

**RED LAKE WATERSHED DISTRICT**  
**February 22, 2018**  
**Agenda**  
**9:00 a.m.**

9:00 a.m.	Call to Order	Action
	Review and approve agenda	Action
	Requests to appear	Information
	February 8, 2018 Minutes	Action
	Financial Report dated February 21, 2018	Action
	Investment Summary	Info./Action
	2005 Suburban Bids	Info./Action
	Thief River Falls West Side FDR Project No. 178-Update	Information
	Black River Impoundment, RLWD Project No. 176-Update	Information
	Judicial Ditch 72, RLWD Project No. 41-Update	Information
	River Watch Forum – College and Career Session	Information
	Permits: 18001-18006	Action
	MAWD 2018 Annual Dues	Info./Action
	March 2018 Board Meeting Dates	Info./Action
	Computer Update	Information
	Administrators Update	Information
	Legal Counsel Update	Information
	Managers’ updates	Information
	Adjourn	Action

UPCOMING MEETINGS

February 22, 2018	RLWD Board Meeting, 9:00 a.m.
March 7-8, 2018	MAWD Legislative Day at the Capitol
March 21-22, 2018	RRWMB March Conference-Moorhead

# DRAFT

RED LAKE WATERSHED DISTRICT  
Board of Manager's Minutes  
February 8, 2018

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, Terry Sorenson, Gene Tiedemann, Brian Dwight, Allan Page and LeRoy Ose. Absent: Les Torgerson. Staff Present: Myron Jesme and Tammy Audette and Legal Counsel Sparby.

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

Landowners Sheldon Monson and Karen Gebhardt, requested to appear before the Board.

The Board reviewed the January 25, 2018 minutes. Motion by Tiedemann, seconded by Dwight, to approve the January 25, 2018 Board meeting minutes as presented. Motion carried.

The Board reviewed the Financial Report dated February 7, 2018. Motion by Sorenson, seconded by Tiedemann, to approve the Financial Report dated February 7, 2018 as presented. Motion carried.

Manager Dwight stated as an Alternate to the Four-Legged Lake Project Work Team, RLWD Project No. 102A, he and Manager Sorenson-Delegate, along with Administrator Jesme met with Legal Counsel Sparby for discussion and review of Project Work Teams written responses to their failed effort to reach a consensus on water elevations for Four-Legged Lake. Dwight stated that the Four-Legged Lake Project Work members have been diligent and professional regarding coming to the terms of consensus for a proposed elevation for the adoption of a project for the Four-Legged Lake area. Dwight stated that the District could pursue the Four-Legged Lake Project by a unanimous vote of the Board, which would be followed by the appointment of an Engineer, which would address the issue of the outlet culvert. Dwight noted that there is strong interest to pursue an Environmental Assessment through the MnDNR, which could lead to help determining the target elevation of the project. Dwight noted that there are other factors such as Flood Damage Reduction, which the District is committed to help reduce flooding on the Red River of the North by 20%, and also the social aspect of the project. Discussion was held on moving forward, not necessarily with a target elevation, but to complete a Preliminary Engineers Report that would take into considerations the FDR and social aspect, which would move the Board forward to public hearing. Discussion was held on current expenditures on this project. Administrator Jesme stated that included in the packet were letters from the Project Work Team members as to why they could not come to a consensus on a target elevation. Motion by Sorenson, seconded by Page, to initiate a Flood Damage Reduction Project for the Four-Legged Lake Project, RLWD Project No. 102A. Motion carried by unanimous vote. Motion by Ose, seconded by Tiedemann, to appoint HDR Engineering, Inc. as the Engineer of the Four-Legged Lake Project, RLWD Project No. 102A, and direct them to prepare a Preliminary Engineers Report. Motion carried. The Board discussed the lowering of the outlet culvert on Judicial Ditch

5, RLWD Project No. 102. At the October 12, 2017 Board meeting, the Board authorized the lowering of the outlet culvert to an elevation of 1423.8, to allow for maintenance on the Judicial Ditch 5 system. Motion by Dwight, seconded by Sorenson, and passed by unanimous vote, to extend the timeline of the lowering of the outlet culvert on Judicial Ditch 5, RLWD Project 102 pending the outcome of the Preliminary Engineers Report for the Four-Legged Lake Project, RLWD Project No. 102A. Motion passed by at least a 2/3 vote. (It is a modification of a prior motion made at the October 12, 2017 meeting).

Clearwater County Commissioner Neal Illies appeared before the Board to discuss the decision by the Board at the October 12, 2017 meeting to lower the elevation of the outlet culvert on Judicial Ditch 5, RLWD Project No. 102. Mr. Illies discussed information in the letter he submitted to Legal Counsel Sparby on January 31, 2018. Illies stated that the Clearwater County Board did not give the Clearwater County Engineer the authority to object to the abandonment of Judicial Ditch 5, RLWD Project No. 102. Legal Counsel Sparby indicated that all letters received regarding this matter have been supplied to the Board, and in Sparby's opinion Clearwater County's objection in the last motion/resolution has been accepted. Illies questioned if the Board can abandon the system according to State Statute, further stating that the abandonment procedure is sitting in the way of the FDR project. Illies noted that the abandonment and the FDR are two separate issues. Discussion was held on the process of abandonment of a system, appointment of viewers, and costs incurred to the ditch system. Legal Counsel Sparby stated that now that the Board has initiated the Four-Legged Lake Project, RLWD Project No. 102A, it will allow for the Environmental Assessment and hearing process to move forward, which will allow the Board to hear from all parties involved, and the Board to make a decision based on sound water management. The Project Work Team is still active but will not be meeting monthly. Illies stated that the Clear Zone on Clearwater County Road #2 does not get flooded until the water elevation reaches 1429.

Landowners Sheldon Monson and Karen Gebhardt appeared before the Board to discuss the lowering of the outlet culvert on Judicial Ditch 5, RLWD Project No. 102. Monson and Gebhardt questioned how the District Board can table the Petition for Abandonment for Judicial Ditch, without acting on the petition. Gebhardt stated that neither the abandonment project or the flood damage reduction project should be reflected upon each other. Legal Counsel Sparby stated that he will confer with the Attorney Kurt Deter on the Board's position. Monson and Gebhardt both stated that they would like a written response from Sparby. Gebhardt commented that they are considered benefitted landowners, but what benefits are they receiving. Discussion was held on the cost of petition of abandonment, engineering costs, costs of damages and the abandonment of the system without a permit from the MnDNR. Gebhardt stated that the law does not say we need approval from the MnDNR to abandon the system.

Engineer Nate Dalager, HDR Engineering, Inc., updated the Board on the Thief River Falls West Side Flood Damage Reduction Project, RLWD Project No. 178. Dalager stated that this project is a multi-governmental project that would take the existing Pennington County Ditch 70 and divert it south of the City of Thief River Falls approximately 2-3 miles into an existing coulee that outlets to the Red Lake River. Dalager and Administrator Jesme have participated in various meetings with local governmental agencies to determine funding strategies. Several alternatives

for drainage on the west side of Thief River Falls have been reviewed. The area has a 5 square mile drainage area, with the agricultural area at a two-year design and urban area at a 10-year design. Discussion was held on a 100-year flood protection event. Landowners in the County Ditch 70 area would be responsible for paying for a 10-year ditch design due to private drainage benefits. The system would need to pay an outlet fee into the FDR Project. Landowners would need to submit a petition to the district for improvement of the system to a 10-year ditch design. A meeting with the landowners will be held soon. Attorney John Kolb, Rinke Noonan, is drafting a memo to the Board, on how this project could come together with all the entities involved. Jesme stated that he met with officials from the City of Thief River Falls regarding funding and recommends that the District apply for a Flood Hazard Mitigation Grant. Motion by Ose, seconded by Tiedemann, to apply for a Flood Hazard Mitigation Grant through the Minnesota Department of Natural Resources for the Thief River Falls West Side Flood Damage Reduction Project, RLWD Project No. 178. Motion carried. Discussion was held on the potential funding through the RRWMB. Jesme and Manager Ose will present the project to the RRWMB.

Administrator Jesme stated that the District agreed to assist the West Polk SWCD for the Red Lake River One Watershed One Plan Ditch Inventory Project, that would identify sites in need of side water inlet culverts within Polk County ditches. Pennington County SWCD received a Clean Water Fund Drainage Ditch Inventory Grant and were able to transfer the remaining funds to the West Polk SWCD. Jesme state that the grant in the amount of \$44,540.82 requires a 25% match. Jesme indicated that under the Red Lake River One Watershed One Plan concept, this project would identify sites for erosion control/sediment reduction projects, that could be funded under the District's Erosion Control Funds, RLWD Project No. 164. Motion by Dwight, seconded by Ose, to approve the 25% match for the Red Lake River One Watershed One Plan Ditch Inventory Project, not to exceed \$12,500, and to be used from the West Polk SWCD 2018 Erosion Control Funds, RLWD Project No. 164. Motion carried.

Administrator Jesme stated that in 2014 that Board authorized the staff to proceed with the necessary steps to abandon Clearwater County Ditch 1, RLWD Project No. 103. Due to staffing changes, steps were not taken to move forward with the abandonment. District staff has been working on the determining the benefitted area and will bring back further information to the Board soon.

Staff member Loren Sanderson presented a draft letter to the Tribal Council of the Red Lake Band of Chippewa Indians to consider extending the current Special Land Permit for the operation of the Good Lake Impoundment, RLWD Project No. 67. Sanderson stated that the District spends approximately \$15,000 to \$20,000 per year on maintenance for the Good Lake Project. Discussion was held on local drainage to the area prior to the construction of the project and the Operating Plan that is currently set in place. It was the consensus of the Board to submit the letter to the Tribal Council with the recommended revisions.

Administrator Jesme stated that he previously had participated in a Governmental Round Table for the development of the One Watershed One Plan process. Meetings were held several times a year in the St. Cloud/St. Paul area. Jesme inquired if the Board wishes for him to continue his

participation. Motion by Tiedemann, seconded by Dwight, to approve the participation of Administrator Jesme on the Governmental Round Table for the One Watershed One Plan concept. Motion carried.

The Board reviewed correspondence from BWSR regarding Determination of Adequacy for Pennington County.

The Board reviewed a letter from the City of Thief River Falls regarding the development of a pilot project to explore a flexible permitting requirement for the Thief River Falls municipal wastewater treatment system. Administrator Jesme stated that the wastewater treatment system releases high phosphates into the Red Lake River, but when they look at the upstream and downstream water numbers it has no effect on the water quality. Jesme stated that the MPCA can require that the city improve the phosphate limits. The City is proposing a potential project within the Red Lake River subwatershed, to implement with the District, to find a project that will provide “more bang for the buck”, rather than buy low-value/high-cost upgrades to the waste water treatment system. Administrator Jesme stated that the District could complete a PTMapp study that would determine locations to reduce sediment loads within the subwatershed. It was the consensus of the Board to gather more information and report back to the Board.

Discussion was held on changing the March 2018 Board meeting dates due to a conflict with the MAWD Legislative Day at the Capitol and the RRWMB March Conference. It was the consensus of the Board to address the March meeting dates at the February 22, 2018 Board meeting.

#### Administrators Update:

- Jesme and Manager Ose will attend the RRWMB meeting in Ada on February 20, 2018.
- Jesme participated in a Thief River 1W1P telephone conference to discuss information gathered at the public informational meetings to be presented to the Policy Committee meeting on February 14<sup>th</sup> at the District office.
- In Jesme’s absence, Staff member Corey Hanson attended a Red Lake River 1W1P Planning Committee meeting at the Pennington County SWCD office. The meeting was held to gather information on projects and budget for forthcoming funding. This information will be presented to the Red Lake River Policy Committee on February 21<sup>st</sup> at the District office.
- Staff member Ashley Hitt and Christina Slowinski participated in the Red River Basin River Watch Forum on February 7<sup>th</sup> in Grand Forks.
- Jesme attended the RRWMB Administrators meeting in Fertile on January 31<sup>st</sup>. Agenda items included the RRWMB reorganization update, 2018 Legislative agenda, MAWD Resolutions, FDR funding and general discussion and district updates.
- Staff members Sanderson, Stanley and Slowinski along with Manager Page will attend the Drainage Conference in St. Cloud on February 14<sup>th</sup>.

Administrator Jesme stated that he recently completed a six-month employee evaluation for staff member Brady Stanley, recommending an increase of \$1.00 per hour pay raise, retroactive to

Red Lake Watershed District

February 8, 2018

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January 31, 2018. Motion by Ose, seconded by Dwight, to approve the \$1.00/hour raise for Brady Stanley effective January 31, 2018. Motion carried.

Staff member Loren Sanderson stated that the yearly impoundment meeting for the Moose River Impoundment with Thief Lake WMA and Agassiz NWR will take place February 21<sup>st</sup> at 9:30 a.m. at the Thief Lake WMA headquarters. The yearly Parnell Impoundment/JD 60 meeting will take place on February 28<sup>th</sup> at 10:00 a.m. at the District office.

Staff member Loren Sanderson that the Sportsman Club notified that aeration on Pine Lake will begin next week due to low oxygen levels. The District is the permit holder for the aeration permit, with the Sportsman Club responsible for notification, signage and operation.

Administrator Jesme stated that there will be Judicial Ditch 72, RLWD Project No. 41 and three ditches located within Polk County, landowner meeting on February 27<sup>th</sup> at 2:00 p.m. at the Gully Community Center to discuss the possible consolidation/redetermination of benefits for the various systems.

Manager Tiedemann stated that as a MAWD Board member, he was appointed to the 1W1P Local Governmental Unit Roundtable committee.

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

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LeRoy Ose, Secretary

**RED LAKE WATERSHED DISTRICT**  
**Financial Report for February 21, 2018**

<b>Ck#</b>	<b>Check Issued to:</b>	<b>Description</b>	<b>Amount</b>
online	EFTPS	Withholding for FICA, Medicare, and Federal taxes	\$ 3,865.85
online	MN Department of Revenue	Withholding taxes	722.96
online	Public Employees Retirement Assn.	PERA	2,627.25
online	EFTPS	Withholding for FICA, Medicare, and Federal taxes	210.66
online	MN Department of Revenue	Withholding taxes	50.00
online	MN Department of Revenue	Withholding taxes	4.68
36640	Christina Slowinski	Mileage reimbursement-River Watch forum	31.61
36641	Elroy Aune	Mileage for TR1W1P	50.14
36642	Brady, Martz & Assoc.	Progress payment for 2017 audit	6,000.00
36643	Cenex Credit Card	Gas for vehicle	54.00
36644	Delta Dental	Dental insurance premium	437.45
36645	Mike Drangsveit	Mileage for TR1W1P	21.80
36646	Garden Valley Telephone	Telephone maintenance	112.75
36647	HDR, Inc.	*See below for explanation of engineering fees	83,285.51
36648	Houston Engineering Inc.	Black River Impoundment engineering fees	53,454.25
36649	Curtis Hunt	Mileage for TR1W1P	111.18
36650	MCI	Long distance telephone expense	54.12
36651	Bill Neuschwander	Mileage for TR1W1P	47.96
36652	Northwest Beverage	H2O for office	29.50
36653	Purchase Power	Postage for postage meter	301.50
36654	Quill Corporation	Dymo shipping labels and file folder labels	53.07
36655	Darrold Rodahl	Mileage for TR1W1P	16.35
36656	SelectAccount	Flex Spending account fees	17.70
36657	Christina Slowinski	Per diem meals and parking garage fees	50.51
36658	Lowell Smeby	Mileage for TR1W1P	47.96
direct	SelectAccount	DC FSA	38.50
direct	Brian Dwight	Mileage	494.96
direct	Terry Sorenson	Mileage	147.17
online	Cardmember Services	**See below	2,172.06
online	Aflac	Staff paid insurances	465.74
	<b>Payroll</b>		
	Check #11335 -11346		13,477.53
	<b>Total Checks</b>		<b>\$ 168,454.72</b>

**\*HDR Engineering, Inc.**

Proj. 26 Site F Pine Lake	2,970.28
Proj. 26 Pine Lake	55,508.73
Proj. 178 #59 & #1 Drainage	22,407.00
Proj. 102A Four Legged Lake	<u>2,399.50</u>
<b>TOTAL</b>	<b>83,285.51</b>

**\*\*Cardmember Services**

AT&T-cellular phone expense	265.09
Grain Bin-meals for Open House, Gry	453.75
DLT Solutions-Annual subsc. AutoCA	1,013.08
MN Lakes-Reg. for Ashley AIS summ	169.00
Eagle Square,RLF-Gas for Traverse	47.20
Amazon-(2) 24" computer monitors	<u>223.94</u>
<b>TOTAL</b>	<b>2,172.06</b>

**Northern State Bank**

Balance as of February 7, 2018	1,189,912.98
Total Checks Written	\$ (168,454.72)
Receipt #016509 Marshall County-Delinquent special revenue	368.69
Receipt #016510 Red Lake County-2nd half of riparian aid payment	4,398.00
Receipt #016511 CDARS-Additional interest earned on matured CD	36.27
Receipt #016512 Red Lake County-Delinquent taxes	<u>347.63</u>
Balance as of February 21, 2018	<u>\$ 1,026,608.85</u>

**Border State Bank**

Balance as of December 31, 2017	\$ 10,594.69
Receipt #016508 Monthly interest	<u>2.25</u>
Balance as of January 31, 2018	<u>\$ 10,596.94</u>



# Red Lake Watershed District

as of February 21, 2018

<u>Name of Institution</u>	<u>Purchase</u>	<u>Int. Rate</u>	<u>Mat. Date</u>	<u>*Maturity Amount</u>
10010 Northern State Bank (checking)	\$ 1,026,608.85	0.40%		\$ 1,026,608.85
10200 Border State Bank (Investor savings) Thief River Falls	\$ 10,596.94	0.25%		\$ 10,596.94
10580 American State Bank, Grygla (1058) #15486 12 month CD(int. pd quarterly)	\$ 200,000.00	0.75%	3/4/2018	\$ 200,375.00
10850 CDARS-Amarillo National Bank-TX Interest direct deposited monthly	\$ 97,000.00	1.15%	3/15/2018	\$ 97,000.00
10850 CDARS-Bank Hapoalim B.M.-NY Interest direct deposited monthly	\$ 143,000.00	1.15%	3/15/2018	\$ 143,000.00
10840 Edward Jones (Ally Bank) 30 mos. CD	\$ 200,000.00	1.45%	3/30/2018	\$ 207,250.00
CDARS-Bank of America, Charlotte, NC monthly interest payment via ACH	\$ 200,000.00	1.25%	7/5/2018	\$ 200,000.00
10240 CDARS-TriState Capital Bank-Pittsburgh 12 mos. CD, int. paid monthly	\$ 200,000.00	1.40%	8/9/2018	\$ 200,000.00
10550 Citizens State Bank, Roseau #59137 18 mos.(int.pd semi-annually)	\$ 200,000.00	1.05%	9/3/2018	\$ 201,090.96
10760 Ultima Bank Minnesota-Fosston (1076) #16623 12 month CD	\$ 200,000.00	1.00%	10/2/2018	\$ 202,000.00
10770 CDARS-Bank of China, NY Interest direct deposited monthly	\$ 243,500.00	1.50%	10/18/2018	\$ 243,500.00
10770 CDARS-Great Plains National Bank Interest direct deposited monthly	\$ 113,000.00	1.50%	10/18/2018	\$ 113,000.00
10770 CDARS-MainStreet Bank Interest direct deposited monthly	\$ 243,500.00	1.50%	10/18/2018	\$ 243,500.00
10830 Edward Jones-Morgan Stanley Interest paid at maturity	\$ 200,000.00	1.50%	10/30/2018	\$ 203,000.00
10650 First National Bank-Bemidji-12 mos. CD #94230 Qtrly interest-direct deposit(1065)	\$ 200,000.00	1.05%	12/12/2018	\$ 202,100.00
10660 CDARS-Amarillo National Bank, TX 12 mos. CD, int. paid monthly	\$ 146,500.00	1.50%	1/17/2019	\$ 146,500.00
10660 CDARS-Conway, AR 12 mos. CD, int. paid monthly	<u>\$ 53,500.00</u>	1.50%	1/17/2019	<u>\$ 53,500.00</u>
	<u>\$ 3,677,205.79</u>			<u>\$ 3,693,021.75</u>

2018 River Watch Forum T-shirt Design Contest

Thank you for submitting over 15 t-shirt designs!

The winning design, pictured below, was created by Ciarria Hulst of Valley-Edinburg High School.



**River Watch Forum Sponsors**  
~ THANK YOU ~

**Gold Level**

The Nature Conservancy  
Moore Engineering

**Silver Level**

Greater Grand Fork Convention and Visitors Bureau  
American Crystal Sugar Company  
Houston Engineering, Inc.

**Bronze Level**

Minnesota Pollution Control Agency ~ Detroit Lakes  
Buffalo-Red River Watershed District  
North Dakota Department of Health  
Sand Hill River Watershed District  
Vogel Law Firm

**Other**

Bois de Sioux Watershed District  
Wideth Smith Nolting  
HDR Engineering  
Paul Swenson  
Jay Leitch



**23<sup>rd</sup> Annual River Watch Forum**

**Theme: *River Watch in Action!***

**February 7, 2018**

**Alerus Center-Grand Forks, ND**



A special thanks to the Greater Grand Forks Convention and Visitors Bureau!



River Watch funding provided by:



**Red River Watershed  
Management Board**



**United States  
Department of  
Agriculture**



**North Dakota  
State Water  
Commission**

Welcome to the 2018 River Watch Forum! We are excited to host such a large event with students from Minnesota, North Dakota, and Manitoba. 2017 was full of sampling, kayak trips, map-making, macros, and service projects; we appreciate all the hard work you put into River Watch! Running around the Red River Basin to further our watershed education mission is a dream come true for us. Hope you enjoy the day!

-Danni, Laura, Asher, Andy, Ashley and Danielle

## Social Media Contest: #riverwatch18

Share your favorite photo from today's Forum or any of this school year's River Watch activities on Facebook or Instagram with #riverwatch18 for a chance to win a prize!

## 2018 River Watch Forum Agenda

- 8:30 Doors Open: Registration & Breakfast
- 9:30 Welcome & Opening Remarks  
    ~~~ Keynote Address ~~~
- 9:45 Brad Durick: *Career Catfishing*  
    Fishing Guide, Author, and Owner of Brad Durick Outdoors LLC
- 10:20 What's Your Watershed IQ?
- 10:35 Announcements and Door Prizes
- 10:45 Group Rotations (30 minutes each)
  - Steve Stark: Illustrated History
  - College and Career Fair
  - Q&A w/River Watch Staff
  - Hands-on: What's in the bucket? & Virtual Sand Table
- 12:45 River Watch Pictures
- 1:00 Lunch (Buffet)-Stay seated at tables
- 1:30 2018-19 Announcements
- 1:40 Highlights of Service Learning Projects
- 2:00 Awards and Recognition of Service
- 2:15 Adjourn

Captain Brad Durick is a nationally recognized catfish guide on the Red River, seminar speaker, and author of two catfish books. Durick grew up on a farm in Western North Dakota, moving to Grand Forks to attend UND where he received a degree in marketing in 1997. He spent time in the television industry before making the jump to full time fishing. Captain Brad finds success in fishing by not only helping guests catch trophy catfish but also by passing on his knowledge of catfish and the Red River of the North.



The story behind how Steve Stark came to illustrate tales from history is a long timeline full of events and a lot of history books. After doing a successful appearance at a conference as Teddy Roosevelt in the late '80s, he began traveling the country doing T.R. impersonations, even finding himself on The History Channel as the former president. Following that, a mix of working with teachers in Fargo Public Schools, drawing out Bible stories for his Sunday School students, teaching kids about voting through a non-profit, starting an outreach program at Bonanzaville and much more lead him to his Illustrated History presentations: drawing out historical stories with black chalk on a long, blank sheet of paper to go along with his stories of the past.

By Erica Rapp | Photo by J. Alan Paul Photography

## Notes

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Permit # 18-001

Status Report: **Tabled**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Todd and Debra Stanley		72552 Hwy 89 NW Grygla, MN 56727		tel: mobile: 218-689-1399 fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Marshall Township: Espelle Range: 39 Section: 10 1/4: N1/2**

(4) Describe in detail the work to be performed. **Install culvert in two locations in County Ditch 32.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Field entrances are too far apart.**

**Status**

Status	Notes	Date
<b>Tabled</b>	<b>I recommend this permit be "tabled" until after the 2018 Spring melt. This will allow for adequate time to observe runoff conditions, water elevations, flow patterns and to determine existing culvert sizes.</b>	<b>Feb. 22, 2018</b>
Received	None	Jan. 17, 2018

**Conditions**

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 # 18-002

Status Report: **Tabled**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Todd Stanley		72552 Hwy 89 NW Grygla, MN 56727		tel: mobile: 218-689-1399 fax:

### General Information

(1) The proposed project is a:

**Tiling**

(2) Legal Description

(3) County: **Beltrami** Township: **Lee** Range: **38** Section: **3 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. **Drainage.**

### Status

Status	Notes	Date
<b>Tabled</b>	<b>I recommend this permit be "tabled" until after the 2018 Spring melt. This will allow for adequate time to observe runoff conditions, water elevations, flow patterns and to determine existing culvert sizes.</b>	<b>Feb. 22, 2018</b>
<b>Received</b>	<b>None</b>	<b>Jan. 17, 2018</b>

### Conditions

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 # 18-003

Status Report: **Tabled**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
	Greater Minnesota Transmission, LLC	202 South Main Street Le Sueur, MN 56058		tel:1-888-931-3411 mobile: fax:

**General Information**

(1) The proposed project is a:

**Utility Installations**

(2) Legal Description

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

(4) Describe in detail the work to be performed. **Install natural gas line**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Provide natural gas to the City of Fisher**

**Status**

Status	Notes	Date
<b>Tabled</b>	<b>I recommend this permit be "tabled" until after the 2018 Spring melt. This will allow for adequate time to observe runoff conditions, water elevations, flow patterns and to determine existing culvert sizes.</b>	<b>Feb. 22, 2018</b>
<b>Received</b>	<b>None</b>	<b>Jan. 26, 2018</b>

**Conditions**

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 # 18-004

Status Report: **Tabled**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Jamie Wyane Hegland		30375 160th Avenue NE Middle River, MN 56737		tel: mobile: 218-689-1606 fax:

**General Information**

- (1) The proposed project is a:  
**Culvert Installation / Removal / Modification**
- (2) Legal Description
- (3) County: **Marshall Township: Holt Range: 43 Section: 23 1/4: SE1/4**
- (4) Describe in detail the work to be performed. **Install crossing**
- (5) Why is this work necessary? Explain water related issue/problem being solved. **New crossing for field access.**

**Status**

Status	Notes	Date
<b>Tabled</b>	<b>I recommend this permit be "tabled" until after the 2018 Spring melt. This will allow for adequate time to observe runoff conditions, water elevations, flow patterns and to determine existing culvert sizes.</b>	<b>Feb. 22, 2018</b>
<b>Received</b>	<b>None</b>	<b>Feb. 1, 2018</b>

**Conditions**

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 # 18-005

Status Report: **Tabled**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Marc Hanson	Hanson Construction	20988 Willchard Drive, PO Box 40 Thief River Falls, MN 56701		tel:218-681-7064 mobile: fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Marshall** Township: **Excel** Range: **43** Section: **9 1/4**: **NW1/4**

(4) Describe in detail the work to be performed. **Install culvert and driveway for access to property.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **New home construction.**

**Status**

Status	Notes	Date
<b>Tabled</b>	<b>I recommend this permit be "tabled" until after the 2018 Spring melt. This will allow for adequate time to observe runoff conditions, water elevations, flow patterns and to determine existing culvert sizes.</b>	<b>Feb. 22, 2018</b>
<b>Received</b>	<b>None</b>	<b>Feb. 12, 2018</b>

**Conditions**

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 # 18-006

Status Report: **Tabled**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Allan Merrill	Rogenes & Rye Farms	16869 14th Street NE Buxton, ND 58218		tel:218-791-8216 mobile: fax:

**General Information**

(1) The proposed project is a:

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

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Polk** Township: **Vineland** Range: **48** Section: **2 1/4: NW1/4**

(4) Describe in detail the work to be performed. **Remove 24" culvert and crossing and move to the east. Excavate ditch with a 4:1 slope.**

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

**Status**

Status	Notes	Date
<b>Tabled</b>	<b>I recommend this permit be "tabled" until after the 2018 Spring melt. This will allow for adequate time to observe runoff conditions, water elevations, flow patterns and to determine existing culvert sizes.</b>	<b>Feb. 22, 2018</b>
<b>Received</b>	<b>None</b>	<b>Feb. 16, 2018</b>

**Conditions**

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.



Minnesota Association of Watershed Districts  
www.mnwatershed.org | mnwatershed@gmail.com

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## Memo

DATE: February 14, 2018  
TO: Watershed District Administrators  
FROM: Emily Javens, Executive Director  
CC: MAWD President Ruth Schaefer and Co-Treasurers Craig Leiser and Sherry Davis White  
MAWD Accountant Angie Fischer Obremski

### RE: 2018 ANNUAL DUES STATEMENT

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Please find attached the 2018 MAWD Dues Worksheet that shows the amounts payable to MAWD for dues by each watershed district. The current dues payment is equal to 0.5% of each watershed district's maximum general levy (before the levy limit), not to exceed \$7,500. (Note: more information from the MN Board of Water and Soil Resources on levy limits and the taxable market values used in the formula is attached.) The amount owed this year is likely higher than last year because the MAWD membership voted in June 2017 to revise the formula used to calculate dues as shown below. That decision was made after the strategic plan committee outlined investments that could be made to move the organization forward and provide more value to members. The membership agreed with the vision set forth in the strategic plan and agreed to an increased budget (and thus increased dues) to move the plan forward.

2017 Dues = 2016 Taxable Market Value x 0.00048 x 0.003, not to exceed \$4,000

2018 Dues = 2017 Taxable Market Value x 0.00048 x 0.005, not to exceed \$7,500

Please remit payment by March 31, 2018 to the MAWD Accountant:

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

Please contact me if you have any questions at [exec.mawd@gmail.com](mailto:exec.mawd@gmail.com) or (612) 790-0700.

Attachments: 2018 MAWD Dues Worksheet  
BWSR Memo dated July 24, 2017 re: 2017 Taxable Market Values

***Thank you for your support!***

## 2018 MAWD Dues Worksheet

SOURCE: 2017 ABSTRACT OF TAX LISTS

ID	Watershed District Name	Dues Calculation			PAY THIS AMOUNT
		Taxes Payable 2017 Total Market Value	(TMV x .00048) Max Levy	Max Levy x 0.005	OPTION 4B (\$7,500 Max)
1	BEAR VALLEY WATERSHED	204,835,600	98,321	492	492
3	BELLE CREEK WATERSHED	372,693,900	178,893	894	894
031	BOIS DE SIOUX WATERSHED	4,417,182,957	2,120,248	10,601	7,500
069	BROWNS CREEK WATERSHED	1,667,661,300	800,477	4,002	4,002
005	BUFFALO CREEK WATERSHED	2,366,738,424	1,136,034	5,680	5,680
007	BUFFALO-RED RIVER WTRSHED	8,155,348,431	3,914,567	19,573	7,500
070	CAPITOL REGION WATERSHED	18,562,547,900	8,910,023	44,550	7,500
010	CARNELIAN-MARINE WTRSHED	1,463,953,500	702,698	3,513	3,513
2	CEDAR RIVER WATERSHED	2,735,882,721	1,313,224	6,566	6,566
009	CLEARWATER RIVER WTRSHED	1,361,530,363	653,535	3,268	3,268
071	COMFORT LAKE WATERSHED	1,747,607,400	838,852	4,194	4,194
013	COON CREEK WATERSHED DIST	12,869,336,322	6,177,281	30,886	7,500
015	CORMORANT WATERSHED	500,638,300	240,306	1,202	1,202
016	CROOKED CREEK WATERSHED	303,727,200	145,789	729	729
024	HERON LAKE WATERSHED DIST	2,499,704,000	1,199,858	5,999	5,999
018	HIGH ISLAND WATERSHED	1,189,648,710	571,031	2,855	2,855
020	JOE RIVER WATERSHED DIST	221,507,600	106,324	532	532
021	KANARANZI-LITTLE ROCK WS	1,610,311,662	772,950	3,865	3,865
022	LAC QUI PARLE-YELLOW BANK	3,013,434,386	1,446,449	7,232	7,232
060	LOWER MN RIVER WATERSHED	8,822,479,132	4,234,790	21,174	7,500
074	MIDDLE FORK-CROW RIVER WS	1,642,817,176	788,552	3,943	3,943
026	MIDDLE SNAKE TAMARAK RVR WS	2,809,424,417	1,348,524	6,743	6,743
062	MINNEHAHA CREEK WATERSHED	46,746,219,381	22,438,185	112,191	7,500
058	NINE MILE CREEK WATERSHED	18,305,748,173	8,786,759	43,934	7,500
008	NO FORK-CROW RIVER WTRSHD	1,273,694,627	611,373	3,057	3,057
028	OKABENA-OCHEDA WATERSHED	858,803,015	412,225	2,061	2,061
030	PELICAN WATERSHED	1,794,831,300	861,519	4,308	4,308
032	PRIOR LAKE-SPRING LAKE WS	3,500,418,700	1,680,201	8,401	7,500
034	RAMSEY-WASHINGTON METRO	13,622,445,200	6,538,774	32,694	7,500
036	RED LAKE WATERSHED DIST	7,637,941,107	3,666,212	18,331	7,500
038	RICE CREEK WATERSHED DIST	18,927,243,956	9,085,077	45,425	7,500
064	RILEY-PURGATORY WATERSHED	13,121,425,602	6,298,284	31,491	7,500
040	ROSEAU RIVER WATERSHED	686,474,371	329,508	1,648	1,648
042	SANDHILL WATERSHED DIST	1,056,924,901	507,324	2,537	2,537
043	SAUK RIVER WATERSHED	7,429,419,459	3,566,121	17,831	7,500
073	SHELL ROCK WATERSHED	1,912,159,100	917,836	4,589	4,589
014	SOUTH WASHINGTON WATERSHD	10,325,918,200	4,956,441	24,782	7,500
44	STOCKTON-ROLLINGSTONE WS	453,763,100	217,806	1,089	1,089
048	TURTLE CREEK WATERSHED	1,095,245,200	525,718	2,629	2,629
050	TWO RIVERS WATERSHED DIST	1,404,145,081	673,990	3,370	3,370
052	UPPER MN RIVER WATERSHED	1,356,720,789	651,226	3,256	3,256
054	VALLEY BRANCH WATERSHED	4,120,962,700	1,978,062	9,890	7,500
	WARROAD WATERSHED DIST	307,130,000	147,422	737	737
066	WILD RICE WATERSHED DIST	3,529,382,915	1,694,104	8,471	7,500
068	YELLOW MEDICINE RIVER	2,781,109,236	1,334,932	6,675	6,675
	Totals	240,787,137,514	115,577,826	577,889	217,663

### Notes:

2017 Taxable Market Value (TMV) Source: BWSR Memorandum, July 24, 2017  
Option 4B per Membership Approval, Maximum Levy (TMV x 0.00048) x 0.005 capped at \$7,500

Thank you for your support!



## Memo

**Date:** July 24, 2017

**To:** Watershed District Administrators and Managers

**From:** Annie Felix-Gerth, Water Programs Coordinator

**Cc:** Ray Bohn, MAWD

Ron Harnack, RRWMB

**BWSR:** John Jaschke, Angie Becker Kudelka, Doug Thomas, Dave Weirens, Bill Eisele, Regional Managers and Board Conservationists

### **RE: 2017 Taxable Market Values**

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Please find attached a table containing the recently released total real and personal taxable market values (TMV) for 2017 from the Minnesota Department of Revenue. The 2017 abstract of tax lists was used as the basis for calculating the table.

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

Please contact me if you have any questions,

Annie Felix-Gerth

[Annie.Felix-gerth@state.mn.us](mailto:Annie.Felix-gerth@state.mn.us) | 651-238-0677

Attachment: Taxes Payable 2017 Taxable Market Values For Watersheds in Minnesota

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**TAXES PAYABLE 2017 TAXABLE MARKET VALUES  
FOR WATERSHEDS IN MINNESOTA**

*SOURCE: 2017 Abstract of Tax Lists, MN Dept. of Revenue*

<b>WATERSHED CODE</b>	<b>WATERSHED NAME</b>	<b>TOTAL TMV</b>
001	BEAR VALLEY WATERSHED	204,835,600
002	CEDAR RIVER WATERSHED	2,735,882,721
003	BELLE CREEK WATERSHED	372,693,900
005	BUFFALO CREEK WATERSHED	2,366,738,424
007	BUFFALO-RED RIVER WTRSHED	8,155,348,431
008	NO FORK-CROW RIVER WTRSHD	1,273,694,627
009	CLEARWATER RIVER WTRSHED	1,361,530,363
010	CARNELIAN-MARINE WTRSHED	1,463,953,500
013	COON CREEK WATERSHED DIST	12,869,336,322
014	SOUTH WASHINGTON WATERSHD	10,325,918,200
015	CORMORANT WATERSHED	500,638,300
016	CROOKED CREEK WATERSHED	303,727,200
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038	RICE CREEK WATERSHED DIST	18,927,243,956
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043	SAUK RIVER WATERSHED	7,429,419,459
044	STOCKTON-ROLLINGSTONE WS	453,763,100
048	TURTLE CREEK WATERSHED	1,095,245,200
050	TWO RIVERS WATERSHED DIST	1,404,145,081
052	UPPER MN RIVER WATERSHED	1,356,720,789
054	VALLEY BRANCH WATERSHED	4,120,962,700
056	WARROAD WATERSHED DIST	307,130,000
058	NINE MILE CREEK WATERSHED	18,305,748,173
060	LOWER MN RIVER WATERSHED	8,822,479,132
062	MINNEHAHA CREEK WATERSHED	46,746,219,381
064	RILEY-PURGATORY WATERSHED	13,121,425,602
066	WILD RICE WATERSHED DIST	3,529,382,915
068	YELLOW MEDICINE RIVER	2,781,109,236
069	BROWNS CREEK WATERSHD DST	1,667,661,300
070	CAPITOL REGION WATERSHED	18,562,547,900
071	COMFORT LAKE WATERSHED	1,747,607,400
073	SHELL ROCK WATERSHED	1,912,159,100
074	MIDDLE FORK-CROW RIVER WS	1,647,564,652

## RLWD Computers

<b>Workstation</b>	<b>Make</b>	<b>Model</b>	<b>Purchased</b>
OSAS	Dell	Dimension 4600	2004
Ashley Hitt	HP	HP Pavilion HPE	2010
Tammy Audette	HP	HP Compaq	2011
Myron Jesme	HP	HP ProBook	2011
Arlene Novak	HP	HP Compaq	2011
Christina Slowinski	HP	HP Compaq	2011
Loren Sanderson	HP	HP Probook	2011
Brady Stanley	HP	HP Elitebook 8770	2013
Corey Hanson	Dell	OptiPlex 9020	2013
Board Room Laptop Projector	HP	HP Probook	2014
Board Room Laptop	HP	HP Probook	2015
Server	Cisco	APC Smart-UPS	2017
Super Computer (PTMApp)	HP	HP Zbook	2017
Surface Pros	HP	Surface Pro	2017

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

**February 22, 2018**

**Red River Watershed Management Board** – Leroy and I attended the RRWMB meeting which was held 9:30 am, February 20, 2018 at the Wild Rice Watershed District office in Ada.

**Thief River 1W1P-** Tammy, Corey and I took part in the Policy and Advisory Committee meeting held February 14, 2018 in the Red Lake Watershed District Board Room. I have included in your packet the agenda from the Policy and Advisory Committees. This will give you an idea as to some of the information that was discussed at the three plus hour meeting.

**Red Lake River 1W1P** – Policy Committee met at 9:30 am, February 21<sup>st</sup> at the Red Lake Watershed District Board Room to review potential projects and budget for projected BWSR funding. This information will be used as we move forward in completing projects.

**MNDNR and Agassiz Interagency meeting** – Loren, Brady, Leroy and I attended the interagency meeting at 9:30 am February 21<sup>st</sup> at Thief Lake Headquarters. This meeting is intended to update each entity as to what projects are being considered as well as operation of impoundments for spring of 2018.

**Aquatic Invaders Summit III** - Ashley will be attending the annual “AIS Summit” which will be held February 28<sup>th</sup> and March 1<sup>st</sup> at the Earle Brown Heritage Center, in Minneapolis. This is the first time Ashley will be attending this conference so it will be interesting what she brings back on this summit. Ashley currently sits on the Polk County AIS workgroup so hopefully some of the information gathered at the Summit will be helpful as they move forward.

**Red River Basin Water Quality Monitoring Training** – Ashley and Christina attended the RRB Water Quality Monitoring Training session held February 22<sup>nd</sup> at University of Minnesota Crookston. This training will be useful in assuring that sampling procedures will be completed on a consistent manner throughout the Red River Basin.

**Rinke Noonan Drainage & Water Conference** – Loren, Brady, Christina and Allan participated in the Drainage Conference held in St. Cloud Thursday, February 15<sup>th</sup>. I will let Allan update the Board as he sees fit.

**Water Quality Report** – I have included in your packet, Corey’s water quality report dated September and October 2017.

## PLANNING PHASE

### MEETING INFORMATION

<b>Date:</b>	February 14, 2018	<b>Location:</b>	<b>Red Lake River Watershed District</b>
<b>Time:</b>	9AM to Noon	<b>Call-In Number:</b>	N/A
<b>Invitees / Attendees:</b>	Planning Work Group (PWG) Advisory Committee (AC) Policy Committee (PC)	<b>Facilitator:</b>	Drew Kessler, HEI
<b>PWG Lead:</b>	Myron Jesme		

### PREPARATION FOR MEETING

**Review:** *Policy Committee reserves the 1<sup>st</sup> 30 min. of the meeting to conduct business. AC is invited to the full meeting, but is not called until 9:30AM.*

### AGENDA ITEMS

	ACTION	TIME
<b>PC Business</b>		30 min.
<ul style="list-style-type: none"> <li>• <b>Approve Financials</b></li> <li>• Introduce - Governance</li> <li>• Decide – Land and Water Resources Inventory</li> <li>• Decide – Resource Concerns and Issues Maps</li> <li>• Decide – Emerging Concerns</li> </ul>		10 min.
2. Introductions and Updates		
3. Decide – Priority Issues <b>Meeting Goal:</b> Decide on ranks for priority issues	Decide	20 min.
4. Decide - Introduction <ul style="list-style-type: none"> <li>• <b>Meeting Goal:</b> Go over recommendations to revisions and decide on final product.</li> </ul>	Decide	15 min.
5. Discuss – Protection and Restoration Strategies <ul style="list-style-type: none"> <li>• <b>Meeting Goal:</b> Discuss Corey’s Recommendation and set path to finish</li> </ul>	Discuss	15 min.
6. Discuss – Section 2 <u>ID &amp; Prioritize Issues</u> and Implement Prioritization	Discuss	20 min.
7. Discuss – Altered Hydrology <ul style="list-style-type: none"> <li>• <b>Meeting Goal:</b> Go over recommendations and set path forward</li> </ul>	Discuss	15 min.
8. Discuss – Cap. Projects, local rules and ordinances and Section 5 of the Plan <ul style="list-style-type: none"> <li>• <b>Meeting Goal:</b> Set homework date to finalize.</li> </ul>	Discuss	10 min.
9. Discuss – Strategies and Actions <ul style="list-style-type: none"> <li>• <b>Meeting Goals:</b> Set homework date for comments.</li> </ul>	Discuss	20 min.
10. Discuss – Prioritize, Target, and Measure Application (PTMApp) <ul style="list-style-type: none"> <li>• <b>Meeting Goal:</b> Get committees up-to-speed</li> </ul>	Discuss	20 min.



## NOTES

# agenda

**Table 1. Policy Committee Members**

Name	Designated (D) or Alternate (A)	Affiliation	Address	Phone	Email
Tim Sumner	D	Beltrami County			<a href="mailto:Timsumner15@gmail.com">Timsumner15@gmail.com</a>
Wally Byklum	A	Beltrami County			<a href="mailto:Wally.byklum@rcis.com">Wally.byklum@rcis.com</a>
Ray Hendrickson	D	Beltrami SWCD			<a href="mailto:jackpine@gvtel.com">jackpine@gvtel.com</a>
Gary Kiesow	D	Marshall County	25430 340 <sup>th</sup> Avenue NE Goodridge, MN 56725	218-689-3084	<a href="mailto:Gary.kiesow@co.marshall.mn.us">Gary.kiesow@co.marshall.mn.us</a>
Rolland Miller	A	Marshall County	26817 420 <sup>th</sup> Avenue NW Warren, MN 56762	701-739-7396	<a href="mailto:Rolland.miller@co.marshall.mn.us">Rolland.miller@co.marshall.mn.us</a>
Brad Berg	D	Marshall SWCD			<a href="mailto:Bkberg83@gmail.com">Bkberg83@gmail.com</a>
Wallace Bengston	A	Marshall SWCD			<a href="mailto:wdbengtson@wiktel.com">wdbengtson@wiktel.com</a>
Neil Peterson	D	Pennington County			<a href="mailto:ndpeterson@co.pennington.mn.us">ndpeterson@co.pennington.mn.us</a>
Don Jensen	A	Pennington County	32094 120 <sup>th</sup> Street NE Goodridge, MN 56725	218-689-3084	<a href="mailto:donjensen52@gmail.com">donjensen52@gmail.com</a>
Linda Hanson	A	Pennington SWCD			<a href="mailto:miliha@gvtel.com">miliha@gvtel.com</a>
Grant Nelson	D	Pennington SWCD	17349 110 <sup>th</sup> Street NW TRF, MN 56701		<a href="mailto:grantnelson@gvtel.com">grantnelson@gvtel.com</a>
LeRoy Ose	D	RLWD	15115 229 <sup>th</sup> Street NE TRF, MN 56701	218-689-6675	<a href="mailto:leroyose@gmail.com">leroyose@gmail.com</a>
Dale M. Nelson	A	RLWD	10367 140 <sup>th</sup> Street NW TRF, MN 56701	218-686-0032	<a href="mailto:Dalenelson62@gmail.com">Dalenelson62@gmail.com</a>

**Table 2. Advisory Committee Members**

Name	Affiliation	Address	Phone	Email
<b>Local Members</b>				
<b>Ralph Smith</b>	Beltrami County Landowner	PO Box 142 Grygla, MN 56727	218-294-6358	
<b>Zach Gutknecht</b>	Beltrami SWCD Clean Water Specialist	Beltrami County Administration 701 MN Ave Suite 173 Bemidji, MN 56601	218-333-4157	Zachrie.Gutknecht@co.beltrami.mn.us
<b>Lowell Smeby</b>	Beltrami County Landowner	162881 Flint Lock Road Grygla, MN 56727	210-280-6916	
<b>Bill Neuschwander</b>	Beltrami County Landowner	6252 Lee Rd NW Grygla, MN 56727	218-294-6000	
<b>Raymond Benson</b>	Beltrami SWCD Spruce Gove Township Chair	31217 Todroff Rd NW, Grygla, MN 56727	218-294-6290	
<b>Curtiss Hunt</b>	Beltrami County lakes and Rivers Association	9217 Oman Rd Ne Bemidji, MN 56601	218-766-4529	
<b>Josh Johnston</b>	Marshall County Water Planner/Zoning Administrator	Marshall County Water and Land Office 208 E. Colvin Avenue, Suite 3 Warren, MN 56762	218-745-4217	Josh.johnston@co.marshall.mn.us
<b>Loiell Dyrud</b>	Marshall County Landowner	23484 150th Ave NE Thief River Falls, MN 56701	218-681-6964	lod@wiktel.com
<b>Lon Aune</b>	Marshall County Hwy Dept.	447 S. Main St. Warren, MN 56762	218-745-4381	Lon.Aune@co.marshall.mn.us
<b>Randy McMillian</b>	Marshall County Landowner	38847 380th St NE Grygla, MN 56747	218-686-3320	ranmac@gvtel.com
<b>Darren Carlson</b>	Marshall SWCD SWCD Staff	105 South Division St. Warren, MN 56762	218-745-5010	Darren.carlson@mn.nacdnet.net
<b>Steve Holte</b>	Marshall SWCD Landowner	28770 State Hwy 219 NE Grygla, MN 56727	218-689-2953	sholte@gvtel.com
<b>Elroy Aune</b>	Marshall SWCD			djaune@gvtel.com
<b>Mike Drangstveit</b>	Marshall SWCD			mikeyd@gvtel.com
<b>Mike Flaagan</b>	Pennington County	250 125 <sup>th</sup> Ave NE, Thief River Falls, MN 56701	218-683-7017	mlflaagan@co.pennington.mn.us

# agenda

<b>Wayne Johnson</b>	Pennington County	PO Box 528 Thief River Falls, MN 56701	218-681-3809	wjohnson@cityrft.net
<b>Kevin Sanders</b>	Pennington County	19385 250 <sup>th</sup> Ave NE, Thief River Falls, MN 56701	218-681-2465 218-686-3462	<a href="mailto:kjsanders@wiktel.com">kjsanders@wiktel.com</a> krsanders@wiktel.com
<b>Bryan Malone</b>	Pennington SWCD	201 Sherwood Ave S. Thief River Falls, MN 56701	218-683-7075 ext. 118	Bryan.malone@mn.nacdnet.net
<b>Sportsman Club James Counter</b>	Pennington SWCD	James Counter, Box 232, Thief River Falls, MN	218-791-9808 218681-1901	jcouter@mncable.net
<b>Golf Club</b>	Pennington SWCD	Tim Erickson	218-681-4020	Tim.erickson@nsbtrf.com
<b>Dale Nelson</b>	RLWD	10367 140 <sup>th</sup> St NW Thief River Falls, MN 56701	218-686-0032	Dalnelson62@gmail.com
<b>Brian Dwright</b>	RLWD	PO Box 427 Waskish MN 56685	218-556-7109	Waskish1954@gmail.com
<b>State and Federal Agency Members</b>				
<b>Denise Oakes</b>	MPCA Watershed Project Management	714 Lake Ave Suite 220 Detroit Lakes, MN 56501	218-846-8119	Denise.oakes@state.mn.us
<b>Matt Fischer</b>	BWSR Board Conservationist	403 4 <sup>th</sup> St NW Rm 200 Bemidji, MN 56601	218-755-2683	Matt.fischer@state.mn.us
<b>Jenilynn Marchand</b>	Principal Planner Environmental Health Division, MDH	705 5 <sup>th</sup> ST NW, Suite A Bemidji, MN 56601	218-308-5153	Jenilynn.marchand@state.mn.us
<b>Robert Sip</b>	MN Dept. of Ag.	625 N Robert Street St Paul, MN 55155	651-201-6456	Rob.Sip@state.mn.us
<b>Annette Drewes</b>	DNR	2532 Hannah Ave NW, Bemidji, MN 56601	218-308-2466	Annette.Drewes@state.mn.us
<b>Stephanie Klamm</b>	Area Hydrologist - DNR	246 125th Ave NE Thief River Falls, MN 56701	218-681-0947	Stephanie.klamm@state.mn.us
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<b>Jeff Franson</b>	Golf Club Grounds Superintendent	NA	NA	JDsDodge@hotmail.com
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**Table 3. Planning Work Group Members.**

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<b>Darren Carlson</b>	Marshall SWCD	105 Division Street South	Warren, MN 56772	218-745-5010	darren.carlson@mn.nacdnet.net
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By Corey Hanson, Red Lake Watershed District Water Quality Coordinator. 2/21/2018.

- ✓ District Monitoring
- ✓ Clearwater River Watershed Restoration and Protection Project
- ✓ Clearwater River Open House Event
- ✓ Clearwater River maps
- ✓ Educational Events

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

A full round of sampling at the District's long-term monitoring sites was completed in October.

High concentrations of total suspended solids (in excess of state water quality standards) were found in:

- A ditch along the Wapiti WMA that was being cleaned during a runoff event, sending muddy water downstream to the Mud River.
- Mud River at Highway 89 (18 mg/L, runoff event, recent "cleaning")
- Thief River at CSAH 7 (38 mg/L)
  - The concentration was lower (8 mg/L) downstream at 140<sup>th</sup> Ave NE



High concentrations of *E. coli* bacteria (>126 MPN/100ml) were found in:

- Beau Gerlot Creek at CR 114
- Blackduck River
- Burnham Creek at CSAH 48
- Chief's Coulee at Dewey Avenue
- Clearwater River at CSAH 10

- Cyr Creek
- Darrigan's Creek
- Ditch along the Wapiti WMA
- Grand Marais Creek at 110<sup>th</sup> St NW
- Heartsville Coulee at 13<sup>th</sup> Street SE in East Grand Forks
- Judicial Ditch 30
- Kripple Creek
- Lost River at most of the crossings between Pine Lake and Anderson Lake
- Marshall County Ditch 20
- Moose River at CSAH 54
- Mud River
  - In Grygla
  - Highway 89
- North Cormorant River
- Polk County Ditch 2 at CR 62
- Red Lake River at Greenwood Street in Thief River Falls
- Silver Creek near Clearbrook
- Thief River
  - CSAH 6
  - CSAH 7
  - 140<sup>th</sup> Ave NE

High concentrations of total phosphorus that exceeded stream eutrophication standards were found in:

- Burnham Creek at 320<sup>th</sup> Ave SW
- Chief's Coulee at Dewey Ave
- Grand Marais Creek
  - 110<sup>th</sup> St NW
  - 130<sup>th</sup> St. NW
- Heartsville Coulee at 13<sup>th</sup> Street SE in East Grand Forks
- Mud River at Highway 89
- Polk County Ditch 2
  - CSAH 20
  - CR 62
- Poplar River at CSAH 49
- Thief River at CSAH 6

Low concentrations of dissolved oxygen (<5 mg/L) were found:

- Little Black River at County Road 102
- Lost River at County Road 139 (ponded behind a beaver dam)
- Walker Brook at CSAH 19

A very high (13.2 mg/L) nitrate + nitrite concentration was found in Lower Badger Creek on October 11, 2017. A relatively high nitrate + nitrite concentration was found in the Mud River on October 3, 2017. All tile drainage in that watershed was flowing after a rainfall event. Relatively high nitrates and nitrites concentrations were also found in Beau Gerlot Creek and Terrebonne Creek.

The total organic carbon concentration was relatively high (20.3 mg/L) in the Thief River near Thief River Falls.

Some notably good water quality monitoring results include:

- *E. coli* was okay in Pennington County Ditch 21. The bridge at CSAH 17 had been replaced. That bridge replacement removes the roosting areas that the old bridge provided to pigeons. That should help reduce *E. coli* concentrations in the ditch.
- Total suspended solids concentrations were okay in the Red Lake River at East Grand Forks, Fisher, and Crookston.
- Total suspended solids were very low (1 mg/L or less) in:
  - Clearwater River near Plummer
  - Cyr Creek
  - Darrigan's Creek
  - Hill River
    - 335<sup>th</sup> Ave
    - CR 119
  - Judicial Ditch 73
  - Lost River (CSAH 8)
  - Nasset Brook
  - Poplar River
    - 310<sup>th</sup> St SE near Highway 59
    - CSAH 30 near Fosston
  - Ruffy Brook
- *E. coli* concentrations were very low (<10 MPN/100ml) in:
  - Polk County Ditch 14 near the Maple Lake Outlet
  - Lost River at 109<sup>th</sup> Ave, near the Pine Lake inlet

During early-October sampling, there was a lot of standing water and runoff in the Grygla area after a large rainfall event. A ditch cleanout was in progress along the border of the Wapiti WMA while the Thief River watershed was being sampled in early October. This ditch flows to Branch 55 of Judicial Ditch 11, north of Grygla along CSAH 54. That ditch flows into other branches of JD 11 before emptying into the Mud River. The water in the ditch was very muddy near the cleanout. Before reaching the Mud River, the muddy water in this ditch was diluted by cleaner water from downstream tile drainage systems that were rapidly discharging after the recent rainfall event.





**Ditch cleaning along the Wapati WMA**

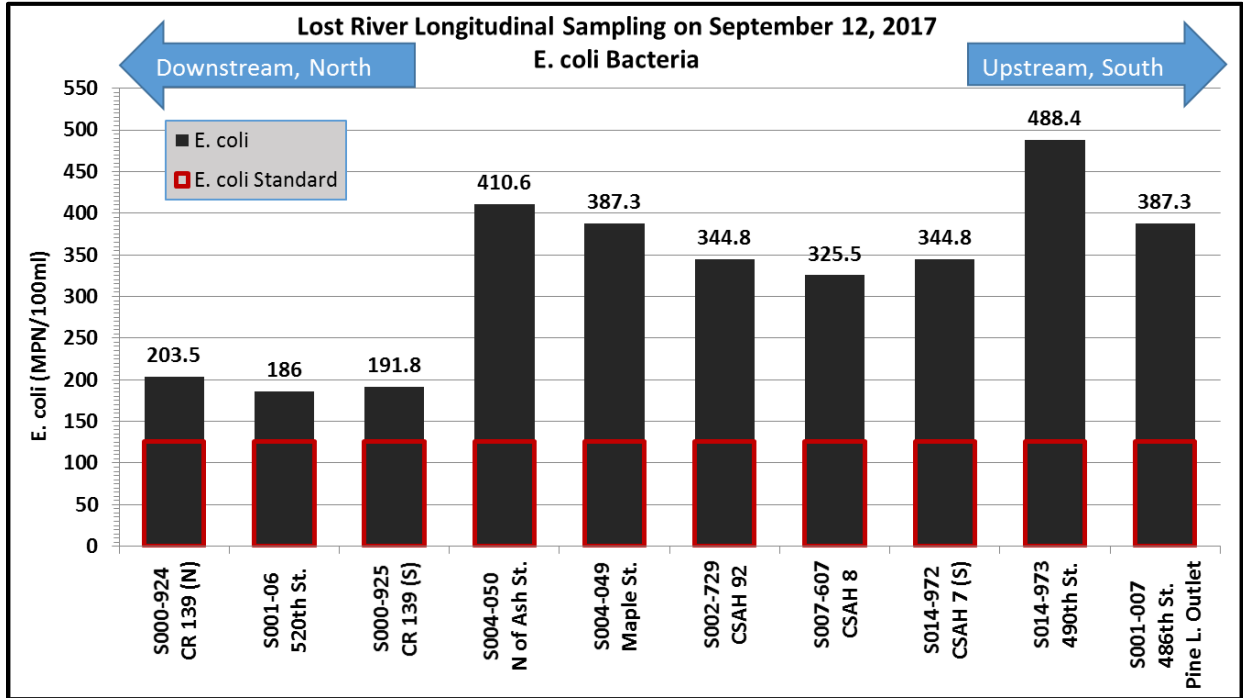


**Early-October tile drainage in the Mud River watershed**

# RED LAKE WATERSHED DISTRICT MONTHLY WATER QUALITY REPORT

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Longitudinal *E. coli* samples were collected along the *E. coli*-impaired reach of the Lost River between Pine Lake and Anderson Lake.



The recently completed restoration of the Blackduck Lake outlet was photographed during the Upper/Lower Red Lakes area sampling trip.



Beaver dams in the Lost River were blocking flow near the County Road 139 crossing near Anderson Lake. Beaver dams downstream of the crossing have been a common occurrence. However, on September 12, 2018, a beaver dam had also been built within the culvert. The culvert was plugged from top to bottom, causing flooding upstream.



**Lost River, ponded behind a beaver dam at CR 139**



**Beaver dam inside the CR 139 culvert**

Continuous dissolved oxygen monitoring in Nasset Creek, Lost River, and Hill River continued through the month of September. Dissolved Oxygen loggers and deployment pipes were retrieved at the end of the month.

The RLWD continued sampling in the Mud River in Grygla through the late summer and September to monitor for the recurrence of blue-green algae blooms in the river. A dissolved oxygen logger was deployed in the river. Despite some low flow conditions, tests did not reveal the presence of algal toxins.

The process of entering the year's data into a database and eventually submitting it to the MPCA for storage in the EQuIS database began in late October, after October sample analysis results were received from the lab. Site establishment forms were completed for sites along the Hill River and the Lost River that were sampled for the first time during longitudinal sampling.

### **Red Lake Watershed District Stream Gaging and Flow Monitoring**

HOBO water level loggers are collecting water level measurements at 24 monitoring sites throughout the Clearwater, Red Lake River, Thief River, and Grand Marais Creek watersheds. Flow was measured at the CR 127 crossing of the Clearwater River.

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

- Objective 1 – Evaluation of Existing Data
  - Walker Brook (AUID 09020305-509) was officially recategorized and will not require a TMDL for the dissolved oxygen impairment on that reach.
- Objective 8 – Data analysis
  - Total phosphorus TMDL for the channelized portion of the Clearwater River (09020305-647)
- Objective 9 – Civic Engagement
  - RLWD staff attended the September 14, 2017 Maple Lake Improvement District meeting to discuss the Clearwater River WRAPS project. Monitoring and issues around the lake were discussed. A board member called the following day with some additional ideas and concerns.
    - The lake association has continued to sample water quality in the lake. The RLWD has assisted other lakes with sample analysis expenses and may be able to help the MLID with their expenses. An invoice was later submitted to the RLWD and the Board of Managers approved the reimbursement of the MLID's 2017 lake water quality sample analysis expenses.
    - Water levels in Ulen Bay and the channel under CSAH 10 that connects the bay to the rest of the lake. The height of the bridge can be an issue too. It sounded like there are times when the water under the bridge is too shallow to drive boats through. They also said that it can be hard to fit boats under the bridge when water levels are higher.

- They have been monitoring dissolved oxygen in the lake. They have found low dissolved oxygen levels during the winter. Dissolved oxygen levels get very low in Maple Bay. The MLID purchased new aerators.
- A lack of flow from the inlet can be a concern.
- The dam was repaired 5-6 years ago so that it would hold more water.
- Members of the MLID are concerned about groundwater supply due to the increased numbers high capacity irrigation wells in the area.
- o An Open House Event for the Clearwater River WRAPS project was held in Red Lake Falls on September 25, 2017.
  - The meeting was promoted through press releases, direct mailing (newsletters), a mass email to a list of Clearwater WRAPS contacts, flyer postings, and social media.
  - Contact lists were updated
  - Short presentations were prepared for the event and were given on each 30-minute mark during the event. A limit of 10-minutes was planned for each presentation, but some went longer due to the amount of interest and questions during those presentations.
    - Visual Tour of the Clearwater River Watershed
    - Water Quality Conditions in the Clearwater River Watershed
  - There was opportunity for small group or one-on-one discussion at informational booths.
- o RLWD staff wrote an article about the Clearwater River for the Polk County Newsletter
- o RLWD staff provided information to the MPCA for a newsletter article entitled “2018 Impaired waters list: Success stories surfacing for Minnesota lakes, streams.”

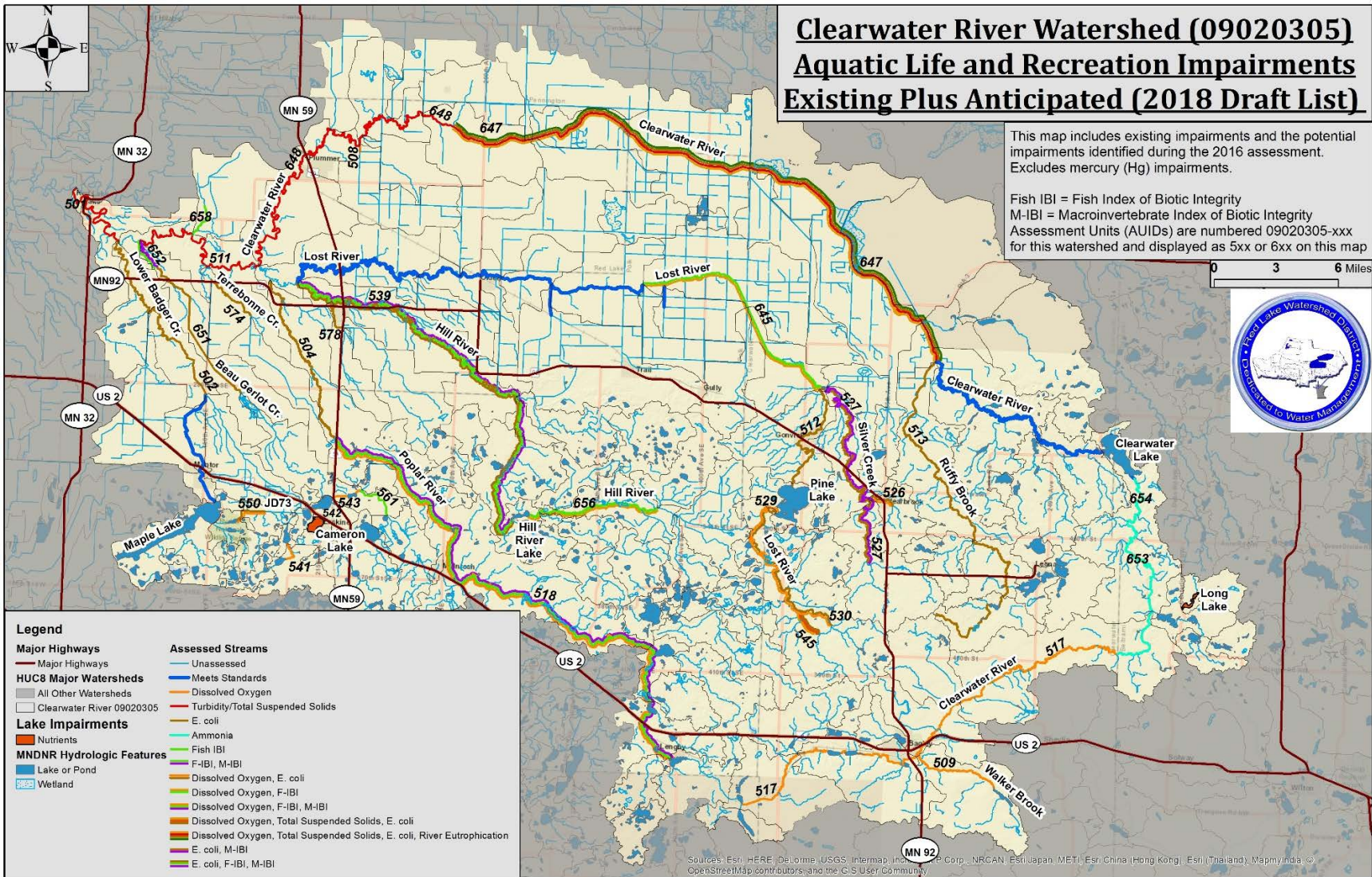
**One of the presentations at the Clearwater River WRAPS Open House Event**



- Objective 10 – Reports
  - Terrebonne Creek *E. coli* sources
  - Brooks Creek *E. coli* sources
  - Clearwater River land use map
  - Direct drainage area table for impaired waters in the Clearwater River watershed
  - Clearwater WRAPS cover
  - The Brooks Creek watershed was examined to identify potential sources of *E. coli* bacteria. The only potential sources are a few residences near the channel. The Brooks Creek drainage area should be targeted for septic system inspections.
  - Upper Clearwater River HUC10 subwatershed protection considerations.
  
- Newsletters and maps:

# RED LAKE WATERSHED DISTRICT MONTHLY WATER QUALITY REPORT

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# RED LAKE WATERSHED DISTRICT MONTHLY WATER QUALITY REPORT

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## Impaired Waters in the Clearwater River (09020305) Watershed

Assessment Unit ID	Waterbody Name	Description	Existing Impairments (2016)	New Impairments (2018)	Proposed Delistings, Corrections	HUC10	HUC10 Name
60-0189-00	Cameron Lake	226 acre lake near Erskine, MN	Nutrients			0902030506	Lower Badger Creek
04-0295-00	Long Lake	85 acre lake north of Little Buzzle Lake and Pinewood		Nutrients		0902030501	Upper Clearwater River
09020305-501	Clearwater River	Lower Badger Creek to Red Lake River	Turbidity/TSS			0902030507	Lower Clearwater River
09020305-502	Lower Badger Creek	CD14 to Clearwater River		<i>E. coli</i>		0902030506	Lower Badger Creek
09020305-504	Poplar River	Highway 59 to Lost River		<i>E. coli</i>		0902030504	Poplar River
09020305-508	County Ditch 57	Unnamed ditch to Clearwater River	DO		DO	0902030507	Lower Clearwater River
09020305-509	Walker Brook	Walker Brook Lake to Clearwater River	DO			0902030501	Upper Clearwater River
09020305-511	Clearwater River	Lost River to Beau Gerlot Creek	Turbidity/TSS			0902030507	Lower Clearwater River
09020305-512	Lost River	Pine Lake to Anderson Lake		<i>E. coli</i>		0902030505	Lost River
09020305-513	Ruffy Brook	Headwaters to Clearwater River	Fecal coliform ( <i>E. coli</i> )			0902030502	Middle Clearwater River
09020305-517	Clearwater River	Headwaters to T148 R36W S36 east line	DO			0902030501	Upper Clearwater River
09020305-518	Poplar River	Spring Lake to Highway 59	DO	F-IBI, M-IBI		0902030504	Poplar River
09020305-526	Clear Brook	Headwater to Silver Creek		DO, <i>E. coli</i>		0902030505	Lost River
09020305-527	Silver Creek	Headwaters to Anderson Lake	Fecal coliform ( <i>E. coli</i> )	M-IBI		0902030505	Lost River
09020305-529	Lost River	T148 R38W S17 south line to Pine Lake	DO	<i>E. coli</i>		0902030505	Lost River
09020305-530	Lost River	Unnamed cr to T148 R38W S20 north line		DO, <i>E. coli</i>		0902030505	Lost River
09020305-539	Hill River	Hill River Lake to Lost River		<i>E. coli</i> , F-IBI		0902030503	Hill River
09020305-541	Bee Lake Inlet	Eighteen Lake to Bee lake	DO		DO	0902030506	Lower Badger Creek
09020305-542	Poplar River Diversion	Badger Lake to Mitchell Lake	DO		DO	0902030506	Lower Badger Creek
09020305-543	Poplar River Diversion	Unnamed ditch to Badger lake	DO			0902030506	Lower Badger Creek
09020305-545	Nassett Creek	T148 R38W S28 south line to Lost River		TSS, DO, <i>E. coli</i>		0902030505	Lost River
09020305-550	Judicial Ditch 73	Unnamed ditch to Tamarack Lake		DO, <i>E. coli</i>		0902030506	Lower Badger Creek
09020305-561	Tributary to the Poplar River Diversion	Gerdin Lake to Poplar River Diversion		F-IBI		0902030506	Lower Badger Creek
09020305-574	Terbonne Creek	CD4 to CD58	<i>E. coli</i>			0902030507	Lower Clearwater River
09020305-578	Brooks Creek	Unnamed cr to Hill River		<i>E. coli</i>		0902030503	Hill River
09020305-645	Lost River	Anderson Lake to Unnamed Cr (CSAH 28)		DO, F-IBI		0902030505	Lost River
09020305-647	Clearwater River	Ruffy Brook to JD1	Turbidity/TSS, DO	<i>E. coli</i> , Eutrophication	DO	0902030502	Middle Clearwater River
09020305-648	Clearwater River	JD1 to Lost River	Turbidity/TSS, DO		DO	0902030507	Lower Clearwater River
09020305-651	Beau Gerlot Creek	Upper Badger Creek to -96.1947 47.8413		<i>E. coli</i>		0902030507	Lower Clearwater River
09020305-652	Beau Gerlot Creek	-96.1947 47.8413 to Clearwater River		F-IBI, M-IBI		0902030507	Lower Clearwater River
09020305-653	Clearwater River	T148 R35W S31 west line to unnamed cr	Ammonia (un-ionized)		Ammonia	0902030501	Upper Clearwater River
09020305-654	Clearwater River	unnamed cr to Clearwater Lake	Ammonia (un-ionized)		Ammonia	0902030501	Upper Clearwater River
09020305-656	Hill River	Unnamed cr (Br4 CD 81 near Olga) to Hill River Lake		DO, F-IBI		0902030503	Hill River
09020305-658	County Ditch 23	-96.1479 47.8855 to Clearwater River		F-IBI		0902030507	Lower Clearwater River

TSS = Total Suspended Solids

DO = Dissolved Oxygen

F-IBI = Fish Index of Biotic Integrity

M-IBI = Macroinvertebrate Index of Biotic Integrity

Fecal Coliform (*E. coli*) = The reach was found to be impaired for aquatic recreation by high fecal coliform concentrations and current *E. coli* data confirmed the impairment.



# RED LAKE WATERSHED DISTRICT MONTHLY WATER QUALITY REPORT

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## YOU CAN HELP RESTORE THE CLEARWATER RIVER WATERSHED!

Shoreline Restoration  
Stream Bank Stabilization  
Wetland Restoration  
Rain Gardens  
Sediment Ponds  
Grazing Management



## CONTACT

Red Lake Watershed District: 218-681-5800, [coreyh@wiktel.com](mailto:coreyh@wiktel.com)  
Red Lake County Soil & Water Conservation District: 218-253-2593  
East Polk Soil & Water Conservation District: 218-563-2777  
Clearwater County Soil & Water Conservation District: 218-694-6845  
Beltrami County Soil & Water Conservation District: 218-333-4158

For detailed information about the watersheds in the Red Lake Watershed District, visit:  
[www.rldwatersheds.org](http://www.rldwatersheds.org)



Red Lake Watershed District  
1000 Pennington Ave  
Thief River Falls, MN 56701  
Email: [coreyh@wiktel.com](mailto:coreyh@wiktel.com)

## Clearwater River Watershed Restoration and Protection Strategy Project Newsletter

JOIN THE CONVERSATION  
[www.rldwatersheds.org](http://www.rldwatersheds.org)  
[www.redlakewatershed.org](http://www.redlakewatershed.org)



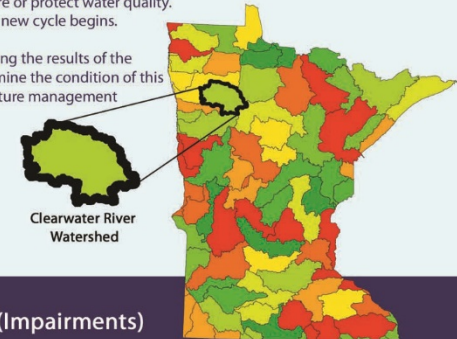
## Clearwater River Watershed Restoration and Protection Project Update Newsletter

The Minnesota Pollution Control Agency (MPCA) employs a watershed approach to restoring and protecting Minnesota's rivers, lakes, and wetlands. During the 10-year cycle, the MPCA and its partner organizations work on each of the state's 80 major watersheds to evaluate water conditions, establish priorities and goals for improvement, and take actions designed to restore or protect water quality. When a watershed's 10-year cycle is completed, a new cycle begins.

The Red Lake Watershed District is currently drafting the results of the study of the Clearwater River Watershed to determine the condition of this water resource and create plans that will guide future management and work to improve water quality.

### What is the Watershed Approach?

Watch the videos:  
<http://www.pca.state.mn.us/ktqhe8a>



## Identified Water Quality Issues (Impairments)

These four water quality issues were found to be the main issues in the Clearwater River Watershed as identified by this intensive watershed study and the stressor identification study. The short videos below explain these issues in more detail. Restoration and Protection strategies are currently being written to address these issues. For specifics on issues in specific streams, see the inside of this newsletter.

- Turbidity and Total Suspended Solids** – tells us how cloudy the water is from sediment. Sediment enters the water from soil erosion. Cloudy water can hurt fish, aquatic insects, plant life within rivers, habitat, recreational suitability, drinking water supplies, and more.  
Watch the video: <http://youtu.be/EKH3jZvADTK>
- Low Dissolved Oxygen** - Fish, snails, crayfish, insects and other animals that live in the water, need certain levels of oxygen to survive. Waters that have low levels of dissolved oxygen (less than 5 milligrams per liter) are considered unhealthy.  
Watch the video: <http://youtu.be/qUq7jFdVo3g>
- E. Coli Bacteria** - Bacteria is everywhere. Some bacteria can be good and is necessary for digestion (think of yogurt). Bad bacteria, however, can make us sick. Some of these bad bacteria, fecal coliform and E. coli, can be found in the water in which we enjoy swimming.  
Watch the video: <http://youtu.be/vkYUijXyqLI>
- Water flow** – Water flow, or the amount of water flowing in a stream is important for determining erosion potential. Flowing water can have tremendous power. Faster water has more erosive power. Therefore, changes to the landscape that increase the rate of runoff will also increase erosion. Aquatic life can also be harmed by low flow levels that can create dry channels, stagnant water, and low dissolved oxygen concentrations.

## Watershed Restoration & Protection Plan Progress

### Official Water Quality Assessment

Water quality monitoring data collected from 2006-2015 was compared against state standards to determine which stretches of river had impairments. The results are in the loose insert in this mailing. The resulting plan from this project will determine how to fix these impaired streams. To learn more about what these impairments are and what they mean, see the video links on the first page of this newsletter and the glossary below.

#### Glossary of Water Quality Measurements (Impairments)

**M-IBI:** Macroinvertebrate Index of Biological Integrity, shows if the stream is healthy for invertebrates (insects, crayfish, etc)

**F-IBI:** Fish Index of Biological Integrity, shows if the stream is healthy for fish.

**Dissolved Oxygen:** Fish and other aquatic creatures need oxygen to survive. Low levels of dissolved oxygen are considered unhealthy.

**E.coli:** E. coli bacteria comes from warm-blooded animals such as cattle and humans. It can contaminate the water for swimming.

**Turbidity/Total Suspended Solids (TSS):** tells us how cloudy the water is from sediment.

~ For further information about dissolved oxygen, E.coli and turbidity, see the videos links on the first page of this newsletter. ~

### Next Steps

These impaired rivers have been studied carefully to determine exactly what is causing impacts to fish and other aquatic organisms (insects, crayfish, etc). This stage of the process is called stressor identification.

Next, is a discussion of what projects can be done to fix these water quality problems/impairments. For example, if the stream bank is eroding, a vegetation buffer and trees could be planted to help stabilize the stream bank.

### Public Meetings

Local citizens can help become involved with implementation strategies for restoration and protection of the Clearwater River Watershed, review the draft plan and give your input. Please join us:

**September 25, 2017**

**Red Lake Falls Community Center, 3:30-6:30pm**



**WE ARE HERE**



2014

1

#### Current Condition

All past data was compiled and used to evaluate the current condition of the Clearwater River Watershed. Gaps in the data were identified for collecting new data.

2014-2015

2

#### Data Collection

New data was collected in 2014 and 2015 and combined with historical data. Water chemistry, stream channel stability, and biological community data was collected to inform this study.

2016-2017

3

#### Model & Map

Use computers to model and map the watershed and set targets for reduction of pollutants in the Clearwater River Watershed.

2017

4

#### Assessment & Stressor ID

Water quality and biologic impairments are identified. The causes of those problems are investigated.

2017-2018

5

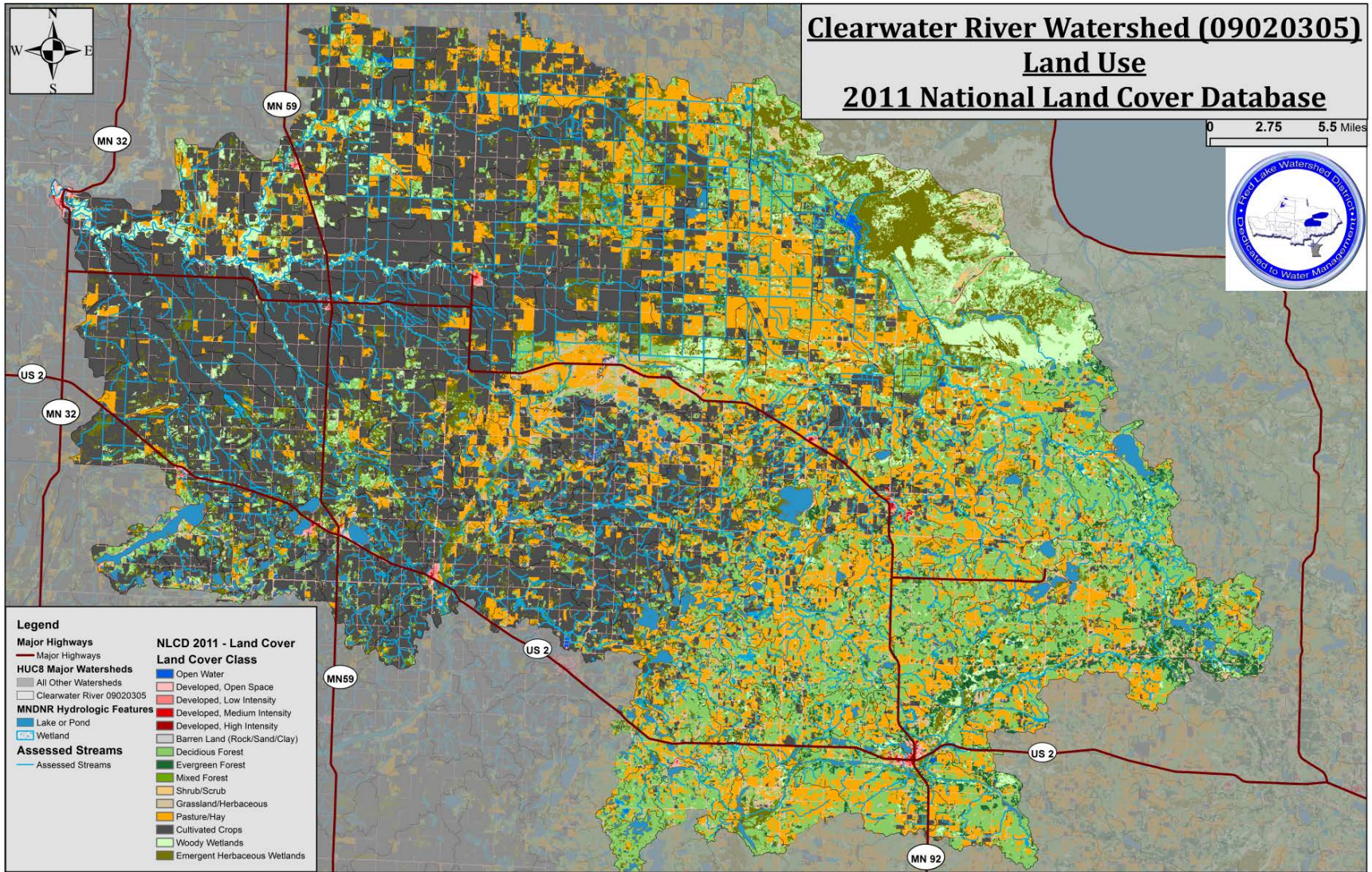
#### Final Plans

Final management plans will prioritize targeted activities in the watershed that will allow water bodies to safely meet water quality standards. These plans will guide local management of water resources in the Clearwater River Watershed.

# RED LAKE WATERSHED DISTRICT MONTHLY WATER QUALITY REPORT

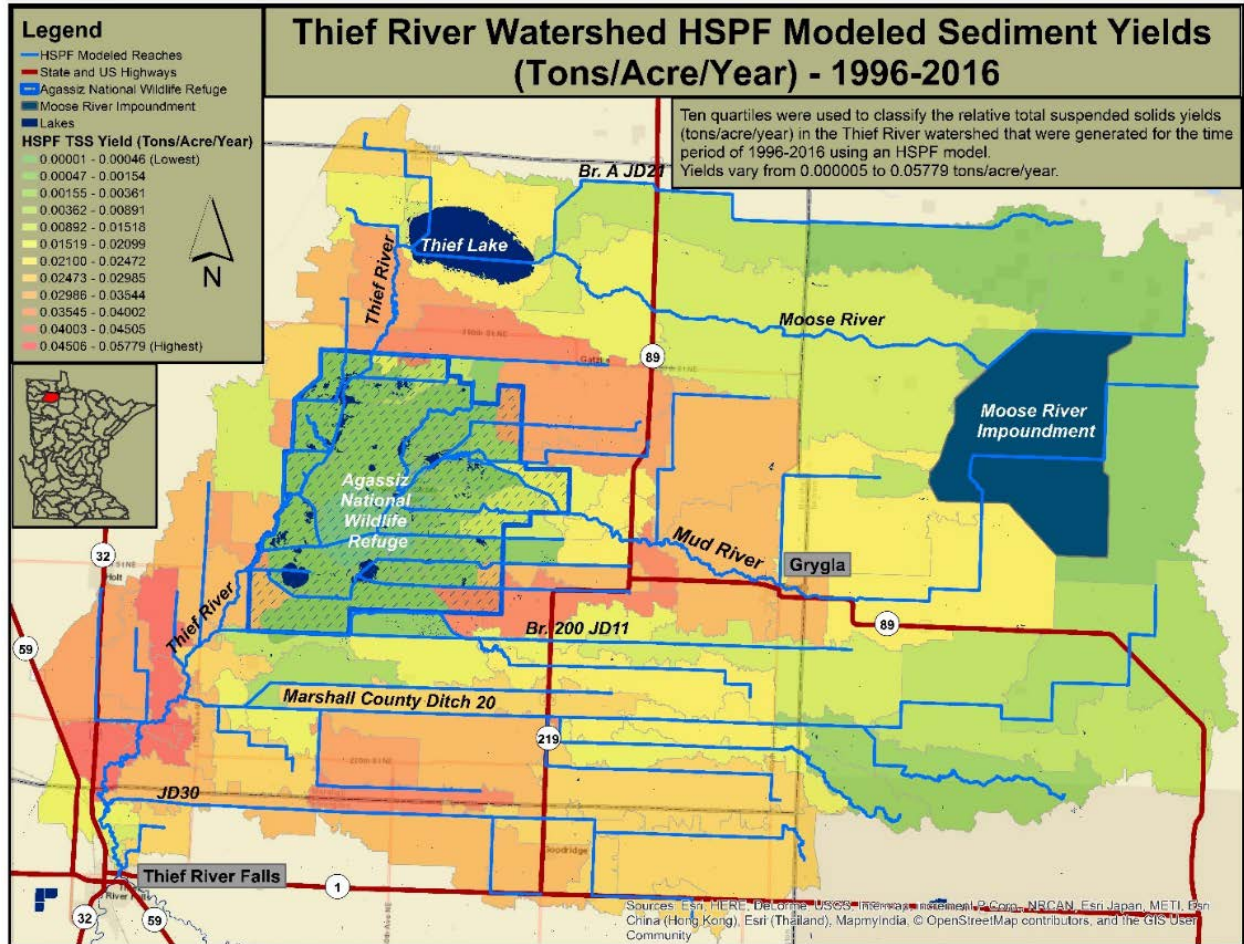
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## Clearwater River Watershed (09020305) Land Use 2011 National Land Cover Database



**Thief River Watershed Restoration and Protection Strategy**

- RLWD staff created a GIS layer of Thief River watershed sediment yields using data from the Thief River watershed HSPF model.
- Comments and suggestions on the Thief River TMDL and WRAPS documents were received from the MPCA.



**Upper/Lower Red Lakes Watershed Restoration and Protection Strategy**

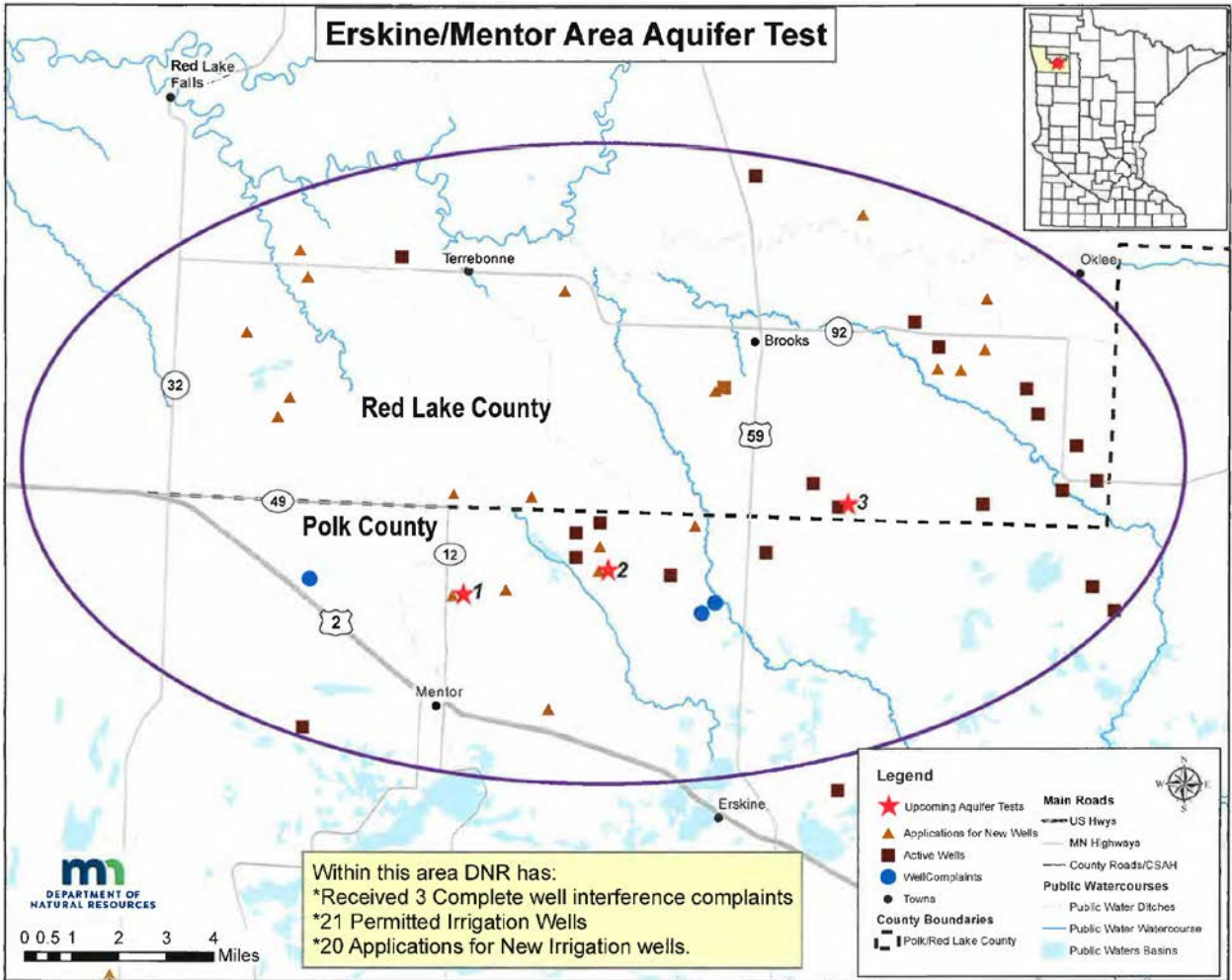
In October 2017, MPCA staff were working on edits to the Upper/Lower Red Lakes Watershed Stressor Identification Report and addressing comments. Red Lake Department of Natural Resources staff shared the results of microbial source tracking samples that they collected during the summer of 2017. RLWD reviewed the Upper and Lower Red Lakes stressor identification document with MPCA staff.

# RED LAKE WATERSHED DISTRICT MONTHLY WATER QUALITY REPORT

## September - October 2017

2017 Upper/Lower Red Lakes Microbial Source Tracking Results							
Site	River	Date	Analysis	Marker Quantified	DNA Analytical Results	Concentration	RMB <i>E. coli</i> Results
BATT-NB	North Branch Battle River	8/14/2017	Beaver	1.36E+02	Detected	Low concentration	133.4 MPN/100mL
BATT-NB	North Branch Battle River	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	
BATT-NB	North Branch Battle River	8/14/2017	Human: EPA	ND	Not Detected	Not Detected	
BATT-NB	North Branch Battle River	8/14/2017	Ruminant	1.36E+04	Detected	Moderate concentration	
BLAC-H	Blackduck	8/14/2017	Ruminant	ND	Not Detected	Not Detected	111.9 MPN/100mL
BLAC-H	Blackduck	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	
BLAC-H	Blackduck	8/14/2017	Human: EPA	ND	Not Detected	Not Detected	
BLAC-H	Blackduck	8/14/2017	Beaver	6.61E+02	Detected	Low concentration	
CORM-B	North Cormorant	8/14/2017	Beaver	2.93E+02	Detected	Low concentration	63.8 MPN/100mL
CORM-B	North Cormorant	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	
CORM-B	North Cormorant	8/14/2017	Human: EPA	ND	Not Detected	Not Detected	
CORM-B	North Cormorant	8/14/2017	Ruminant	ND	Not Detected	Not Detected	
CORMORANT_36	North Cormorant	8/14/2017	Beaver	ND	Not Detected	Not Detected	866.4 MPN/100mL
CORMORANT_36	North Cormorant	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	
CORMORANT_36	North Cormorant	8/14/2017	Human: EPA	ND	Not Detected	Not Detected	
CORMORANT_36	North Cormorant	8/14/2017	Ruminant	1.78E+04	Detected	Moderate concentration	
CORMORANT_72	North Cormorant	8/14/2017	Beaver	ND	Not Detected	Not Detected	54.6 MPN/100mL
CORMORANT_72	North Cormorant	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	
CORMORANT_72	North Cormorant	8/14/2017	Human: EPA	ND	Not Detected	Not Detected	
CORMORANT_72	North Cormorant	8/14/2017	Ruminant	ND	Not Detected	Not Detected	
MUDR-M	Mud River	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	127.4 MPN/100mL
MUDR-M	Mud River	8/14/2017	Human: EPA	ND	Not Detected	Not Detected	
MUDR-M	Mud River	8/14/2017	Bird	ND	Not Detected	Not Detected	
MUDR-M	Mud River	8/14/2017	Beaver	6.74E+02	Detected	Low concentration	
S004-533	O'Brien Creek	8/14/2017	Ruminant	ND	Not Detected	Not Detected	52.9 MPN/100mL
S004-533	O'Brien Creek	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	
S004-533	O'Brien Creek	8/14/2017	Bird	ND	Not Detected	Not Detected	
S004-533	O'Brien Creek	8/14/2017	Beaver	DNQ	Detected	Low concentration	
S004-831	Blackduck	8/14/2017	Ruminant	DNQ	Detected	Low concentration	228.2 MPN/100mL
S004-831	Blackduck	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	
S004-831	Blackduck	8/14/2017	Human: EPA	ND	Not Detected	Not Detected	
S004-831	Blackduck	8/14/2017	Beaver	ND	Not Detected	Not Detected	
S004-832	Darrigan's Creek	8/14/2017	Ruminant	5.49E+02	Detected	Low concentration	1119.9 MPN/100mL
S004-832	Darrigan's Creek	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	
S004-832	Darrigan's Creek	8/14/2017	Human: EPA	DNQ	Detected	Low concentration	
S004-832	Darrigan's Creek	8/14/2017	Beaver	ND	Not Detected	Not Detected	
S007-880	Hay Creek	8/14/2017	Ruminant	ND	Not Detected	Not Detected	143.9 MPN/100mL
S007-880	Hay Creek	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	
S007-880	Hay Creek	8/14/2017	Bird	DNQ	Detected	Low concentration	
S007-880	Hay Creek	8/14/2017	Beaver	DNQ	Detected	Low concentration	
S007-883	South Cormorant	8/14/2017	Ruminant	ND	Not Detected	Not Detected	25.3 MPN/100mL
S007-883	South Cormorant	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	
S007-883	South Cormorant	8/14/2017	Human: EPA	ND	Not Detected	Not Detected	
S007-883	South Cormorant	8/14/2017	Beaver	ND	Not Detected	Not Detected	
S007-884	Shotley Brook	8/14/2017	Beaver	ND	Not Detected	Not Detected	122.3 MPN/100mL
S007-884	Shotley Brook	8/14/2017	Bird	ND	Not Detected	Not Detected	
S007-884	Shotley Brook	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	
S007-884	Shotley Brook	8/14/2017	Human: EPA	ND	Not Detected	Not Detected	
S007-887	Sandy River	8/14/2017	Ruminant	ND	Not Detected	Not Detected	45 MPN/100mL
S007-887	Sandy River	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	
S007-887	Sandy River	8/14/2017	Bird	DNQ	Detected	Low concentration	
S007-887	Sandy River	8/14/2017	Beaver	3.20E+02	Detected	Low concentration	
S007-888	Unnamed Stream	8/14/2017	Beaver	ND	Not Detected	Not Detected	307.6 MPN/100mL
S007-888	Unnamed Stream	8/14/2017	Bird	DNQ	Detected	Low concentration	
S007-888	Unnamed Stream	8/14/2017	Human: Dorei	ND	Not Detected	Not Detected	
S007-888	Unnamed Stream	8/14/2017	Human: EPA	ND	Not Detected	Not Detected	

**Erskine Area Groundwater Discussion**



An informational meeting was organized by the MN DNR at the Win-E-Mac School Commons on October 19, 2017 to discuss groundwater levels in the Erskine area. DNR staff shared information about the ways in which it appropriates the use of groundwater (permitting process), unique aspects of the Erskine-area groundwater supply, and aquifer tests. They addressed questions and concerns from the audience. Presentations and demonstrations were used to convey information about how different types of aquifers work and how they can be affected by high capacity wells.

Well interference has become an issue in the Erskine area. Three valid well interference complaints have been filed and the DNR will be conducting three aquifer tests. The complaints have been validated by professional well drillers. The affected wells in this area have not gone “dry.” They have been affected by reduced flows and lowered levels, but there has still been water within the casings.

Aquifer tests will show the extent of the effect of high capacity wells upon neighboring wells.

The tests will also evaluate the ability of the aquifer to recover after a drawdown. The aquifer tests will be completed in the spring of 2018. The first aquifer test was completed the day before this meeting. The test involves pumping a large amount of water from the well. To passersby, it might look like a lot of water is being wasted as it is gushing into a ditch.

Irrigation wells have been recently installed in the area. The cone of depression around an irrigation well can negatively affect neighboring residential wells. The effect can be compounded when high capacity irrigation wells are located too close to each other. Intersecting cones of depression can have a compounded effect on shallower residential wells. High capacity irrigation wells may also be depressurizing the aquifer. If a confined aquifer is depressurized, it is harder to get the water out of the aquifer. There are a lot of flowing wells in this area. Flowing residential wells may stop flowing when high capacity wells depressurize the aquifer.

The geology is complex in this portion of Polk County. There are layers of clay and sand that are not nice and even. Unfortunately, the knowledge of the geology in this area is limited. The DNR knows a little about the geology from well logs, but not much has been mapped. There may be a couple of layers of aquifers in this area that are recharged along the eastern edge of Polk County. Studies for the purpose of mapping of geology and aquifers are typically spearheaded by counties, with help from the MN DNR. A geologic atlas for Polk County is under development.

Tritium is used to “age” water. The presence of tritium indicates that the water is “young” and has been in the ground for a relatively short length of time. Some water in Minnesota’s aquifers is thousands of years old.

The permitting process is very rigorous and can take 1-2 years to complete. The process requires farmers to “jump through plenty of hoops” and requires annual reporting. Monitoring wells are sometimes required. The DNR wants to make sure that the water supply is sustainable and limit drawdowns to 75% of the available head. It takes time to complete the tests and process data. Permits do not have end dates, but they can be re-considered if problems are found.

There were some conflicting messages at this meeting. At first, the presenters gave the impression that a high capacity permittee causes another well to go dry (well-interference), the high capacity permittee can simply pay for improvements to the affected well and continue pumping and affecting the area’s groundwater resources. After some concern was expressed, they added that the permittee may have to reduce their pumping rate and that the DNR does an analysis on the effects of the high capacity well upon the aquifer. So, there was at least some assurance that the DNR will do something to protect the resource. The DNR doesn’t know much about this aquifer, yet also stated that the agency was not concerned about the sustainability of the aquifer at this time. If well interference is occurring, then the resource is being affected and there at least be some concern. Despite the information that was presented about the problems that unbridled installation of high capacity wells can cause, local politicians called for more and faster permitting of these wells in the area.

MN DNR Well Interference Fact Sheet:

[http://files.dnr.state.mn.us/waters/watermgmt\\_section/appropriations/well\\_interference\\_fact\\_sheet.pdf](http://files.dnr.state.mn.us/waters/watermgmt_section/appropriations/well_interference_fact_sheet.pdf)

Crookston Times article about the meeting:

<http://www.crookstontimes.com/news/20171020/area-legislators-minnesota-dnr-host-erskine-meeting-to-discuss-water-supply>

### **River Watch and Public Education**

District staff assisted schools with sampling for the River Watch program in September. A River Watch Kick-Off event was held at the RLWD office in coordination with the Thief River Falls Community Paddle Event.





RLWD staff helped with the Pennington County Outdoor Education Day that was organized by the Pennington County Soil and Water Conservation District and took place in Oakland Park in Thief River Falls. Ashley Hitt helped with the aquatic invasive species station. Brady Stanley helped with the casting station. Corey Hanson helped with the “Incredible Journey” water cycle station.

**“Incredible Journey” Station**



**Casting station**



**Aquatic Invasive Species Station**



RLWD staff (Corey Hanson, Ashley Hitt, and Christina Slowinski) helped run the water quality station at the Northwest Minnesota Water Festival educational events for 4<sup>th</sup> grade students that were held in Warren and Fertile. A total of 682 fourth graders attended the events.



**Other Notes**

- RLWD staff and managers attended Governor Dayton's 25 by '25 Town Hall event at the University of Minnesota, Crookston.
  - Governor Mark Dayton announced a new "25 by '25" Water Quality Goal to spur collaboration and action to improve Minnesota's water quality 25 percent by 2025. Without additional action, the quality of Minnesota's waters is expected to improve only 6 to 8 percent by 2034. Governor Dayton wanted to hear from Minnesotans and hosted a series of Town Halls over the summer and fall of 2017.
  - RLWD staff reviewed 26 by 25 Town Hall information, agenda, and information from past events. RLWD staff prepared a list of project ideas from WRAPS and One Watershed One Plan reports to bring to the event.
  - RLWD staff also attended the Minnesota Department of Agriculture listening session that was held prior to the 25 by '25 Town Hall
  - Results and photos from the Crookston 25BY25 Event:  
<https://www.eqb.state.mn.us/content/crookston-tuesday-september-5-2017>
  - Results and photos from the Bemidji 25BY25 Event:  
<https://www.eqb.state.mn.us/content/bemidji-%E2%80%93-wednesday-september-13-2017>
- The MPCA released a 2018 Draft List of Impaired Waters
- A newly hired technician, Christina Slowinski, began working at the District on September 18, 2017.
- Flow was measured in the Clearwater River at County Road 127.
- A water quality report was written for the month of June 2017.
- RLWD staff participated in discussions about Cycle 2 of the MPCA 10X/WRAPS process with staff from other watershed districts and with MPCA staff.
- RLWD staff reviewed Thief River One Watershed One Plan documents
  - Priority Resource Matrix
  - Story maps (informational website)
  - Resource station maps (maps that will be used at "resource stations" during the public meetings.
  - Land and Resource Inventory
- RLWD staff provided Houston Engineering with a Thief River watershed HSPF-modeled sediment yield GIS layer for the Thief River One Watershed One Plan.
- Construction began on the restoration of the outlet of Blackduck Lake
- Water quality related notes from the September 14, 2017 RLWD Board of Managers meeting.
  - The Board reviewed a Clean Water Fund Assistance Contract with the West Polk SWCD for stabilization of the outlet of Polk County Ditch 63, RLWD Project No. 134. The Board approved the Clean Water Fund Assistance Contract with the West Polk SWCD, in the amount of \$128,750, with a 25% in-kind match in the amount of \$25,570 from the District's Erosion Control Funds.
  - The Board reviewed a Memorandum of Agreement between the District, Pennington SWCD and the West Polk SWCD for the Red Lake River One Watershed One Plan Ditch Inventory. Pennington SWCD received a Clean Water

Fund Drainage Ditch Inventory and Inspection grant in 2014. The Pennington SWCD had remaining funds from the grant and were able to transfer the balance to the West Polk SWCD. An inventory of over 372 miles of legal ditch systems needs to be completed by December 31, 2018. The West Polk SWCD contacted the District, to inquire if the District would have staff available to assist with the completion of the grant. Administrator Jesme indicated he felt that the District staff would be able to assist the West Polk SWCD with the inventory of legal ditch systems and since this area is located in the Red Lake River 1W1P, the information could be used to solidify funding from the Clean Water Legacy for implementation of projects. The Board approved the Memorandum of Agreement between the District, Pennington SWCD and West Polk SWCD for the Red Lake River One Watershed One Plan Ditch Inventory.

- Water quality related notes from the October 26, 2017 RLWD Board of Managers meeting.
  - Administrator Jesme stated that the Maple Lake Association collects the water quality samples on Maple Lake, with the analysis of the samples completed by RMB Labs in Detroit Lakes. The Maple Lake Association has asked if the District would consider paying for the costs of the analysis; costs for the analysis in 2017 was \$700. Motion by Dwight, seconded by Ose, to approve paying for the costs of the water quality analysis for samples collected on Maple Lake by the Maple Lake Association. Motion carried.

#### **September and October 2017 Meetings and Events**

- **September 5, 2017** – Minnesota Department of Agriculture Town Hall Listening Session at the University of Minnesota, Crookston
- **September 5, 2017** – Crookston 25 by '25 Town Hall Meeting at the University of Minnesota, Crookston
- **September 7, 2017** – Thief River One Watershed One Plan Coordination Call
- **September 8, 2017** – Crookston Community Paddle Event
- **September 9, 2017** – Crookston Community Paddle Event
- **September 11, 2017** – Pennington County Water Resources Advisory Committee Meeting
  - The Pennington SWCD has applied for an additional \$40,000 to upgrade low-income septic systems
  - Two systems still need to be upgraded within the Chief's Coulee drainage area out of the three public health threats that were found.
  - RLWD staff (Christina S.) will be helping with a ditch inventory in Polk County.
  - Progress has been made on the City of Thief River Falls Stormwater Assessment. A list of potential projects has been created. Projects have been ranked in order of treatment effectiveness. A new parking lot and stormwater pond are in the process of being constructed on the west side of Digi-Key in Thief River Falls.
  - Pennington SWCD Ditch Outlet Analysis update: The college has "flown" 5 ditch outlets with drones. Trees make the process challenging. Real elevations are needed for control points. Accuracy should be within a few centimeters.

- NRCS National Water Quality Initiative provides funding for EQIP program implementation that could be targeted within 1WIP watersheds.
- The SWCD has cost share money for installing buffers to comply with the Buffer Law. They are offering \$200/acre for grass and \$300/acre for native grass. The money must be allocated by the end of March 2018.
- Aquatic Invasive Species educational items and materials were distributed during the Lions Fishing Derby.
- The Pennington SWCD held a well water testing clinic. Some wells tested positive for nitrates.
- Brent Mason was hired by the MN DNR for the Clearwater/Beltrami County area Hydrologist position that was vacated when Dan Thul retired.
- New roundabouts might be constructed in Thief River Falls:
  - Near Challenger Elementary
  - Near Petro Pumper
  - On Highway 32 by Mark Boulevard and the 125<sup>th</sup> Ave NE bypass.
- New rip-rap is in place along Branch 200 of Judicial Ditch 11 below the outlet of Farmes Pool.
- Grazing is almost done for the year within Agassiz National Wildlife Refuge.
- Agassiz National wildlife refuge has been spraying ditches and banding ducks.
- USFWS staff are helping with forest fires and hurricane response.
- **September 11, 2017** – River Watch Kick-Off Event at the RLWD office
- **September 11, 2017** – Thief River Falls Community Paddle Event
- **September 12, 2017** – East Grand Forks Community Paddle Event
- **September 13, 2017** – Thief River One Watershed One Plan meeting in Grygla
- **September 13, 2017** – Pennington County Outdoor Education Day
- **September 13, 2017** – Bemidji Water Quality Town Hall (not attended by the RLWD)
- **September 14, 2017** – Clearwater River WRAPS discussion at the Maple Lake Improvement District Meeting
- **September 19, 2017** – Northwest Minnesota Water Festival in Warren, MN
- **September 20, 2017** – Northwest Minnesota Water Festival in Fertile, MN
- **September 25, 2017** – Clearwater River WRAPS Public Open House Event, Red Lake Falls
- **September 26, 2017** – Red Lake River One Watershed One Plan Planning Team Meeting and PTMApp Meeting
- **September 27, 2017** – Meeting with MPCA, IWI, and RLDNR staff, at the RLWD Office, to discuss the MPCA’s plans for future monitoring (Surface Water Assessment Grants, biological monitoring, and Cycle 2 of the 10X plan) and ways that the MPCA’s plans/process could be improved.
- **September 29, 2017** – Thief River One Watershed One Plan conference call
- **September 29, 2017** – Red Lake River Corridor Enhancement meeting
  - Recap of community paddling events
  - Master plan updates
  - Northwest Minnesota Foundation grant implementation
  - We Are Water

- **October 11, 2017** – Thief River One Watershed One Plan meeting
- **October 12, 2017** – Red Lake River One Watershed One Plan Meeting
  - Prioritized projects
- **October 18, 2017** – Red Lake River One Watershed One Plan Policy Committee meeting
- **October 19, 2017** – Groundwater informational meeting in Erskine

**Quote of the Month:**

“We more frequently fail to face the right problem than fail to solve the problem we face.”

- Anonymous

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](https://www.facebook.com/redlakewatershed) to stay up-to-date on RLWD reports and activities.