that the Board direct District staff to work with the applicant. We also recommend that the applicant submit a permit application through the new LMRWD Rules website.

Attachments:

Figure 1—Proposed Project Location Map

LMRWD Permit Review Checklist



LOWER MINNESOTA RIVER
WATERSHED DISTRICT

FIGURE 1: Structures, Inc. Development Review 15-May-2020



LEGEND

- | | | |
|------------------------|-----------------------|-------------------------------|
| LMRWD Boundary | Carver Co. Floodplain | Steep Slopes Overlay District |
| Carver Co. Parcel Data | 100-yr Floodway | HVRA Overlay District |
| Structures, Inc. | 100-yr Floodplain | |
| Carver County Parcels | 500-yr Floodplain | |



LOWER MINNESOTA RIVER WATERSHED DISTRICT PROJECT REVIEW

Project ID	2020_0102	Authorization Agent	Brian Field
Project Name	Structures, Inc.	Email Address	
Organization	HTG Architects	Phone Number	7634124090

Notes

Project Summary

Anticipated start date	5/13/2020 10:44:38 AM	Date received	5/4/2020
Project location	Chaska, MN	Project map included?	<input checked="" type="checkbox"/>
Project acres	5.25	Is the project in an unincorporated area?	<input type="checkbox"/>
Total disturbed acres	4.94	Is it located in a High Value Resource Area	<input type="checkbox"/>
New impervious acres	1.521	Is it located in a Steep Slope Overlay Distric	<input type="checkbox"/>
Local Partners	Other Sensitive Areas		
n/a			

Project Description

The project includes site clearing and demolishing of an existing agricultural field, construction of a new office/warehouse building and parking lot, and excavation and reconfiguration of the existing stormwater pond on the south side of the property. Water will be conveyed around the new building via swales and a new storm sewer system.

Additional Notes

5/4/2020 - Received application
5/13/2020 - Received City of Chaska review

Review Status

Is this a preliminary review?	<input checked="" type="checkbox"/>
Is this a permit review?	<input checked="" type="checkbox"/>
Does this project require a techincal review	<input checked="" type="checkbox"/>

Project Status

Project is pending	<input checked="" type="checkbox"/>
Project is active	<input type="checkbox"/>
Project has been archived	<input type="checkbox"/>

Erosion and Sediment Control

This project triggers one or more thresholds for this rule.

Triggers

- | | |
|--|-------------------------------------|
| Disturbs one acre plus | <input checked="" type="checkbox"/> |
| Located within the HVRA Overlay District | <input type="checkbox"/> |
| Meets the HVRA threshold | <input type="checkbox"/> |

Criteria

- | | |
|---|-------------------------------------|
| Erosion and Sediment Control Plan | <input checked="" type="checkbox"/> |
| Inspection and maintenance addressed | <input type="checkbox"/> |
| NPDES/SDS General Construction Permit documentation | <input type="checkbox"/> |

The documentation requirements for this rule have not been met. A review cannot be completed until all required documentation has been submitted.

Additional Notes

5/5/2020 - ESC and partial SWPPP provided; inspection & maintenance agreement not included

Floodplain Drainage Alteration

This rule does not apply.

Triggers

Changes in water surface elevation of floodplain ☐

If yes,

Compensatory storage equal or greater than volume of fill ☐

If no,

No-rise certification by a professional engineer ☐

Calculations by a professional engineer demonstrating no decrease to conveyance ☐

Conveyance capacity decrease below 100yr high water elevation ☐

Temporary placement of fill ☐

Criteria

Net decrease of storage capacity OR increase in 100yr elevation ☐

Will floodplain storage be created ☐

Adverse impacts to water quality, habitat, or fisheries ☐

New structures have 2ft+ between lowest enclosed area's floor and 100yr high water elevation ☐

Additional Notes

Stormwater Managment

This project triggers one or more thresholds for this rule.

Type of project Development

Triggers

One acre or more of impervious surface



Are trout streams protected



HVRA Overlay District

Located within the HVRA Overlay District



Rate control exceeded for 1, 2, 10, and 100yr 24-hour event



If yes,

Meets the HVRA threshold



Projects with 1+ acres of new impervious: are MPCA's Construction General Permit



Criteria

Post-construction runoff rates exceed existing rates for 1, 2, 10, and 100yr 24-hour events?



Net increase of TP



Net increase of TSS



Is maintenance adequately addressed



New Development: the post-construction runoff volume retained onsite equal 1.1 inches of runoff from impervious surfaces



Project will result in a net decrease of TP and TSS



Redevelopment: the project will capture and retain onsite 1.1 inches from new/fully reconstructed impervious surface



Volume control requirements sufficiently addressed



Linear: the site will capture and retain (a) 0.55 inches of runoff from new/fully reconstructed impervious, or (b) 1.1 inches of runoff from the net increase in impervious area



The documentation requirements for this rule have not been met. A review cannot be completed until all required documentation has been submitted.

Alternative Infiltration Measures

Additional Notes

5/13/2020:

1. Soil borings & SWMP state that soils are clay (Type D), existing conditions and offsite drainage areas in HydroCAD are using Type B soils - please revise.
2. Infiltration not feasible due to high groundwater and clay soils.
3. 1-yr 24-hr HydroCAD models not provided, but 2-year 24-hr design storm is sufficient.
4. Per Section 4.4.3 of Rule D, projects with more than 1 acre of new impervious surface must demonstrate no net increase in TP and TSS will result from the project. Proposed reduction in TP

and TSS loading calculations were not provided.
5. Stormwater maintenance plan and agreement were not provided.

Steep Slopes

This rule does not apply.

<u>Triggers</u>		<u>Criteria</u>	
Is the project in the Steep Slopes Overlay District	<input type="checkbox"/>	Has the project been certified by a professional engineer	<input type="checkbox"/>
Excavation of 50 cubic yards+ of earth	<input type="checkbox"/>	Adverse impact to waterbodies	<input type="checkbox"/>
Displacement of 5,000 sq. ft+ of earth	<input type="checkbox"/>	Unstable slope conditions	<input type="checkbox"/>
Vegetation removal or displacement	<input type="checkbox"/>	Degradation of water quality	<input type="checkbox"/>
Activities that require LGU permits	<input type="checkbox"/>	Preservation of existing hydrology	<input type="checkbox"/>
		New discharge points along slope	<input type="checkbox"/>

Additional Notes