

# RED LAKE WATERSHED DISTRICT

Wednesday, September 11, 2019

Agenda

9:00 a.m.

9:00 a.m.	Call to Order	Action
	Review and approve agenda	Action
	Requests to appear	Information
	August 22, 2019 Minutes	Action
	July 7, 2019 Minutes – Amendment	Action
	Financial Report dated September 10, 2019	Action
	Euclid East, RLWD Project No. 60C-Dennis Schultz	Info./Action
	Ditch 16, RLWD Project No. 177	Information
	CenturyLink Quote	Information
	MnDOT Box Culvert Inspection Invoice	Info./Action
	Improvement to Polk County Ditch 39, RLWD Project No. 179	Information
	Thief River Falls Westside FDR Project, RLWD Project No. 178	Information
	Wetland Banking Credits	Info./Action
	Black River Impoundment, RLWD Project No. 176	Info./Action
	RRWMB Agreement	
	Grand Marais Creek Targeted Survey (Fish)	Information
	Ring Dike Update	Info./Action
	Withdraw Permit No. 19093, Doug Barth, North Twp, Pennington Co.	Action
	Permits: No. 19119-19132, 19134, 19136, 19137-19140	Action
	Administrators Update	Information
	Legal Counsel Update	Information
	Managers' updates	Information
	Adjourn	Action

## UPCOMING MEETINGS

September 17, 2019	RRWMB Meeting, Ada, 9:30 a.m.
September 26, 2019	RLWD Board Meeting, 9:00 a.m.
October 10, 2019	RLWD Board Meeting, 9:00 a.m.

# DRAFT

RED LAKE WATERSHED DISTRICT  
Board of Manager's Minutes  
August 22, 2019

President Dale M. Nelson called the meeting to order at 9:00 a.m. at the Red Lake Watershed District Office, Thief River Falls, MN.

Present were: Managers Dale M. Nelson, Gene Tiedemann, LeRoy Ose, Terry Sorenson, Les Torgerson, Allan Page, and Brian Dwight. Staff Present: Myron Jesme and Tammy Audette and Legal Counsel Delray Sparby.

The Board reviewed the agenda. A motion was made by Ose, seconded by Tiedemann, and passed by unanimous vote that the Board approve the agenda. Motion carried.

The Board reviewed the August 8, 2019 minutes. Manager Sorenson clarified that when he opposed the approval of the 2020 Salaries and Budget as presented, it was not because of the raises approved, but opposition to the fact he felt the Job Descriptions were properly complete. Motion by Tiedemann, seconded by Sorenson, to approve the August 8, 2019 Board meeting minutes as corrected. Motion carried.

The Board reviewed the Financial Report dated August 21, 2019. Motion by Sorenson, seconded by Dwight, to approve the Financial Report dated August 21, 2019, as presented. Motion carried.

The Board reviewed the Investment Summary as of August 21, 2019. Motion by Ose, seconded by Torgerson, to reinvest the maturing Certificate of Deposit with Unity Bank-CDARS account. Motion carried.

Staff member Arlene Novak stated that American Federal Bank requested a Release of Pledged Collateral. Motion by Ose, seconded by Tiedemann, to approve the Release of Pledged Collateral with American Federal Bank. Motion carried.

The 2020 Proposed Special Revenue Project levies were presented by Staff member Arlene Novak and Christina Slowinski and discussed by the Board. Questions regarding different ditch systems were fielded. Motion by Ose, seconded by Torgerson, to approve the following Special Revenue Assessments for 2020: RLWD Ditch No. 1, RLWD Project No. 5, \$3,000; RLWD Ditch No. 3, RLWD Project No. 7, \$5,000; State Ditch No. 83, RLWD Project No. 14, \$50,000; RLWD Ditch No. 7, RLWD Project No. 20, \$6,000; Pine Lake Maintenance, RLWD Project No. 35, \$7,000; RLWD Ditch No. 9, RLWD Project No. 39, \$1,000; J.D. No. 72, RLWD Project No. 41, \$9,000; Burnham Creek, RLWD Project No. 43B; \$15,000; Wild Rice Allocation, RLWD Project No. 45, \$2,000; J.D. 2, Branch A & B, RLWD Project No. 48, \$1,000; J.D. 2B & C, RLWD Project No. 49, \$2,000; Krostue Petition, RLWD Project No. 53, \$3,500; J.D. 5 (Four-Legged Lake), RLWD Project No. 102, \$2,200; Arveson Petition, RLWD Project No. 109, \$2,500; Winsor-Hangaard, RLWD Project No. 113, \$5,000; RLWD Ditch 1, Lateral C, RLWD Project No. 115, \$4,000; Kenneth Johnson Petition, RLWD Project No. 117, \$4,000; Polk

County Ditch Improvement, RLWD Project No. 119, \$8,000; Challenger Ditch, RLWD Project No. 122, \$1,000; Scott Baatz Petition, RLWD Project No. 123, \$2,000; Polk County Ditch 63, RLWD Project No. 134, \$3,000; Polk County Ditch 33, RLWD Project No. 135, \$5,000; RLWD Ditch No. 10, RLWD Project No. 161, \$2,500; RLWD Ditch No. 12, RLWD Project No. 169, \$15,000; RLWD Ditch No. 14, RLWD Project No. 171, \$5,000; TRF FDR Project, RLWD Project No. 171A, \$1,000. Motion carried.

Administrator Myron Jesme stated that he contacted landowner, Dennis Schultz, regarding the rental of his property due to the inability to crop the acreage due to outflow from the Euclid East Impoundment, RLWD Project No. 60C. Mr. Schultz indicated that he would not agree with the offered \$100 per acre and is requesting \$165 per acre from the District. It was the consensus of the Board, to remain with the \$100 per acre previously offered by the Board.

Administrator Jesme stated that he was informed by the local Wetland Conservation Act (WCA) member that approval will be forthcoming for construction of RLWD Ditch 16, RLWD Project No. 177. It was determined that the District will impact .25 acres of wetland, which will be mitigated at a 1:1 ratio. The contractor has located an abandoned farmstead to store their equipment and has started mobilization. Progress is moving forward to have a Minnesota Department of Transportation Inspector sent to Devils Lake, ND, for inspection of the concrete box culvert. CenturyLink did provide information on easements but has not given an estimate for line replacement.

At 9:30 a.m., President Nelson recessed the general meeting and called the 2020 General Fund Budget Hearing to order. President Nelson noted that the hearing was properly advertised and is on videotape and available for viewing at the RLWD office. The Board reviewed the proposed General Fund Budget and opened the hearing for public comment. Hearing no public comment, the hearing closed at 9:35 a.m. A motion was made by Torgerson, seconded by Ose, and passed by unanimous vote that the Board approve the following 2020 General Fund Budget:

	2020
	BUDGET
Manager's fees and salaries	\$ 33,400.00
Board of managers' expense	22,000.00
Staff salaries	460,000.00
Payroll taxes	35,190.00
Employee benefits	60,000.00
Travel and meetings	5,000.00
Audit	9,450.00
Legal	16,000.00
Office supplies	20,000.00
Office equipment	50,000.00
Appraisers and Viewers	2,000.00
Professional services	20,000.00
Dues and subscriptions	10,000.00

Insurance and bonds	25,000.00
Repairs and maintenance-building	15,000.00
Utilities	10,000.00
Advertising and publications	4,000.00
Telephone	11,000.00
Vehicle expense & maintenance	14,000.00
Engineering supplies	3,000.00
Engineering equipment	<u>18,000.00</u>
TOTAL	\$ 843,040.00
LESS: ESTIMATED OVERHEAD	(690,000.00)
LESS: MISCELLANEOUS REVENUE	<u>(7,000.00)</u>
2020 GENERAL FUND BUDGET	\$ 146,040.00

Zach Gutknecht, Beltrami Soil and Water Conservation District (SWCD), presented a proposal for cost share for installation of six side water inlet (SWI) culverts in the Moose River, Northwood Township, Beltrami County. Gutknecht stated that the estimated project cost is \$10,303.20, with a request for \$3,000 cost share funding from the RLWD's 2019 Erosion Control Funds. Gutknecht stated that the landowner will be responsible for 25% of the project costs, with the remaining funds coming from the SWCD. Following discussion, a motion was made by Dwight, seconded by Ose, and passed unanimously, to approve a cost share of \$3,000 from the RLWD Erosion Control Funds, RLWD Project No. 164 for the installation of six SWI culverts for the Beltrami SWCD.

Engineer Nate Dalager, HDR Engineering, Inc., updated the Board on permits for the Thief River Falls Westside FDR Project, RLWD Project No. 178. Dalager estimates early October to begin advertisement for bids for construction.

Discussion was held on the RRWMB Technical Advisory Committee meeting and Star Value process at is relates to funding for the Black River Impoundment, RLWD Project No. 176.

The Board reviewed correspondence from Beltrami County regarding conducting a new aerial imagery project next spring in Beltrami County. Beltrami County completed aerial imagery in 2014, where the District contributed \$20,000. Administrator Jesme indicated that they will not complete imagery of heavily forested area north of Waskish and the Red Lake Indian Reservation, as the Tribe has already flown their area. Beltrami County is requesting a cost share in the amount of \$10,000 from the District. Beltrami County has indicated that they will share the information with the District for use in GIS software, and the information will be publicly available on the Beltrami County online maps. Motion by Dwight, seconded by Page, to approve a cost share in the amount of \$10,000 to Beltrami County for aerial imagery of Beltrami County. Motion carried.

Administrator Jesme stated that Polk County has recently completed aerial imagery. Polk County will have 50 seats available for utilization of the information and will prepare a proposal for the purchase of each seat.



Staff member Loren Sanderson stated that the gates at the entrance of the Schirrick Dam, RLWD Project No. 25 need replacement. Sanderson estimate a cost of \$400 to replace the gates. It was the consensus of the Board to have Sanderson proceed with the replacement of the gates. Northwest Power will test the hydraulic lines and pressure and go through the motors to make sure they are all working properly the week of August 26<sup>th</sup>.

Motion by Tiedemann, seconded by Sorenson, to deny RLWD Permit No. 19111, Guy Useldinger, Nesbit Township, Polk County. Motion carried. Staff member Loren Sanderson stated that he will work on a different option with the landowner.

The Board reviewed the permits for approval. Motion by Ose, seconded by Dwight, to approve the following permits with conditions stated on the permit: No. 19115, Poplar River Township, Red Lake County; No. 19116, Aaron Baldwin, Holt Township, Marshall County; No. 19117, Marshall County Highway Department, East Valley Township, Marshall County; and No. 19118, Thomas Lewis, Hickory Township, Pennington County. Motion carried.

Legal Counsel Sparby stated that he received an email from the attorney for the landowners on Judicial Ditch 5, RLWD Project 102 (Four-Legged Lake), regarding RLWD staff surveying in the area. Administrator Jesme stated that District staff were taking survey shots to verify culvert flowline elevations under County Road #23.

Manager Torgerson discussed the Pine Lake Project, RLWD Project No. 26 and the possibility of replacing the dam and improving the flowage of water. Manager Sorenson stated that landowner Dave Dalager would be willing to assist in lobbying for the project. Administrator Jesme stated that he would like to see the water quality monitoring completed prior to the project moving forward.

#### Administrators update:

- Jesme and Manager Ose attended the August 20, 2019, RRWMB meeting held in Roseau. One of the highlights of the meeting was an update by the Red River Retention Authority on their letter of support to discontinue the Pine Lake RCPP.
- The District did not submit a project for the 2019 MAWD Awards Program/Project of the Year.
- Quotes were opened for the Burnham Creek Project that was submitted by the West Polk SWCD to include Highway Heavy prevailing wages. The low quote was approximately 10% higher using the prevailing wages versus not using prevailing wages. The work was awarded to Wright Construction of TRF. The project will be completed this fall.
- Jesme with assistance from HDR and MnDNR staff, are drafting a grant application from the Conservation Legacy Funding to assist in funding the repair to the outlet structure of the BR-6 Wildlife Habitat Pool on the east side of the Burnham Creek Impoundment.
- The Clearwater SWCD will host the 2019 Area VIII Fall Meeting and Tour on September 12<sup>th</sup> and 13<sup>th</sup>.

Motion by Ose, seconded by Page, to change the regularly scheduled Board meeting on September 12, 2019 to September 11, 2019 at 9:00 a.m. to allow the Board members to attend the Clearwater SWCD tour. Motion carried.

Manager Tiedemann asked for clarification on the BR-6 Wildlife Habitat Pool. Administrator Jesme stated that the Wildlife Habitat part of the project was handed over to the MnDNR. The current structure has deteriorated and needs to be replaced.

Manager Torgerson indicated that the District should ask County Commissioner Mark Larson to participate on the District's Advisory Board.

Managers Ose and Torgerson discussed a recent tour they went on in the Four-Legged Lake Area.

Manager Tiedemann stated that past Board member Jim Votava passed away. Mr. Votava represented eastern Polk County.

Motion by Manager Ose, seconded by Manager Sorenson, to adjourn the meeting. Motion carried.

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Terry Sorenson, Secretary

RED LAKE WATERSHED DISTRICT  
Board of Manager's Minutes  
July 11, 2019

President Dale M. Nelson called the meeting to order at 9:00 a.m. at the Red Lake Watershed District Office, Thief River Falls, MN.

Present were: Managers Dale M. Nelson, Gene Tiedemann, Terry Sorenson, Les Torgerson, Allan Page, LeRoy Ose and Brian Dwight. Staff Present: Myron Jesme and Tammy Audette and Legal Counsel Delray Sparby.

The Board reviewed the agenda. A motion was made by Tiedemann, seconded by Page, and passed by unanimous vote that the Board approve the agenda. Motion carried.

The Board reviewed the June 24, 2019 minutes. Motion by Torgerson, seconded by Sorenson, to approve the June 24, 2019 Board meeting minutes as presented. Motion carried.

The Board reviewed the July 8, 2019 Special Board meeting minutes. Motion by Tiedemann, seconded by Ose, to approve the July 8, 2019 Special Board meeting minutes as presented. Motion carried.

The Board reviewed the Financial Report dated July 10, 2019. Motion by Sorenson, seconded by Ose, to approve the Financial Report dated July 10, 2019 as presented. Motion carried.

The Board reviewed the Investment Summary as of July 10, 2019. Staff member Arlene Novak stated that the District has six Certificate of Deposits that will mature by the end of July. Motion by Dwight, seconded by Ose, to deposit the maturing Certificate of Deposits into the District's checking account and obtain the necessary securities. Motion carried. Manager Ose requested Novak to check with Bremer Bank regarding interest rates on various accounts.

Discussion was held on the Red River Watershed Management Board (RRWMB) levy allocation or reduction. Administrator Jesme stated that the RRWMB had agreed to allow watershed district's the ability to set their own levy rate if they have an existing reserve that is equal to 2 ½ times the amount of their levy. After further review by the RRWMB Attorney, Louis Smith, it was found that watershed districts cannot decrease the amount of levy collected, but the RRWMB can. Jesme stated that the RRWMB Finance Committee met and are going to recommend the RRWMB approve 75% of the maximum levy.

Administrator Jesme stated that the RRWMB has moved into their new office location and will be hosting the July 16, 2019 Board meeting.

Staff member Arlene Novak reviewed the 2020 General Fund Budget timeline, stating that notices of the approved levies need to be submitted to each county by September 15, 2019. It was the consensus of the Board, that the Budget and Salary Committee will meet prior to the next Board meeting, July 25, 2019, and bring their recommendation to that meeting.

The Board reviewed the 2019 Estimated Market Values for Watershed Districts in Minnesota from the Minnesota Department of Revenue.

Staff member Corey Hanson appeared before the Board to request Microbial Source Tracking Monitoring and Sampling that the District does not typically sample. Hanson stated that this sampling has indicating markers of what type of fecal coliform is found. Hanson would like to complete samples on Chief's Coulee within the City of Thief River Falls and County Ditch 2/Grand Marais Creek area at an approximate cost of \$2,100. Motion by Tiedemann, seconded by Dwight, to approve the Microbial Source Tracking Monitoring and Sampling as requested. Motion carried.

Manager Dwight commended the effort being made by Staff member Corey Hanson for work on the Bartlett Lake Management Plan.

Acting Interim Director, Jim Graham, Agassiz National Wildlife Refuge (NWR), appeared before the Board to request a Interagency Cooperative Agreement between the District and the U.S. Fish and Wildlife Service for a grant Agassiz NWR received to assist in cleaning of approximately 1.25 miles of Judicial Ditch 11, located within the Agassiz NWR. Motion by Tiedemann, seconded by Ose, to approve an Interagency Cooperative Agreement with the U.S. Fish and Wildlife Service for cleaning of Judicial Ditch 11. Motion carried.

At 9:30 a.m. President Nelson recessed the regular Board meeting and reconvened and called to order the Hearing for the Thief River Falls Westside Flood Damage Reduction, RLWD Project No. 178 which had been continued from June 24, 2019. Nelson stated that the Appraisal Report for each landowner was received by the Board and that Nelson had met with all the landowners regarding negotiations for permanent damages. Legal Counsel Sparby discussed the establishment of the Project and Watershed Management District (WMD) fees, stating that the only process left was for any easement, right-of-way required, and the amount of permanent and temporary damages to be paid to the landowners. Sparby stated that the Appraisal Reports have been filed with the District and are available to the public for viewing. The hearing today is to explain what those appraised values are and allow the public the opportunity to comment. Landowner Peter Carlson asked if the Board had considered his request of installation of two crossings on his property from County Road No. 16. Nelson indicated that although this is not part of this hearing for awarding of damages, there was agreement in discussion with the City that the District will install one crossing across from First Street. Installation of the crossing is not part of the damages of the project. Nelson stated that it was the recommendation of the committee to award damages in the amount of \$3,500 per acre for agricultural land with a multiplier of 20% for a total of \$4,250 per acre and \$9,000 per acre for commercial property. After allowing for public comment by those in attendance, President Nelson closed the hearing as to public comment.

President Nelson reconvened the regularly scheduled Board meeting.

Motion by Dwight, seconded by Ose, to award damages in the amount of \$4,250 per acre for agricultural land and \$9,000 per acre for commercial property for construction of the Thief River Falls Flood Damage Reduction Project, RLWD Project No. 178. Motion carried.

Motion by Torgerson, seconded by Tiedemann, to pay \$150 per acre/per year, for two years, for temporary right-of-way damages for construction of the Thief River Falls Westside Flood Damage Reduction Project, RLWD Project No. 178. Motion carried.

Engineer Nate Dalager, HDR Engineering, Inc., discussed the timeline for Advertisement of Bids as it relates to ordering of the box culverts on Highway 32 and Highway 1. Dalager indicated that all the project partners wish to see the culverts installed this year, therefore recommending that the culverts be ordered and purchased prior to the Advertisement for Bids. Dalager proposes that, with the permission of the Minnesota Department of Transportation (MnDOT), to authorize a MnDOT inspector to be present at the location of the manufacturer of the culverts for inspection purposes during the making of the box culverts, which is a requirement of MnDOT. Dalager indicated that if the District chooses to purchase the culvert, the contractor would only bid the installation portion of the culverts. Motion by Ose, seconded by Tiedemann, to authorize the District to pursue the purchase of box culverts on Highway 32 and Highway 1, prior to the Advertisement for Bids, for the Thief River Falls Westside Flood Damage Reduction Project, RLWD Project No. 178. Motion carried. Administrator Jesme stressed the importance of securing all permits prior to the Advertisement of Bids. Discussion was held on completing the advertisement process, but not award the project to the Contractor until all permits are received.

Engineer Jerry Pribula, Pribula Engineering, Inc, discussed wetland delineation on the Highway 220 box culvert for Ditch 16, RLWD Project No. 177. Pribula stated that installation of the culvert at the current location would have impacted greater than .5 acres of wetlands, which requires a special permit. Pribula proposed to MnDOT, to move the culvert 400 feet to the south, which would reduce the acres of wetland mitigation to be less than .5 acres but would require additional soil borings to be completed. Pribula submitted the soil borings to MnDOT on July 5<sup>th</sup> and is waiting to hear back from them. Pribula has spoken to the landowners affected by the proposed change, as an additional .36 acres of permanent and .23 acres of temporary right-of-way will be required. Pribula noted that the culvert will be the same size but will need an extension and different ends, which will result in a reduction of materials. Pribula will draft a change order for the Contractor to include the culvert, alignment change and materials. Pribula discussed his concerns with the timing of closing Highway 220, due to beet harvest and issues with CenturyLink. The Board reviewed correspondence from Burski Excavating, Inc., requesting delaying the work start and completion dates. Administrator Jesme discussed the requirement of the contractor to complete a MPCA Stormwater Pollution Plan permit application. Jesme stated that due to moving the location of the culvert the following changes will need to be made to the Viewers Report: Ray Larson, 1.88 acres additional permanent ROW and .88 acres additional temporary ROW, and Doug Peterson a reduction of 1.5 acres of permanent ROW and .065 acres of temporary ROW. Motion by Tiedemann, seconded Torgerson, to approve the recommended changes to the Ditch 16, RLWD Project No. 177 Viewers Report as stated. Motion carried with Manager Dwight abstaining. Motion by Ose, seconded by Tiedemann, to approve the request of Burski Excavating, Inc. to delay the work start date to August 5, 2019, which could continue to a September 1<sup>st</sup> date, with the end date reflecting the actual start date in regard to working days allowed in the contract. Motion carried.

Administrator Jesme stated that the Viewers and Engineer Nick Pribula are meeting today with the landowners on the Improvement to Polk County Ditch 39, RLWD Project No. 179.

The Board reviewed the permits for approval. Motion by Sorenson, seconded by Page, to approve the following permits with conditions stated on the permit: No. 19064, Mike Drangstveit, Moylan Township, Marshall County; No. 19065 and 19066, Earl Pederson, Emarville Township, Red Lake County; 19067, Todd & John Sorenson, Fisher Township, Polk County; No. 19068, PARJM Farmland GP, Poplar River Township, Red Lake County; No. 19069, FSMN Agri Partners, Cloverleaf Township, Pennington County; No. 19072 and 19073, Ted Luckow, Fanny Township, Polk County; No. 19074, Adirondack Farmland Holdings GR, Moylan Township, Marshall County; No. 19076, Brady Lee, Badger Township, Polk County; and No. 19077, Elliott Solheim, Fairfax Township, Polk County. Motion carried.

The Board reviewed the 2019 MAWD Resolution timeline. Manager Tiedemann requested that the District draft a resolution regarding Prevailing Wages and submit to MAWD.

Staff member Loren Sanderson and Nick Olson stated that the screw gates on the Brandt Channel, RLWD Project No. 60E downstream of the Brandt Impoundment, have not been installed due to recent rains and flow in the channel. Discussion was had concerning loss of crop income on both Euclid East and Brandt Channel due to flooding and leaking of the existing flapgates, while releasing water from the impoundments as well as the possibility of installation of a berm. District staff surveyed the area and estimated a loss of 4.86 acres of corn on Jeannette Kliner's property and .53 acres of wheat on the Lois Glass property and loss of soybean crop on Dennis Schultz land downstream of Euclid East. Motion by Ose, seconded by Dwight, to pay \$5.00 per bushel for wheat, \$8.00 per bushel for soybeans and \$4.00 for corn. Motion carried with Manager Tiedemann abstaining. District staff will survey the Dennis Schulz property and report back to the Board.

Manager Ose discussed a recent aerial view of the Good Lake Impoundment, RLWD Project No. 67.

Legal Counsel Sparby stated that the telephone conference for Judicial Ditch 5, RLWD Project No. 102, will be held on July 19<sup>th</sup>.

Administrator Jesme stated that the beaver dam upstream of the outlet on Judicial Ditch 5, RLWD Project No. 102 was removed. A beaver trapper was hired and was able to remove a beaver. Jesme stated that the trapper would rather not have to drive to the District office to submit the beaver tail for payment but agreed to submit a photo of the beaver he trapped for payment.

Legal Counsel Sparby discussed Prevailing Wages, stating that there does not appear to be a lot of case law on it. Sparby will do further research and report back to the Board.

Manager Tiedemann questioned if the culvert issue with the Sandhill River Watershed District and MnDOT was resolved? Staff member Loren Sanderson informed the Sandhill River Watershed that the culvert in question was permitted prior to the boundary change.

Red Lake Watershed District

July 11, 2019

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Manager Page questioned if the landowner for the non-permitted work in Red Lake County had responded to the letter that was submitted to him, requiring the work to be completed by July 24<sup>th</sup>. Administrator Jesme stated that he had not heard from the landowner.

Motion by Page, seconded by Ose, to adjourn the meeting. Motion carried.

A handwritten signature in cursive script that reads "Terry Sorenson". The signature is written in black ink and is positioned above a horizontal line.

Terry Sorenson, Secretary

**RED LAKE WATERSHED DISTRICT**  
**Financial Report for September 10, 2019**

<b>Ck#</b>	<b>Check Issued to:</b>	<b>Description</b>	<b>Amount</b>
online	EFTPS	Withholding for FICA, Medicare, and Federal taxes	4,160.98
online	MN Department of Revenue	Withholding taxes	765.73
online	Public Employees Retirement Assn.	PERA contributions	2,761.92
online	EFTPS	Withholding for FICA, Medicare, and Federal taxes	348.84
37698	Hugo's #7	Replaces check #37626 issued July 25, 2019	129.21
37699	Clearwater SWCD	Registrations for 2019 Clearwater SWCD Tour	210.00
37700	Cenex Credit Card	Gas for vehicles	200.21
37701	City of Thief River Falls	Electricity, water, sewer, etc.	843.52
37702	Les's Sanitation, Inc.	Garbage pickup	34.70
37703	RMB Environmental Laboratories	Lab analysis of water quality samples	4,615.00
37704	Sjobergs Cable TV	Internet expense	106.95
37705	Ace Hardware	Misc. hardware and fasteners and Great Stuff	26.82
37706	Tammy Audette	Clean offices in August	320.00
37707	Jerry Bennett	Alternate viewer's expense	4,217.82
37708	Blue Sky Blading	Mow Mud and Moose River Impoundment	4,500.00
37709	Clean Cut Maintenance	*Mow ditch systems	24,410.00
37710	Crookston Public Schools	River Watch expenses for school year 2018-2019	241.46
37711	Crookston Times Printing	2020 General Fund Budget hearing ad	251.00
37712	Dakota Mailing & Shipping	Ink cartridge for postage meter	150.66
37713	Digi-Key Electronics	Cord for connecting 2 computer monitors	28.78
37714	Farmers Union Oil Company	Gas for vehicles	1,035.34
37715	Fleet Supply	(2) 14' 16 ga. gates for Schirrick Dam	384.73
37716	Further	FSA monthly account fees	8.85
37717	HDR, Inc.	Pine Lake-\$1,332.50 and Little Pine Lake-\$480.00 Eng. Fees	1,812.50
37718	Grand Rapids Herald Review	2020 General Fund Budget hearing ad	207.58
37719	Ihle Sparby & Haase PA	Legal fees for RLWD Ditch No. 17	342.00
37720	The Journal	2020 General Fund Budget hearing ad	179.76
37721	Lafayette High School	River Watch expenses for school year 2018-2019	794.00
37722	Larson Helicopters, LLC	**Spray cattails in ditch systems	19,173.00
37723	Mahnomen Pioneer	2020 General Fund Budget hearing ad	88.00
37724	Marco	***See below for explanation	11,589.58
37725	MCI	Long distance telephone expense	58.48
37726	MN Energy Resources Corp.	Heating expense (minimum charge)	20.00
37727	Northwest Beverage, Inc.	H2O for office	43.75
37728	Northwest Power Systems, Inc.	Hydraulic inspection and repair on Schirrick Dam	3,211.06
37729	Office Depot	Bathroom paper towels and BUNN coffee filters	142.00
37730	Oil Boyz Express Lube	Oil change on Traverse	52.83
37731	Pennington County Treasurer	(3) 18" flapgates for Proj. 166, 134, and 171	1,126.41
37732	Pribula Engineering, PLLC	Eng.fees for Ditch 17 (\$11,280) and SWIs Ditch 17 (\$7,680)	18,960.00
37733	Quill Corporation	2 stylus,printer ribbons,pens,nitrile gloves,hand sanitizer,coffee,shears	220.15
37734	Richards Publishing Co.	2020 General Fund Budget hearing ad in 4 newspapers	256.00
37735	Rinke Noonan	Monthly legal services retainer	200.00
37736	RMB Environmental Laboratories	Lab analysis of water quality samples	4,801.00
37737	Roseau Times Region & Regional	2020 General Fund Budget hearing ad	244.80
37738	Gerald Rychlock	Read/observe, clean debris, open gates for mowing-Moose Rive	315.00
37739	Speedee Delivery	Shipment of water quality samples	12.35
37740	Sun Life Financial	Staff life insurance	144.64
37741	TD Ameritrade Trust Company	Deferred Compensation	563.34
37742	Thirteen Towns	2020 General Fund Budget hearing ad	142.10
37743	Gene Tiedemann	Mileage	223.88
37744	TRF Hardware	Concrete mix for Schirrick Dam	19.56
37745	Thief River Falls Times	2020 General Fund Budget hearing ad	109.22
37746	Warren Sheaf	2020 General Fund Budget hearing ad	132.00
37747	Widseth Smith Notling & Assoc., Inc.	Black River Dam Operation Plan Review & Threat Ring Dike en	3,150.50
37626	Hugo's #7	Voided lost check	(129.21)



online	Aflac	Staff paid insurances	632.82
online	Blue Cross Blue Shield	Health insurance premium	4,703.00
direct	Brian Dwight	Mileage	262.16
direct	Terry Sorenson	Mileage	87.00
online	Further	Medical FSA expense	105.00
	<b>Payroll</b>		
	Check #11744-11764		<u>26,425.87</u>
	<b>Total Checks</b>		\$ 150,174.65

**\* Clean Cut Maintenance**

Proj. 53	Krostue Petition	1,920.00
Proj. 60F	Grand Marais Outlet Restor	6,900.00
Proj. 134	Polk Co. Dt. 63 Improv.	2,520.00
Proj. 135	Polk Co. Dt. 33 Improv.	2,070.00
Proj. 169	RLWD Ditch No. 12	<u>11,000.00</u>
<b>Total</b>		24,410.00

**\*\* Larson Helicopters, LLC**

Proj. 7	RLWD Ditch No. 3	770.00
Proj. 20	RLWD Ditch No. 7	1,529.50
Proj. 41	JD 72	399.00
Proj. 43B	Burnham Creek	469.00
Proj. 49	Main JD 2	724.50
Proj. 60C	Euclid East Impoundment	1,431.50
Proj. 60D	Brandt Impoundment	612.50
Proj. 81	Parnell	770.00
Proj. 109	Arveson Petition	700.00
Proj. 113	Winsor Hangaard Petition	2,989.00
Proj. 115	Equality/RLWD Ditch 1	462.00
Proj. 119	Polk County Ditch Improv.	1,302.00
Proj. 123	Baatz Petition	210.00
Proj. 134	Polk Co. Dt. 63 Improv.	703.50
Proj. 166	RLWD Ditch No. 11	2,086.00
Proj. 169	RLWD Ditch No. 12	1,309.00
Proj. 171	RLWD Ditch No. 14	546.00
Proj. 175	RLWD Ditch No. 15	<u>2,159.50</u>
<b>Total</b>		19,173.00

**\*\*\*\* Marco**

Monthly copier maintenance	520.11
T46 phone system setup	4,433.05
Setup Loren and Christina workstator	630.00
Monthly managed IT services	1,441.43
Lenova Thinkpad,HP computer&moni	<u>4,564.99</u>
<b>Total</b>	11,589.58

**Banking****Northern State Bank**

Balance as of August 21, 2019	\$ 214,370.37
Total Checks Written	(150,174.65)
Receipt #414600 Northern State Bank-Monthly interest	266.93
Receipt #989608 Transfer of funds in from American Federal Bank	100,000.00
Balance as of September 10, 2019	<u>\$ 164,462.65</u>

**Border State Bank**

Balance as of July 31, 2019	\$ 18,259.48
Receipt #989601 Border State Bank-Monthly interest	9.27
Balance as of August 31, 2019	<u>\$ 18,268.75</u>

**American Federal Bank-Fosston**

Balance as of August 21, 2019	\$ 3,523,024.07
Receipt #414599 Polk County-University of MN PILT	62.92
Receipt #989602 American Federal Bank-Monthly interest	6,956.87
Receipt #989604 CDARS (Unity Bank) Monthly interest on CD	391.06
Receipt #989606 CDARS (Unity Bank) Interest on Matured CD	742.72
Receipt #989607 Beltrami County-Volstead Lands	10.75
Receipt #989608 Transfer of funds to Northern State Bank	(100,000.00)
Balance as of September 10, 2019	<u>\$ 3,431,188.39</u>

**Bremer Bank**

Balance as of August 21, 2019	\$ 2,300,000.00
Receipt #989603 Bremer Bank-Monthly interest	1,635.21
Balance as of September 10, 2019	<u>\$ 2,301,635.21</u>

--Receipt #989605 CDARS (Unity Bank) to record maturity of CD and 12 mos. reinvestment @ 2.25%

September 6, 2019



Nick Pribula  
Red Lake Watershed District / Ditch 16 (Proj. 177)

**RE: Relocation of CenturyLink Facilities –110<sup>th</sup> Ave & Hwy 220, East Grand Forks, MN**

**CenturyLink File # 60468**

Dear Nick,

CenturyLink Field Engineer Charles Grummons has requested that I provide you with our cost quote related to relocating existing telecom facilities to accommodate the Ditch 16 project in East Grand Forks.

This type of request is classified as “excess construction” and the costs to relocate the facilities are billable back to the party requesting the work.

The cost to relocate the CenturyLink facilities will be \$303,748.60 (Labor-\$235,958.27 & Material-\$67,790.33).

Work will include CenturyLink placing 17,300 feet of 25-pair copper cable, 600 feet of 50-pair cable, 1500 feet of 200-pair cable, (17) pedestal closures and ground rods. New cable placement will require 8,400 feet of directional boring. When the new facilities are in place, all working circuits will be cut over from the old facilities. The cost shown includes all engineering, splicing, testing and contractor hours.

If you would like to proceed with the work, please contact me and I will have our work agreement sent to you for signature and advance payment.

**We will require that the work agreement be signed and returned along with a check or purchase order document for the amount shown above prior to scheduling the work.**

Please be aware that this quote is valid for 30 days under Minnesota State Tariffs and will be re-assessed after the 30-day period.

Thank You Nick.

A handwritten signature in black ink, appearing to read "Jim Edwards", is written over the typed name.

Jim Edwards-651 312-5315

CenturyLink Special Construction Engineering  
425 Monroe St, 2<sup>nd</sup> Floor  
Anoka, MN. 55303

[www.centurylink.com](http://www.centurylink.com)

T7904 001  
 DEPARTMENT OF TRANSPORTATION  
 FINANCIAL OPERATION MS 215  
 395 JOHN IRELAND BLVD  
 ST PAUL MN 55155-1899



**State of Minnesota  
 INVOICE**

Customer No: 0000177429  
 Payment Terms: Due in 30  
 Due Date: October 6, 2019  
 Invoice: 00000564193  
 Invoice Date: September 6, 2019  
 From Date: To Date:  
 Purchase Order:  
 Page: 1 of 1

Bill To:  
 Red Lake Watershed District  
 1000 Pennington Avenue South  
 Thief River Falls MN 56701



**AMOUNT DUE: 18,928.97**

For billing questions, please call 651-366-3170

Original

Line	Identifier	Description	Quantity	UOM	Unit Amt	Net Amount
1		Agreement 1035147	1.00	JA	18,928.97	18,928.97
		Agreement 1035147 with Red Lake Watershed District SP: 6017-43 Inspection services for the production of the precast box culvert at the Hancock facility in Devils Lake, ND				
<b>Subtotal:</b>						<u>18,928.97</u>

**Amount Due: 18,928.97**

Attention: Myron Jesme (or successor)

Bill To:  
 Red Lake Watershed District  
 1000 Pennington Avenue South  
 Thief River Falls MN 56701

Customer No: 0000177429  
 Payment Terms: Due in 30  
 Due Date: October 6, 2019

Address Change? If yes, Check box. →   
 Write correct address on back.

**Amount Due: 18,928.97**

Please Remit To:  
 DEPARTMENT OF TRANSPORTATION  
 FINANCIAL OPERATION MS 215  
 395 JOHN IRELAND BLVD  
 ST. PAUL MN 55155-1899

\_\_\_\_\_  
 Amount Remitted

T7904 0000177429ZZZZ 0 00000564193ZZZZZZZZZZ 4 0001892897



**RED RIVER WATERSHED MANAGEMENT BOARD  
FUNDING ADVANCE AGREEMENT WITH  
RED LAKE WATERSHED DISTRICT**

This funding advance agreement is made between the Red River Watershed Management Board (hereinafter "RRWMB") and the Red Lake Watershed District (hereinafter "District") to facilitate the timely and effective construction and completion of the Black River Impoundment Project which proposes to regulate flood waters from a 16.9 square mile drainage area contributing to the Black River, a tributary of the Red Lake River in the Red Lake River Basin (hereinafter the "Project"), as described in a Step II submittal, including an updated preliminary engineering report, from the District to the RRWMB dated October 10, 2017 and approved by the RRWMB on November 21, 2017. This Agreement is made in the parties' mutual interest in the conservation of the natural resources of the state through land use planning, flood control, and other conservation projects using sound scientific principles for the protection of the public health and welfare and the provident use of the surface water and other natural resources of the Red Lake Watershed.

**A. PURPOSE OF THE AGREEMENT**

1. This Agreement, once duly authorized, executed and delivered, will constitute a valid, legal and binding agreement in accordance with its terms. For purposes of this Agreement the RRWMB represents that it is a joint powers board, formed by agreement made pursuant to the authority conferred upon the participants by Sections 471.59 and 103D of the Minnesota Statutes and authorized by Minnesota Laws 1976, ch. 162, Sections 1-4, as amended. For purposes of this Agreement the District is a watershed district, which is a political subdivision of the State of Minnesota as authorized by Chapter 103D of Minnesota Statutes. The District is a party to the joint powers agreement whereby the RRWMB was established and remains a member in good standing of the RRWMB.
2. This Agreement is entered in partial fulfillment of and in conformance with the RRWMB joint powers agreement and the specific legislation authorizing the formation of the RRWMB, Minnesota Laws 1976, ch. 162, Sections 1-4, as amended.



3. the District has further committed to complete project planning through a Step III Submittal in October 2022 for RRWMB consideration at its November 2022 meeting

## **B. RRWMB COMMITMENT**

1. The RRWMB commits, subject to the conditions set forth in this Agreement, to advance U.S. \$2,700,000.00 (two million, seven hundred thousand dollars) to the District for the purpose of constructing and completing the Project.
2. The RRWMB's commitment to disburse all funds under this Agreement is specifically conditioned on the District's commitment to submit a Step II application for approval by the RRWMB no later than October 2022 for consideration at the RRWMB's November 2022 meeting. Failure to obtain RRWMB approval of a Step II submittal by November 2022 will obligate the District to repay the funding advance in full no later than January 2023. Failure to obtain RRWMB approval of a Step III application within two years after approval of the Step II application shall obligate the District to repay the funding advance in full no later than three years after the date of Step II approval.

The RRWMB's commitment to disburse all funds under this Agreement is further conditioned on the District's construction and completion of the Project within five years of the Step II Submittal that was approved by the RRWMB Managers in November 2017, and on verification of the final engineering details and financial accounting according to guidelines set forth in the RRWMB Governing Documents. Failure to construct the within five years after approval of the Step II application shall obligate the District to repay the funding advance in full no later than six years after the date of Step II approval.

3. Upon construction of the Project within five years of the Step II Submittal approved by the RRWMB Board of Managers in November 2017, the RRWMB shall forgive and discharge any amount owing under this funding advance agreement that is covered by the RRWMB's funding commitment to the Project.



**C. DISTRICT COMMITMENT**

1. The District promises to construct the Project within five years of the Step II Submittal that was approved by the RRWMB Managers in November 2017, and to verify the final engineering details and financial accounting according to guidelines set forth in the RRWMB Governing Documents.
2. Subject to Paragraph C (6) below, the District promises to pay, without set off, deduction or counterclaim of any kind or nature, to the RRWMB, its assignee or designated holder the sum of U.S. \$2,700,000.00 (two million, seven hundred thousand dollars). The principal sum is to be paid in lawful United States currency in the following manner:
  - a) Subject to Paragraph C (3) below, the date to begin repayment of this advance is deferred until the District has been reimbursed for expenditures made in fulfillment of the Project Work Plan by the Minnesota Department of Natural Resources if State of Minnesota funding has been secured, or has received project funding from other sources, pursuant to the District's timely, good-faith effort to secure such reimbursement.
  - b) Payments by the District, commensurate with the reimbursement received to the date payment is made, shall be due every six months. The first payment shall be submitted on the closest date of either June 15 or December 15 after the date of the initial reimbursement from the Department of Natural Resources or other funding source. Subsequent payments shall be due semiannually on June 15 and December 15 after the first payment. Additional payments may be made at any time without penalty.
  - c) The District may prepay this advance in whole or in part from any funds legally available to the District for this purpose. When the District elects to pay off the advance in full, it shall give written notice to the RRWMB, and the RRWMB shall then prepare and provide to the District a payoff statement. The payoff statement shall include all principal and other fees, if any, due and payable to the RRWMB.



3. Notwithstanding any other provision of this agreement, repayment in full of this advance shall be due not later than six years after the Project has been fully completed.
4. The District commits to undertake in a timely manner and in good faith all necessary actions to secure reimbursement of all expenses associated with the implementation of a Project Work Plan from the Minnesota Department of Natural Resources if State of Minnesota funding has been received, to follow the RRWMB Funding Procedures, and to secure funding from other appropriate sources.
5. The District agrees to pay all costs and expenses of collection incurred by RRWMB, its assignee or designated holder, in or out of court, including without limitation, court-related costs and expenses and reasonable attorneys' fees and disbursements (including such costs, fees, and disbursements incurred on appeal of any litigation) related to enforcement of the terms of this Agreement. No extension of time for payment of this Agreement and no alteration, amendment, or waiver of any provision of this Agreement shall release, discharge, modify, change, or affect the liability of the District under this Agreement.

**D. DENIAL OF DISBURSEMENTS, DEFAULT, RESCISSION OR EARLY TERMINATION**

1. The RRWMB may declare the District in default and may rescind this Agreement if it finds that there has been or will be substantial divergence from the approved Project Work Plan and/or engineers report or that the approved Project Work Plan and/or engineers report has not been or will not be implemented in a timely manner. Upon default, the RRWMB shall give written notice and demand for the full payment of all amounts due.
2. In the event the RRWMB declares a default under this Agreement and moves to recover repayments, the District shall pay the costs and damages, including reasonable attorney's fees and interest, incurred by the RRWMB to recover repayments under this Agreement.
3. If the RRWMB fails to enforce any provision of this Agreement, that failure does not waive that provision or its right to enforce it.





**E. GENERAL DUTIES, RESPONSIBILITIES AND LIMITATIONS ON CONDUCT**

1. The advance of funding described by this Agreement may be paid in full at any time without penalty.
2. In the event that any payment is not made within 90 days after the due date, the entire remaining unpaid balance shall become immediately due and payable, time being of the essence, and any unpaid amount shall bear interest from such time until paid at the highest rate allowable under the laws of the State of Minnesota.
3. Exclusive Use of Project Funds. The District shall use all RRWMB funds disbursed to it under this Agreement exclusively for the purposes described in this Agreement.
4. The District accepts and agrees to comply with all terms, provisions, conditions and commitments of this Agreement, including all incorporated documents, and to fulfill all assurances, declarations, representations and commitments made by the District in its request to the RRWMB for the advance funding that is the subject of this Agreement.

**F. REPORTS, RECORD MAINTENANCE, AND AUDIT REQUIREMENTS**

1. Records Maintenance. The District, subcontractors, and contributing administrators with whom the District enters into agreements to perform any or all of the work required under the terms of this Agreement, shall maintain complete and accurate books, records, and documents according to Generally Accepted Government Accounting Standards (GAGAS). Such books, records, documents, and accounting procedures shall fully disclose the amount and disposition of all loan funds disbursed under this Agreement. Such records shall also account for: disposition of project expenditures; property purchased; program income; documentation of compliance with applicable statutes, regulations, and the conditions of this Agreement. Such records shall be available to authorized representatives of the RRWMB for examination and audit and shall be maintained for a minimum of six (6) years after termination of this Agreement.



If, during the period when this Agreement is effective or within six (6) years thereafter, the District has an independent audit conducted which includes or addresses the activities of this Agreement, a copy of the audit shall be provided to the RRWMB.

2. **Fiscal Controls.** The District shall establish fiscal controls and accounting procedures that are sufficient to assure proper accounting for payments received, disbursements made and balances at the beginning and end of the accounting period. The District shall use accounting, audit and fiscal procedures conforming to GAGAS as these are promulgated by the Governmental Accounting Standards Board. Generally accepted auditing standards are usually defined as, but not limited to, those contained in the U.S. General Accounting Office (GAO) publication "Government Auditing Standards." All accounts shall be established and maintained as separate accounts. The District shall expressly require all subcontractors to comply with the provisions of this Section.

#### **G. GENERAL CONDITIONS OF AGREEMENT**

1. **Liability.** The RRWMB shall not be held liable for any payment for damages or other relief associated with the implementation of the Project, or Project Work Plan or arising under contracts entered into by the District or the District with third parties. The District must indemnify, save and hold the RRWMB, its agents, and employees, harmless from any claims or causes of action, including attorneys' fees incurred by the RRWMB, arising from the performance of this Agreement by the District or their agents, employees or subcontractors. This clause will not be construed to bar any legal remedies the District may have for the RRWMB's failure to fulfill its obligations under this Agreement.
2. **No delay by RRWMB,** its assignee or designated holder in enforcing any covenant or right under this Agreement shall be deemed a waiver of any covenant or right, and no waiver by RRWMB, its assignee or designated holder of any particular provision of this Agreement shall be deemed a waiver of any other provision or a continuing waiver of any particular provision, and except as so expressly waived in writing, all provisions shall continue in full force and effect.



3. Amendments. Any amendments or modifications to this Agreement must be in writing and will not be effective until it has been executed by the same parties who executed and approved the original Agreement, or their successors in office. The District may undertake minor modifications of the approved Project Work Plan with prior written approval of the RRWMB. No changes to the tasks, schedules, eligible expenditures or any other provision in the approved Project Work Plan may be made without the written consent of the RRWMB.
4. Remedies. If there has been a failure to comply with the provisions of this Agreement, the RRWMB may exercise any remedies available at law or in equity.
5. Governing Law, Jurisdiction, and Venue. Minnesota law, without regard to its choice-of law provisions, governs this Agreement. Venue for all legal proceedings arising out of this Agreement, or its breach, must be in the appropriate state or federal court with competent jurisdiction in Norman County, Minnesota.
6. Severability. If a provision of this Agreement shall be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision of this Agreement.
7. Effective Date. This Agreement shall be effective immediately upon signing by the parties.
8. Termination. This Agreement shall terminate when the RRWMB has determined in writing that the District has fully repaid and retired the advance of funding provided to the District according to the terms and conditions of this Agreement.



The RRWMB and the District acknowledge their consent to this Agreement and agree to be bound by its terms through their signatures entered below.

The undersigned agree and acknowledge that they are authorized agents of the parties to this Agreement, and that they have full power and authority to bind their organizations to the terms of the Agreement. Furthermore, the undersigned acknowledge that the execution of the Agreement is pursuant to the legitimate and statutorily authorized purposes of the RRWMB and the District.

**RED RIVER WATERSHED MANAGEMENT BOARD**

By John W. Leary

Title President

Date 8/27/2019

Approved as to Form and Execution:

\_\_\_\_\_  
RRWMB Attorney

Date: \_\_\_\_\_

**RED LAKE WATERSHED DISTRICT**

By \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

# Grand Marais Creek Targeted Survey

**Region:** 1

**Area:** Detroit Lakes

**Stream Name:** Grand Marais Creek

**Tributary Number:** H-026-029

**Length:** 41.84 mi

**County:** Polk

**Major Watershed Name, Number:** Grand Marais Creek, 67

**Source:** T150, R48, S09

**Mouth:** T153, R50, S16

**Date of Targeted Survey:** 05/20//2019-05/2019 (Ethan Karppinen and Josh Wickstrom)

## Targeted Survey Objective:

To assess the Grand Marais Creek Channel Restoration Project (GMCRP) by surveying throughout and upstream of the project to document the fish community inhabiting the reconnect portion of Grand Marais Creek during spring flows.

## Discussion:

Grand Marais Creek is a direct tributary to the Red River of the North. Beginning two miles northwest of Fisher, MN, it flows northwest through Polk County before entering the Red River of the North 10.0 miles north of East Grand Forks, MN. Historically, the Grand Marais Creek outlet has steadily eroded since the early 1900s and initiated a petition to divert the Grand Marais channel to an outlet ditch, which eroded into a deep gully over the years. This ditch resulted in a complete loss of the lower six miles of Grand Marais Creek. This outlet ditch contributed an average of 700 tons of sediment annually into the Red River. When the outlet ditch was in use the original six miles of Grand Marais Creek was filled with sediments and farmed during dry seasons. In 2007, the Red Lake Watershed District (RLWD) acquired funding to restore the original six miles of channel near the outlet of Grand Marais Creek. Project construction and the final diversion dam was completed in 2015. This project connects approximately 20 plus miles of stream habitat and restored nearly 400 acres of minimal agricultural land to native vegetation habitat.

During the middle of May of 2019, 12 trap nets (T34; 3/4 inch mesh; single frame) were set within and upstream of the GMCRP to assess if the newly restored channel was inhabited by large bodied non-game and game fish species during spring flows. Trap nets captured 15 species (Bismouth Buffalo, Black Bullhead, Black Crappie, Bluegill, Channel Catfish, Common Carp, Freshwater Drum, Goldeye, Mooneye, Northern Pike, Quillback, Sauger, Shorthead Redhorse, Stonecat, Walleye, and White Sucker) during the three days of sampling. A total of 176 Channel Catfish were captured throughout the GMCRP with lengths ranging from 11.22 to 29.37 inches. Of the species captured Bluegill, Mooneye, Shorthead Redhorse, and Walleye were not sampled in multiple locations within the GMCRP. The Minnesota Pollution Control Agency (MPCA) sampled the Grand Marais Creek outlet ditch during June of 2012 (one site; backpack

electrofisher (EFB)) and captured six species (Central Mudminnow, Creek Chub, Fathead Minnow, Northern Pike, Yellow Bullhead, and White Sucker). The results indicate successful fish usage of the newly restored channel within the GMCRP during spring flows.

**Status of Fishery:**

Grand Marais Creek is a direct tributary to the Red River of the North. Beginning two miles northwest of Fisher, MN, it flows northwest through Polk County before entering the Red River of the North 10.0 miles north of East Grand Forks, MN. Since the early 1990s the outlet has steadily eroded and originated the idea to create an outlet ditch. The outlet ditch allowed farmers to fill in the original lower six miles of stream with sediment to farm. The outlet ditch contributed an average of 700 tons of sediment in the Red River annually. In 2007, the Red Lake Watershed District (RLWD) acquired funding to restore the original six miles of channel and completed the project in 2015. The newly reconnected channel was sampled by the Minnesota Department of Natural Resources (MN DNR) during the middle of May of 2019 to investigate if fish were utilizing the habitat within the Grand Marais Channel Restoration Project (GMCRP).

The survey was conducted during spring flows and ideal for sampling. During the survey, 12 trap nets were set within the GMCRP and a total of 15 species (Bigmouth Buffalo, Black Bullhead, Black Crappie, Bluegill, Channel Catfish, Common Carp, Freshwater Drum, Goldeye, Mooneye, Northern Pike, Quillback, Sauger, Shorthead Redhorse, Stonecat, Walleye, and White Sucker) were sampled. Channel Catfish were abundant and captured throughout the project with lengths ranging 11.22 to 29.37 inches. Based on the species sampled Grand Marais Creek should provide angling opportunity for the public when flows are appropriate.

Table 1. Trap net stations in the Grand Marais Creek (H-026-029) for the 2019 survey. Site location descriptions are depicted by proximity to left bank (LB) or right bank (RB) and upstream (US) or downstream (DS) of roads and land marks.

<b>Site</b>	<b>GPS UTM Easting</b>	<b>GPS UTM Northing</b>	<b>Date Started</b>	<b>Effort</b>	<b>Location Description</b>
T341	195784.0	5332774.0	05/20/19	1 net-day	Under railcar bridge on RB.
T342	195867.0	5332746.0	05/20/19	1 net-day	US of T341 on RB.
T343	195893.0	5332749.0	05/20/19	1 net-day	US of railcar bridge on LB.
T344	196697.0	5331512.0	05/20/19	1 net-day	Middle of channel DS of 30 <sup>th</sup> Ave culvert.
T345	195893.0	5332749.0	05/20/19	1 net-day	US of culvert on 30 <sup>th</sup> Ave. NW on LB.
T346	197279.0	5330609.0	05/20/19	1 net-day	Double net set DS of culvert Co. Rd. 64 in the middle of the channel.
T347	197354.0	5330599.0	05/20/19	1 net-day	US of Co. Rd 64 on LB.
T348	198225.0	5329733.0	05/21/19	1 net-day	Located on RB of bend. Lead set into main channel.
T349	198200.0	5329702.0	05/21/19	1 net-day	Located in center of channel. Lead was connected to the frame of T3410.
T3410	198194.0	5329706.0	5/21/19	1 net-day	Located in center channel with the lead extended to RB. Connected to T349.
T3411	198349.0	5330504.0	5/21/19	1 net-day	DS of bend on RB.
T3412	198327.0	5330493.0	5/21/19	1 net-day	DS of bend located on LB.

Table 2. Fish species sampled in trap nets (T34) in Grand Marais Creek (H-026-029) in 2019.

Species	T341	T342	T343	T344	T345	T346	T347	T348	T349	T3410	T3411	T3412
Bigmouth Buffalo						1			1			
Black Bullhead	1					1						4
Black Crappie	1		1		1						1	
Bluegill											1	
Channel Catfish	8	13	18	5	1	2	2	5	77	2	2	41
Common Carp	1		2		3		2	1	5			1
Freshwater Drum		1									1	
Goldeye	5			3	1	1	1	1	1	2	2	2
Mooneye					1							
Northern Pike	1					2						
Quillback							2	2	1			
Sauger	1			1	1				2	1		
Shorthead Redhorse											1	
Stonecat	2					1						
Walleye				1								
White Sucker							1			2		

Preliminary



Table 3. Fish species sampled by trap netting (T34) in Grand Marais Creek (H-026-029) in 2019.

Length Group (in)	Bigmouth Buffalo	Black Bullhead	Black Crappie	Bluegill	Channel Catfish	Common Carp	Freshwater Drum	Goldeye
< 3.0								
3.0-3.99								
4.0-4.99								
5.0-5.99				1				
6.0-6.99		2	1					
7.0-7.99								
8.0-8.99		1	3					
9.0-9.99								
10.0-10.99		1						
11.0-11.99		2			2			5
12.0-12.99					10			7
13.0-13.99					26			2
14.0-14.99					51	1		4
15.0-15.99					26			
16.0-16.99					17		2	
17.0-17.99					22	3		
18.0-18.99					5	1		
19.0-19.99					5	1		
20.0-20.99					6	1		
21.0-21.99	1				2	5		
22.0-22.99	1				3	1		
23.0-23.99						2		
24.0-24.99								
25.0-25.99								
26.0-26.99								
27.0-27.99								
28.0-28.99								
29.0-29.99					1			
> 30.0								
Sample Size	2	6	4	1	176	15	2	19
Min. Length	21.81	6.38	6.81	5.00	11.22	14.65	16.34	11.22
Max. Length	22.95	11.46	8.03	5.00	29.37	23.43	16.97	14.96
Mean Length	22.38	9.19	7.75	5.00	15.67	20.14	16.65	12.73

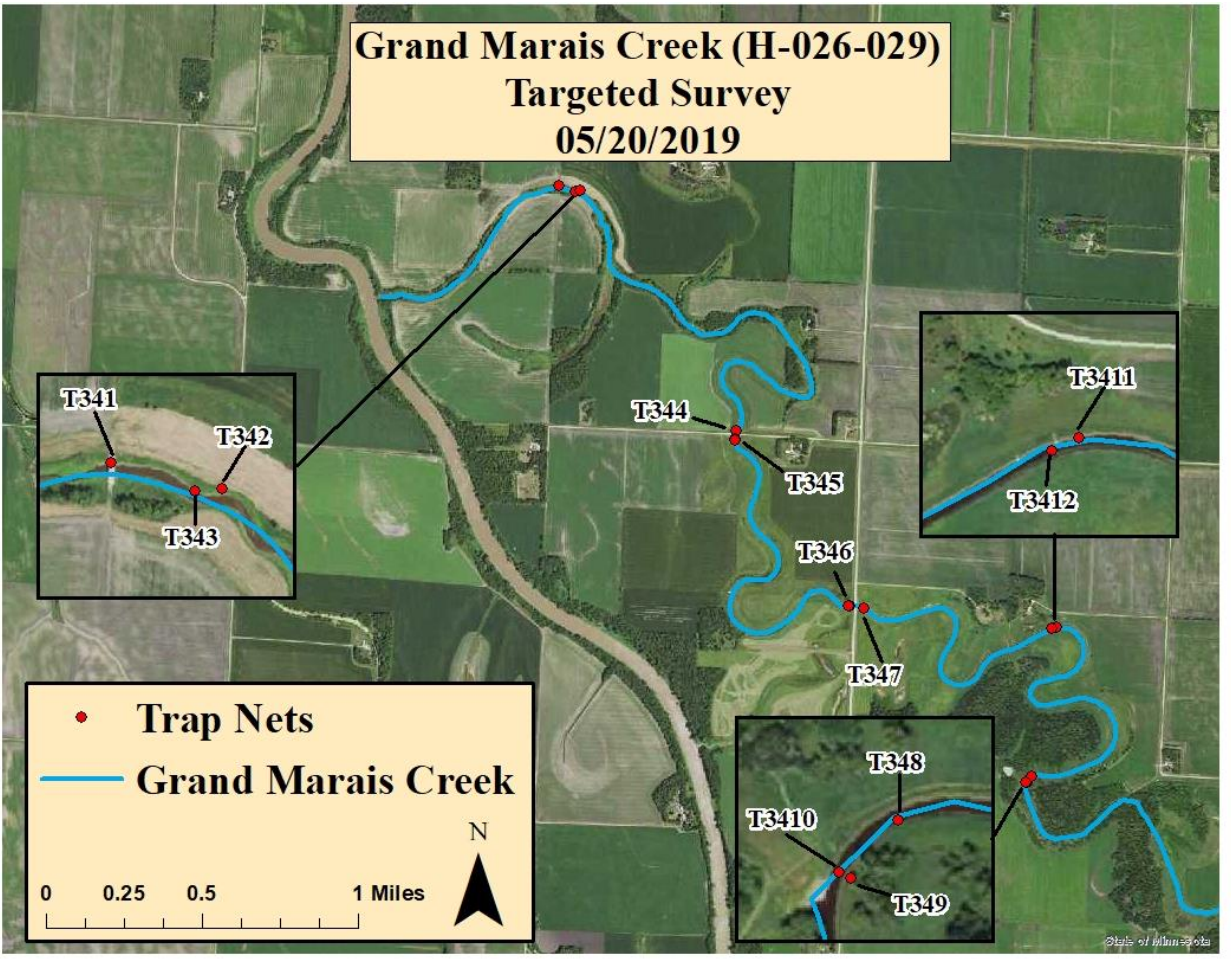
Preprint

Table 4. Fish species sampled by trap netting (T34) in Grand Marais Creek (H-026-029) in 2019 continued.


Length Group (in)	Mooneye	Northern Pike	Quillback	Sauger	Shorthead Redhorse	Stonecat	Walleye	White Sucker
< 3.0								
3.0-3.99								
4.0-4.99								
5.0-5.99						2		
6.0-6.99								
7.0-7.99						1		
8.0-8.99								2
9.0-9.99								
10.0-10.99								
11.0-11.99								
12.0-12.99				2			1	
13.0-13.99				2				
14.0-14.99				2				
15.0-15.99	1		1					
16.0-16.99			3		1			1
17.0-17.99			1					
18.0-18.99								
19.0-19.99								
20.0-20.99								
21.0-21.99								
22.0-22.99								
23.0-23.99								
24.0-24.99								
25.0-25.99		1						
26.0-26.99		1						
27.0-27.99								
28.0-28.99								
29.0-29.99								
> 30.0		1						
Sample Size	1	3	5	6	1	3	1	3
Min. Length	15.00	25.00	15.91	13.15	16.61	5.43	12.60	8.26
Max. Length	15.00	36.06	17.56	14.57	16.61	7.40	12.60	16.22
Mean Length	15.00	29.30	16.57	13.56	16.61	6.22	12.60	11.05

Preell

Figure 1. Area map showing the locations of the sampling stations on Grand Marais Creek (H-026-029).



Pre

Prepared by	Signature	Title	Date
Ethan Karppinen		Fisheries Specialist	8-12-19

Prepared/Approved by	Signature	Title	Date
Nathan Olson		Area Fisheries Supervisor	

Approved by	Signature	Title	Date
Henry Drewes		Regional Fisheries Manager	

Preliminary

*Preliminary*

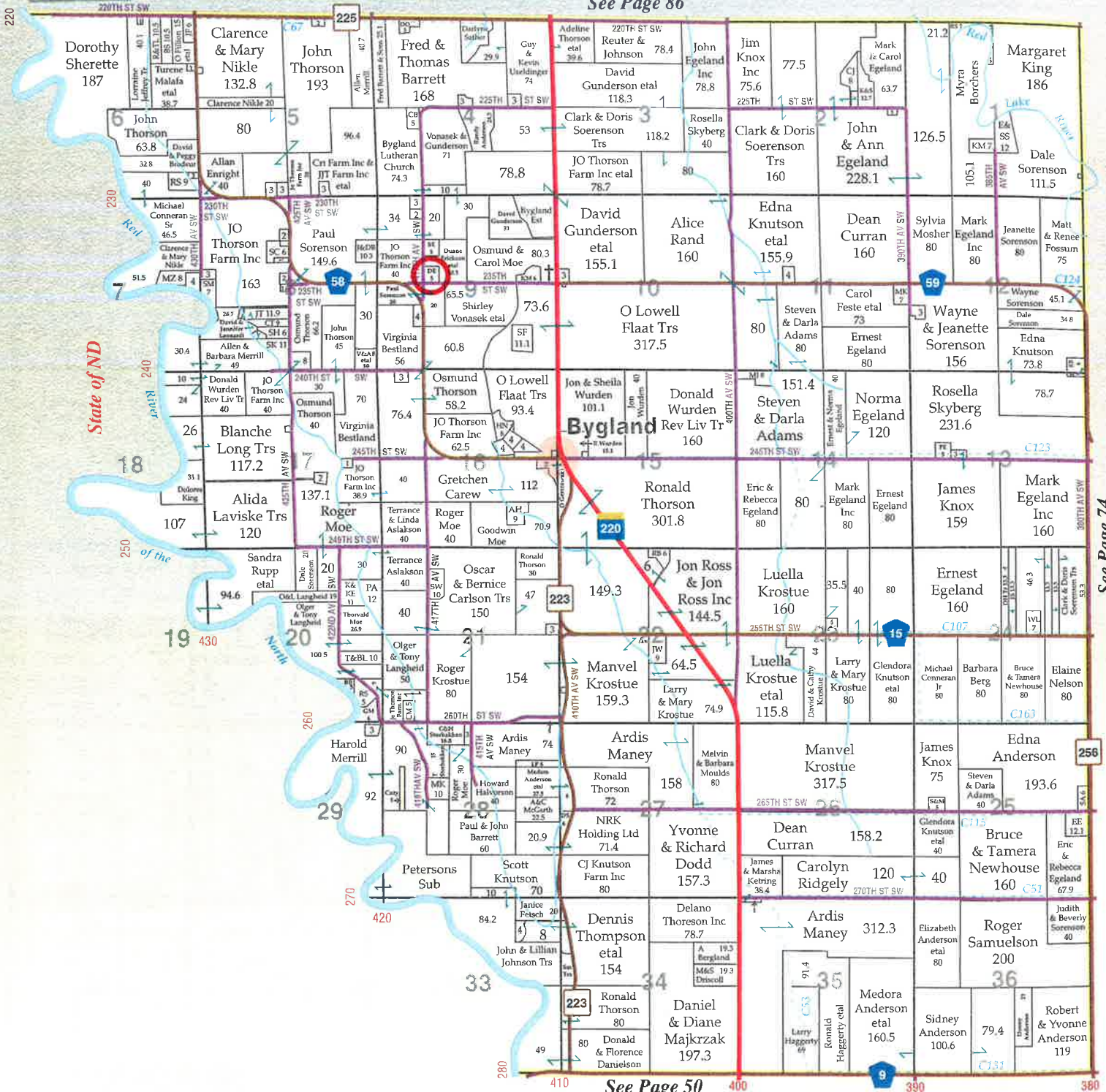


32. Bygland

T.150N. - R.49W.

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See Page 86



See Page 50



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**LEGAL & TITLE SERVICES**



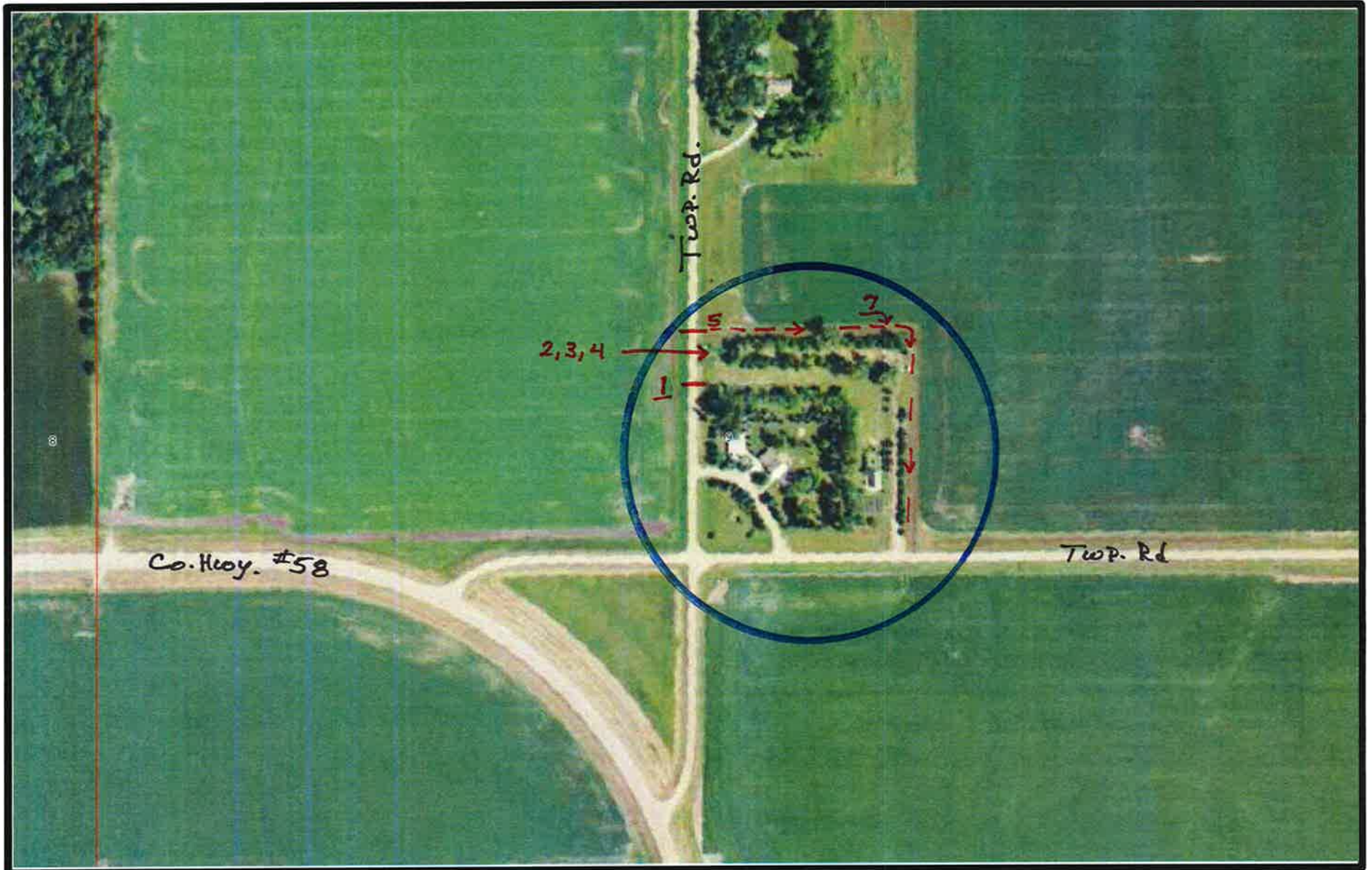
PO Box 127 • 105 N Mill St  
 Fertile, MN 56540  
 Phone: 218-945-6913  
 Fax: 218-945-6914

www.raygerman.com



KASANDRA 701-509-9662

# Schaumburg



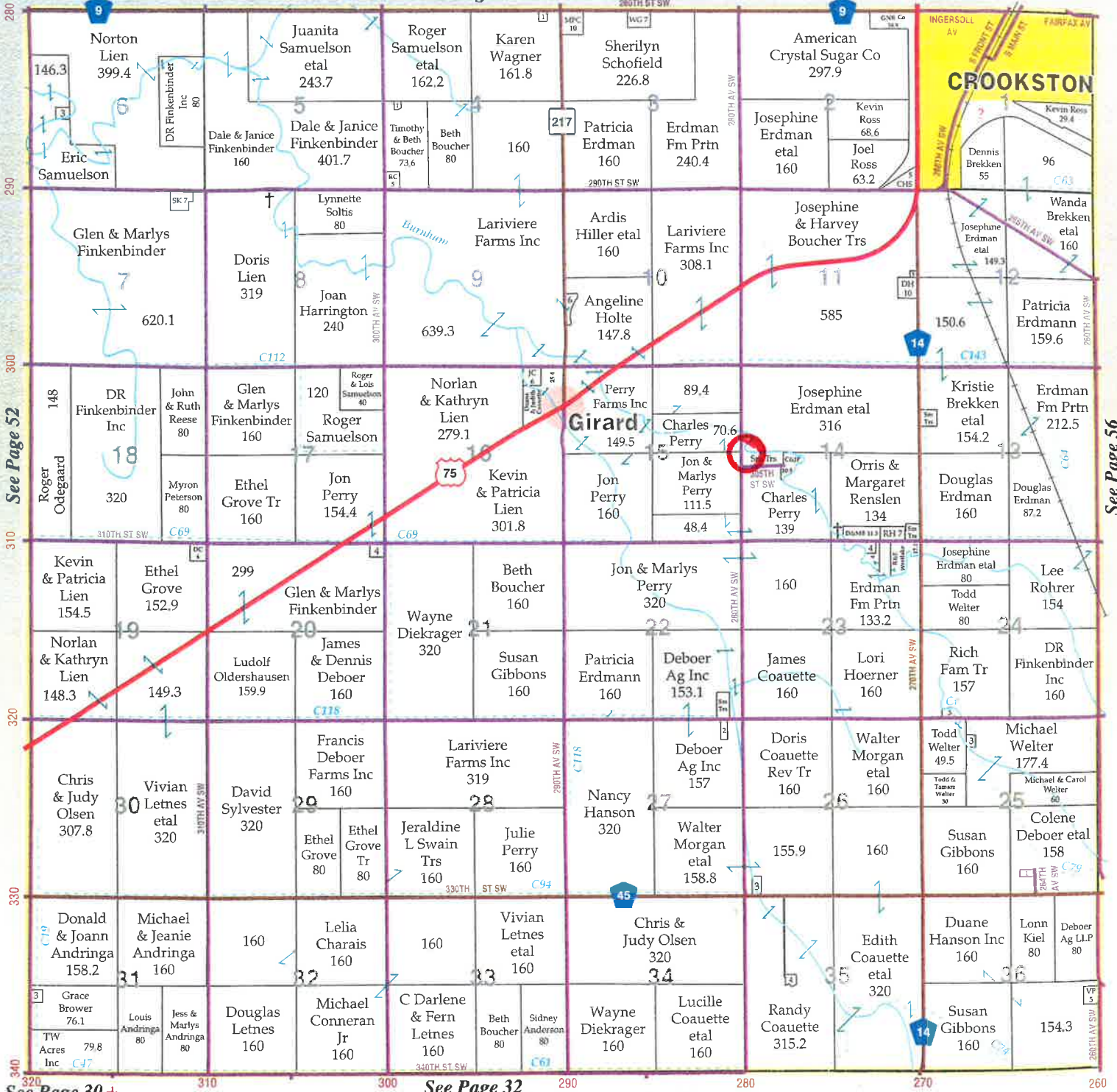
RLWD Proj. # 129 / L.S.  
Schaumburg – Improve existing  
Polk County – Bygland Twp. - T-150-N R-49-W  
NW ¼, sec. 9

- 1) Sta. 16+04 – remove 18” rcp township road centerline culvert
- 2) Sta. approx. 17+00 – entrance on E. side of twp. Rd.  
remove 15” rcp culvert and railroad ties
- 3) Sta. approx. 17+00 – furnish & install 15” csp & re-establish entrance
- 4) Sta. approx. 17+00 – furnish & install Waterman 15” flap-gate
- 5) Sta. 17+70 – furnish & install 18” csp - centerline twp. rd. - plus 2 aprons
- 6) Class V gravel for twp. rd. disturbance
- 7) Use equipment hours for ditch grading as shown on profile sheet  
(coordinate with landowner as they may request spoil location)
- 8) Seed, mulch and fertilize all disturbed areas

A quote has been received from contractor	\$6804.00
Est. RLWD costs	\$1200.00
Est. Total	\$8004.00

Applicant has agreement form to sign and return with their cost share of - \$1000.50





# Farmers Elevator Company

33461 340th Ave. SW  
Eldred, MN 56523

Phone: 218-281-1364  
Fax: 218-281-5013



# Threat

ATHENA  
605-877-1621

RLWD Proj. # 129 / L.S.  
Threat Floodwall / Dike  
Polk County – Andover Twp. - T-149-N R-47-W  
NW ¼, sec. 14

Adjacent to Burnham Creek

Due to elevation and available area, a total earthen levee is not practical and applicant does not have a source for clay borrow material

Propose:

Combination of a Floodwall and small portion of earthen levee

Next Step:

Discuss cost estimate with landowner





Permit # 19-093

Status Report: **Withdrawn**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Doug Barth		16614 180th Street NW Thief River Falls, MN 56701		tel:218-689-6571 mobile: fax:

**General Information**

(1) The proposed project is a:

**Tiling**

(2) Legal Description

(3) County: **Pennington** Township: **North** Range: **43** Section: **23 1/4: SW1/4, SE1/4**

(4) Describe in detail the work to be performed. **Pattern tile S 1/2 of section 23 & SW 1/4 of section 24. Two Pump locations.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Drain tile is needed to increase agricultural production.**

**Status**

Status	Notes	Date
<b>Withdrawn</b>		<b>Aug. 30, 2019</b>
Tabled		Aug. 1, 2019
Received		July 24, 2019

**Conditions**

**Per conversation with landowner on August 30, 2019, permit application is being withdrawn. Landowner has submitted P.A #10119,19120 to complete the proposed work within this withdrawn permit. N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-119

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Doug Barth		16614 180th Street NW Thief River Falls, MN 56701		tel: mobile: 218-689-6571 fax:

**General Information**

(1) The proposed project is a:

**Tiling**

(2) Legal Description

(3) County: **Pennington** Township: **North** Range: **43** Section: **23** 1/4: **SE1/4, SW1/4**

(4) Describe in detail the work to be performed. **Install pattern tile with lift station pump.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Increase agricultural production.**

**Status**

Status	Notes	Date
Approved		Aug. 30, 2019
Received		Aug. 21, 2019

**Conditions**

The Red Lake Watershed District (RLWD) approves the pattern tile project with a 'Lift Pump' outlet. If any work is within a public road and/or public ditch Right-of-Way, applicant shall contact the appropriate road/ditch authority for their approval and must meet their specs/conditions. Directly downstream of the tile and/or pump station(s) outlets, applicant shall ensure that adequate grade and drainage is provided. ■ Note: Please be aware of and review the 'bullet points' on the bottom half of the application. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.





Permit # 19-120

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Doug Barth		16614 180th Street SW Thief River Falls, MN 56701		tel: mobile: 218-689-6571 fax:

**General Information**

(1) The proposed project is a:

**Tiling**

(2) Legal Description

(3) County: **Pennington** Township: **North** Range: **43** Section: **24 1/4: SW1/4**

(4) Describe in detail the work to be performed. **Install pattern tile with lift station pump.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Increase agricultural production.**

**Status**

Status	Notes	Date
Approved		Sept. 10, 2019
Received		Aug. 21, 2019

**Conditions**

The Red Lake Watershed District (RLWD) approves the pattern tile project with a 'Lift Pump' outlet. If any work is within a public road and/or public ditch Right-of-Way, applicant shall contact the appropriate road/ditch authority for their approval and must meet their specs/conditions. Directly downstream of the tile and/or pump station(s) outlets, applicant shall ensure that adequate grade and drainage is provided. ■ Note: Please be aware of and review the 'bullet points' on the bottom half of the application. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-121

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Earl Roed		34905 290th Avenue SE McIntosh, MN 56566		tel: mobile: 218-686-6592 fax:

**General Information**

(1) The proposed project is a:

**Dike / Levee**

(2) Legal Description

(3) County: **Polk** Township: **Lessor** Range: **41** Section: **36 1/4: SE1/4**

(4) Describe in detail the work to be performed. **Installation of a small embankment dam, riser, and tile line to reduce erosion within the crop field.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Gully erosion within the crop field needs repair.**

**Status**

Status	Notes	Date
Approved		Aug. 28, 2019
Received		Aug. 21, 2019

**Conditions**

**Red Lake Watershed District (RLWD) approval to install erosion control structure. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-122

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
	University of Minnesota Crookston	2900 University Avenue Crookston, MN 56716		tel:218-281-6510 mobile: fax:

**General Information**

(1) The proposed project is a:

**Tiling**

(2) Legal Description

(3) County: **Polk** Township: **Crookston** Range: **46** Section: **19 1/4: SE1/4**

(4) Describe in detail the work to be performed. **Install pattern tile with lift station pump outlet.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Pattern tiling 60 acres for drainage and surface water research. Setting up a soil health research site.**

**Status**

Status	Notes	Date
Approved	None	Sept. 11, 2019
Received	None	Aug. 22, 2019

**Conditions**

**P.A. #19122 The Red Lake Watershed District (RLWD) approves the pattern tile project and lift station. If any work is within a public road and/or public ditch Right-of-Way, applicant shall contact the appropriate road/ditch authority for their approval, and must meet their specs/conditions. Directly downstream of the tile and/or pump station(s) outlets, applicant shall ensure that adequate grade and drainage is provided. ■ Note: Please be aware of, and review the 'bullet points' on the bottom half of the application. For proposed work on lands not owned by applicant, he/she must obtain, in writing, permission from the affected landowners to perform proposed work. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166)**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-123

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
	Kratka Township	11314 260th Avenue NE Thief River Falls, MN 56701		tel: 218-964-5424 mobile: 218-684-1987 fax:

### General Information

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Pennington** Township: **Kratka** Range: **41** Section: **15 1/4**: **SW1/4**

(4) Describe in detail the work to be performed, **Remove existing 18" diameter centerline culvert and replace with 24" diameter and flapgate.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **For road safety. Culvert has deteriorated and needs to be lengthened.**

### Status

Status	Notes	Date
<b>Approved</b>	<b>None</b>	<b>Sept. 11, 2019</b>
Received	None	Aug. 22, 2019

### Conditions

**P.A. #19123 - Kratka Twp. (Pennington Co.) – sec. 15, 16 Red Lake Watershed District (RLWD) approval to replace an 18 in. diameter csp centerline culvert with a 24 in. diameter csp and flap-gate, at approx. the same flowline elev. as existing pipe. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166)**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.





Permit # 19-124

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Steve Kirchoffner		4502 Homestead Circle Grand Forks, ND 58201		tel:701-740-1740 mobile: fax:

**General Information**

(1) The proposed project is a:

**Tiling**

(2) Legal Description

(3) County: **Polk** Township: **Keystone** Range: **None** Section: **14 1/4**:

(4) Describe in detail the work to be performed. **Install pattern tile with lift station pump.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Over saturation of the soil is causing a massive reduction in cropping ability.**

**Status**

Status	Notes	Date
Approved		Sept. 5, 2019
Received		Aug. 22, 2019

**Conditions**

The Red Lake Watershed District (RLWD) approves the pattern tile project with a 'Lift Pump' outlet. If any work is within a public road and/or public ditch Right-of-Way, applicant shall contact the appropriate road/ditch authority for their approval and must meet their specs/conditions. Directly downstream of the tile and/or pump station(s) outlets, applicant shall ensure that adequate grade and drainage is provided. ■ Note: Please be aware of and review the 'bullet points' on the bottom half of the application. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-125

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Aaron Hyland		21833 State Highway 219 Goodridge, MN 56725		tel: mobile: 218-689-9969 fax:

### General Information

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Marshall Township: Grand Plain Range: 41 Section: 35 1/4: NE1/4**

(4) Describe in detail the work to be performed. **Install 24"x40' culvert and field crossing.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **No current access at this site.**

### Status

Status	Notes	Date
Approved		Aug. 28, 2019
Received		Aug. 23, 2019

### Conditions

**Red Lake Watershed District (RLWD) approval to install 24" diameter field entrance culvert, as per approval of Grand Plain Township; proposed work is within Township Road Right-of-Way. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-126

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Al Hugg		19642 110th Avenue NW Thief River Falls, MN 56701		tel: mobile: 218-416-2034 fax:

### General Information

- (1) The proposed project is a:  
**Surface Drainage (New Ditch or Improvement)**
- (2) Legal Description
- (3) County: **Pennington** Township: **Norden** Range: **44** Section: **23 1/4: NW1/4**
- (4) Describe in detail the work to be performed. **Clean ditch bottom**
- (5) Why is this work necessary? Explain water related issue/problem being solved. **Holds water**

### Status

Status	Notes	Date
<b>Approved</b>		<b>Aug. 27, 2019</b>
Received		Aug. 27, 2019

### Conditions

**Red Lake Watershed District (RLWD) approval to clean east township road ditch from station 7+34 – 26+34, as per approval of Norden Township; proposed work is within Township Road Right-of-Way. All excavation shall be consistent with the existing road and ditch slopes and there shall be no vertical excavation faces. Existing drainage/flow patterns shall not be changed or diverted. The RLWD has performed an elevation survey of the ditch bottoms, and existing culverts. A copy of the survey will be provided to the applicant with the proposed ditch grade for excavation. If excavation is performed within Pennington County State Aid Highway 31 Right-of-Way, approval must be attained from Pennington County Highway Department. For proposed work on lands not owned by applicant, he/she must obtain, in writing, permission from the affected landowners to perform proposed work. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-127

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Scott Edgar		13015 220th Avenue NE Thief River Falls, MN 56701		tel: 701-360-1956 mobile: fax:

**General Information**

(1) The proposed project is a:

**Surface Drainage (New Ditch or Improvement)**

(2) Legal Description

(3) County: **Pennington** Township: **Kratka** Range: **41** Section: **18 1/4**:

(4) Describe in detail the work to be performed. **Clean north county ditch along County Road 7 for change of water direction in NE1/4. Also clean west side ditch.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Improved drainage.**

**Status**

Status	Notes	Date
<b>Approved</b>		<b>Aug. 28, 2019</b>
Received		Aug. 27, 2019

**Conditions**

**Red Lake Watershed District (RLWD) approval to clean County State Aid Highway #7 south road ditch, and to clean Kratka Township East road ditch, as per approval of Pennington County Highway Department and Kratka Township; proposed work is within County and Township Road Right-of-Way. All excavation shall be consistent with the existing road and ditch slopes and there shall be no vertical excavation faces. Existing drainage/flow patterns shall not be changed or diverted. The RLWD has performed an elevation survey of the ditch bottoms, and existing culverts. A copy of the survey will be provided to the applicant with the proposed ditch grade for excavation. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-128

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Nicolle Ellison		14649 140th Avenue NE Thief River Falls, MN 56701		tel: mobile: 218-686-7598 fax:

### General Information

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Pennington** Township: **River Falls** Range: **43** Section: **3 1/4: NW1/4**

(4) Describe in detail the work to be performed. **Replace existing field entrance culvert with a 24"x30'**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Culvert is washed out.**

### Status

Status	Notes	Date
Approved		Aug. 27, 2019
Received		Aug. 27, 2019

### Conditions

**Red Lake Watershed District (RLWD) approval to replace 24" diameter washed out field entrance culvert and replace with a 24" diameter culvert. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-129

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Tim Chaput		27388 120th Avenue SW Red Lake Falls, MN 56750		tel: mobile: 218-280-1781 fax:

### General Information

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Red Lake** Township: **Lake Pleasant** Range: **44** Section: **20 1/4: SE1/4**

(4) Describe in detail the work to be performed. **Install 18" diameter culvert in field entrance (north side of County Road #13).**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Improve drainage on a small area of agricultural land.**

### Status

Status	Notes	Date
<b>Approved</b>	<b>None</b>	<b>Sept. 11, 2019</b>
Received	None	Aug. 28, 2019

### Conditions

**P.A. #19129 Red Lake Watershed District (RLWD) approval to install an 18 in. diameter csp field entrance culvert, as per approval of Red Lk. County Hwy. Dept. specs/conditions; proposed work is in the North ditch of Red Lk. County Road #113 Right-of-Way. The RLWD has performed an elevation survey of the ditch bottom, and existing culverts. A copy of the survey has been provided to the applicant, the proposed culvert elevation is to be installed at the approximate existing ditch grade. Contact persons at Red Lake Co. Hwy. Dept. are Engineer Eric Hove or Randy Konickson at 218-253-2697. For proposed work on lands not owned by applicant, For he/she must obtain, in writing, permission from the affected landowners to perform proposed work. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166)**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-130

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
	Belguim Township	27470 132nd Street SW Euclid, MN 56722		tel:218-289-5175 mobile: fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: Polk Township: Belgium Range: 46 Section: 16 1/4: SE1/4

(4) Describe in detail the work to be performed. **Replace existing center line 30"x 30' culvert with a 30"x 40' culvert at same elevation.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Shoulder of road is collapsing.**

**Status**

Status	Notes	Date
Approved		Aug. 30, 2019
Received		Aug. 29, 2019

**Conditions**

**Red Lake Watershed District (RLWD) approval to replace 30" diameter center-line pipe with a 30" diameter pipe. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.





Permit # 19-131

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
	Farmers Cooperative Grain and Seed	8th and Davis Thief River Falls, MN 56701		tel:218-681-6281 mobile: fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Pennington** Township: **North** Range: **43** Section: **27 1/4**: **Govt Lot 4**

(4) Describe in detail the work to be performed. **Replace and relocate 60" CMP.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Existing pipe needs to be replaced and re-aligned.**

**Status**

Status	Notes	Date
<b>Approved</b>		<b>Sept. 4, 2019</b>
Received		Aug. 29, 2019

**Conditions**

**Red Lake Watershed District (RLWD) approval to replace and re-align 60" diameter culvert, see map. Applicant must ensure that erosion control practices are installed for sediment control. Permit location is in Chiefs Coulee waterway. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.





Permit # 19-132

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Robin Wagner		23500 330th Avenue SW Fsiher, MN 56723		tel: mobile: 218-289-1622 fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Polk** Township: **Lowell** Range: **47** Section: **16 1/4: NW1/4**

(4) Describe in detail the work to be performed. **Remove old culvert and widen the crossing the NE corner of the field.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Culvert is failing and the crossing is dangerous.**

**Status**

Status	Notes	Date
Approved		Sept. 6, 2019
Received		Aug. 29, 2019

**Conditions**

**Red Lake Watershed District (RLWD) approval to remove and 42" diameter field entrance culvert and replace with a 42" diameter culvert as per approval of Lowell Township and Polk County Ditch Authority; proposed work is within Township Road Right-of-Way and Polk County Ditch 33 Right-of-Way. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-134

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Darin Glass		28190 160th Avenue SE Mentor, MN 56736		tel: mobile: 218-289-0047 fax:

### General Information

(1) The proposed project is a:

**Surface Drainage (New Ditch or Improvement)**

(2) Legal Description

(3) County: **Polk** Township: **Grove Park** Range: **43** Section: **4 1/4: NE1/4**

(4) Describe in detail the work to be performed. **Clean road ditch along west side of road for approximately 1/2 mile.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Road ditch has filled with dirt and brush.**

### Status

Status	Notes	Date
<b>Approved</b>		<b>Sept. 4, 2019</b>
Received		Sept. 3, 2019

### Conditions

**Red Lake Watershed District (RLWD) approval to clean west township road ditch from station 25+94 to 51+44. 15" diameter field entrance culvert at station 51+44-51+95 must be removed and replaced by a 24" diameter culvert, current 15" diameter culvert is undersized, as per approval of Grove Park - Tilden Township; proposed work is within township Road Right-of-Way. All excavation shall be consistent with the existing road and ditch slopes and there shall be no vertical excavation faces. Existing drainage/flow patterns shall not be changed or diverted. The RLWD has performed an elevation survey of the ditch bottoms, and existing culverts. A copy of the survey will be provided to the applicant with the proposed ditch grade for excavation. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-136

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Del Determan		Box 66 Brooks, MN 56715		tel: mobile: 218-280-2801B fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Pennington** Township: **Bray** Range: **45** Section: **25 1/4: NE1/4**

(4) Describe in detail the work to be performed. **Move current access approximately 150 feet to the east. Clean south county road ditch/backslope.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Easier access to property.**

**Status**

Status	Notes	Date
<b>Approved</b>		<b>Sept. 6, 2019</b>
Received		Sept. 4, 2019

**Conditions**

**Red Lake Watershed District (RLWD) approval to remove 15" diameter field entrance culvert and move it to the east 150' and clean south county road ditch, as per approval of Pennington County Highway Department; proposed work is within County Road # 58 Right-of-Way. All excavation shall be consistent with the existing road and ditch slopes and there shall be no vertical excavation faces. Existing drainage/flow patterns shall not be changed or diverted. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-137

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Greg Nelson		10123 180th Street NE Thief River Falls, MN 56701		tel: mobile: 218-686-9889 fax:

### General Information

- (1) The proposed project is a:  
**Culvert Installation / Removal / Modification**
- (2) Legal Description
- (3) County: **Pennington** Township: **Norden** Range: **44** Section: **23 1/4: NE1/4 SE1/4**
- (4) Describe in detail the work to be performed. **Install 30"x30' culvert/crossing.**
- (5) Why is this work necessary? Explain water related issue/problem being solved. **No current field access.**

### Status

Status	Notes	Date
<b>Approved</b>		<b>Sept. 5, 2019</b>
Received		Sept. 4, 2019

### Conditions

**Red Lake Watershed District (RLWD) approval to install field entrance culvert, as per approval of Norden Township; proposed work is within township Road Right-of-Way. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-138

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Jerry Skjerven		17589 195th Avenue SE Plummer, MN 56748		tel: mobile: 218-791-0955 fax:

### General Information

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Red Lake** Township: **Emardville** Range: **42** Section: **28 1/4: SW1/4**

(4) Describe in detail the work to be performed. **Install field access.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **No current access. Avoid going through the farm yard.**

### Status

Status	Notes	Date
<b>Approved</b>	<b>None</b>	<b>Sept. 11, 2019</b>
Received	None	Sept. 4, 2019

### Conditions

**P.A. #19138 Red Lake Watershed District (RLWD) approval to install a field entrance with a 36 in. diameter culvert, as per approval of both the Red Lake County Drainage Authority/County Board & Red Lake County Hwy. Dept. specs/conditions; proposed work is within Br. #1 of Joint Co. Ditch #15 Right-of Way & Co. Rd. #26 Right-of Way. ■ Contact person at Red Lake Co. Drainage Authority is Kurt Casavan at 218-253-4121 ■ Contact persons at Red Lake Co. Hwy. Dept. are Engineer Eric Hove or Randy Konickson at 218-253-2697. For proposed work on lands not owned by applicant, he/she must obtain, in writing, permission from the affected landowners to perform proposed work. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166)**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-139

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Craig & Melinda Larson		24202 265th Street SW Crookston, MN 56716		tel: 701-740-5613 mobile: 218-891-2566 fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: Polk Township: Crookston Range: 46 Section: 29 1/4: SW1/4 NE1/4

(4) Describe in detail the work to be performed. **Remove existing 2-26" round culverts and install a new 54" oval (60x46) CMPA culvert.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Last spring ground washed out between the two culverts. Found the north culvert has a split causing the wash out.**

**Status**

Status	Notes	Date
Approved	None	Sept. 11, 2019
Received	None	Sept. 4, 2019

**Conditions**

**P.A. #19139 Red Lake Watershed District (RLWD) approval to remove 2 lines of existing 36 in. diameter culverts and install 1 line of 64 in. x 43 in. metal arch culvert, as per approval of Crookston Township specs/conditions; proposed work is within township road Right-of Way. For proposed work on lands not owned by applicant, he/she must obtain, in writing, permission from the affected landowners to perform proposed work. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166)**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 19-140

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Robert Mayer		21475 300th Street SE Erskine , MN 56535		tel:218-687-3085 mobile: 218-790-9496 fax:

**General Information**

- (1) The proposed project is a:  
**Culvert Installation / Removal / Modification**
- (2) Legal Description
- (3) County: **Polk** Township: **Badger** Range: **42** Section: **15 1/4**:
- (4) Describe in detail the work to be performed. **Install two driveway crossings.**
- (5) Why is this work necessary? Explain water related issue/problem being solved. **No access.**

**Status**

Status	Notes	Date
<b>Approved</b>		<b>Sept. 9, 2019</b>
Received		Sept. 9, 2019

**Conditions**

**Site 1- Red Lake Watershed District (RLWD) approval to install 18” diameter culvert, as per approval of Badger Township; proposed work is within Township Road Right-of-Way. Site 2- RLWD approval to install 18” diameter culvert, as per approval of Badger Township; proposed work is within Township Road Right-of-Way. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.

## **Red Lake Watershed District - Administrators Report**

**September 11, 2019**

**Red River Watershed Management Board** – LeRoy and I will be attending the RRWMB meeting held 9:30 am on September 17, 2019 at the RRWMB Board Room in Ada. I will be attending the budget and finance committee meeting following the Red Board meeting. I have attached the agenda for that meeting as well as Some of the highlights was an update by the Red River Retention Authority on their letter of support to discontinue the Pine Lake RCPP.

**BR-6 Wildlife Habitat Pool** – With the assistance from HDR and MnDNR staff, we are putting the final touches on the grant from Conservation Legacy Funding to assist in funding the repair to the outlet structure of the Wildlife Habitat Pool along the east side of Burnham Creek Impoundment. I am waiting for a letter of support from DNR staff so after that is submitted, I will send off the grant for review.

**Clearwater County 2019 Area Meeting and Fall Tour** – Reminder that the Clearwater County SWCD fall tour which will be held tomorrow, Thursday September 12, 2019 at Douglas Lodge at Itasca State Park.

**Loren Sanderson Retirement** – Loren indicated to me yesterday that his final day of employment with the District will be October 18, 2019.

**Water Quality Report** – I have included in your packet, Corey's water quality report dated May 2019.





**AGENDA  
SEPTEMBER 17, 2019  
BUDGET AND FINANCE COMMITTEE MEETING  
RRWMB OFFICE – ADA, MN**

**Note:** The Committee will convene after the RRWMB regular board meeting concludes on September 17, 2019 and after lunch.

- 1. Call Meeting to Order**
- 2. Meeting Additions and Adoption of Agenda**
- 3. Review and Approve Meeting Minutes: June 26, 2019**
- 4. Overall RRWMB Funding Strategy**
- 5. Star Value Calculation Discussion**
- 6. Water Quality Funding**
- 7. Other Items**
- 8. Adjourn**

By Corey Hanson, Red Lake Watershed District Water Quality Coordinator. 8/22/2019.

### **River Watch**

The beginning of May was filled with River Watch monitoring and River of Dreams canoe launches.

- May 2, 2019 – Training session and introduction to the program for the new Thief River Falls River Watch teacher
- May 7, 2019 – Water quality monitoring with the Red Lake Falls River Watch group
- May 7, 2019 – River of Dreams canoe launch for elementary students in Red Lake Falls
- May 8, 2019 – Water quality monitoring with the Clearbrook-Gonvick River Watch group
- May 8, 2019 – River of Dreams canoe launch at the Clearwater Lake Dam for Clearbrook-Gonvick elementary students
- May 10, 2019 – River of Dreams canoe launch at People's Park in Plummer for Red Lake County Central elementary students



- May 10, 2019 – Water quality monitoring with the Red Lake County Central River Watch group
- May 14, 2019 – Water quality monitoring with the Win-E-Mac River Watch group
- May 15, 2019 – River of Dreams canoe launch at the Riverside Park in Red Lake Falls for Win-E-Mac elementary students





- May 16, 2019 – River of Dreams canoe launch at the Mud River for Grygla elementary school students



**Clearwater River Watershed Restoration and Protection Strategy (WRAPS) Project**

Staff from the RLWD and MPCA completed a workplan for the process of preparing these documents for the public notice period.

### **Red Lake River Watershed One Watershed One Plan**

An ArcGIS Online shapefile and map have been created for the purpose of tracking completed projects and proposed projects for the Red Lake River 1W1P by Mary Steinlicht of the Red River Valley Conservation Service Area.

MPCA staff shared a draft work plan for the Federal Clean Water Act Section 319 Small Watersheds Focus Grant workplan for the middle management area of the Red Lake River Watershed. Staff from the RLWD reviewed the document.

A Red Lake River 1W1P Planning Workgroup telephone conference on April 30th. The meeting was to review the minor changes to the existing Work Plan and submit to BWSR for approval. Items that were addressed included a bank stabilization project in the Burnham Creek Watershed that was initiated by the West Polk SWCD and clarification of funding for the stabilization of the outlet to the Thief River Falls Westside FDR Project.

### **Thief River One Watershed One Plan (1W1P)**

Section 4 was revised by Houston Engineering, Inc. in May 2019. Watershed-based funding for the Thief River Watershed could be obtained in early 202 if the plan is completed in a timely manner. The Planning Work Group discussed potential projects for the first round of watershed-based funding for the Thief River Watershed:

- Stabilization of the outlet of JD 23
- Conservation tillage
- Cover crops
- Workshops (septic systems, drainage water management)
- Ditch inventory (Marshall and Beltrami Counties)
- Engineering and feasibility study for the Mud River re-meandering project within Agassiz National Wildlife Refuge
- Survey and design for the stabilization of the outlet of Judicial Ditch 30 in Pennington County
- Inventory of locations damaged by floods

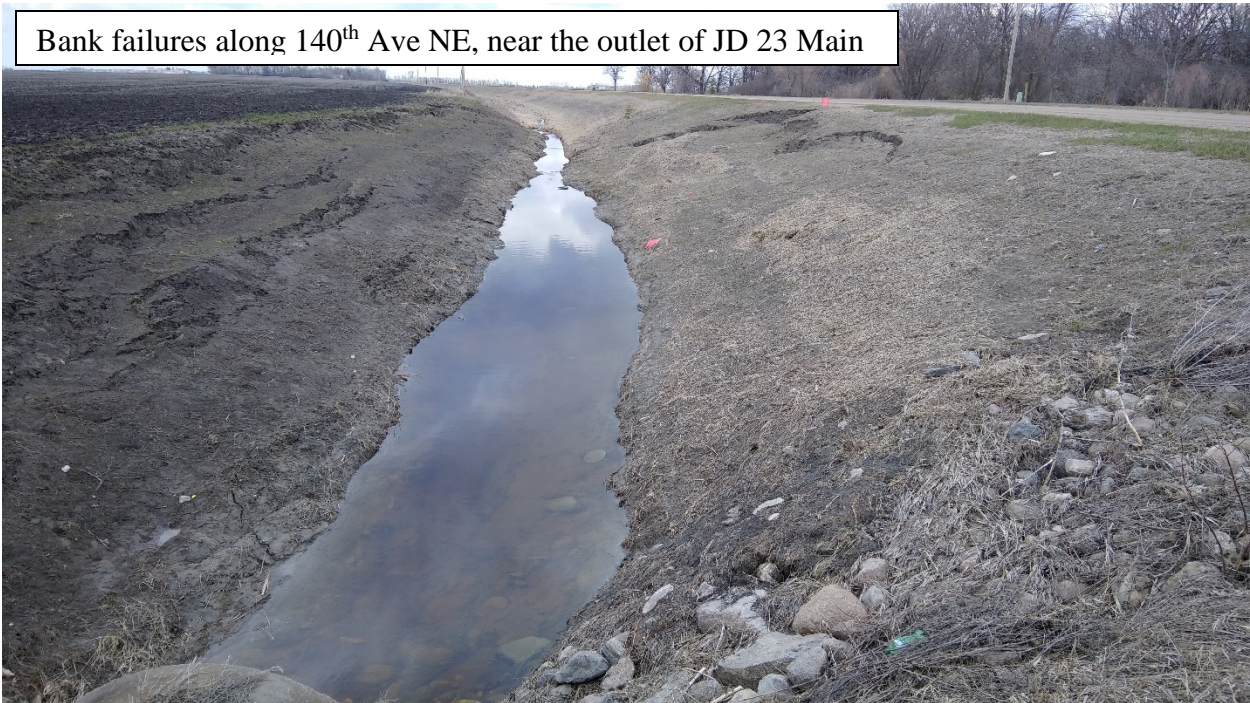
One of the potential projects for the first Thief River One Watershed One Plan work plan is a stabilization project at the outlet of the Judicial Ditch 23 (Main). The Marshall County Soil and waters Conservation District has been working on finding a solution to the problem. The SWCD submitted an application for Clean Water Funds in 2018 but missed the cut for funding. When scouting locations for water level monitoring on that ditch, District staff photographed the bank failures that are threatening the road near the outlet of the ditch.



Erosion at the outlet of JD 23 Main



Bank failures along 140<sup>th</sup> Ave NE, near the outlet of JD 23 Main



**Red Lake Watershed District Long-Term Monitoring Program**

The first round of 2019 sampling for the RLWD long-term monitoring program was completed in May.



High concentrations of total phosphorus were found in:

- RLWD Ditch 15 at CSAH 20
- Polk County Ditch 2 at County Road 62
- Grand Marais Creek at 110<sup>th</sup> St. NW
- Grand Marais Creek at 130<sup>th</sup> St. NW
- Heartsville Coulee at 13<sup>th</sup> Street in East Grand Forks
- Polk County Ditch 1
- Chief's Coulee at Dewey Avenue in northern Thief River Falls
- Nasset Creek

High Concentrations of *E. coli* bacteria were found in:

- Chief's Coulee at Dewey Avenue in northern Thief River Falls
- Blackduck River at Deer Trail Road
- North Cormorant River at CSAH 36
- Pennington County Ditch 96

High concentrations of biochemical oxygen demand were found in:

- Chief's Coulee at Dewey Avenue in northern Thief River Falls

Total suspended solids concentrations met standards in the lower Red Lake River. The outlet of Four-Legged Lake outlet will be monitored in 2019. The May sampling found very low concentrations of total suspended solids (<1 mg/L) and total phosphorus at the outlet of West Four-Legged Lake (233<sup>rd</sup> Ave). The *E. coli* bacteria concentration in Pennington County Ditch 21 was notably low. A bridge replacement may have fixed the *E. coli* problem in that ditch by eliminating structures (wooden beams) under the old bridge that were used as roosting platforms by pigeons. The May samples from Long Lake met water quality standards (21 ppb total phosphorus and 4.45 ppb chlorophyll-a).

New dam at the outlet of Thief Lake





Erosion due to poor riparian vegetation upstream of the “Golf Course Bridge” over the Thief River



Poplar River downstream of CSAH 30





Rock riffle grade stabilization structure in Marshall County Ditch 20 – still working well



A septic drain field along Silver Creek was noticeable during spring sampling due to its smell and that it wasn't hidden by vegetation at the time.





Unpermitted ditch cleaning project near Pine Lake. The manner in which this ditch was dug has led to unstable banks, erosion, and conveyance of sediment and nutrient pollution to Pine Lake.



Sediment moving along the bottom of an unpermitted ditch cleaning project, toward Pine Lake



District staff discussed the Clearwater River trout stream and sampling of Long Lake (near Pinewood) with a landowner, Charles Evenwoll. Long Lake was one of the few impaired lakes within the Clearwater River Watershed. A September 2018 sample easily met the water quality standards and an examination of the lake found very little evidence of ongoing pollutant sources. Evenwoll gave access permission to the RLWD for sampling in 2019. He also shared interesting information about the history of the Clearwater River in that area.



The Evenwoll family has owned land along the Clearwater River since 1892. When the family settled in the area, there were no roads, just trails. Historically, there were several dams along the Clearwater River. The dams were used around the turn of the century (late 1800s and early 1900s) to help with the transport of logs down the river to downstream mills. The “Bagley Dam” was constructed on the Evenwoll property. The dam created a large pool in the floodplain of the river (downstream of where CSAH 3 currently crosses the river. There was a lot of sedimentation within that pool. In fact, every dam had a pool and silt behind it. Today, that 3-4 feet of loose sediment is highly erodible and provides further explanation for the relatively unstable banks and active erosion that has been noted along that portion of the river. The embankments that were part of the old dam are still present today. The pool was deep enough that dead heads (logs that wouldn’t float) would accumulate and a steam sawmill would be brought in to cut them up. There was a Headwaters Logging Camp along the Clearwater River near the railroad crossing of the river west of Pinewood. The foundations of those buildings are still there. The other dams were located upstream of CSAH 22 and near the “Tronnes Farm.” There has also been a lot of erosion at the Tronnes Farm.

### **Monitoring Plan for the Lost Lake and Pine Lake Area**



The RLWD Board of Managers and a Pine Lake Project Team are exploring the possibility of flood damage reduction projects within the watershed of Pine Lake. One project idea involves storing water at Lost Lake, a small lake along a headwaters portion of the Lost River. That portion of the Lost River, however, has been designated as a trout stream by the Minnesota Department of Natural Resources, which has raised issues in the permitting of an on-channel impoundment.

Despite the trout stream designation, the stream does not support trout and is not stocked for trout. The Minnesota Pollution Control Agency (MPCA) assessed the Lost River, within the designated trout stream portion, as a warm-water fishery and not a cold-water fishery. The MPCA collected biological samples and deployed temperature loggers during the Clearwater River Watershed Intensive Watershed Monitoring effort and found that the portion of the Lost River downstream of Lost Lake (Waterbody ID 09020305-530) did not meet habitat and water quality requirements of a trout stream and proposed reclassification of the channel as a warm water channel, not a cold water trout stream.

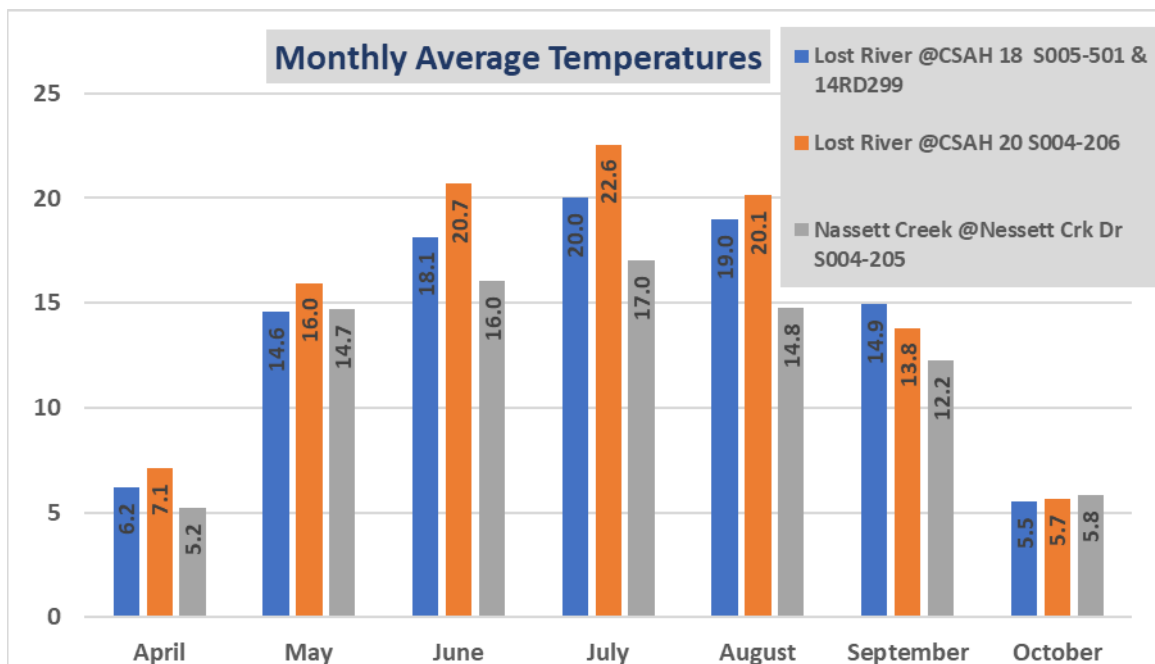
To help answer questions about the current conditions in the lakes and streams, the District will conduct intensive water quality monitoring in the Pine Lake and Lost Lake area to characterize the current conditions of Lost Lake, Pine Lake, and the Lost River. District staff created a 2019 monitoring plan for the Lost Lake and Pine Lake area and presented the plan at the May 17, 2019 Project Team meeting. The presentation included information on current monitoring efforts, water quality standards, current water quality conditions, and a proposed monitoring plan. The presentation was shared on the District's Clearwater River Watershed website:

<http://www.redlakewatershed.org/Presentations/Pine%20Lake%20Area%20Water%20Quality%20Monitoring.pdf>.

District staff also provided information and analysis to MNDNR staff after the Project Team meeting, including:

- Frequency of temperatures above 25° C.
- Presentations were shared with DNR staff
- Month-by-month analysis/summarization of temperature data
- Improved maps that include the footprints of the trout stream designations

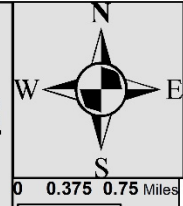
The temperature threshold that is used to separate cold waters from warm waters is 20° C. As shown in the following chart, temperatures are typically lower than 20° C in Nasset Creek, but higher than 20° C in the Lost River.



# Pine Lake Area

## Aquatic Life and Recreation Impairments

### 2018 303(d) List of Impaired Waters



-Results of the 2016 Assessment and Public Comments  
 -Excludes mercury (Hg) impairments.  
 -Fish IBI = Fish Index of Biotic Integrity  
 -M-IBI = Macroinvertebrate Index of Biotic Integrity  
 -Assessment Units (AUIDs) are numbered 09020305-xxx for this watershed and displayed as 5xx or 6xx on this map

**Legend**

— Minnesota Designated Trout Streams

**Lake Impairments**

■ Eutrophication

**Assessed Streams**

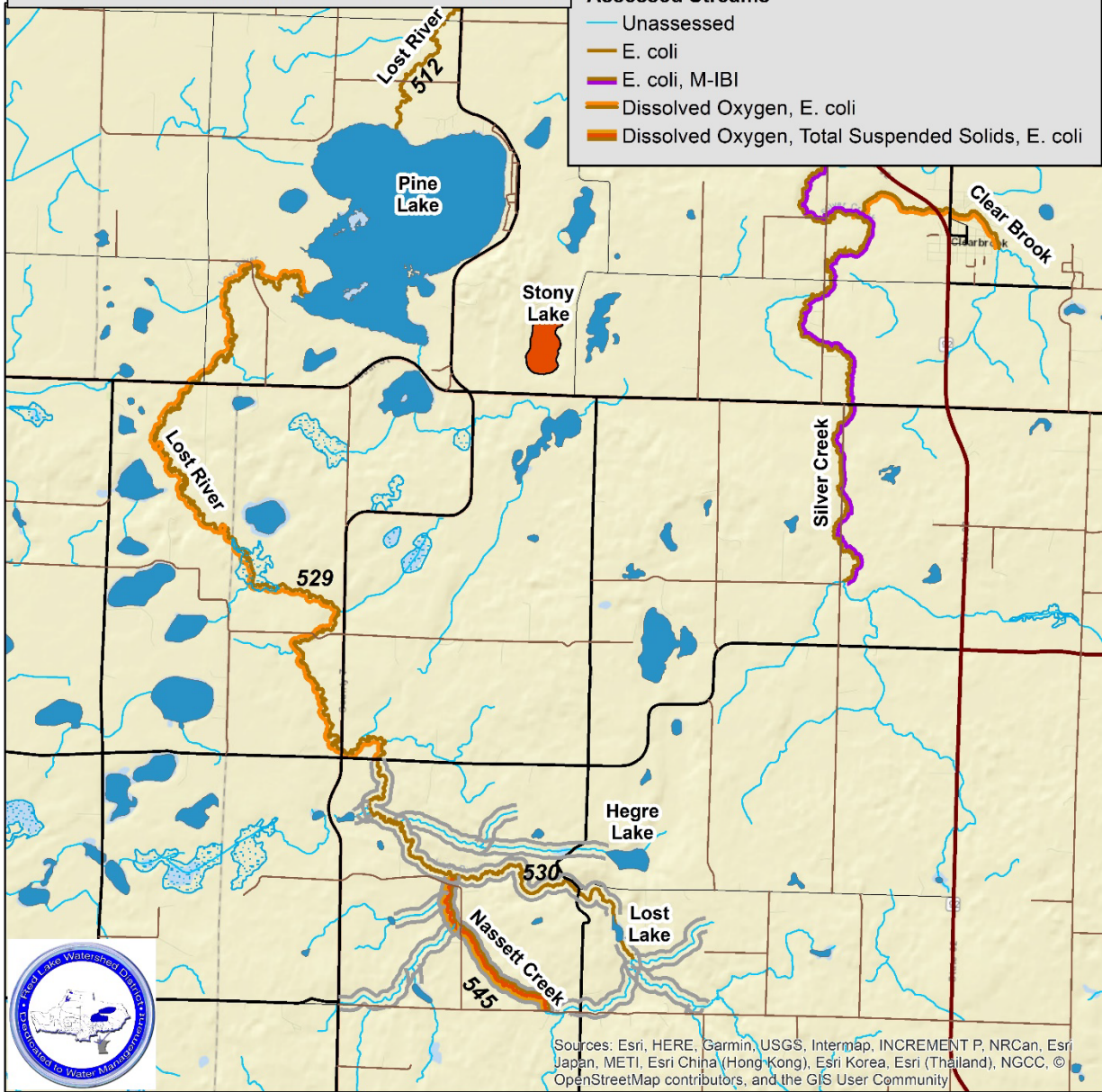
— Unassessed

— E. coli

— E. coli, M-IBI

— Dissolved Oxygen, E. coli

— Dissolved Oxygen, Total Suspended Solids, E. coli



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community





MPCA staff shared temperature data that they recorded with temperature loggers in the Lost River. MPCA staff also provided notes on this portion of the Lost River:

- The MPCA had collected two years of temperature data at the 14RD299 monitoring site (upstream of CSAH 18) and sampled the reach for fish twice (2014 and 2015). The reach had become stagnant and lacked sufficient habitat to collect a macroinvertebrate sample during either the 2014 or 2015 sample year. The average July and August water temperatures from the 14RD299 temp logger deployment were marginal for a coldwater use designation.
- In 2005, the MPCA collected a fish sample and temperature data just downstream from the CSAH 20 crossing. The 2005 logger deployment data included warmer water temperatures (often warm enough to be lethal to trout) than the downstream station deployment data.
- The DNR had indicated that this reach became designated as 2a water after trout were introduced in the late 1940's. However, the reach lacks suitable habitat and water quality for reproduction and survival of trout. The DNR also indicated that the change from a cold water to warm water use designation is not the result of degradation and instead is a correction to an incorrectly classified AUID.
- Based on the data the MPCA had collected, and conversations between MPCA and MNDNR staff, MPCA staff wrote the following summary as a proposal for changing the use class on the Lost River (09020305-530) from 2a to 2b: "The Lost River, from Unnamed Creek to the north line

of T148 R38W S20, as well as its tributaries designated as Class 2A, is proposed to be reclassified as Class 2B waters. The MDNR currently classifies the Lost River (from Unnamed Creek to the north line of T148 R38W S20 and all of its tributaries) as marginal trout (Class 1D) water. Stocking reports indicated that the reach was stocked with brook trout from 1947 to 1975. No documented evidence of natural reproduction could be found. No additional reports or information regarding the cessation of stocking could be located. The MNDNR no longer manages the Lost River for trout. The MPCA collected fish community data at two stations on the Lost River. The furthest upstream station, located just downstream of CSAH 20, was sampled in 2005. No coldwater fish species were collected. Temperature data collected at this location indicate thermal stress was recorded 40% of the time and the lethal threshold was exceeded 18% of the recorded time. The summer average temperature was 21.4 degrees. The downstream station, located just upstream of CSAH 18, was sampled in 2014 and 2015. No coldwater fish species were collected. Temperature data was collected from 2014 -2015. Thermal stress ranged from 33 – 37% of the recorded time and the lethal threshold was reached 0 –1% of the recorded time. The summer average temperature was 19.30 C in 2014 and 18.60 C in 2015. Considering this information, it is reasonable to remove the Class 1B, 2A, 3B classifications assigned to cold waters and replace them with uses assigned to cool/warm waters, Class 2B and 3C. The MPCA proposes to make this change in Minn. R. 7050.0470, subp. 4, item A, subitem 28 to acknowledge the cool/warm water characteristics of this stream.”

- Comments regarding the assessment of aquatic life based on the biological data: “One biological monitoring station was located on this 4.4-mile general use AUID of the Lost River. Two visits were made to station 14RD299 - one visit in 2014 and on in 2015. This AUID was previously designated as cold water but was changed to warm water based on biology, temperature data, and conversations about historical management practices with MNDNR. The 2014 visit northern headwaters FIBI score was well below the threshold (sample was collected early and late spring occurred that year). The 2015 visit FIBI score was 3 points above the threshold. Similar numbers of species were collected in both samples. Much higher numbers of lithophilic spawners were present in 2015 (along with northern redbelly dace a sensitive headwaters species). Recommend full support for aquatic life based on the fish community.”

Landowners were contacted to get access permission for monitoring of Lost lake. District staff scouted monitoring locations and began monitoring water levels, measuring flow, and sampling water quality in the Lost River, Lost Lake, and Pine Lake. District staff explored the area where branches of the Lost River flow into Lost Lake in order to create a monitoring strategy for the streams and the lake. Water quality conditions at the sampling sites in the Lost River and Lost Lake met water quality standards in May 2019. The total suspended solids concentration in the Lost River downstream of Lost Lake (141<sup>st</sup> Ave) was less than the lab’s minimum reporting limit (<1 mg/L).



Several small stream channels converge in Lost Lake. The larger two of those streams will be sampled (Lost River at 141<sup>st</sup> Ave and a tributary of the Lost River at 410<sup>th</sup> St).



Lost River near Lost Lake, as it flows into the lake from the southwest





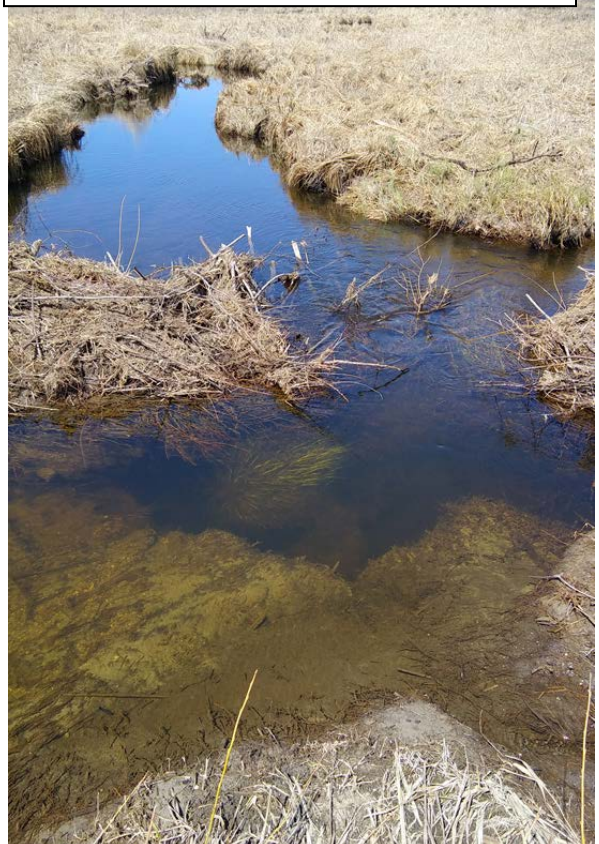
Water cascades over and around a series of beaver dams and remnants of dams as it flows toward Lost Lake from the southeast.



A small, clear stream flows between a wetland and Lost Lake.

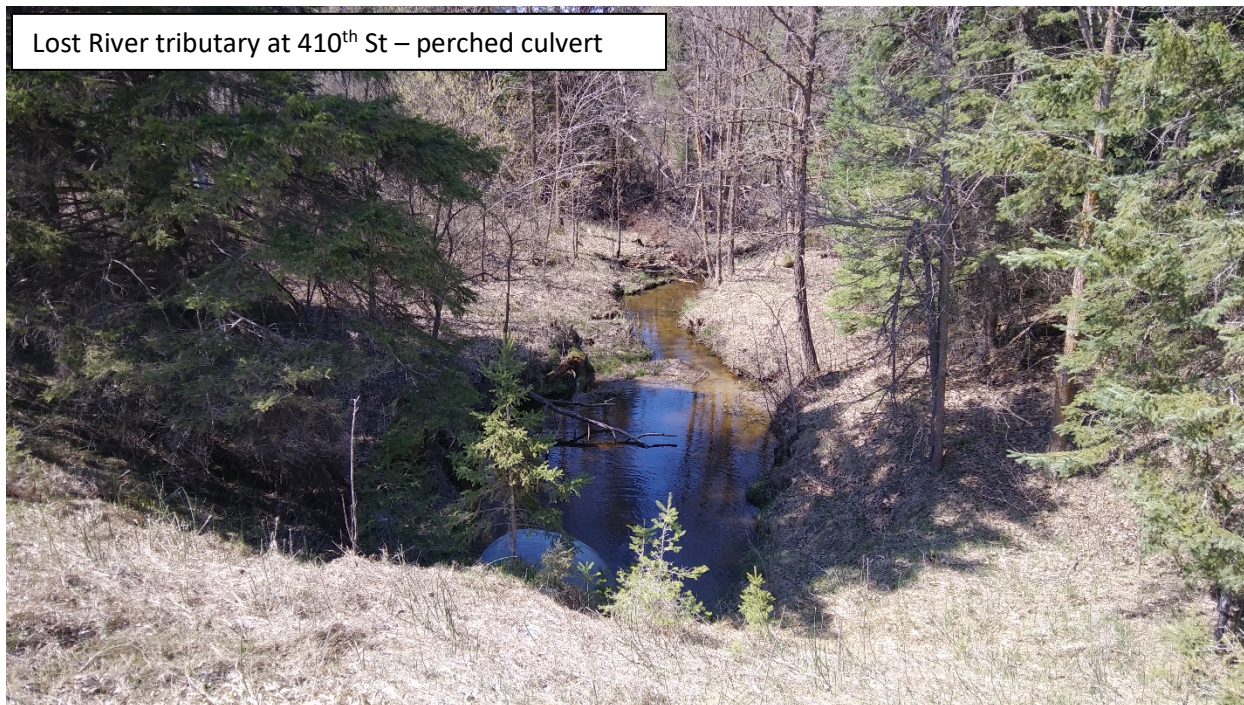


Beaver activity at the confluence of streams near the inlet to Lost Lake





Lost River tributary at 410<sup>th</sup> St – perched culvert



Pasture along Lost River tributary upstream of 410<sup>th</sup> St





View from the west side of Lost Lake, May 7, 2019.



View from the east side of Lost Lake on May 23, 2019 - water levels had dropped significantly





Lost River downstream of Lost Lake, at 141<sup>st</sup> Ave



Breach in the beaver dam at Lost Lake





Water flowing around a beaver dam and causing erosion, upstream of Lost Lake, near the inlet.



### **Stream Gauging**

A plan for 2019 deployments of water level loggers and dissolved oxygen loggers was prepared. Water level loggers were deployed at stage/flow monitoring sites throughout the District.

Discussions between the District and the MPCA identified a need for temporary flow measurement stations on ditches in the Thief River Watershed (Judicial Ditch 23 and the upper reaches of Marshall County Ditch 20 that had been sampled by the MPCA for aquatic biology (fish and macroinvertebrates). The flow monitoring will provide evidence of whether the channels have intermittent flow or if they flow throughout the year. If they are intermittent, the MPCA will be less likely to assess the ditches. It will back up the view of District staff that sampling of intermittent ditch systems for biology should not be a priority. Concerns have been raised by watershed district staff throughout the Red River Basin about whether biological impairments on artificial watercourses could affect the ability to perform ditch maintenance work.

District staff began conducting flow measurements at the District's stage/flow monitoring sites with the goal of getting at least one measurement at each site in 2019.



Upper reach of the CD 20 drainage system where the MPCA collected biological samples



Judicial Ditch Main where the MPCA collected biological samples near the intersection of 140<sup>th</sup> Ave NE and CSAH 2





**Other Notes**

- Water quality related notes from the May 9, 2019 Red Lake Watershed District Board of Managers meeting:
  - The Board viewed a drone video of flooded cabins along the shore of Pine Lake.
  - The Red Lake County River Watch students presented their project that they completed for the River Watch Forum, where they were awarded first place.
  - Staff member Corey Hanson updated the Board on the Water Restoration and Protection Strategy (WRAPS) Reports for the Thief River Watershed, Grand Marais Creek Watershed, Red Lake River Watershed, and Clearwater River Watershed, that are wrapping up this year. Hanson stated that WRAPS is a MPCA system for assessing water quality and creating restoration and plans. Hanson discussed the Total Maximum Daily Load (TMDL) Reports he wrote that address impairments and how to restore them. Discussion was held on the tasks that were completed for each WRAPS project, including Civic Engagement processes that were efforts to keep the public informed. Discussion was held on the water quality results found on the Lost River upstream of Pine Lake. Hanson will be collecting extra water quality data on the Lost Lake upstream of Pine Lake in 2019 to characterize pre-project water quality conditions in preparation for a potential FDR project in that area. Hanson noted that the Red Lake DNR took the lead role on the Upper and Lower Red Lake TMDL's; the MPCA is currently reviewing their draft TMDL report. Hanson discussed the public notice contract in the amount of \$7,500 with the MPCA for the Clearwater River Watershed Restoration and Protection Strategy Public Notice, RLWD Project No. 157E. Motion by Tiedemann, seconded by Ose, to approve the public notice contract with the MPCA for the Clearwater River Watershed Restoration and Protection Strategy Public Notice, RLWD Project No. 157E. Motion carried.
- Water quality related notes from the May 23, 2019 Red Lake Watershed District Board of Managers meeting:
  - District Manager, Nicole Berndt, and District Technician, Duane Steinbrink, West Polk Soil and Water Conservation District, presented a proposal for a cost share of a grade stabilization project in the Burnham Creek area. This is one of the first projects to be funded in part with the One Watershed One Plan monies. The cost estimate is \$77,364.00 with a request for cost share funding from the RLWD's Erosion Control Funds. Following discussion, a motion was made by Tiedemann, seconded by Dwight, and passed unanimously, to approve a cost share of \$15,000 from the RLWD Erosion Control Funds for the Burnham Creek grade stabilization project.
  - Due to the loss of a water level logger in a stream and the addition of 6 additional water testing sites in 2019, staff member Corey Hanson presented a proposal to purchase 5 -7 Water Level loggers. Following discussion on the equipment, motion by Ose, seconded by Dwight, to purchase 7 Onset HOB0 water level loggers at a quoted price of \$3,164. Motion carried.
- The Red Lake Department of Natural Resources has completed a draft version of the Upper/Lower Red Lakes Watershed Restoration and Protection Strategy.
- District staff helped new East Polk SWCD staff with their first round of stream monitoring.
- A water quality report for November-December 2018 was completed.



- District staff identified erosion problems within the immediate drainage area of Maple Lake in preparation for a Maple Lake Improvement District meeting.

Cultivated field near the edge of water along Maple Lake



- There are some significant, active erosion problems along the Black River, upstream of CSAH 18. One of the erosion problems may be a meander cut-off that could make upstream erosion problems worse if it is not addressed.







- Some of the District's Onset HOB0 water level loggers were shipped for battery replacements.
- The Clearwater Lake Area Association published a May 2019 Docksider newsletter. The newsletter featured summaries of the shoreline restoration projects that were funded by an Ecofootprint Grant. [https://minnesotawaters.org/clearwaterlakearea/wp-content/uploads/sites/25/2019/05/Docksider\\_May2019\\_for-Posting.pdf](https://minnesotawaters.org/clearwaterlakearea/wp-content/uploads/sites/25/2019/05/Docksider_May2019_for-Posting.pdf)



- A homeowner in northern Thief River Falls (near Dewey Avenue and the Farmers Co-Op Elevator) complained of foul-smelling discharge from the northern buildings of the co-op into a ditch in his backyard. District staff investigated the problem and contacted the MPCA. The city of Thief River Falls had also been contacted by the homeowner and had also contacted the MPCA about the issue.



Photos of polluted water  
draining to Chief's Coulee





- District staff worked with MPCA staff to schedule a July 10, 2019 Professional Judgement Group meeting to the water quality and biological assessment results for deferred streams (ditches that weren't assessed in 2013) in the Thief River Watershed. The MPCA has completed a preliminary assessment of 22 channelized streams and ditches. Seven of those reaches were not meeting biological standards and may be impaired by poor biological scores. A draft list of impaired waters needs to be completed by September.
- New Onset HOB0 water level loggers were also ordered.
- A landowner along the south shore of Upper Red Lake contacted the District to complain about excess filamentous algae, potential blue-green algae, and a foul rotten-egg smell along his lakeshore that may have been exacerbated by discharge from nearby wild rice paddies. The information from the landowner was passed along to Red Lake DNR staff. The landowner will contact the RLWD this summer if the problem occurs again.
- The Clearwater River documents and resources website was updated:  
<https://www.rlwdwatersheds.org/plan-documents>
- The MN DNR sampled fish in Grand Marais Creek on May 22, 2019. They captured Channel Catfish in all five locations where trap nets were set. In addition, 13 fish species (Northern Pike, Sauger, Walleye, Black Crappie, Freshwater Drum, Common Carp, Quillback...) were captured throughout the Restoration Project. It appears fish are utilizing the restoration project during spring flows.

#### **Meetings and Events from May 2019**

- **May 1, 2019** – Thief River One Watershed One Plan Planning Work Group conference call
- **May 2, 2019** – Marshall County Water Resources Advisory Committee
  - There was a lot of discussion about the Thief River 1W1P.
    - Some of the resistance to additional water storage for flood damage reduction comes from the view that there has been a lack of credit given to existing storage in the county.
  - The Marshall County SWCD has been busy with septic system replacements and new installations. Some of the septic system projects were funded by a \$23,476 grant.
  - The Marshall County SWCD sealed 27 wells last year.
  - SWCD staff helped with the area Envirothon contest that was held in late April.
  - Marshall County will likely receive Federal disaster funding for debris removal, culvert washouts, and other damage that occurred near the Red River of the North, especially near Oslo.
  - Kyle Arola is the new manager at the Thief Lake Wildlife Management Area, replacing Joel Huener.
  - The Lower Red River Watershed TMDL and WRAPS reports have been approved.
  - The Minnesota Board of Water and Soil Resources (BWSR) has overhauled its website.
  - Because impoundments in Agassiz NWR had been drawn down, there was more room for storage during spring runoff (35,000 acre-feet of total storage).
  - Agassiz National Wildlife Refuge Manager Craig Mowry will be leaving for a new job in Kansas in mid-July.
- **May 9, 2019** – Maple Lake Improvement District Meeting
  - District staff met with East Polk SWCD staff prior to the meeting to discuss potential projects

- Prairie Restorations has helped with shoreline restoration workshops.
- A map of erosion problems and locations where runoff could be treated with best management practices (BMPs) was discussed.
- Ways to publicize shoreline restorations, rain gardens, and other BMPs should be explored. The SWCD will produce a Lake Leader newsletter that is specifically targeted for Maple Lake residents.
- Example projects, especially in public areas, could increase interest in shoreline restoration and rain garden projects.
- The Maple Lake Improvement District's large annual meeting was scheduled for July 13, 2019 at the Mentor Community Center.
- The MLID members asked the SWCD staff if they could contact landowners where BMPs are needed to gauge interested in installing grade stabilization structures or other BMPs.
- **May 17, 2019 – Pine Lake Project Team Meeting**
  - District staff presented on current water quality conditions in the Pine Lake and Lost Lake area and proposed a 2019 monitoring plan to characterize water quality in the lakes and streams in that drainage area.
  - The trout stream designation was one barrier to moving forward with a project on Lost Lake. There was discussion about how the designation could be removed. There appeared to be an impasse between the local project team and the DNR and both sides were concerned about sunk costs. The project team and the RLWD have spent a lot of time and money trying to plan projects to address flooding. The DNR has sunk costs in the form of easements along the designated trout stream. There was also an issue with DNR staff choosing not to act on the reclassification of the stream due to personnel issues (impending retirement) rather than factual reasons.
  - Data shows that the Lost River is not close to supporting trout downstream of Lost Lake, however. The 2019 monitoring will evaluate the current conditions in the Lost River and its tributaries upstream of Lost Lake to see if there is a possibility of those streams supporting trout.
  - Other questions or points of debate posed during the meeting that may require additional research or study included:
    - How would the impoundment of water at Lost Lake affect water temperatures and dissolved oxygen levels?
    - Additional (raw) temperature data from the MPCA
    - What were the MN DNR fish sampling results for Pine Lake?

Red Lake Watershed District Monthly Water Quality Reports are available online:  
<http://www.redlakewatershed.org/monthwq.html>.

Learn more about the Red Lake Watershed District at [www.redlakewatershed.org](http://www.redlakewatershed.org).

Learn more about the watershed in which you live (Red Lake River, Thief River, Clearwater River, Grand Marais Creek, or Upper/Lower Red Lakes) at [www.rlwdwatersheds.org](http://www.rlwdwatersheds.org).

“Like” the Red Lake Watershed District on [Facebook](#) to stay up-to-date on RLWD reports and activities.