TROUT STREAM CLASSIFICATION PROPOSAL
DOUGLAS COUNTY, WISCONSIN

Wisconsin Department of Natural Resources
Fisheries Management Bureau
Lake Superior Fisheries Unit – Superior Office

Submitted to Lori Tate, Section Chief, Bureau of Fisheries Management (Central Office)

Approved by
Bradley Eggold, Great Lakes Fisheries Unit Supervisor (Milwaukee) and
Bradley Ray, Lake Superior Fisheries Team Supervisor (Bayfield)

Submitted by Paul Piszczek, Senior Fisheries Biologist, Superior Office

December 1, 2020

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PART 1: List of Proposed Streams

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Non-trout

- Red River (T48N R15W S32; T48N R15W S31; T48N R15W S29; T48N R15W S28; T48N R15W S21; T48N R15W S16; T48N R15W S15; through T48N R15W S10), Town of Superior

PART 2: Classification Information

- Procedural checklists
- Fisheries survey sheets
- Habitat rating sheets

Trout Stream Classification Checklist (revised 2/2016)

(This completed checklist should accompany any trout stream classification changes. Check the items as appropriate and attach comments if desired.)

Stream name: Unnamed Creek 2-2a 2 o'clock (T48N R10W)

County: Douglas WBIC: None Assigned

Define the portion of the stream to be classified. Please provide both a written description and the coordinate locations of the upstream and downstream beginning and end points.

Unnamed Creek 2-2a 2 o'clock (48N R10W S36; 48N R10W S35; and 47N R10W S2), Town of Brule; 0.42 mile beginning at the confluence with the Bois Brule River upstream to County Highway H, approximately 0.13 mile north of the intersection with Koho Road.

This written description should reference permanent, unambiguous landmarks that would allow a person unfamiliar with the area to locate the points (e.g., dams, road crossings, stream confluences, county lines, section lines, township lines)

Upstream point coordinates: 46. 59139° N; -91.57375° W
Downstream point coordinates: 46.58872° N; -91.58024° W
Classification proposed: I

X Fish survey (including relative abundance, length distribution, and age structure) and habitat survey completed on water to be classified. Survey on file at DNR Superior paper files, Superior network electronic files, Fisheries Management Database (query WBIC)

X Fish team supervisor and district fisheries supervisor have approved the classification. Date: 09/28/2020

X Fish Biologist has consulted with the following staff in their office or district

X Permit Drafter: Eric de Venecia, 9/25/2020 Concerns Yes (No)

X Water Resource Specialist: John Kleist, 10/3/2020 Concerns Yes (No)

X Water Management Specialist: Jenny Murphy, 10/3/2020 Concerns Yes (No)

X Water Management Specialist: Dan Harrington, 10/15/2020 Concerns Yes (No)

X Drinking and Groundwater staff: Christian Martinez, 10/3/2020 Concerns Yes (No)

X Public notice published in local newspaper or other media. 10/9/2020

X Notice sent to all clerks of the county, town, city, or village in which the stream is located. 10/8/2020

X Notice sent to legislators in the affected districts. 10/8/2020

X Notice sent to chairpersons of legislative committees with jurisdiction for natural resources issues. 10/8/2020

X No hearing requested 30 days after public notice.

N/A Hearing requested, held, and classification recommended. Date: N/A

Signed: Paul Piszczek Date: 12/1/2020

Fisheries Biologist

Approved: Date: 01 Dec 2020

Fish Team Supervisor

Brad Eggold Date: 01 Dec 2020

District Fisheries Supervisor

If found, return to:
State of Wisconsin
Department of Natural Resources
1701 N 4th St, Superior, WI 54880

Wadable Stream Fish Assessment

Form 3600-230 (R 7/15)

FH Database Management:
Entered:
Proofed:

Instructions: Bold fields must be completed.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
2-29 T48N UNN CR @ 2 O'CLOCK R10W			

Date (MMDDYYY)	Station Name
07/17/2020	U/S FROM CTH H.

Latitude - Longitude Determination Method Used: GPS - GARMIN GPSMAP 78 | Datum Used: WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.59136	W-91.57398	N46.59139	W-91.57375	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		60°F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec):

Water Level (check one - measure distance if Above or Below Normal): (X) Normal ( ) Below: _____ (m) ( ) Above: _____ (m)

Water Clarity: (X) Clear ( ) Turbid ( ) Stained

Channel and Basin Characteristics

Channel Condition: (check one) (X) Natural ( ) > 20-year-old Channelization ( ) 10- to 20-year-old Channelization ( ) < 10-year-old Channelization ( ) Concrete Channel

Mean Stream Width (m)	Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
EST ~1.0m					

Sampling Description

Sampling Type (check one): (X) CPE ( ) Depletion ( ) Mark-Recapture ( ) Other - Specify: _____

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
100 FT	9:50	10:00

Type of Pass (check one): (X) Upstream Only ( ) Upstream, then Downstream ( ) Other - Specify:

Gear Description

Gear (indicate number of each type used): 1 Backpack Shockers _____ Stream Shockers _____ Mini-Boom Shockers | Number of Anodes per Unit: 1

Current Type:	Volts	Amps	Rate	Duty
( ) AC ( ) DC (X) DCP	175	1.5	80	20

# of Dippers	Dip Net Mesh Size (Inches) and Type (bar, Ace, Delta, etc.)
1	1/8" HEAVY DELTA

Person(s) Who Collected Data (Full Names): NELSON DOLAR

Comments / Notes (continue on the back of this sheet if necessary)

* ELECTROFISHED 100 FT OF STREAM, IMPOUNDED BY PERCHED CULVERT, NO FISH CAPTURED OR OBSERVED, BPS FUNCTIONING - FROGS STUNNED BY ELECTRICAL FIELD
* STOPPED AT BOULDER FIELD, VERY DIFFICULT TO SHOCK INTERSTITIAL SPACES BEHIND BOULDERS, LIKELY TOP END OF STREAM WITH HIGHEST EXPECT THAT COULD BE SUITABLE FOR FISH

SPECIES													
NO FISH CAPTURED OR OBSERVED													

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR 2-2a 2 o'clock T48N R10W			

Date (MMDDYYYY)	Station Name
9 15 2020	U/S FROM CTH H

Latitude - Longitude Determination Method Used	Datum Used
GPS - GARMIN GPSMAP 78	W&S 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.59136	W-91.57398	N46.59139	W-91.57375	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		60 °F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m^3/sec):

Water Level (check one - measure distance if Above or Below Normal): [X] Normal [ ] Below: _____ (m) [ ] Above: _____ (m)

Water Clarity: [X] Clear [ ] Turbid [ ] Stained

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
EST 1.0 m	100 ft

Channel Condition: (check one) [X] Natural [ ] > 20-year-old Channelization [ ] 10- to 20-year-old Channelization [ ] < 10-year-old Channelization [ ] Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km^2)

Comments / Notes

* STREAM IMPOUNDED BY PERCHED CULVERT

* STOPPED ELECTROFISHING AFTER 100 FT - NO FISH CAPTURED DESPITE ADEQUATE HABITAT, REACHED BOULDER FILLED PORTION OF VALLEY THAT WOULD BE DIFFICULT TO SHOCK WITH WATER RUNNING UNDER BOULDERS

SMALL TRIB TO BRULE RIVER, SUBSTRATE MAINLY SAND, FISH COVER PROVIDED BY UNDERCUT BANKS AND L.W.D.

LACK OF FISH & FISH PASSAGE TO THIS STREAM REACH DUE TO VERY HIGH GRADIENT SECTION OF STREAM AT END OF SECTION DOWNSTREAM OF CULVERT. PREDOMINATELY BOULDERS WITHOUT A DEFINED CHANNEL TO ALLOW FISH TO SWIM UPSTREAM.

HABITAT ASSESSMENT DONE USING NOTES FROM FISH SURVEY, AERIAL PHOTOS & RECOLLECTION OF STREAM CHANNEL, INSTREAM COVER, AND RIPARIAN AREA

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) (15)	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) 10	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	15
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil (15)	Limited erosion; 0.20 - 0.50 m of bank is bare soil 10	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	15
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 7	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station 3	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station * IMPOUNDED (0)	0
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 * ARTIFICIAL (15)	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 5	Stream relatively wide and shallow; width/depth > 25 0	15
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 15	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 10	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 5	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 SLOW FLOWING, NO RIFFLES (0)	0
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed 10	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% 5	Fines extensive in all habitats; > 60% of stream bed covered * DUE TO IMPOUNDED STREAM CHANNEL, SAND & SILT (0)	0
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream 10	Occasional cover, limited to one or two areas; 5 - 9% of stream UNDERCUT BANKS LWD (5)	Cover rare or absent; limited to < 5% of stream 0	5
				Total Score	50

If found, return to:
State of Wisconsin
Department of Natural Resources
1701 N 4th St, Superior, WI 54880

Wadable Stream Fish Assessment

Form 3600-230 (R 7/16)

FH Database Management:
Entered:
Proofed:

Instructions: Bold fields must be completed.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR 2-2a T48N R10W 1/2 of Block			

Date (MMDDYYY)	Station Name
07/17/2020	D/S FROM CTH H - INCLUDING SCOUR POOL

Latitude - Longitude Determination Method Used	Datum Used
GPS - GARMIN GPSMAP 78	NGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.59130	W-91.57524	46.59140	W-91.57423	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		58 F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	(X) Normal ( ) Below: _____ (m) ( ) Above: _____ (m)	(X) Clear ( ) Turbid ( ) Stained

Channel and Basin Characteristics

Channel Condition: (check one)
(X) Natural ( ) > 20-year-old Channelization ( ) 10- to 20-year-old Channelization ( ) < 10-year-old Channelization ( ) Concrete Channel

Mean Stream Width (m)	Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
EST. 0.8 - 1.25	0				

Sampling Description

Sampling Type (check one): (X) CPE ( ) Depletion ( ) Mark-Recapture ( ) Other - Specify: _____

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
100	0833	0918

Type of Pass (check one): (X) Upstream Only ( ) Upstream, then Downstream ( ) Other - Specify:

Gear Description

Gear (indicate number of each type used): ___1___ Backpack Shockers _____ Stream Shockers _____ Mini-Boom Shockers
Number of Anodes per Unit: 1

Current Type:	Volts	Amps	Rate	Duty
( ) AC ( ) DC (X) DCP	175	0.35	80	20

# of Dippers	Dip Net Mesh Size (inches) and Type (bar, Ace, Delta, etc.)
1	1/8" HEAVY DELTA

Person(s) Who Collected Data (Full Names)
NELSON, DOERR

Comments / Notes (continue on the back of this sheet if necessary)

* NOT ON USGS TOPO LINE WORK - RUNS THROUGH GULLY
* WILL NEED TO ASSIGN WBIC
* VERY ROCKY, MAINLY COBBLE & GRAVEL, SOME BOULDERS
* LIMITED FISH USE IN UPPER 1/4 - 1/3 OF STATION DUE TO HIGH GRADIENT
* STEEL PIPE CULVERT, PERCHED OUTLET SPILLING INTO SCOUR POOL, LARGE PILE OF BOULDERS FORMING BACK POOL

COHO	YOY.	ADULT	~~YOY~~	SCULPIN	C. MUD	SPECIES							
LN / WT	BNT	BNS	~~BNT~~	LN / WT	MINNOW								
(M) 3.0 / 3.5	2.8 (M)	4.6 / 18		2.5 / 3g	3.1								
3.0 / 4.5	2.9			3.6 / 9g	3.4								
2.8 / 3g	2.6			2.5 / 7.5	3.0								
2.7 / 3g				3.4 / 8g	2.8								
3.1 / 4g				1.9 / 1.5	2.5								
2.5 / 2g				2.2 / 1.5	3.1								
				1.6 / 0.5	3.1								
				3.1 / 6g	2.2								
				3.2 / 7.5									
				2.0 / 1.g									
				+9									

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR 2-2a - 2 O'CLOCK T48N R10W	N/A		

Date (MMDDYYYY)	Station Name
915 2020	D/S FROM CTH H, INCLUDES SCOUR POOL

Latitude - Longitude Determination Method Used	Datum Used
GPS - GARMIN OPSMAP 78	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.59130	W-91.57526	N46.59140	W-91.57423	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		58 °F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☒ Normal ☐ Below: _____ (m) ☐ Above: _____ (m)	☒ Clear ☐ Turbid ☐ Stained

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
ESTIMATED 0.8 - 1.25 m	100

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
0				

Comments / Notes

SMALL TRIB TO BRULE RIVER. RUNS THROUGH ALDER AND CONIFER MUDDED VALLEY. RELATIVELY HIGH GRADIENT, ESPECIALLY UPPER END OF STATION. SUBSTRATE PREDOMINATELY GRAVEL & COBBLE, UPPER END OF STATION IS BOULDER FILLED VALLEY.

HABITAT ASSESSMENT DONE USING NOTES FROM FISH SURVEY, AERIAL PHOTOS AND RECOLLECTION OF STREAM CHANNEL, INSTREAM COVER AND RIPARIAN AREA.

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) RECENT LOGGING IN UPLANDS, BUT VALLEY PROTECTED. (15)	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) 10	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	15
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil 15	Limited erosion; 0.20 - 0.50 m of bank is bare soil (10)	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	10
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 7	Pools present, but either rare or overly dominant, few other habitats present; (10 to 29% or) 71 to 90% of station (3)	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station 0	3
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 5	Stream relatively wide and shallow; width/depth > 25 (0)	0
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 15	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 10	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 HIGH GRADIENT, LOTS OF RIFFLES BUT FEW BENDS (5)	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	5
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed VERY ROCKY, MAINLY GRAVEL & COBBLE (15)	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed 10	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% 5	Fines extensive in all habitats; > 60% of stream bed covered 0	15
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream 10	Occasional cover, limited to one or two areas; 5 - 9% of stream VERY SHALLOW, (5)	Cover rare or absent; limited to < 5% of stream 0	5
			MAY NOT MEET 0.20 m WATER DEPTH CRITERIA AVAILABLE COVER IS LWD OR BOULDERS	Total Score	53

If found, return to:
State of Wisconsin
Department of Natural Resources
1701 N 4th St, Superior, WI 54880

Instructions: Bold fields must be completed.

Wadable Stream Fish Assessment

Form 3600-230 (R 7/15)

FH Database Management:
Entered:
Proofed:

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
Unnamed Creek 2-2a T48N R10W 2nd crossing			

Date (MMDDYYY)	Station Name
07120120	D/S Hwy H, Remote location 0.21 mi West of CTH H

Latitude - Longitude Determination Method Used	Datum Used
GPS - Garmin GPSMAP 78	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.590104	W091.578582	N46.590595	W091.577776	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
	/	6.0		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity: slight stain
	(•) Normal ( ) Below: _____ (m) ( ) Above: _____ (m)	( ) Clear ( ) Turbid ( ) Stained

Channel and Basin Characteristics

Channel Condition: (check one) ( ) Natural ( ) > 20-year-old Channelization ( ) 10- to 20-year-old Channelization ( ) < 10-year-old Channelization ( ) Concrete Channel

Mean Stream Width (m)	Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
1.5-2m					

Sampling Description

Sampling Type (check one): ( ) CPE ( ) Depletion ( ) Mark-Recapture ( ) Other - Specify: _____

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
100 m	11:14	11:53

Type of Pass (check one): ( ) Upstream Only ( ) Upstream, then Downstream ( ) Other - Specify:

Gear Description

Gear (Indicate number of each type used): Number of Anodes per Unit

1 Backpack Shockers _____ Stream Shockers _____ Mini-Boom Shockers

Current Type:	Volts	Amps	Rate	Duty
( ) AC ( ) DC (•) DCP	200	0.6-1	80	20

# of Dippers	Dip Net Mesh Size (inches) and Type (bar, Ace, Delta, etc.)
1	1/8" heavy delta

Person(s) Who Collected Data (Full Names)

Nelson, Doerr

Comments / Notes (continue on the back of this sheet if necessary)

- Shocked for possible trout reclass. Follow up to shocking to Hwy H Fish Passage
- Substrate: Mainly Gravel w/ sand + some cobble mixed in
- Recent logging on either side of valley

BKT				BNT			SPECIES RBT			COH		SCULP	
Length	weight	lice	YOY	Length	weight	YOY	Length	weight	YOY	Length	weig.	length	wem.
5.6	88	N	2.9			2.5 (M)			1.5	3.Φ	4	3.7	11
6.3	29	N	2.3			2.3 (M)			1.1	3.2	4	3.6	11
5.4	30	N	2.4			2.7			1.4	3.1	4	2.8	4
5.3	34	N				2.7			1.4	2.7	3	2.6	3.5
5.3	31	N				2.6			1.1	2.9	4	1.8	1
6.7	33	N				2.4 (M)			1.6			2.7	4.5
3.Φ	5	N				2.1			1.5			2.8	5
3.5	1.5	N				2.Φ			1.2			2.6	3
.						.			1.4			1.8	1
.						.			1.6			2.Φ	1.5
									1.5			+27	
									1.4				
									1.2				
									1.5				
									1.5				
									1.4				
									1.9				
									1.6				
									1.5			Creek	Chub
									1.5			length	
									1.4			4.9	
									1.5			4.4	
									1.3			4.5	
									1.8			3.Φ	
									1.2			2.3	
									+3Φ			3.6	
									+16			2.2	
									2.2 Max length				

Gill Lice
N = No
L = Light

(M) - Mort - Fish are in good condition

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name		Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR 2-2a - 2 o'clock	T48N R10W	N/A		

Date (MMDDYYYY)	Station Name
9 15 2020	DOWNSTREAM FROM CTH H, REMOTE SITE 0.21 MILES WEST OF ROAD

Latitude - Longitude Determination Method Used	Datum Used
GPS - GARMIN GPSMAP 78	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.59010	W-91.57858	N46.59059	W-91.57771	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		60 °F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☑ Normal ☐ Below: _____(m) ☐ Above: _____(m)	☐ Clear ☐ Turbid ☒ Stained SLIGHT

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
ESTIMATED 1.5 - 2 m	100 m

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
0				

Comments / Notes

ELECTROFISHED FOR TROUT STREAM RE-CLASS, FOUND PREVIOUSLY UNDOCUMENTED TROUT & SALMON POPULATION @ CTH H CROSSING

SMALL TRIB TO BRULE RIVER, RUNS THROUGH CONIFER AND ALDER WOODED VALLEY. SUBSTRATE PRIMARILY GRAVEL AND SAND. FISH COVER PROVIDED BY LARGE WOODY DEBRIS

HABITAT ASSESSMENT COMPLETED USING NOTES FROM FISH SURVEY, AERIAL PHOTOS AND RECOLLECTION OF STREAM CHANNEL, INSTREAM COVER, AND RIPARIAN AREA

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) RECENT LOGGING ON UPLANDS, BUT VALLEY PROTECTED (15)	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) 10	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	15
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil 15	Limited erosion; 0.20 - 0.50 m of bank is bare soil (10)	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	10
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 7	Pools present, but either rare or overly dominant, few other habitats present; (10 to 29%) or 71 to 90% of station (3)	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station 0	3
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 (5)	Stream relatively wide and shallow; width/depth > 25 0	5
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 15	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 (10)	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 5	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	10
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed PRIMARILY GRAVEL (10)	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% 5	Fines extensive in all habitats; > 60% of stream bed covered 0	10
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream 10	Occasional cover, limited to one or two areas; 5 - 9% of stream COVER IS LWD. (5)	Cover rare or absent; limited to < 5% of stream 0	5
				Total Score	58

Trout Stream Classification Checklist (revised 2/2016)

(This completed checklist should accompany any trout stream classification changes. Check the items as appropriate and attach comments if desired.)

Stream name: Unnamed Creek 2-4 (T47N R10W)

County: Douglas WBIC: 2862390

Define the portion of the stream to be classified. Please provide both a written description and the coordinate locations of the upstream and downstream beginning and end points.

Unnamed Creek 2-4 (T47N R10W S1 to T47N R10W S2), Town of Brule; 0.44 mile beginning at the confluence with the Bois Brule River upstream to the headwaters, approximately 0.30 mile northeast of County Highway H.

This written description should reference permanent, unambiguous landmarks that would allow a person unfamiliar with the area to locate the points (e.g., dams, road crossings, stream confluences, county lines, section lines, township lines)

Upstream point coordinates: 46.58407° N; -91.57054° W
Downstream point coordinates: 46.58242° N; - 91.57891° W
Classification proposed: I

X Fish survey (including relative abundance, length distribution, and age structure) and habitat survey completed on water to be classified. Survey on file at DNR Superior paper files, Superior network electronic files, Fisheries Management Database (query WBIC)

X Fish team supervisor and district fisheries supervisor have approved the classification. Date: 09/28/2020

X Fish Biologist has consulted with the following staff in their office or district

X Permit Drafter: Eric de Venecia, 9/25/2020 Concerns Yes (No)

X Water Resource Specialist: John Kleist, 10/3/2020 Concerns Yes (No)

X Water Management Specialist: Jenny Murphy, 10/3/2020 Concerns Yes (No)

X Water Management Specialist: Dan Harrington, 10/15/2020 Concerns Yes (No)

X Drinking and Groundwater staff: Christian Martinez, 10/3/2020 Concerns Yes (No)

X Public notice published in local newspaper or other media. 10/9/2020

X Notice sent to all clerks of the county, town, city, or village in which the stream is located. 10/8/2020

X Notice sent to legislators in the affected districts. 10/8/2020

X Notice sent to chairpersons of legislative committees with jurisdiction for natural resources issues. 10/8/2020

X No hearing requested 30 days after public notice.

N/A Hearing requested, held, and classification recommended. Date: N/A

Signed: Paul Pisyack Date: 12/1/2020
Fisheries Biologist

Approved: Date: 01 Dec 2020
Fish Team Supervisor

Brad Eggold Date: 01 Dec 2020
District Fisheries Supervisor

If found, return to:
State of Wisconsin
Department of Natural Resources
1701 N 4th St, Superior, WI 54880

Instructions: Bold fields must be completed.

Wadable Stream Fish Assessment

Form 3600-230 (R 7/15)

FH Database Management:
Entered:
Proofed:

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
Unnamed trib to 4 T47N R10W	2862390		

Date (MMDDYYY)	Station Name
07 16 2020	U/S of Hwy H

Latitude - Longitude Determination Method Used	Datum Used
GPS - GARMIN GPSMAP 78	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N 46.58330	W091.57431	N 46.58371	W091.57385	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		60 F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	◯ Normal ◯ Below: _____ (m) ◯ Above: _____ (m)	✓ Clear ◯ Turbid ◯ Stained

Channel and Basin Characteristics

Channel Condition: (check one) ⊗ Natural ◯ > 20-year-old Channelization ◯ 10- to 20-year-old Channelization ◯ < 10-year-old Channelization ◯ Concrete Channel

Mean Stream Width (m)	Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)

Sampling Description

Sampling Type (check one): ⊗ CPE ◯ Depletion ◯ Mark-Recapture ◯ Other - Specify: _____

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
100m	1425	15:01

Type of Pass (check one): ◯ Upstream Only ◯ Upstream, then Downstream ◯ Other - Specify:

Gear Description

Gear (indicate number of each type used): Number of Anodes per Unit

_____ Backpack Shockers _____ Stream Shockers _____ Mini-Boom Shockers

Current Type:	Volts	Amps	Rate	Duty
◯ AC ◯ DC ◯ PPCP	175	0.70	80	20

# of Dippers	Dip Net Mesh Size (Inches) and Type (bar, Ace, Delta, etc.)
1	1/8" heavy delta

Person(s) Who Collected Data (Full Names)

Doerr, Nelson

Comments / Notes (continue on the back of this sheet if necessary)

- Drains to Brule on Scott Vee property
- Culvert - inlet Perched
- Community - Brook Trout + Sculpin
- Substrate - Mix gravel + cobble w/ some boulder fields
- two large drops/gradient breaks through Boulders
  - 1st N46.58362 W091.57392
  - 2nd - N 46.58373 W091.57363
- Shocking effecency fair due to cobble substrate
- seemed that fish abundance decreased as moved up stream, maybe due to gradient breaks
- Channel Not deeply incised & riparian highly vegetated
- Several small tribs/ground water seeps entering

BKT					Sculpin		SPECIES								
Length	Weight	Lice	YOY	lice	Length	Weight									
7.1"	6.7	L	1.4 (M)		3.7	11.0									
4.10	18	N	2.1		3.7	9.0									
5.2	28	L	2.3		1.5	0.25									
4.8	19	N	1.3		2.1	2.0									
5.4	23.5	L	2.3		1.5	0.25									
6.4	46	L	1.8		1.7	0.5									
6.9	38	L	2.3		1.7	0.0									
.			1.7		1.7	0.75									
.			2.5		1.5	0.25									
.			1.1		2.0	1.0									
			2.3	Light											
			2.3												
			2.4												
			1.6												
			2.3												
			2.2												
			2.3												
			2.1												
			2.3												
			2.4												
			2.0												
			2.0												
			2.3												
			2.0 (M)												
			1.7												
			IIII	Total YOY BKT											
			(M)=1												

(M) - Mort

Gill Lice
N = None
L = Light

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name		Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR 2-4	T47N R10W	2862390		

Date (MMDDYYYY)	Station Name
9 15 2020	U/S FROM CTH H

Latitude - Longitude Determination Method Used	Datum Used
GPS · BARMIN GPSMAP 78	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.58330	W-91.57431	N46.58371	W-91.57335	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		60 F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☒ Normal ☐ Below: _____ (m) ☐ Above: _____ (m)	☒ Clear ☐ Turbid ☐ Stained

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
	100 m

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
0				

Comments / Notes

SMALL TRIB TO BRULE RIVER, FAIRLY HIGH GRADIENT, SAND, GRAVEL, AND COBBLE WITH SOME BOULDER GRADIENT REACHES. MINIMAL POTENTIAL FOR EROSION, FORESTED RIPARIAN AREA WITH FOREST FLOOR COVERED BY CARPET OF SPHAGNUM MOSS.

HABITAT ASSESSMENT DONE USING NOTES FROM FISH SURVEY, AERIAL PHOTOS AND RECOLLECTION OF STREAM CHANNEL, INSTREAM COVER, AND RIPARIAN AREA.

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) CONIFER UPLAND, HEAVY MOSS COVER ON FOREST FLOOR (15)	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) 10	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	15
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil 15	Limited erosion; 0.20 - 0.50 m of bank is bare soil (10)	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	10
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 7	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station (3)	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station 0	3
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 (5)	Stream relatively wide and shallow; width/depth > 25 0	5
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 15	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 VERY [illegible] GRADIENT (10)	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 5	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	10
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed MAINLY GRAVEL & COBBLE (10)	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% 5	Fines extensive in all habitats; > 60% of stream bed covered 0	10
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream 10	Occasional cover, limited to one or two areas; 5 - 9% of stream LOG OR [illegible] (5)	Cover rare or absent; limited to < 5% of stream 0	5
				Total Score	58

If found, return to:
State of Wisconsin
Department of Natural Resources
1701 N 4th St, Superior, WI 54880

Wadable Stream Fish Assessment

Form 3600-230 (R 7/16)

FH Database Management:
Entered:
Proofed:

Instructions: Bold fields must be completed.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN TRIB TO 2-4 T47N R10W	2862390		

Date (MMDDYYY)	Station Name
07162020	D/S FROM CTH H

Latitude - Longitude Determination Method Used: GPS - GARMIN GPSMAP 78 | Datum Used: WGS84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.58308	W091.57543	N46.58331	W091.57448	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		60F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec):

Water Level (check one - measure distance if Above or Below Normal): (✓) Normal ( ) Below: _____ (m) ( ) Above: _____ (m)

Water Clarity: (✓) Clear ( ) Turbid ( ) Stained

Channel and Basin Characteristics

Channel Condition (check one): (✓) Natural ( ) > 20-year-old Channelization ( ) 10- to 20-year-old Channelization ( ) < 10-year-old Channelization ( ) Concrete Channel

Mean Stream Width (m)	Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)

Sampling Description

Sampling Type (check one): (✓) CPE ( ) Depletion ( ) Mark-Recapture ( ) Other - Specify: _____

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
100m	1155	1244

Type of Pass (check one): (✓) Upstream Only ( ) Upstream, then Downstream ( ) Other - Specify:

Gear Description

Gear (Indicate number of each type used): 1 Backpack Shockers _____ Stream Shockers _____ Mini-Boom Shockers

Number of Anodes per Unit

Current Type:	Volts	Amps	Rate	Duty
( ) AC ( ) DC (✓) PCP	175	0.70	80	20

# of Dippers	Dip Net Mesh Size (Inches) and Type (bar, Ace, Delta, etc.)
1	1/8 Heavy delta

Person(s) Who Collected Data (Full Names): NELSON, DOERR

Comments / Notes (continue on the back of this sheet if necessary)

* CONFLUENCE W/ BRANCH @ SCOTT VEE'S PROPERTY
- Culvert Perched & cascades over Boulders - ~24" total drop. Also long distance w/ NO Resting area
- Substrate - Predmently gravel

BKT			RBT				BNT			COH			SCULPIN	
Length	weight	lice	YOY	Length	weight	YOY	Length	weight	YOY	Length	weigh		length	weight
7.3	6.8.Φ	N	2.5 (M)	3.3	5.Φ	1.2	4.5	1.6	2.Φ	2.8	3.5		3.Φ	5.Φ
8.8	130.Φ	L	2.6 (M)	4.Φ	1Φ.Φ	.	4.4	13.Φ	2.3	2.8	3.Φ		2.9	5.5
5.4	—	—	2.5 N	2.9	4.Φ	.	5.3	25.Φ	2.1	3.Φ	5.Φ		1.6	1.Φ (M)
8.4	114.Φ	N	1.9	2.8	4.Φ		4.1	12.Φ	[illegible]	2.6	2.Φ		2.6	3.Φ
5.7	33.Φ	N	2.3 (M) N	4.1	12.5		5.2	24.Φ	2.4	3.1	5.Φ		2.1	1.Φ
8.16	108.Φ	L	2.Φ N	5.7	35Φ		4.0	11.Φ	2.1 (M)	2.7	3.Φ		2.3	2.Φ
5.8	40.Φ	N	2.8	3.2	5.Φ		4.9	21.Φ	2.1	2.6	2.Φ		2.3	2.Φ
16.4	58.Φ	N	2.1 (M) N	3.6	8.Φ		.		2.7	2.8	3.Φ		1.6	Φ.5
4.16	17.Φ	N	1.6	4.1	12.Φ		.		2.4 (M)	2.4	2.Φ		1.8	1.Φ
5.2	26.Φ	N	2.9 N	4.Φ	1Φ.Φ		.		1.8	2.5	2.Φ		1.7	Φ.5
2.8	35.Φ	L	2.2	3.3	6.Φ		.		1.9 (M)	2.8	3.Φ			+2 +3Φ
6.1	—	N	2.Φ L	2.8	3.Φ		.		1.9 (M)	2.7	2.5			+3Φ +5
5.4	25.Φ	N	2.Φ N	3.8	8.Φ		.		2.0	2.7	2.5			
5.6	28.Φ	N	2.0 L	3.16	7.5		.		2.3	2.8	3.Φ		3.5	8.Φ
5.6	31.Φ	N	2.3 L	3.0	6.Φ		.		1.7	.				
5.3	26.Φ	N	1.16	4.1	12.Φ				1.8	.				
3.0	14.Φ	L	2.16 N	3.16	8.Φ				2.Φ	.				
3.10	8.Φ	N	2.7 L	3.8	10.Φ				2.Φ	.				
4.7	19.Φ	N	1.5 (M) N	3.4	7.Φ				1.9	.				
4.5	15.Φ	N	2.1 N	3.Φ	5.Φ				.	.				
3.Φ	5.Φ	N	2.8 L	3.Φ	5.Φ				.	11			Brook Stickleback	
4.3	11.Φ	N	2.3 L	3.4	—				.				2.Φ	
3.8	7.Φ	L	1.7 N	3.1	5.Φ				.					
3.16	7.Φ	N	1.7 N	.	.				.					
4.1	11.Φ	N	2.Φ N	.	.				.					
3.8	11.Φ	L	IIII IIII							+1				
3.Φ	4.Φ	L	IIII I											
3.Φ		N	(17)											

(M) = Mort

Gill lice

- N = No
- L = Light
- H = Heavy
- Blank = Not checked

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name		Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR 2-4	T47N R10W TRIB TO BRULE R.	2862390		

Date (MMDDYYYY)	Station Name
9/15/2020	D/S FROM CTH H

Latitude - Longitude Determination Method Used	Datum Used
GPS - GARMIN GPSMAP 78	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.58308	W-91.57543	N46.58331	W-91.57448	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		60°F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☒ Normal ☐ Below: _____ (m) ☐ Above: _____ (m)	☒ Clear ☐ Turbid ☐ Stained

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
ESTIMATED - 2m	100 m

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
0				

Comments / Notes

SMALL TRIB TO BRULE RIVER, FARM LAND, WELL DEVELOPED RIFFLE/RUN/POOL MORPHOLOGY, COVER PROVIDED BY LARGE WOOD AND UNDER CUT BANKS, ADULT TROUT USING POOLS. SUBSTRATE A MIX OF GRAVEL, SAND, & COBBLE. RUNS THROUGH MIXED CONIFER / HARDWOOD FOREST. CULVERT OUTLET PERCHED

HABITAT ASSESSMENT DONE USING NOTES FROM FISH SURVEY, AERIAL PHOTOS AND RECOLLECTION OF STREAM CHANNEL, INSTREAM COVER, AND RIPARIAN AREA.

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) (15)	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) 10	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	15
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil 15	Limited erosion; 0.20 - 0.50 m of bank is bare soil (10)	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	10
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station * INCLUDES SCOUR POOL @ CULVERT (7)	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station 3	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station 0	7
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 (10)	Stream moderately deep and narrow; width/depth 16-25 5	Stream relatively wide and shallow; width/depth > 25 0	10
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 GOOD RIFFLE, RUN, POOL COMPLEX (15)	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 10	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 5	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	15
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed MANY GRAVEL (10)	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% 5	Fines extensive in all habitats; > 60% of stream bed covered 0	10
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream LWD, UNDERCUT (10)	Occasional cover, limited to one or two areas; 5 - 9% of stream 5	Cover rare or absent; limited to < 5% of stream 0	10
				Total Score	77

Trout Stream Classification Checklist (revised 2/2016)

(This completed checklist should accompany any trout stream classification changes. Check the items as appropriate and attach comments if desired.)

Stream name: Unnamed Creek 11-1 (T47N R10W)

County: Douglas WBIC: 2862700

Define the portion of the stream to be classified. Please provide both a written description and the coordinate locations of the upstream and downstream beginning and end points.

Unnamed Creek 11-1 (T47N R10W S1 to T47N R10W S2, and T47N R10W S11), Town of Brule; 0.72 mile beginning at the confluence with Rocky Run, approximately 0.21 mile west-southwest of the intersection of County Highway Y and Carlson Road, upstream to the headwaters that are approximately 0.07 mile north of Carlson Road.

This written description should reference permanent, unambiguous landmarks that would allow a person unfamiliar with the area to locate the points (e.g., dams, road crossings, stream confluences, county lines, section lines, township lines)

Upstream point coordinates: 46.57582° N, -91.56653° W
Downstream point coordinates: 46.57439° N, -91.57890° W
Classification proposed: I

X Fish survey (including relative abundance, length distribution, and age structure) and habitat survey completed on water to be classified. Survey on file at DNR Superior paper files, Superior network electronic files, Fisheries Management Database (query WBIC)

X Fish team supervisor and district fisheries supervisor have approved the classification. Date: 09/28/2020

X Fish Biologist has consulted with the following staff in their office or district

X	Permit Drafter: Eric de Venecia, 9/25/2020	Concerns	Yes	(No)
X	Water Resource Specialist: John Kleist, 10/3/2020	Concerns	Yes	(No)
X	Water Management Specialist: Jenny Murphy, 10/3/2020	Concerns	Yes	(No)
X	Water Management Specialist: Dan Harrington, 10/15/2020	Concerns	Yes	(No)
X	Drinking and Groundwater staff: Christian Martinez, 10/3/2020	Concerns	Yes	(No)

X Public notice published in local newspaper or other media. 10/9/2020

X Notice sent to all clerks of the county, town, city, or village in which the stream is located. 10/8/2020

X Notice sent to legislators in the affected districts. 10/8/2020

X Notice sent to chairpersons of legislative committees with jurisdiction for natural resources issues. 10/8/2020

X No hearing requested 30 days after public notice.

N/A Hearing requested, held, and classification recommended. Date: N/A

Signed: Paul Pisyack Date: 12/1/2020

Fisheries Biologist

Approved: Date: 01 Dec 2020

Fish Team Supervisor

Brad Eggold Date: 01 Dec 2020

District Fisheries Supervisor

DATA ENTERED C. LUNDEEN 11/23/2016
DATA PROOFED P. PISCZEK 12/5/2016

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Wadable Stream Fish Assessment

Form 3600-230 (R 6/07)

Instructions: Bold fields must be completed.

Station Summary

Stream Name		Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR - 1 - 1	TRIB TO ROCK R. 111	2867700	10047351	1356288394

Date (MMDDYYYY)	Station Name
07 26 2016	U/S FROM CTH H

Latitude - Longitude Determination Method Used	Datum Used
GPS	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.57549	W-91.57438	N46.57514	W-91.57325	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		60°F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☒ Normal ☐ Below: _____ (m) ☐ Above: _____ (m)	☒ Clear ☐ Turbid ☐ Stained

Channel and Basin Characteristics

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Mean Stream Width (m)	Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
VISUAL EST 1.0m					

Sampling Description

Sampling Type (check one):
☒ CPE FSM Comm ☐ Depletion ☐ Mark-Recapture ☐ Other - Specify: _____

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
100	12:44	13:15

Type of Pass (check one):
☒ Upstream Only ☐ Upstream, then Downstream ☐ Other - Specify: _____

Gear Description

Gear (indicate number of each type used): 1 Backpack Shockers ____ Stream Shockers ____ Mini-Boom Shockers

Number of Anodes per Unit: 1

Current Type:	Volts	Amps	Pulse Rate	Duty Cycle
☐ AC ☐ DC ☒ DCP	250	1.1	80	20

Person(s) Who Collected Data (Full Names)
AARON NELSON, CONNER LUNDEEN, PAUL PISCZEK

Comments / Notes (continue on the back of this sheet if necessary)

* TOUGH TO SHOCK, WATER RUNS THROUGH ROCK/BOULDER RIFFLES - MISSED SEVERAL FISH IN THESE SECTIONS

	SPECIES													
	BROOK TROUT	WT (g)	BROWN TROUT	WT (g)	RAINBOW TROUT	WT (g)	COHO	WT (g)	SCULPIN	WT (g)				
L	2.2	—	3.2	6	3.7	—	3.2	5	3.0	5				
—	2.1	—	6.6	48	3.7	10	2.4	—						
—	2.3	—	5.3	24			2.7	—						
V	6.5	52	4.5	16	(2)		2.7	—						
V	5.3	23	6.1	33			2.9	—						
N	5.0	22	5.8	28										
L	5.1	29	2.1				(5)							
L	4.4	15	(6)											
L	5.1	20												
N	4.2	14												
L	4.8	17												
—	2.4	—												
N	3.3	6												
—	2.7	—												
—	2.5	—												
—	2.2	—												
—	2.4	—												
—	2.1	—												
—	2.4	—												
—	2.2	—												
—	2.2	—												
—	2.3	—												
	(22)													

State of Wisconsin
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Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name			Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR 11-1	T47N R10W	TRIB TO ROCKY RUN	28627700		

Date (MMDDYYYY)	Station Name
9/15/2020	U/S FROM CTH H

Latitude - Longitude Determination Method Used: GPS - GARMIN GPSMAP 78 | Datum Used: NAD-83

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.57549	W-91.57438	N46.57514	W-91.57325	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		60 F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec):

Water Level (check one - measure distance if Above or Below Normal): [X] Normal [ ] Below: _____ (m) [ ] Above: _____ (m)

Water Clarity: [X] Clear [ ] Turbid [ ] Stained

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
ESTIMATED ~ 1.0m	100

Channel Condition: (check one) [X] Natural [ ] > 20-year-old Channelization [ ] 10- to 20-year-old Channelization [ ] < 10-year-old Channelization [ ] Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
0				

Comments / Notes

SMALL TRIBUTARY TO ROCKY RUN. PARALLELS CARLSON ROAD, WOODED RIPARIAN CORRIDOR, STREAM CHANNEL RELATIVELY WIDE, MAINLY SAND AND GRAVEL WITH SOME COBBLE PRESENT. HABITAT PROVIDED BY WOOD DEBRIS, NO MAJOR POOLS IN STATION.

HABITAT ASSESSMENT DONE USING NOTES FROM FISH SURVEY, AERIAL PHOTOS, AND RECOLLECTION OF STREAM. CHANNEL, IN-STREAM COVER AND RIPARIAN AREA

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) DOES PARALLEL CARLSON RD, BUT ENOUGH BUFFER B/W ROAD & CREEK 15	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) 10	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	15
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil 15	Limited erosion; 0.20 - 0.50 m of bank is bare soil (10)	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	10
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 7	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station 3	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station MAINLY RIFFLE/RUN (0)	0
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 (5)	Stream relatively wide and shallow; width/depth > 25 0	5
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 15	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 (10)	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 5	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	10
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed (10)	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% 5	Fines extensive in all habitats; > 60% of stream bed covered 0	10
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream 10	Occasional cover, limited to one or two areas; 5 - 9% of stream SOME LWD, (5)	Cover rare or absent; limited to < 5% of stream 0	5
		SHALLOW CHANNEL MAY NOT MEET CRITERIA FOR 0.20 m WATER DEPTH		Total Score	55

Trout Stream Classification Checklist (revised 2/2016)

(This completed checklist should accompany any trout stream classification changes. Check the items as appropriate and attach comments if desired.)

Stream name: Unnamed Creek 12-4 (T47N R10W)

County: Douglas WBIC: None Assigned

Define the portion of the stream to be classified. Please provide both a written description and the coordinate locations of the upstream and downstream beginning and end points.

Unnamed Creek 12-4 (T47N R10W S12), Town of Brule; 0.28 mile beginning at the confluence with Rocky Run, approximately 0.27 mile south of where Rocky Run crosses Carlson Road, upstream to County Line Road, approximately 0.23 mile south of the intersection with Carlson Road.

This written description should reference permanent, unambiguous landmarks that would allow a person unfamiliar with the area to locate the points (e.g., dams, road crossings, stream confluences, county lines, section lines, township lines)

Upstream point coordinates: 46.57133° N, -91.55352° W
Downstream point coordinates: 46.57098° N, -91.55771° W
Classification proposed: I

X Fish survey (including relative abundance, length distribution, and age structure) and habitat survey completed on water to be classified. Survey on file at DNR Superior paper files, Superior network electronic files, Fisheries Management Database (query WBIC)

X Fish team supervisor and district fisheries supervisor have approved the classification. Date: 09/28/2020

X Fish Biologist has consulted with the following staff in their office or district

X	Permit Drafter: Eric de Venecia, 9/25/2020	Concerns Yes	(No)
X	Water Resource Specialist: John Kleist, 10/3/2020	Concerns Yes	(No)
X	Water Management Specialist: Jenny Murphy, 10/3/2020	Concerns Yes	(No)
X	Water Management Specialist: Dan Harrington, 10/15/2020	Concerns Yes	(No)
X	Drinking and Groundwater staff: Christian Martinez, 10/3/2020	Concerns Yes	(No)

X Public notice published in local newspaper or other media. 10/9/2020

X Notice sent to all clerks of the county, town, city, or village in which the stream is located. 10/8/2020

X Notice sent to legislators in the affected districts. 10/8/2020

X Notice sent to chairpersons of legislative committees with jurisdiction for natural resources issues. 10/8/2020

X No hearing requested 30 days after public notice.

N/A Hearing requested, held, and classification recommended. Date: N/A

Signed: Paul Pisiak Date: 12/1/2020

Fisheries Biologist

Approved: Date: 01 Dec 2020

Fish Team Supervisor

Brad Eggold Date: 01 Dec 2020

District Fisheries Supervisor

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Wadable Stream Fish Assessment

Form 3600-230 (R 6/07)

Instructions: Bold fields must be completed.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
Unnamed trib to Rocky (12-4) - see GPS Coords			

Date (MMDDYYYY)	Station Name
07/28/16	Downstream from County Line Rd.

Latitude - Longitude Determination Method Used	Datum Used
Hand held GPS	WGS-84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
46.57126	91.55531	46.57137	91.55428	Bayfield

Water Characteristics

Time (24-hr clock)	Air Temperature (°F)	Water Temperature (°F)	Conductivity (µs/cm)	Transparency (cm)
10:00	75°	50°		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☒ Normal ☐ Below: _____(m) ☐ Above: _____(m)	☒ Clear ☐ Turbid ☐ Stained

Channel and Basin Characteristics

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Mean Stream Width (m)	Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
< 3 m					

Sampling Description

Sampling Type (check one): ☒ CPE ☐ Depletion ☐ Mark-Recapture ☐ Other - Specify: _____

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
100		

Type of Pass (check one): ☒ Upstream Only ☐ Upstream, then Downstream ☐ Other - Specify: _____

Gear Description

Gear (indicate number of each type used): 1 Backpack Shockers ____ Stream Shockers ____ Mini-Boom Shockers

Number of Anodes per Unit: 1

Current Type:	Volts	Amps	Pulse Rate	Duty Cycle
☐ AC ☐ DC ☒ DCP	250	1-2	80	0.20

Person(s) Who Collected Data (Full Names)

Olson, Lundeen

Comments / Notes (continue on the back of this sheet if necessary)

Total shock time: 19:37

END OF STATION 16m UST CONFLUENCE w/ UNNCR 12-1

TL = Total length (inches)
Wt = Weight (grams)
* 3.6 sculpin taken for voucher *
# Gill lice only examined in age 1 and older

Gill lice

G.L.	Brk Tr (TL)	Brk Tr (Wt)	Coho (TL)	Coho (Wt)	Brk stickle (TL)	Unk. sculpin (TL)
—	2.1	—	3.2	5	2.2	2.1
—	1.5	—			2.0	2.8
No	4.5	17	(1)		2.0	3.6
Light	3.8	8			1.9	1.7
—	1.8	—			2.1	1.9
—	2.2	—			1.9	1.9
—	2.0	—			2.2	1.9
—	1.9	—				2.0
Light	6.7	53			(1)	1.9
Light	5.9	31				1.7
—	2.1	—				1.9
Light	4.5	17				1.7
—	2.2	—				2.0
Mod	5.2	2.3				1.9
None	4.1	11				
Light	4.2	12				(9)
—	2.1	—				
—	2.0	—				
—	1.9	—				
—	5.7	30				
—	1.7	—				
None	4.5	13				
Light	4.8	13				
None	3.7	9				
None	5.0	20				
—	2.4	—				
—	2.0	—				
—	2.0	—				
(28)						

SPECIES

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR 12-4 T47N R10W TRIB TO ROCKY RUN			

Date (MMDDYYYY)	Station Name
9/15/2010	D/S FROM COUNTY LINE RD.

Latitude - Longitude Determination Method Used: GPS - GARMIN GPSMAP 78 | Datum Used: WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.57126	W-91.55531	N46.57137	W-91.55428	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		50		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec):

Water Level (check one - measure distance if Above or Below Normal): [X] Normal [ ] Below: _____ (m) [ ] Above: _____ (m)

Water Clarity: [X] Clear [ ] Turbid [ ] Stained

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
ESTIMATED 2.0 - 2.5 M	100

Channel Condition: (check one) [X] Natural [ ] > 20-year-old Channelization [ ] 10- to 20-year-old Channelization [ ] < 10-year-old Channelization [ ] Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
0				

Comments / Notes

SPRING FED TRIB TO ROCKY RUN, RUNS THROUGH BEAVER MEADOW (GRASS / ALDER), PREDOMINATELY SAND, SILT & DETRITUS BOTTOM, SOME AQUATIC VEGETATION REMAINING FROM BEAVER POND, BUT INSTREAM HABITAT PRIMARILY WOODY DEBRIS AND UNDERCUT BANKS

HABITAT ASSESSMENT DONE USING NOTES FROM FISH SURVEY, AERIAL PHOTOS AND RECOLLECTION OF STREAM CHANNEL, INSTREAM COVER, AND RIPARIAN AREA

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) RUNS THROUGH GRASS MEADOW, OLD BEAVER POND. (15)	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) 10	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	15
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil 15	Limited erosion; 0.20 - 0.50 m of bank is bare soil BANK EROSION FROM BEAVER POND ELEVATION (10) DROPPING	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	10
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 7	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station 3	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station MAINLY RUN HABITAT (0)	0
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 BENDS PROVIDE SOME (5) DEPTH	Stream relatively wide and shallow; width/depth > 25 0	5
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 15	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 10	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 NO RIFFLES, 4 BENDS (5)	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	5
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed 10	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% 5	Fines extensive in all habitats; > 60% of stream bed covered PREDOMINATELY SAND & SILT + WOODY DEBRIS. (0)	0
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream 10	Occasional cover, limited to one or two areas; 5 - 9% of stream 5	Cover rare or absent; limited to < 5% of stream EITHER TOO SHALLOW OR INSUFFICIENT DEPTH (0)	0
				SOME UNDER CUT BANKS OR LARGE WOOD. Total Score	35

Trout Stream Classification Checklist (revised 2/2016)

(This completed checklist should accompany any trout stream classification changes. Check the items as appropriate and attach comments if desired.)

Stream name: Unnamed Creek 12-1 (T47N R10W)

County: Douglas WBIC: None Assigned

Define the portion of the stream to be classified. Please provide both a written description and the coordinate locations of the upstream and downstream beginning and end points.

Unnamed Creek 12-1 (T47N R10W S12), Town of Brule; 0.13 mile from the confluence with Unnamed Creek 12-4 (T47N R10W S12) upstream to County Line Road, approximately 0.28 mile south of the intersection with Carlson Road.

This written description should reference permanent, unambiguous landmarks that would allow a person unfamiliar with the area to locate the points (e.g., dams, road crossings, stream confluences, county lines, section lines, township lines)

Upstream point coordinates: 46.57049° N, -91.55352° W
Downstream point coordinates: 46.57114° N, -91.55538° W
Classification proposed: I

X Fish survey (including relative abundance, length distribution, and age structure) and habitat survey completed on water to be classified. Survey on file at DNR Superior paper files, Superior network electronic files, Fisheries Management Database (query WBIC)

X Fish team supervisor and district fisheries supervisor have approved the classification. Date: 09/28/2020

X Fish Biologist has consulted with the following staff in their office or district

X	Permit Drafter: Eric de Venecia, 9/25/2020	Concerns	Yes	(No)
X	Water Resource Specialist: John Kleist, 10/3/2020	Concerns	Yes	(No)
X	Water Management Specialist: Jenny Murphy, 10/3/2020	Concerns	Yes	(No)
X	Water Management Specialist: Dan Harrington, 10/15/2020	Concerns	Yes	(No)
X	Drinking and Groundwater staff: Christian Martinez, 10/3/2020	Concerns	Yes	(No)

X Public notice published in local newspaper or other media. 10/9/2020

X Notice sent to all clerks of the county, town, city, or village in which the stream is located. 10/8/2020

X Notice sent to legislators in the affected districts. 10/8/2020

X Notice sent to chairpersons of legislative committees with jurisdiction for natural resources issues. 10/8/2020

X No hearing requested 30 days after public notice.

N/A Hearing requested, held, and classification recommended. Date: N/A

Signed: Paul Pisyack Date: 12/1/2020

Fisheries Biologist

Approved: Date: 01 Dec 2020

Fish Team Supervisor

Brad Eggold Date: 01 Dec 2020

District Fisheries Supervisor

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Wadable Stream Fish Assessment

Form 3600-230 (R 6/07)

Instructions: Bold fields must be completed.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
Unnamed trib to Rocky Run (124)			

Date (MMDDYYYY)	Station Name
7/28/2016	DOWN STREAM FROM COUNTY LINE RD

Latitude - Longitude Determination Method Used	Datum Used
Hand held GPS	WGS-84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
46.57101	91.55456	46.57058	91.55380	Douglas

Water Characteristics

Time (24-hr clock)	Air Temperature ~~(C)~~ F	Water Temperature ~~(C)~~ F	Conductivity (µs/cm)	Transparency (cm)
10:30	75°	52°		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☒ Normal ☐ Below: _____ (m) ☐ Above: _____ (m)	☐ Clear ☐ Turbid ☐ Stained

Channel and Basin Characteristics

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Mean Stream Width (m)	Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
0.83	0				

Sampling Description

Sampling Type (check one): ☒ CPE ☐ Depletion ☐ Mark-Recapture ☐ Other - Specify: _____

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
102		

Type of Pass (check one): ☒ Upstream Only ☐ Upstream, then Downstream ☐ Other - Specify: _____

Gear Description

Gear (indicate number of each type used): 1 Backpack Shockers ____ Stream Shockers ____ Mini-Boom Shockers

Number of Anodes per Unit: 1

Current Type:	Volts	Amps	Pulse Rate	Duty Cycle
☐ AC ☐ DC ☒ PCP	200	0.9	80	0.20

Person(s) Who Collected Data (Full Names)

Olson, Lundeen

Comments / Notes (continue on the back of this sheet if necessary)

* Total shock time:

20:31

1.5

3 | 2.5 = 0.83

~~* End Station 16 m UST confluence with Unnamed Trib DST of County Line Rd~~

*(M) = Mortality

BrkT (TL)	BrkT (Wt)	BrkT B.L.	Coho (TL)	Coho (Wt)	Coho (M)	Brk. Stickle
4.9	17	Light	3.5	7	(M)	2.1
5.3	27	Light	2.9	—	(M)	(1)
1.1	—	—	3.3	6		2.0
4.2	13	None	3.1	5		
2.1	—	—	2.9	—		
4.4	14	Light	3.1	6		
2.1	—	—	3.4	7		
2.0	—	—	3.0	4.0		
			2.8	—		
			3.3	6		

SPECIES

State of Wisconsin
Department of Natural Resources
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Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR 12-1 T47N R10W TRIB TO ROCKY RUN			

Date (MMDDYYYY)	Station Name
9/15/2020	D/S FROM COUNTY LINE RD.

Latitude - Longitude Determination Method Used	Datum Used
GPS - GARMIN GPSMAP 78	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.57101	W91.55456	N46.57058	W-91.55380	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		52F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☒ Normal ☐ Below: _____ (m) ☐ Above: _____ (m)	☒ Clear ☐ Turbid ☐ Stained

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
1.83	102

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
0				

Comments / Notes

SMALL SPRING FED TRIBUTARY TO CREEK 12-4, RUNS THROUGH BEAVER MEADOW, PREDOMINATELY SAND BOTTOM WITH SMALL WOODY DEBRIS STICKING OUT OF STREAM BED. UPPER REACHES STARTING TO SCOUR DOWN TO GRAVEL BOTTOM.

HABITAT ASSESSMENT DONE USING NOTES FROM FISH SURVEY, AERIAL PHOTOS AND RELOCATION OF STREAM CHANNEL, INSTREAM COVER, AND RIPARIAN AREAS

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) GRASS BORDER MEADOW 15	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) 10	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	15
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil 15	Limited erosion; 0.20 - 0.50 m of bank is bare soil SOME EROSION AS POND ELEVATED POOLS 10	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	10
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 7	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station 3	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station MAINLY RUN HABITAT 0	0
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 5	Stream relatively wide and shallow; width/depth > 25 0	5
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 15	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 10	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 NO RIFFLES 5	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	5
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed 10	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% SOME GRAVEL CLOSER TO ROAD 5	Fines extensive in all habitats; > 60% of stream bed covered 0	5
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream 10	Occasional cover, limited to one or two areas; 5 - 9% of stream 5	Cover rare or absent; limited to < 5% of stream 0	5
				Total Score	45

Trout Stream Classification Checklist (revised 2/2016)

(This completed checklist should accompany any trout stream classification changes. Check the items as appropriate and attach comments if desired.)

Stream name: Unnamed Creek 34-9 (T47N R10W)

County: Douglas WBIC: Not Assigned

Define the portion of the stream to be classified. Please provide both a written description and the coordinate locations of the upstream and downstream beginning and end points.

Unnamed Creek 34-9 (T47N R10W S34), Town of Brule; 0.35 mile from the headwaters to the confluence with Cutler Creek, approximately 0.16 mile east of where Cutler Creek crosses Castle Road.

This written description should reference permanent, unambiguous landmarks that would allow a person unfamiliar with the area to locate the points (e.g., dams, road crossings, stream confluences, county lines, section lines, township lines)

Upstream point coordinates: 46.51230° N, -91.60773° W
Downstream point coordinates: 46.50865° N, -91.60579° W
Classification proposed: I

X Fish survey (including relative abundance, length distribution, and age structure) and habitat survey completed on water to be classified. Survey on file at DNR Superior paper files, Superior network electronic files, Fisheries Management Database (query WBIC)

X Fish team supervisor and district fisheries supervisor have approved the classification. Date: 09/28/2020

X Fish Biologist has consulted with the following staff in their office or district

X	Permit Drafter: Eric de Venecia, 9/25/2020	Concerns	Yes	(No)
X	Water Resource Specialist: John Kleist, 10/3/2020	Concerns	Yes	(No)
X	Water Management Specialist: Jenny Murphy, 10/3/2020	Concerns	Yes	(No)
X	Water Management Specialist: Dan Harrington, 10/15/2020	Concerns	Yes	(No)
X	Drinking and Groundwater staff: Christian Martinez, 10/3/2020	Concerns	Yes	(No)

X Public notice published in local newspaper or other media. 10/9/2020

X Notice sent to all clerks of the county, town, city, or village in which the stream is located. 10/8/2020

X Notice sent to legislators in the affected districts. 10/8/2020

X Notice sent to chairpersons of legislative committees with jurisdiction for natural resources issues. 10/8/2020

X No hearing requested 30 days after public notice.

N/A Hearing requested, held, and classification recommended. Date: N/A

Signed: Paul Pisyasek Date: 12/1/2020

Fisheries Biologist

Approved: Date: 01 Dec 2020

Fish Team Supervisor

Brad Eggold Date: 01 Dec 2020

District Fisheries Supervisor

ELECTROFISHING Data Collection Sheet: CWA - Baseline or Natural Community Reference Stream Monitoring

Waterbody: unn trib to Cutler Creek – CR 34-9
WBIC:
County:
Station Name or Description: U/S from Mouth

Start Lat/Long: 46.50855, -91.60579
End Lat/Lo: N46.50921 W-091.60639
Collectors: DUKE, DOERR, NELSON

Gear(#): 1 *Backpack* Streamshocker
Current Type: [AC] [DC] *[PDC]*
Volts: 175 Pulse Rat 80
Amps: 0.6 Duty Cycl 20
No. of Dippers/Anodes: 2
Survey Type: CPE Mesh Size 1/8"
Weather: SUNNY
Adverse Cond:
Target Fish: *[All species]* [Gamefish]

Sample Date: 8/5/2019
Start Time: 1720
End Time: 1800
Total Time: 40
Distance Shocked: 100 M
Pass Type: *[Up]* [Dn] [Up-Dn
Water Level: [Hi] [Norm]
Clarity: clear
Water Temp:

SPECIES

Comments:

bkt length	bkt weigh	bkt gl	bkt yoy				rbt yoy					
2.7	5	Light	2.5				1.8					
2.9	5	None	2.3									
2.7	3	None	1.5									
3.2	7	Light	2.2									
2.6	3.5	Moderate	2.3									
2.7	3.5	None										
3.3	7	None										
3.8	6.5	Light										
2.6	3.5	Light										
3.4	7	None										

Comments: FISH DISTRIBUTED THROUGH ENTIRE STATION; LOTS OF WOODY DEBRIS -TOUGH TO SHOCK

HEADWATER SPRING @
N46.51213
W-91.60747

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name		Waterbody ID Code	SWIMS Station ID	FH Database ID
VNN CR 34-9	CUTLER CR TRIB			

Date (MMDDYYYY)	Station Name
9/15/2020	U/S FROM CONFLUENCE W/ CUTLER CREEK

Latitude - Longitude Determination Method Used	Datum Used
GPS - GARMIN GPSMAP 78	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.50855	W-91.60579	N46.50921	W-91.60639	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☒ Normal ☐ Below: _____ (m) ☐ Above: _____ (m)	☒ Clear ☐ Turbid ☐ Stained

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
	100

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
0				

Comments / Notes

VERY SMALL TRIB TO CUTLER CREEK, DRAINS CONIFER & ALDER SWAMP. SUBSTRATE PRIMARILY SAND, SILT & DETRITUS. MOSTLY RUN TYPE HABITAT WITH NO WELL DEVELOPED POOLS OR RIFFLES.

HABITAT ASSESSMENT DONE USING NOTES FROM FISH SURVEY, AERIAL PHOTOS AND RECOLLECTION OF STREAM CHANNEL, INSTREAM COVER, AND RIPARIAN AREA.

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) (15)	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) 10	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	15
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil (15)	Limited erosion; 0.20 - 0.50 m of bank is bare soil 10	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	15
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 7	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station 3	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station (0)	0
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 (5)	Stream relatively wide and shallow; width/depth > 25 0	5
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 15	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 10	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 LOW DIVERSITY AND RIFFLES (5)	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	5
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed 10	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% LOTS OF SAND & SILT (5)	Fines extensive in all habitats; > 60% of stream bed covered 0	5
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream 10	Occasional cover, limited to one or two areas; 5 - 9% of stream 5	Cover rare or absent; limited to < 5% of stream SMALL STREAM, SHALLOW, (0)	0
				Total Score	

Trout Stream Classification Checklist (revised 2/2016)

(This completed checklist should accompany any trout stream classification changes. Check the items as appropriate and attach comments if desired.)

Stream name: Unnamed Creek 3-10 (T45N R11W)

County: Douglas WBIC: None

Define the portion of the stream to be classified. Please provide both a written description and the coordinate locations of the upstream and downstream beginning and end points.

Unnamed Creek 3-10 (T456 R11W S3), Town of Solon Springs; 0.35 mile from headwaters downstream to Bois Brule River, approximately 1.2 miles northeast of Rifle Range Road and 0.07 mile south of the Swamp Angel Creek confluence with Bois Brule River.

This written description should reference permanent, unambiguous landmarks that would allow a person unfamiliar with the area to locate the points (e.g., dams, road crossings, stream confluences, county lines, section lines, township lines)

Upstream point coordinates: 91.73890 W, 46.39867 N
Downstream point coordinates: 91.73549 W, 46.40727 N
Classification proposed: I

X Fish survey (including relative abundance, length distribution, and age structure) and habitat survey completed on water to be classified. Survey on file at DNR Superior paper files, Superior network electronic files, Fisheries Management Database (query WBIC)

X Fish team supervisor and district fisheries supervisor have approved the classification. Date: 09/28/2020

X Fish Biologist has consulted with the following staff in their office or district

X Permit Drafter: Eric de Venecia, 9/25/2020 Concerns Yes (No)

X Water Resource Specialist: John Kleist, 10/3/2020 Concerns Yes (No)

X Water Management Specialist: Jenny Murphy, 10/3/2020 Concerns Yes (No)

X Water Management Specialist: Dan Harrington, 10/15/2020 Concerns Yes (No)

X Drinking and Groundwater staff: Christian Martinez, 10/3/2020 Concerns Yes (No)

X Public notice published in local newspaper or other media. 10/9/2020

X Notice sent to all clerks of the county, town, city, or village in which the stream is located. 10/8/2020

X Notice sent to legislators in the affected districts. 10/8/2020

X Notice sent to chairpersons of legislative committees with jurisdiction for natural resources issues. 10/8/2020

X No hearing requested 30 days after public notice.

N/A Hearing requested, held, and classification recommended. Date: N/A

Signed: Paul Pisyasek Date: 12/1/2020

Fisheries Biologist

Approved: Date: 01 Dec 2020

Fish Team Supervisor

Brad Eggold Date: 01 Dec 2020

District Fisheries Supervisor

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Wadable Stream Fish Assessment

Form 3600-230 (R 6/07)

Instructions: Bold fields must be completed.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR 3-10 TO BOIS BRULE RIV CR	NONE		

Date (MMDDYYYY)	Station Name
08152016	WILMOT CREEK REMOTE SITE W/ NO GOOD PERMANENT LANDMARKS - USE GPS COORD

Latitude - Longitude Determination Method Used	Datum Used
GARMIN GPSMAP78 HANDHELD UNIT	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
46.40453	-91.73396	46.40405	-91.73386	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		54F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)

Water Level (check one - measure distance if Above or Below Normal):
☒ Normal ☐ Below: _____ (m) ☐ Above: _____ (m)

Water Clarity:
☒ GN Clear ☐ Turbid ☐ Stained

Channel and Basin Characteristics

Channel Condition: (check one)
☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Mean Stream Width (m)	Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
~ 0.5m	0				

Sampling Description

Sampling Type (check one):
☒ CPE ☐ Depletion ☐ Mark-Recapture ☐ Other - Specify: _____

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
100	15:47	1620

Type of Pass (check one):
☒ Upstream Only ☐ Upstream, then Downstream ☐ Other - Specify: _____

Gear Description

Gear (indicate number of each type used):
1 Backpack Shockers ____ Stream Shockers ____ Mini-Boom Shockers

Number of Anodes per Unit: 1

Current Type:	Volts	Amps	Pulse Rate	Duty Cycle
☐ AC ☐ DC ☒ DCP	250	1.0	80	20

Person(s) Who Collected Data (Full Names)
AARON NELSON, CONNER LUNDEEN

Comments / Notes (continue on the back of this sheet if necessary)

Trout Stream Classification Survey

Coords for Conf. w/ Brule R.

N 46.40727
W 91.73549

	(%)						SLIMY SPECIES						
BKT	WT / GL		COHO	WT(g)	SCULPIN	WT(g)							
4.9	23 / L		3.0	7	3.3	12							
5.0	28 / L		3.4	9	3.1	10							
5.8	32 / N		3.3	10	2.9	8							
4.5	20 / L		3.2	8	4.0	19							
3.2	8 / N		2.9	—	2.9	8							
2.6	— / —		3.3	10	3.8	17							
1.9	— / —		2.9	—	3.0	11							
5.3	32 / N		2.7	—	3.0	11							
2.1	— / —		2.8	—	3.4	13							
4.8	26 / N		3.0	9	3.2	11							
3.5	8 / N		2.5	—	3.3	—							
3.9	13 / L		3.4	9	2.8	—							
5.1	29 / L		3.0	7	2.6	—							
3.3	9 / N		2.7	—	2.9	—							
			2.8	—	3.2	—							
			3.0	9	2.8	—							
			3.1	9	2.7	—							
			3.1	9	2.8								
			3.1	10									

GL - GILL LICE
N - NONE
L - LIGHT
M - MOD.
H - HEAVY

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Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR 3-10 T45N R11W "WILMOT" CREEK			

Date (MMDDYYYY)	Station Name
09152020	REMOTE LOCATION W/O PERMANENT LANDMARKS

Latitude - Longitude Determination Method Used	Datum Used
GPS - GARMIN GPSMAP 78	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.40453	W-91.73396	N46.40405	W-91.73386	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		54°F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☒ Normal ☐ Below: _____(m) ☐ Above: _____(m)	☒ Clear ☐ Turbid ☐ Stained

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
ESTIMATED - 0.5	

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
0				

Comments / Notes

SMALL TRIBUTARY TO UPPER BRULE RIVER, RUNS THROUGH MIXED CONIFER, HARDWOOD AND ALDER SWAMP. STREAM BOTTOM PRIMARILY SAND & SILT, VERY LOW GRADIENT, MAINLY RUN TYPE HABITAT.

HABITAT ASSESSMENT DONE USING NOTES FROM FISH SURVEY, AERIAL PHOTOS, AND RECOLLECTION OF STREAM CHANNEL, INSTREAM COVER, AND RIPARIAN AREA.

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) (15)	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) 10	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	15
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil (15)	Limited erosion; 0.20 - 0.50 m of bank is bare soil 10	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	15
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 7	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station MAINLY RUN (3)	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station 0	3
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 (5)	Stream relatively wide and shallow; width/depth > 25 0	5
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 15	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 10	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 LOW GRADIENT, NO DEVELOPED RIFFLES (5)	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	5
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed 10	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% LOTS OF SAND & SILT (5)	Fines extensive in all habitats; > 60% of stream bed covered 0	5
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream 10	Occasional cover, limited to one or two areas; 5 - 9% of stream VERY SMALL STREAM INSUFFICIENT DEPTH FOR COVER TO MEET 0.20 m REQUIREMENT (5)	Cover rare or absent; limited to < 5% of stream 0	6
				Total Score	53

Trout Stream Classification Checklist (revised 2/2016)

(This completed checklist should accompany any trout stream classification changes. Check the items as appropriate and attach comments if desired.)

Stream name: Unnamed Creek 18-2 (T47N R14W)

County: Douglas WBIC: 2837100

Define the portion of the stream to be classified. Please provide both a written description and the coordinate locations of the upstream and downstream beginning and end points.

Unnamed Creek 18-2 (T47N R15W S36; T47N R14W S31; T46N R14W S6), Town of Summit; 3.59 mile beginning at the northern border of T47N R15W S36 NWNW, approximately 0.12 mile east of County Highway B, upstream to the headwaters that are 0.02 mile northeast of State Highway 35 about 0.40 mile south of the intersection with Town Line Road.

This written description should reference permanent, unambiguous landmarks that would allow a person unfamiliar with the area to locate the points (e.g., dams, road crossings, stream confluences, county lines, section lines, township lines)

Upstream point coordinates: 46.59138° N, -92.16365° W
Downstream point coordinates: 46.51839° N, -92.20080° W
Classification proposed: II

X Fish survey (including relative abundance, length distribution, and age structure) and habitat survey completed on water to be classified. Survey on file at DNR Superior paper files, Superior network electronic files, Fisheries Management Database (query WBIC)

X Fish team supervisor and district fisheries supervisor have approved the classification. Date: 09/28/2020

X Fish Biologist has consulted with the following staff in their office or district

X	Permit Drafter: Eric de Venecia, 9/25/2020	Concerns	Yes	(No)
X	Water Resource Specialist: John Kleist, 10/3/2020	Concerns	Yes	(No)
X	Water Management Specialist: Jenny Murphy, 10/3/2020	Concerns	Yes	(No)
X	Water Management Specialist: Dan Harrington, 10/15/2020	Concerns	Yes	(No)
X	Drinking and Groundwater staff: Christian Martinez, 10/3/2020	Concerns	Yes	(No)

X Public notice published in local newspaper or other media. 10/9/2020

X Notice sent to all clerks of the county, town, city, or village in which the stream is located. 10/8/2020

X Notice sent to legislators in the affected districts. 10/8/2020

X Notice sent to chairpersons of legislative committees with jurisdiction for natural resources issues. 10/8/2020

X No hearing requested 30 days after public notice.

N/A Hearing requested, held, and classification recommended. Date: N/A

Signed: Paul Pisyasek Date: 12/1/2020
Fisheries Biologist

Approved: Date: 01 Dec 2020
Fish Team Supervisor

Brad Eggold Date: 01 Dec 2020
District Fisheries Supervisor

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Wadable Stream Fish Assessment

Form 3600-230 (R 7/15)

Instructions: Bold fields must be completed.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN. CREEK 18-2 T47N R14W TRIB TO MILLER CR	28372000		

Date (MMDDYYY)	Station Name
07/28/2020	143.5m d/s of Grandy Dancer Trail

Latitude - Longitude Determination Method Used: | Datum Used: WGS84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.50902	W092.19431	N46.50890	W092.19661	Douglas

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		64°F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec):

Water Level (check one - measure distance if Above or Below Normal): (X) Normal ( ) Below: _____ (m) ( ) Above: _____ (m)

Water Clarity: ( ) Clear ( ) Turbid (X) Stained moderate

Channel and Basin Characteristics

Channel Condition: (check one) (X) Natural ( ) > 20-year-old Channelization ( ) 10- to 20-year-old Channelization ( ) < 10-year-old Channelization ( ) Concrete Channel

Mean Stream Width (m)	Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)

Sampling Description

Sampling Type (check one): (X) EPE ( ) Depletion ( ) Mark-Recapture ( ) Other - Specify: _____

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
100M	10:37	11:01

Type of Pass (check one): (X) Upstream Only ( ) Upstream, then Downstream ( ) Other - Specify:

Gear Description

Gear (Indicate number of each type used): _____ Backpack Shockers _____ Stream Shockers _____ Mini-Boom Shockers

Number of Anodes per Unit: 1

Current Type:	Volts	Amps	Rate	Duty
( ) AC ( ) DC (X) DCP	300	1.5	80	20

# of Dippers	Dip Net Mesh Size (inches) and Type (bar, Ace, Delta, etc.)
1	1/8 heavy delta

Person(s) Who Collected Data (Full Names): Doew Nelson

Comments / Notes (continue on the back of this sheet if necessary)

1 - shocked for trout relass
- stope - 43.5 m down stream of grandy dance trail culvert
-At log jam that creats small drop

Station length

	W	L
1	4	12
2	2.3	10
3	1.25	10
4	2.5	10
5	1.55	10
6	2.8	10
7	1.6	10
8	1.9	10
9	2.3	10
10	1.9	8

BROOK TROUT — BIG NOSE CREEK — COMMON SPECIES WHT. — FATHEAD

LN (in)	GILL LICE	WT (g)	DACE	CHUB	SHINER	STICKLEBACK	SUCKER	SCULPIN	MINNOW
6.3	N	43.5	3.1	3.8	2.1 (6)	2.5	4.5"	3.0 / 6.5g	1.7
6.4	N	43	2.6	2.4	2.1	2.4		2.8 / 4.5g	
6.10	N	34	3.3	1.8	3.6	2.3		3.3 / 7.5g	
			2.7	2.5	2.2	2.1		3.0 / 6g	
			3.1	2.3				3.1 / 6g	
			2.6	2.0				3.0 / 6g	
			3.1	2.6					
			2.6	1.8					
			2.2	2.2					
			2.5	2.2					
			1	IIII					
			(11)	(19)					

GILL LICE

N - NEVER
L - LIGHT
M - MOD.
H - HEAVY

M = MOD.

- Site on HWY B
- Site not saved b/c influence of beaver making the site to large for single Pass
- Water also very turbid + warm (18BF)
- Shocked down stream scour pool - White sucker, common shiner, Brazy minnows creek chub abundant
- - lots of debris including metal (rebar + barb wire)

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Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name		Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR 18-2	T47N R14W TRIB TO MILLER CR	2837100		

Date (MM/DD/YYYY)	Station Name
9/15/2020	143.5 M DS FROM CAIRN 4 DOUGLAS TRAIL

Latitude - Longitude Determination Method Used	Datum Used
GPS - GARMIN GPSMAP 78	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.50902	W-92.19431	N46.50890	W-92.19361	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		64°F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☒ Normal ☐ Below: _____(m) ☐ Above: _____(m)	☐ Clear ☐ Turbid ☒ Stained MODERATE

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
2.20 M - MEASURED	100

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
0				

Comments / Notes

SMALL TRIB. TO MILLER CREEK, RUNS THROUGH MIXED CONIFER AND NORTHERN HARDWOOD FOREST. SUBSTRATE MIX OF SAND, GRAVEL, WITH SOME COBBLE AND SMALL BOULDERS PRESENT. FISH COVER PROVIDED BY LWD, BOULDERS, & UNDER CUT BANKS.

HABITAT ASSESSMENT COMPLETED USING NOTES FROM FISH SURVEY, AERIAL PHOTOS, AND RECOLLECTION OF STREAM CHANNEL, INSTREAM COVER, AND RIPARIAN AREA.

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) MIXED BUFFER & DECIDUOUS FOREST (15)	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) 10	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	15
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil 15	Limited erosion; 0.20 - 0.50 m of bank is bare soil (10)	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	10
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station AT LEAST 3 QUALITY POOLS OR DEEP RUNS (7)	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station 3	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station 0	7
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 (5)	Stream relatively wide and shallow; width/depth > 25 0	5
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 WELL DEVELOPED RIFFLES, RUNS, POOLS. SEVERAL BENDS (15)	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 10	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 5	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	15
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed MAINLY GRAVEL & SAND (10)	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% 5	Fines extensive in all habitats; > 60% of stream bed covered 0	10
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream LWD & BOULDERS (10) UNDER CUT BANKS	Occasional cover, limited to one or two areas; 5 - 9% of stream 5	Cover rare or absent; limited to < 5% of stream 0	10
				Total Score	72

State of Wisconsin
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PO Box 7921, Madison WI 53707-7921
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Wadable Stream Fish Assessment

Form 3600-230 (R 7/15)

Instructions: Bold fields must be completed.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CREEK 18-2 T47N R13 TO R14W MINOR CR	2837200		

Date (MMDDYYY)	Station Name
07/29/2020	121 M D/S FROM POLISH RD.

Latitude - Longitude Determination Method Used | Datum Used

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.505569	W092.17327	N46.505167	W092.17235	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		64F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)

Water Level (check one - measure distance if Above or Below Normal):
(✓) Normal ( ) Below: _____ (m) ( ) Above: _____ (m)

Water Clarity:
( ) Clear (✓) Turbid (✓) Stained

Channel and Basin Characteristics

Channel Condition: (check one)
(✓) Natural ( ) > 20-year-old Channelization ( ) 10-ito 20-year-old Channelization ( ) < 10-year-old Channelization ( ) Concrete Channel

Mean Stream Width (m)	Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)

Sampling Description

Sampling Type (check one):
(✓) CPE ( ) Depletion ( ) Mark-Recapture ( ) Other - Specify: _____

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
100m	0836	9:00

Type of Pass (check one):
( ) Upstream Only ( ) Upstream, then Downstream (✓) Other - Specify:

Gear Description

Gear (Indicate number of each type used): Number of Anodes per Unit
_____ Backpack Shockers _____ Stream Shockers _____ Mini-Boom Shockers

Current Type:	Volts	Amps	Rate	Duty
( ) AC ( ) DC (✓) DCP	300	1.6 - 1.8	80	20

# of Dippers	Dip Net Mesh Size (Inches) and Type (bar, Ace, Delta, etc.)
1	1/8" Heavy Delta

Person(s) Who Collected Data (Full Names)
Doerr, Nelson

Comments / Notes (continue on the back of this sheet if necessary)

- shocked for trout R.class
- substrate - sand some gravel
- small steam runs through tagalder swamp w/grassy sections due to Power line
- Culvert: concret tube. Erosion along side culvert due to seprations of culverts

1	1.1m
2	1.2
3	1.25
4	1.2
5	1.1
6	1.9
7	0.9
8	0.7
9	0.9
10	1.1/5

due to width stantio = 100m

BKT

SPECIES

CHB	BSB	Length	weight	YOY	FAT								
4.8	2.1			2.1 Ⓜ	2.1								
3.8	2.2			2.3	2.Ø								
2.Ø	2.7			2.1	"								
4.7	2.4			2.3	"								
2.10	2.2			2.9	"								
1.8	2.2												
2.1	1.1												
2.Ø	"												
3.Ø													
2.Ø													
Ø.9													
IIII													
IIII													
IIII													
28													

CHB - Creek chub
BSB - Brook stickleback
FAT - Fathead minnow
BKT - Brook Trout

Ⓜ Mort

- No gill lice obviously observed on Brook trout

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Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name			Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR 18-2	T47N R14N	MILLER CR TO	2837100		

Date (MMDDYYYY)	Station Name
9/15/2020	121 m D/S FROM POLISH RD.

Latitude - Longitude Determination Method Used	Datum Used
GPS - GARMIN GPSMAP 78	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.50558	W-92.17327	N46.50567	W-92.17235	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		64°F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☒ Normal ☐ Below: _____(m) ☐ Above: _____(m)	☐ Clear ☐ Turbid ☒ Stained

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
1.2m - MEASURED	100

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
0				

Comments / Notes

SMALL TRIB TO MILLER CREEK. RUNS THROUGH GRASS AND ALDER MARSH, PREDOMINANTLY SAND SUBSTRATE, ONE LARGE POOL, SOME SMALLER POOLS OR DEEPER RUNS. COVER PROVIDED BY UNDERCUT BANKS & L.W.D.

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) SOME MISSING FOR POWERLINE CORRIDOR (15)	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) 10	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	15
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil 15	Limited erosion; 0.20 - 0.50 m of bank is bare soil (10)	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	10
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 7	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station (3)	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station 0	3
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 (5)	Stream relatively wide and shallow; width/depth > 25 0	5
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 15	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 FEW RIFFLES BY BENDS (10)	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 5	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	10
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed 10	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% LOTS OF SAND (5)	Fines extensive in all habitats; > 60% of stream bed covered 0	5
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream 10	Occasional cover, limited to one or two areas; 5 - 9% of stream UNDERCUT BANKS LWD. (5)	Cover rare or absent; limited to < 5% of stream 0	5
				Total Score	53

Trout Stream Classification Checklist (revised 2/2016)

(This completed checklist should accompany any trout stream classification changes. Check the items as appropriate and attach comments if desired.)

Stream name: Unnamed Creek 1-16 (T47N R10W)

County: Douglas WBIC: None Assigned

Define the portion of the stream to be classified. Please provide both a written description and the coordinate locations of the upstream and downstream beginning and end points.

Unnamed Creek 1-16 (T47N R09W S6 to T47N R10W S1), Town of Brule; 0.36 mile beginning at the confluence with Rocky Run, approximately 0.04 mile north of the Rocky Run crossing at Carlson Road.

This written description should reference permanent, unambiguous landmarks that would allow a person unfamiliar with the area to locate the points (e.g., dams, road crossings, stream confluences, county lines, section lines, township lines)

Upstream point coordinates: 46.57827° N, -91.55063° W
Downstream point coordinates: 46.57529° N, -91.55608° W
Classification proposed: II

X Fish survey (including relative abundance, length distribution, and age structure) and habitat survey completed on water to be classified. Survey on file at DNR Superior paper files, Superior network electronic files, Fisheries Management Database (query WBIC)

X Fish team supervisor and district fisheries supervisor have approved the classification. Date: 09/28/2020

X Fish Biologist has consulted with the following staff in their office or district

X Permit Drafter: Eric de Venecia, 9/25/2020 Concerns Yes (No)

X Water Resource Specialist: John Kleist, 10/3/2020 Concerns Yes (No)

X Water Management Specialist: Jenny Murphy, 10/3/2020 Concerns Yes (No)

X Water Management Specialist: Dan Harrington, 10/15/2020 Concerns Yes (No)

X Drinking and Groundwater staff: Christian Martinez, 10/3/2020 Concerns Yes (No)

X Public notice published in local newspaper or other media. 10/9/2020

X Notice sent to all clerks of the county, town, city, or village in which the stream is located. 10/8/2020

X Notice sent to legislators in the affected districts. 10/8/2020

X Notice sent to chairpersons of legislative committees with jurisdiction for natural resources issues. 10/8/2020

X No hearing requested 30 days after public notice.

N/A Hearing requested, held, and classification recommended. Date: N/A

Signed: Paul Pisyack Date: 12/1/2020
Fisheries Biologist

Approved: Date: 01 Dec 2020
Fish Team Supervisor

Brad Eggold Date: 01 Dec 2020
District Fisheries Supervisor

State of Wisconsin
Department of Natural Resources
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Wadable Stream Fish Assessment

Form 3600-230 (R 6/07)

Instructions: Bold fields must be completed.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
UNNAMED TRIB TO ROCKY RUN (F-10)			

Date (MMDDYYYY)	Station Name
07/28/2016	DOWNSTREAM FROM COUNTYLINE RD.

Latitude - Longitude Determination Method Used	Datum Used
HANDHELD GPS UNIT	WGS-84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
46.57633	91.55486	46.57650	91.55387	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (@) F	Water Temperature (@) F	Conductivity (µs/cm)	Transparency (cm)
12:44	74	57		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☐ Normal ☐ Below: _____(m) ☐ Above: _____(m)	☐ Clear ☐ Turbid ☐ Stained

Channel and Basin Characteristics

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Mean Stream Width (m)	Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
~1.0					

Sampling Description

Sampling Type (check one):
☒ CPE ☐ Depletion ☐ Mark-Recapture ☒ Other - Specify: SPOT SHOCK ONLY

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
100		

Type of Pass (check one):
☒ Upstream Only ☐ Upstream, then Downstream ☐ Other - Specify: _____

Gear Description

Gear (indicate number of each type used): ____ Backpack Shockers ____ Stream Shockers ____ Mini-Boom Shockers

Number of Anodes per Unit:

Current Type:	Volts	Amps	Pulse Rate	Duty Cycle
☐ AC ☐ DC ☒ DCP	275	0.95	80	0.20

Person(s) Who Collected Data (Full Names)

OLSON, LUNDEEN

Comments / Notes (continue on the back of this sheet if necessary)

0.9
0.9
1.3
3 | 3.1

* Total shock time 13:23

SPOT - SHUCKED ON 6/6 DURING CULVERT INVENTORY

* CAPTURED 2 BKT (4.0, 5.9") 1 RBT (4"), 2 CMM

BKT (TL)	BKT (WT g)	BKT GILL LICE	SLIMY SCULPIN	SCULPIN (WT g)	CMM (TL)	CMM (WT g)							
3.1	5	N/A	3.1	6	2.8	—							
2.6	—	—	2.1										

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Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
UNN CR T-11N R10W TRIB TO ROCKY RUN			

Date (MMDDYYYY)	Station Name
9/15/2020	D/S FROM COUNTY LINE RD.

Latitude - Longitude Determination Method Used	Datum Used
GPS - GARMIN GPSMAP 78	WGS84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.57633	W-91.55486	N46.57650	W-91.55387	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		57F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)	Water Level (check one - measure distance if Above or Below Normal):	Water Clarity:
	☒ Normal ☐ Below: _____(m) ☐ Above: _____(m)	☐ Clear ☐ Turbid ☒ Light Stained

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
ESTIMATED - 1.0	100

Channel Condition: (check one) ☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
0				

Comments / Notes

RUNS THROUGH ALDER & CONIFER SWAMP, LIGHTLY STAINED WATER, LOW GRADIENT, SUBSTRATE PREDOMINANTLY SAND, LOTS OF SMALL WOODY DEBRIS IN STREAM CHANNEL

HABITAT ASSESSMENT DONE USING NOTES FROM FISH SURVEY, AERIAL PHOTOS AND RECOLLECTION OF STREAM CHANNEL, INSTREAM COVER, AND RIPARIAN AREA

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) 15	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) UPPER END OF STATION IN MOWED DITCH (10)	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	10
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil 15	Limited erosion; 0.20 - 0.50 m of bank is bare soil (10)	Moderate erosion; 0.51 - 1.0 m of bank is bare soil 5	Extensive erosion; > 1.0 m of bank is bare soil 0	10
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 7	Pools present, but either rare or overly dominant, few other habitats present; (10 to 29%) or 71 to 90% of station (3)	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station 0	3
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 10	Stream moderately deep and narrow; width/depth 16-25 (5)	Stream relatively wide and shallow; width/depth > 25 0	5
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 15	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 10	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 FEW RIFFLES (5)	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	5
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed 10	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% LOW GRADIENT, LOTS OF SAND & SILT (5)	Fines extensive in all habitats; > 60% of stream bed covered 0	5
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream 10	Occasional cover, limited to one or two areas; 5 - 9% of stream LWD (5)	Cover rare or absent; limited to < 5% of stream 0	5
				Total Score	43

Trout Stream Classification Checklist (revised 2/2016)

(This completed checklist should accompany any trout stream classification changes. Check the items as appropriate and attach comments if desired.)

Stream name: Red River

County: Douglas WBIC: 2845800

Define the portion of the stream to be classified. Please provide both a written description and the coordinate locations of the upstream and downstream beginning and end points.

Red River (T48N R15W S32; T48N R15W S31; T48N R15W S29; T48N R15W S28; T48N R15W S21; T48N R15W S16; T48N R15W S15; through T48N R15W S10), Town of Superior; 6.3 miles beginning at the Wisconsin-Minnesota boarder, approximately 0.42 mile north of County Highway W, downstream to the confluence with the St. Louis River.

This written description should reference permanent, unambiguous landmarks that would allow a person unfamiliar with the area to locate the points (e.g., dams, road crossings, stream confluences, county lines, section lines, township lines)

Upstream point coordinates: 46.60139° N, -92.29159°W
Downstream point coordinates: 46.64916° N, -92.23589°W

Classification proposed: Non-Trout

X Fish survey (including relative abundance, length distribution, and age structure) and habitat survey completed on water to be classified. Survey on file at DNR Superior paper files, Superior network electronic files, Fisheries Management Database (query WBIC)

X Fish team supervisor and district fisheries supervisor have approved the classification. Date: 09/28/2020

X Fish Biologist has consulted with the following staff in their office or district

X Permit Drafter: Eric de Venecia, 9/25/2020 Concerns Yes (No)

X Water Resource Specialist: John Kleist, 10/3/2020 Concerns Yes (No)

X Water Management Specialist: Jenny Murphy, 10/3/2020 Concerns Yes (No)

X Water Management Specialist: Dan Harrington, 10/15/2020 Concerns Yes (No)

X Drinking and Groundwater staff: Christian Martinez, 10/3/2020 Concerns Yes (No)

X Public notice published in local newspaper or other media. 10/9/2020

X Notice sent to all clerks of the county, town, city, or village in which the stream is located. 10/8/2020

X Notice sent to legislators in the affected districts. 10/8/2020

X Notice sent to chairpersons of legislative committees with jurisdiction for natural resources issues. 10/8/2020

X No hearing requested 30 days after public notice.

N/A Hearing requested, held, and classification recommended. Date: N/A

Signed: Paul Pisiak Date: 12/1/2020

Fisheries Biologist

Approved: Date: 01 Dec 2020

Fish Team Supervisor

Brad Eggold Date: 01 Dec 2020

District Fisheries Supervisor

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Wadable Stream Fish Assessment

Form 3600-230 (R 7/15)

Instructions: Bold fields must be completed.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
Red River			

Date (MMDDYYY)	Station Name
07/29/2020	Hikers N Hwy C & Hwy W Intersection

Latitude - Longitude Determination Method Used | Datum Used

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.10812	W092.28998	N46.10612	W092.28971	Douglas

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		62F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m³/sec)

Water Level (check one - measure distance if Above or Below Normal):
○ ~~Normal~~ ○ Below: _____ (m) ○ Above: _____ (m)

Water Clarity:
○ Clear ◉ Very Turbid ◉ Stained

Channel and Basin Characteristics

Channel Condition: (check one)
○ ~~Natural~~ ○ > 20-year-old Channelization ○ 10- to 20-year-old Channelization ○ < 10-year-old Channelization ○ Concrete Channel

Mean Stream Width (m)	Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km²)
11.6m					

Sampling Description

Sampling Type (check one):
◉ ~~CPE~~ ○ Depletion ○ Mark-Recapture ○ Other - Specify: _____

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
11.6m	1001	10:30

Type of Pass (check one):
○ Upstream Only ○ Upstream, then Downstream ○ Other - Specify:

Gear Description

Gear (Indicate number of each type used): Number of Anodes per Unit

1 Backpack Shockers _____ Stream Shockers _____ Mini-Boom Shockers

Current Type:	Volts	Amps	Rate	Duty
○ AC ○ DC ◉ ~~DCP~~	300	1.6-1.8	80	20

# of Dippers	Dip Net Mesh Size (Inches) and Type (bar, Ace, Delta, etc.)
1	1/8 heavy Delta

Person(s) Who Collected Data (Full Names)
Doerr, Nelson

Comments / Notes (continue on the back of this sheet if necessary)

- Attempting to recreate Scott Toshner station from 2005.
- No trout observed or captured
- substrate: dominated by clay w/some sand, gravel, cobble & Boulders present
- Highly incised w/abundant exposed roots on banks
- station between BNSF railroad & N County trail bridge
- Visability Poor due to turbid & stained water <6" visability
- some gradient check formed by root debris may block passage at Low flow

SPECIES

BSB	CHB	Fat											
1.4	5.6(M)	2.7											
1.4	4.0(M)	2.7											
0.8	2.3(M)	2.1											
2.7		2.1											
1.0		1.8											
2.6		1.7											
2.2		1.6		NO TROUT OBSERVED OR CAPTURED									
1.1		1.7											
0.9		1.5											
1.4		1.7											
11		11											
(16)		(2)											

BSB- Brook stickle back
- CHB- Creek chub
- Fat - Fat head

(M) Mort

-Majority of fish captured in 1/3 of station

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Form 3600-532A (R 6/07)

Instructions: Bold fields must be completed. Record all measurements in metric units.

Station Summary

Stream Name	Waterbody ID Code	SWIMS Station ID	FH Database ID
RED RIVER	2845800		

Date (MMDDYYYY)	Station Name
** 12-1-2020	HIKE IN NORTH FROM CTH C & CTH W

Latitude - Longitude Determination Method Used	Datum Used
GPS - GARMIN GPSMAP 78	WGS 84

Start Latitude	Start Longitude	End Latitude	End Longitude	County
N46.60126	W-92.2899	N46.60120	W-92.28971	DOUGLAS

Water Characteristics

Time (24-hr clock)	Air Temperature (C)	Water Temperature (C)	Conductivity (µs/cm)	Transparency (cm)
		62 °F		

Dissolved Oxygen (mg/l)	Dissolved Oxygen % Saturation	pH

Flow (m^3/sec):

Water Level (check one - measure distance if Above or Below Normal):
☒ Normal ☐ Below: _____ (m) ☐ Above: _____ (m)

Water Clarity:
☐ Clear ☒ Turbid ☐ Stained

Channel and Basin Characteristics

Mean Stream Width (m)	Station Length (m)
3.31	116

Channel Condition: (check one)
☒ Natural ☐ > 20-year-old Channelization ☐ 10- to 20-year-old Channelization ☐ < 10-year-old Channelization ☐ Concrete Channel

Percent Channelization	Sinuosity	Gradient (m/km)	Stream Order	Basin Area (km^2)
0				

Comments / Notes

* TRIED TO REPLICATE 2005 STATION FROM TOSHNER CREW

SUBSTRATE DOMINATED BY CLAY & SAND, SOME GRAVEL, COBBLE, & BOULDERS PRESENT

STREAM CHANNEL INCISED, LOTS OF EROSION OF CLAY BANKS.

** - DESKTOP RECOLLECTION DURING FISH SURVEY

Wadable Stream Qualitative Fish Habitat Rating for Streams < 10 m wide

Rating Item	Excellent	Good	Fair	Poor	Score
Riparian Buffer Width (m) Width of contiguous undisturbed land uses; meadow, shrubs, woodland, wetland, exposed rock	Riparian zone well protected; buffer wide (> 10.0 m) RED R. STREAM BANK PROTECTION - DNR OWNED (15)	Riparian zone protected, but buffer width moderate (5.0 - 10.0 m) 10	Riparian zone moderately disturbed, buffer narrow (1.0 - 4.9 m) 5	Most of the riparian zone disturbed, buffer very narrow or absent (< 1.0 m) 0	15
Bank Erosion Width of bare soil on bank, along transects	No significant bank erosion; < 0.20 m of bank is bare soil 15	Limited erosion; 0.20 - 0.50 m of bank is bare soil 10	Moderate erosion; 0.51 - 1.0 m of bank is bare soil CHANNEL INCISED, ERODING CLAY (5)	Extensive erosion; > 1.0 m of bank is bare soil 0	5
Pool Area % of stream length in pools	Pools common; wide, deep, slow velocity habitat, balanced by other habitats; 40 to 60% of station 10	Pools present; not frequent or over-abundant; 30 to 39% or 61 to 70% of station 2 OR 3 POOLS IN STATION, WIDE (7)	Pools present, but either rare or overly dominant, few other habitats present; 10 to 29% or 71 to 90% of station 3	Pools either absent or dominant, not balanced by other habitats; < 10% or > 90% of station 0	7
Width:Depth Ratio Average stream width divided by average thalweg depth in runs and pools	Streams very deep and narrow; width/depth ≤ 7 15	Stream relatively deep and narrow; width/depth 8-15 (10)	Stream moderately deep and narrow; width/depth 16-25 5	Stream relatively wide and shallow; width/depth > 25 0	10
Riffle:Riffle or Bend:Bend Ratio Average distance between riffles or bends divided by average stream width	Diverse habitats; meandering stream with deep bends and riffles common; ratio < 10 15	Diverse habitats; bends and riffles present, but not abundant; ratio 10 to 14 (10)	Habitat diversity low; occasional riffles or bends, ratio 15 to 25 5	Habitat monotonous; riffles or bends rare; generally continuous run habitat; ratio > 25 0	10
Fine Sediments % of the substrate that is < 2 mm (sand, silt, or clay)	Fines rare or absent, < 10% of the stream bed 15	Fines present but limited, generally in stream margins or pools; 10 to 20% of stream bed 10	Fines common in mid-channel areas, present in riffles and extensive in pools; 21 to 60% SUBSTRATE DOMINATED BY CLAY & SAND (5)	Fines extensive in all habitats; > 60% of stream bed covered 0	5
Cover for Fish % of the stream area with cover	Cover/shelter for fish abundant; > 15% of stream 15	Cover common, but not extensive; 10 - 15% of stream LWD (10)	Occasional cover, limited to one or two areas; 5 - 9% of stream 5	Cover rare or absent; limited to < 5% of stream 0	10
				Total Score	62

WISCONSIN DNR FISHERIES INFORMATION SHEET

County: DOUGLAS
Stream Name: RED RIVER
WBIC: 2845800
Survey Year: 2012

WDNR Fish Biologist Contact Information

Zachary Lawson - Inland Waters; lakes, Lake Superior tributaries upstream of barrier, streams in St Croix basin -

Dray Carl - Lake Superior -

Paul Piszczek - Lake Superior tributaries downstream of barrier - 715-392-7990

Survey Information

Survey Dates: Jul 30, 2012 to Jul 30, 2012 WDNR Survey ID: 454189084

Survey Type: SPECIAL STUDY Gear Type: BACKPACK SHOCKER Target Species: ALL SPECIES

Station Information

Natural Community: COLDWATER Latitude: 46.645603 Longitude: -92.2379 T-R-S-Q-QQ: 48N-15W-15-NW-NE

Station: RED RIVER (APPROXIMATELY 3/4 MILE UPSTREAM FROM MOUTH) Length: 400 METERS Avg. Width (m): 13

Fish Community

Species Found (Number Caught)

BLACK BULLHEAD (1)
CENTRAL MUDMINNOW (1)
CHANNEL CATFISH (2)
COMMON SHINER (1)
CREEK CHUB (2)
FATHEAD MINNOW (15)
GOLDEN SHINER (1)
JOHNNY DARTER (3)
LOGPERCH (1)
NORTHERN PIKE (2)
PUMPKINSEED (427)
SLIMY SCULPIN (3)
TUBENOSE GOBY (1)
WHITE SUCKER (5)

Fish Community Metrics

****Total Number of Fish:**	465	**Coldwater IBI Score:**	30
Number of Intolerant Species:	1	**Coldwater IBI Rating:**	Fair
Percent of Salmonids that are Brook Trout:	0%	**Cool-cold Transition IBI Score:**	90
Percent of Cool and Coldwater Indiviuals:	1%	**Cool-cold Transition IBI Rating:**	Excellent
Percent of Top Carnivore Individuals:	1%	**Cool-warm Transition IBI Score:**	80
Percent of Tolerant Individuals:	5%	**Cool-warm Transition IBI Rating:**	Excellent
Number of Sunfish, Yellow Perch Species:	1	***Warmwater IBI Score, Lake Superior:**	60
Number of Darter species:	2	**Warmwater IBI Rating, Lake Superior:**	Good
Number of Native Species:	13	***Warmwater IBI Score, N. WI**	45
Number of Darter, Madtom, Sculpin Species:	3	**Warmwater IBI Rating, N. WI**	Fair
Number of Sucker Species:	1		
Number of Sunfish Species:	1		
Percent of Intolerant Individuals:	1%		
Percent of Insectivore Individuals:	94%		
Percent of Omnivore Individuals:	5%		
Percent of Simple Lithophils Individuals:	2%		
Number of Tolerant Species:	6		
Number of Top Carnivore Individuals:	4		
Number of Tolerant Individuals:	25		
Number of Cool and Coldwater Individuals:	3		

* Warmwater IBI corrected scores

** Total Number of Fish may not match the total of Number Caught because threatened or endangered species are not listed as Species Found, but are

survey ID # 227216

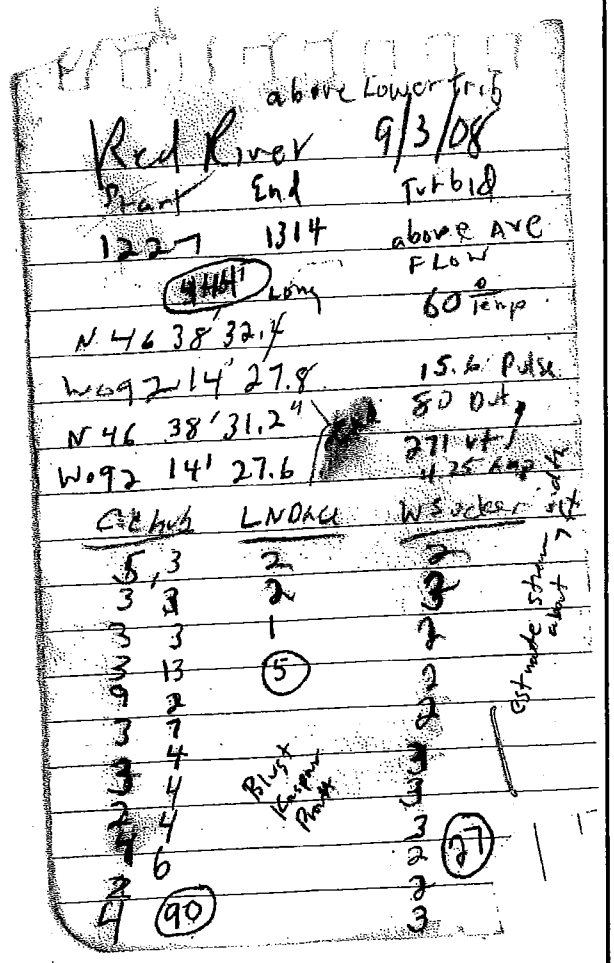
Red River Lower Station

SWIMS STATION ID # = 10029329

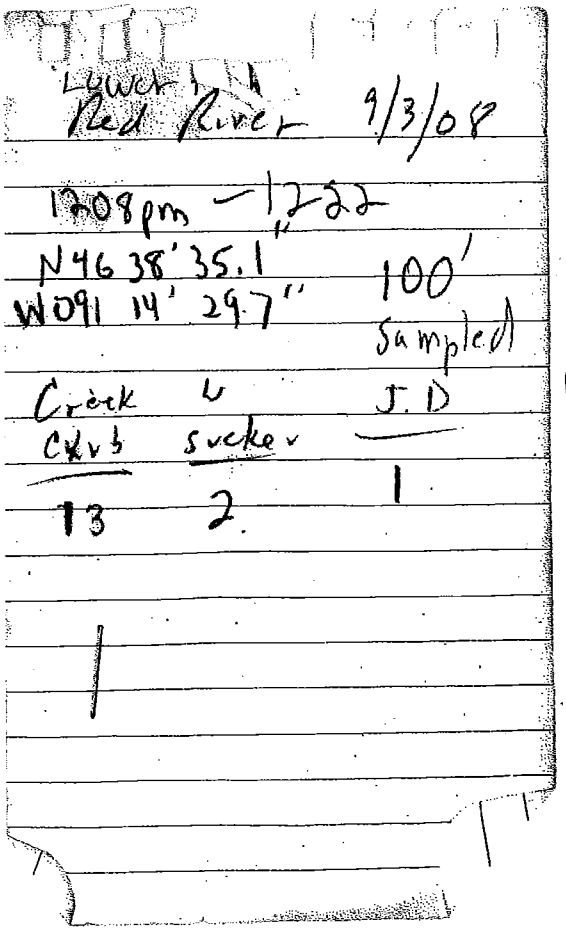
WIBC 2845800

start point
46.64227
-92.24108

Red Station



Also sampled a short distance of the tributary to the red results here



SWIMS STATION ID # 10029330 SURVEY ID # 2272168

Waterbody:
WBIC: 5000984
County:
Station Name or Description: Red River State line
Start Lat/Long:
End Lat/Long: 46 36 32.3 92 17 11.5
Collectors: Pratt, Kasper

Gear: X Backpack ____ Stream-shocker(s)
Current Type: [AC] [DC] (PDC)
Volts: 291 Pulse Rate: 079
Amps: 2.64 Duty Cycle: 155
No. of Dippers/Anodes (1) [2] [3]
Survey Type: CPUE Mesh Size: ____
Weather: Sunny
Adverse Cond: BASE FLOW
Target Fish: (All species) [Gamefish]

Sample Date: 8-26-08
Start Time: 1:12
End Time: 1:41 p.m
Total Time: 29 minutes
Distance Shocked: 310 ft
Pass Type: (Up) [Dn] [Up-Dn] [Other]
Water Level: [Hi] (Norm) [Low]
Clarity: Normal / clear
Water Temp: 55°F @ 1:50 p.m

SPECIES One Pass

Comments:

Creek Chub	Blacknose Dace	Mottled Sculpin	Brook Stickleback											
6.5	3.2	2.7	2.5											
2.7	2.9	3.0												
2.8	2.6	3.2												
2.7	2.4	3.2												
3.5	3.4	2.8												
2.2	2.4	2.5												
5.7	3.5	2.7												
3.7		2.7												
3.2		2.3												
2.2		2.4												
1.7		2.4												
2.4		2.5												
4.4		2.6												
3.3		2.4												
2.4		2.7												
2.9		2.7												
2.6		2.4												
5.4		2.6												
2.6		2.5												
2.8		4.7												
		3.7												
		2.9												
		3.4												
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		3.0												
		2.8												
		2.7												
		2.4												
		3.0												
		2.9												
		3.6												
		2.7												
		1.3												
		2.5												
		2.7												
		2.6												
		2.5												
		2.6												

Station ID# 136006
Survey ID# 91579
Visit ID# 511705

IN DB C&P

State of Wisconsin
Department of Natural Resources

Wadable Stream Fish Community Evaluation

Form 3600-230 (R 7/00)

Instructions: Bold fields must be completed.

Station Summary

Stream Name	Waterbody ID Code	Site Mile	Station No.	Date (YYYY MM DD)
Red River (3rd Order) JUST UPSTREAM OF POWERLINE	2845800		1	2006 08 17

Starting Location	Township	Range	Section	¼ - ¼	¼
Walked in north of Hwy W & Hwy C	48N	15W	21	NE	SW

Latitude - Longitude Determination Method Used	Datum Used
GPS	NAD83

Start Latitude	Start Longitude	End Latitude	End Longitude	7.5' Quad Map Name
N46°.62542	W092°.126093	N46°.62437	W092°.126190	

Basin Name	Watershed Name	County
St. Croix	St. Louis / Lower Nemadji	Douglas

Sampling Description

Sampling Type (check one):

☒ CPE ☐ Depletion ☐ Mark-Recapture ☐ Other - Specify:________

Station Length (m)	Start Time (24-hr clock)	Finish Time (24-hr clock)
123	1030	1142

Type of Pass (check one):

☒ Upstream Only ☐ Upstream, then Downstream ☐ Other - Specify:________

Gear Description

Gear (indicate number of each type used):

1 Backpack Shockers ____ Stream Shockers ____ Mini-Boom Shockers ____ Other - Specify:________

Number of Anodes per Unit	Block Nets (indicate number and mesh size):
1	____ Upstream Block Nets (Mesh: ____) ____ Downstream Block Nets (Mesh: ____)

For Backpack and Stream Shockers

Anode Size (long axis or diameter) (mm)	Anode Material Thickness (diameter) (mm)	Anode Shape (check one):
		☒ Diamond ☐ Hoop ☐ Other - Specify:________

For Mini-Boom Shockers

Anode (front dropper) Length (m)	Anode (front dropper) Diameter (m)	Number of Front Droppers

Meter Readings

Type of Electroshocker Current (check one):	Electroshocker Control Box Meter Readings: Voltmeter (V)	Ammeter (A)	If Pulsed DC: Pulse Rate	Duty Cycle (%)
☐ AC ☐ DC ☒ Pulsed DC	300	0.78	80	20.0

Person(s) Who Collected Fish Data (Full Names)

Erik, Lindsay, Mike

Comments / Notes (continue on the back of this sheet if necessary)

Turbidity high
Slow current
woody debris present

DATA SHEET
FORM 3600–49

DEPARTMENT OF NATURAL RESOURCES

Just upstream of powerline

Species										
Creek Chub	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸
(34)										
White Sucker	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸
(12)										
Brook Stickleback	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸
(13)										
Mudminnow	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸	𝍸 𝍸
(4)										

REV. 3–71

Sheet _____ of _____

Wadable Stream Fish Community Evaluation

Form 3600-230 (R 7/00)

Catch Summary

Stream Name	Waterbody ID Code	Site Mile	Station No.	Date (YYYY MM DD)
Red River 3rd Order	2845800			2006 08 17

Pass Number	Time (24-hr clock) Start	Time (24-hr clock) End	Time (24-hr clock) Start	Time (24-hr clock) End	Total Time (min.)	Pass Direction
1	1030	1142			72	☒ Up ☐ Down

Species	Number Caught	Weight (g) Tare	Weight (g) Gross	Weight (g) Total	Number w/ DELT	Number of Mortalities	Number of Vouchers	Number Marked	Number Recaptured	Lab Check # ID
Creek Chub	34									
White Sucker	12									
Brook Stickleback	13									
Mudminnow	4									

Comments / Notes

WISCONSIN DNR FISHERIES INFORMATION SHEET

County: DOUGLAS
Stream Name: RED RIVER
WBIC: 2845800
Survey Year: 2006

WDNR Fish Biologist Contact Information

Zachary Lawson - Inland Waters; lakes, Lake Superior tributaries upstream of barrier, streams in St Croix basin -

Dray Carl - Lake Superior -

Paul Piszczek - Lake Superior tributaries downstream of barrier - 715-392-7990

Survey Information

Survey Dates: Aug 17, 2006 to Aug 23, 2006 WDNR Survey ID: 91578

Survey Type: BASELINE RANDOM Gear Type: BACKPACK SHOCKER Target Species: ALL SPECIES

Station Information

Natural Community: COLDWATER Latitude: 46.6012 Longitude: -92.2903 T-R-S-Q-QQ: 48N-15W-31-NE-NE

Station: RED RIVER- WALK IN NORTH OF INTERSECTION OF HWY W AND HWY C-STATION #2 Length: 116 METERS Avg. Width (m): null Gradient: 9999

Fish Community

Species Found (Number Caught)

BROOK STICKLEBACK (18)

CREEK CHUB (93)

WHITE SUCKER (43)

Fish Community Metrics

****Total Number of Fish:**	154	**Coldwater IBI Score:**	0
Number of Intolerant Species:	0	**Coldwater IBI Rating:**	Very Poor
Percent of Salmonids that are Brook Trout:	0%	**Cool-cold Transition IBI Score:**	10
Percent of Cool and Coldwater Indiviuals:	12%	**Cool-cold Transition IBI Rating:**	Poor
Percent of Top Carnivore Individuals:	0%	**Cool-warm Transition IBI Score:**	10
Percent of Tolerant Individuals:	100	**Cool-warm Transition IBI Rating:**	Poor
Number of Sunfish, Yellow Perch Species:	0	***Warmwater IBI Score, Lake Superior:**	null
Number of Darter species:	0	**Warmwater IBI Rating, Lake Superior:**	null
Number of Native Species:	3	***Warmwater IBI Score, N. WI**	50
Number of Darter, Madtom, Sculpin Species:	0	**Warmwater IBI Rating, N. WI**	Good
Number of Sucker Species:	1		
Number of Sunfish Species:	0		
Percent of Intolerant Individuals:	0%		
Percent of Insectivore Individuals:	12%		
Percent of Omnivore Individuals:	28%		
Percent of Simple Lithophils Individuals:	28%		
Number of Tolerant Species:	3		
Number of Top Carnivore Individuals:	0		
Number of Tolerant Individuals:	154		
Number of Cool and Coldwater Individuals:	18		

* Warmwater IBI corrected scores

** Total Number of Fish may not match the total of Number Caught because threatened or endangered species are not listed as Species Found, but are

STREAM SURVEY STATION REPORT

FI-242

DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

NAME OF STREAM	Survey Station No.	POINT OF EXAMINATION
Red River	2	On State line.

COUNTY: Douglas

Township	Range	Section	Distance Sampled (ft.)	GEAR USED
T48	R15W	30	500'	12 Volt A.C. Back pack shocker.

Avg. Width (ft.)	Avg. Depth (ft.)	Vol. of Flow (c.f.s.)	VELOCITY	Max. Flood Crest (ft.)
5'	0.5	1.0 est.	☐ Sluggish ☒ Moderate ☐ Rapid	4 - 6'

WATER	CONDUCTANCE	TEMPERATURE	pH	M.P.A.
☒ Clear ☐ Stained ☐ Dirty	220x1.31 = 290 (77°C)	60° Water 88° Air 2:00 p.m. Time	7.9	275 ppm

WATER LEVEL CONDITIONS	PRIOR WEATHER CONDITIONS
....In. Below ..X..Normal ....In. Above	Clear - no recent rain

POLLUTION: None

STREAM BOTTOM TYPES (%): .....Bedrock .....Hardpan 30 Boulder 10 Rubble 30 Gravel 30 Sand .....Silt .....Marl .....Detritus

POOL GRADE: B

POOL-RIFFLE RATIO: 2

AQUATIC VEGETATION (Species)	Abund.	AQUATIC VEGETATION (Species)	Abund.	AQUATIC VEGETATION (Species)	Abund.
None					

INSTREAM COVER	Scarce	Common	Abundant	Stable	Unstable	AQUATIC LIFE	Scarce	Common	Abundant
Undercut banks	x					Stonefly			
Rocks, boulders		x				Mayfly			
Logs, trees			x		x	Caddisfly Amphipads		x	
Debris		x			x	Shrimp			
Aquatic Vegetation	x					Crayfish			

STREAM BANK VEGETATION

.....% Cultivated .....50.....% Upland Hardwood Birch, Ash, Elm, Maple, Aspen. .....% Swamp Conifer

.....% Firm Pasture .....40.....% Upland Conifer Cedar, Spruce .....10.....% Shrub Marsh T.A.

.....% Meadow Pasture .....% Swamp Hardwood .....% Open Marsh

STREAM COVER: ☐ Dense ☒ Partly Open ☐ Open

FISHABILITY: ☐ Excellent ☐ Good ☒ Fair ☐ Poor

BANK EROSION: ☐ Heavy ☒ Medium ☐ Light ☐ None

BANK HEIGHTS: 4'

DAMS	Number	Height	Pool Area Above
Man-made	0		
Beaver (active)	0		
Beaver (inactive)	0		

REMARKS: Class Ia Brook Trout stream - log and tree cluttered stream bed - trout density appears to be low - experiences flow extremes annually - access to stream is difficult walk-in.

(use back of sheet for additional remarks)

DATE OF SURVEY	INVESTIGATOR
5-19-72	L. Sather and S. Johannes

REV. 6-68

WISCONSIN CONSERVATION DEPARTMENT
Madison, Wisconsin 53701

Fi-317

STATION FISH SAMPLING SUMMARY

STREAM				INVESTIGATOR		
Red River				L. Sather & S. Johannes		
Area Sampled:	LENGTH	WIDTH	AREA	STATION NO.	NO. PER ACRE	DATE
	500' est.	5'		2		May 19, 1972

SIZE RANGE	SPECIES					
	Brook Trout					
1						
1.0 - 1.4						
1.5 - 1.9						
2.0 - 2.4						
2.5 - 2.9						
3.0 - 3.4						
3.5 - 3.9						
4.0 - 4.4	1					
4.5 - 4.9	11					
5.0 - 5.4	111					
5.5 - 5.9	11					
6.0 - 6.4	1					
6.5 - 6.9						
7.0 - 7.4	1					
7.5 - 7.9						
8.0 - 8.4						
8.5 - 8.9						
9.0 - 9.4	1					
9.5 - 9.9						
10.0 - 10.4						
10.5 - 10.9						
11.0 - 11.4						
11.5 - 11.9						
12.0 - 12.4						
12.5 - 12.9						
13.0 - 13.4						
13.5 - 13.9						
14.0 - 14.4						
14.5 - 14.9						
15.0 - 15.4	Sculpin					
15.5 - 15.9						
16.0 - 16.4						
16.5 - 16.9	1 - 4"					
17.0 - 17.4						
17.5 - 17.9						
18.0 - 18.4						
18.5 - 18.9						
19.0 - 19.4						
19.5 - 19.9						
20.0 - 20.4						
20.5 - 20.9						
21.0 - 21.4						
21.5 - 21.9						
22.0 - 22.4						
22.5 - 22.9						
23.0 - 23.4						
23.5 - 23.9						
24.0 - 24.4						
24.5 - 24.9						
25 + (give actual size)						
TOTAL	11					

3-66

STREAM SURVEY STATION REPORT

FI-242

DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

NAME OF STREAM: Red River	Survey Station No.: 1	POINT OF EXAMINATION: Upstream from rivers mouth. Sec. 15, T48N, R15W.	
COUNTY: Douglas			
Township: 48N	Range: 15W	Section: 15	Distance Sampled (ft.): 6-800'
GEAR USED: 12 Volt A.C. back pack shocker.			
Avg. Width (ft.): 15'	Avg. Depth (ft.): 0.8	Vol. of Flow (c.f.s.): 2.0 est.	VELOCITY: [X] Sluggish to [X] Moderate [ ] Rapid
Max. Flood Crest (ft.): 4'			

WATER: [X] Clear [ ] Stained [ ] Dirty	CONDUCTANCE: C_f ..... C_{77} 418	TEMPERATURE: 61° Water 77° Air 12:00 p.m. Time	pH: 7.6	M.P.A.: 292 ppm	
WATER LEVEL CONDITIONS: .....In. Below X Normal .....In Above	PRIOR WEATHER CONDITIONS: Hot - light rain night before.				
POLLUTION: None					

STREAM BOTTOM TYPES (%): .....Bedrock .....Hardpan Clay in places. .....Boulder .....Rubble .....Gravel ..100..Sand .....Silt .....Marl .....Detritus

POOL GRADE: B

POOL-RIFFLE RATIO: 2

AQUATIC VEGETATION (Species)	Abund.	AQUATIC VEGETATION (Species)	Abund.	AQUATIC VEGETATION (Species)	Abund.
Instream Algae	A				

INSTREAM COVER	Scarce	Common	Abundant	Stable	Unstable	AQUATIC LIFE	Scarce	Common	Abundant
Undercut banks			x			Stonefly	0		
Rocks, boulders	None					Mayfly	0		
Logs, trees			x			Caddisfly	0		
Debris		x				Shrimp	0		
Aquatic Vegetation	x					Crayfish	0		

STREAM BANK VEGETATION

.....% Cultivated .....70.....% Upland Hardwood Aspen, birch, ash .....% Swamp Conifer

.....% Firm Pasture .....30.....% Upland Conifer cedar, balsam fir, spruce W. .....% Shrub Marsh

.....% Meadow Pasture .....% Swamp Hardwood .....% Open Marsh

STREAM COVER: [ ] Dense [ ] Partly Open [X] Open

BANK EROSION: [ ] Heavy [X] Medium to [X] Light [ ] None — bank slides in places.

BANK HEIGHTS: To 10' in places.

FISHABILITY: [ ] Excellent [X] Good [ ] Fair [ ] Poor

DAMS	Number	Height	Pool Area Above
Man-made	0		
Beaver (active)	0		
Beaver (inactive)	0		

REMARKS
Rock Bass - 1
White sucker - 111
N. Pike - 1 - 10 lbs.

No trout seen or taken - excellent looking stream, however, there is an obvious absence of aquatic life (fish and invert.) cover is excellent with deep blue-green pools and root tangles providing most of the cover. Bottom is 100% shifting sand with an occasional clay pocket - stream cover is very scenic with, cedar, birch, aspen and ash predominating. (shocker wire broke)

(Use back of sheet for additional remarks)

DATE OF SURVEY	INVESTIGATOR
August 12, 1971	S. Johannes

REV. 6-68

LIMNOLOGY
FORM 3600-60

DEPARTMENT OF NATURAL RESOURCES

County .....Douglas..... 1 6 Waters .....Red River..... 3 4 7 8

Location: Section .....10..... Township ..140N..... Range .....45W... 7

Area (acres): .....1.6..... 8 9 10 11 12 13

Type of Water: Lake ..... Stream .....x..... Impoundment 14

Dimensions: Length (miles and tenths) .....5.0..... 15 16 17 18 Width .....10..... 19 20 21 22

Depth: Mean .....0.6..... Maximum (feet) 23 24 25
> 20 feet (percent) 26 27
< 3 feet (percent) 28 29

Shore Length (miles and tenths): .....10.0..... 30 31 32

Littoral Bottom Types (percent): Sand .....95..... Clay .....5.....(Hardpan) 33 34
Gravel ..... Hardpan 35 36
Bedrock ..... Boulder ..... Rubble 37 38
Silt or Muck ..... Marl ..... Detritus 39 40

Direct Drainage Area (square miles): .....5.65..... 41 42 43 44

Watershed Land Cover (percent): Agriculture .....
Wetland .....1..... Wild .....99..... 46 46 47 48

Watershed: Area (square miles) .....12.20..... 49 50 51 52

Inlets: Number .....1..... Width (feet) ..... Navigability .....No..... Volume 53

Outlet: Width (feet) .....15..... Navigability .....Yes..... Volume ....2.0..... 54

Landlocked: ☐ YES ☒ NO .....Outlet to St. Louis River..... 55

Water Control Structure:
Owner ..... Height (feet) ..... Type ..... Purpose 56 57

Water Source: Drainage ..... Seepage ..... Spring .....x..... Drained 58

Flow of Outlet (cfs): .....20 cfs..... 59 60 61

Water Chemistry:
Date .....Aug. 12, 1971..... MPA Alkalinity (ppm) .....292..... 62 63 64

pH: 65 66

Phosphates: (PO_4) Total ..... Dissolved 67 68 69

Conductance: C ..... ambient temp. $C_{77°F}$ .....118..... 70 71 72

Watercolor: Clear ....x.. Lt. Brown ..... Med. Brown..... Drk. Brown ..... Turbid 73

Secchi Disk (depth in feet): 74 75
Secchi Disk Conditions: .....

Gradient Ft./mile
Upper Thermocline Depth (feet): .....24..... 76 77 Chloride (ppm) 78 79

Comments: .....
.....

REV. 4-70 Signed .....S. Johannes..... (Compiler) Date .....Aug. 12, 1971.....

FISH DATA
FORM 3600-61

DEPARTMENT OF NATURAL RESOURCES

County Douglas 1 6 Waters Red River 7 8
S10, T18N, R15W

Use Problems

Winterkill: Yes ..... No ....X.... Frequency 7

Macrophytic Vegetation

Yes ..... No ....x.... Control Measures 8

Species	Abundance	Species	Abundance	Species	Abundance

Algae: Yes ..... No .....X... Species 9
Carp: Yes ..... No .....X... Comment on Condition 10
.....
Stunted Panfish: Yes ..... No ....X..... Species 11
Pollution: Yes ..... No ....X..... Source 12
Fluctuating Water Levels: None ..... Man ..... Natural ....x..... Range .....2 - 3'..... 13
Basic Management: ~~Northern Pike - Panfish~~ Entire length Class "C" Brook 14
trout 5.0 miles
.....
.....
.....
.....

Fish Species: Describe as Present (P), Common (C), or Abundant (A)

Esocidae
- Muskellunge 15
- Northern pike ...P... 16
- Mud pickerel 17

Percidae
- Walleye 18
- Sauger 19
- Perch 20

Centrarchidae
- Largemouth bass 21
- Smallmouth bass 22
- Bluegill 23
- Black crappie 24
- White crappie 25
- Rock bass ...P... 26
- Pumpkinseed 27
- Warmouth 28
- Green sunfish 29

Serranidae
- White bass 30
- Yellow bass 31

Ameiuridae
- Channel catfish 32
- Flathead catfish 33
- Black bullhead 34
- Brown bullhead 35
- Yellow bullhead 36

Salmonidae
- Lake trout 37
- Brook trout ...C... 38
- Brown trout 39
- Rainbow trout 40
- Cisco 41
- Whitefish 42

- Carp 43

Catostomidae
- White sucker ...C... 44
- Buffalo 45
- Spotted sucker 46
- Quillback 47
- Sturgeon sucker 48
- Redhorse 49
- Lake chub sucker 50

Lepisosteidae
- Longnose gar 51
- Shortnose gar 52

- Bowfin 53

- Mooneye 54

- Gizzard shad 55

- Burbot ...P... 56

- Sheepshead 57

Acipenis
- Rock sturgeon 58
- Shovelnose sturgeon 59

Cyprinidae
- Bluntnose minnow 60
- Common shiner 61
- Golden shiner 62
- Redbelly dace 63
- Creek chub ...C... 64
- Emerald shiner 65

Other species 66
....Sculpin.....C 67
..... 68
..... 69
..... 70
..... 71
..... 72
..... 73
..... 74
..... 75
..... 76
..... 77
..... 78

~~Crayfish~~ 2 79

Signed S. Johannes (Compiler) Date Aug. 12, 1971

Rev. 1-70

PUBLIC ACCESS AND GAME ASSETS
FORM 3600-66

DEPARTMENT OF NATURAL RESOURCES

County Douglas [1 6] Waters Red River S10, T48N, R15W [- - 7 8]

Access

Parks (name and number): Town [0] City [0]
County [0] State [0] Federal [0]
Access Roads With Parking (number):
Town [0] City [0] County [0] State [0] Federal [0]
Access Roads Without Nearby Parking (number):
Town [0] City [0] County [0] State [0] Federal [0]
Navigable Water Access: Yes x No Name St. Louis River
Unimproved or Difficult Access: Yes No x
Wilderness (describe)
Commercial and Cottage Facilities (number): Resorts [0] Boat Rentals [0]
Campgrounds [0] Cottages or Dwellings [0] Private Camps [0]
Observations:

GAME RESOURCES

Type of Wetland Area of Adjoining Wetland (acres) [3]
Percent Woody [5 0] Percent Nonwoody [5 0]
Muskrat (significant or insignificant): Yes No x [2]
Beaver (presence or absence): Yes x No [1]
Waterfowl:

Broods	Yes x	No		Mallard	Yes x	No	
Black	Yes	No x		Teal	Yes x	No	
Wood	Yes x	No		Hooded Merganser	Yes	No x	
Coot	Yes x	No		Loon	Yes	No x	
				Heron Rookery	Yes	No x	

Other

Migration:

	Puddle Ducks	Diving Ducks	Coot	Canada Geese	Other
Spring	10-100	1-10	1-10	0	0
Fall	10-100	1-10	1-10	0	0

Restrictions on Hunting (refuges, local ordinances): None
Observations

OTHER DATA

Access Priority (describe): Required eventually
Public Frontage (miles and hundredths): Douglas County [0.50]
Watershed Number:
Observations:

Signed S. Johannes (Compiler) Date Aug. 12, 1971

REV. 4-70

RED RIVER

Red River 8-25-64 NW Quarter Superior. Air temperature 59° F. Water temperature 56°F. Mouth of river sandy, silt bottom, approximately 30 wide, average 6 feet plus at entrance, gradually tapering off in width and depth, water dark, banks, 4 foot, few dead heads floating about ½ mile upstream. Water begins to show a clay suspension, banks becoming higher, logs and uprooted trees numerous in stream, imbedded in the banks and washed up as high as 20 feet from present water level. Debris covers bottom stream, holes are created from logs and log jams acting as digger poles, some of the holes are 6 feet deep. Current is a medium flow (although it had heavy rain for 4 days) banks are about 15-20 feet high. Feeder Creek believed to have been dry up to the heavy rains. River was checked for about 2½ miles upstream, shocked by stream shocker and pack shocker. Fish collected:

Northern pike			Burbot	Creek chub			Sucker		Pumpkinseed	Muddler
9.5	7.5	7.0	3.8	4.5	5.3	2.1	7.2	3.1	4.1	numerous
8.7	7.0			5.5	3.2	2.9	2.7	2.4	(only one)	
8.2	7.2			3.3	3.1	4.2	4.7	3.8		

Game fish scarce, no trout, numerous creek chub. Approximately 1 mile shocked, 1.5 miles checked on. Beaver present and active (bank beaver) ducks flashed from river, trees consists of ash, alders, dogwood, tall poplar, evergreens, red clay banks, often badly eroded. Bottom upstream badly silted, silt and sand bottom no gravel section.

Red River flows into St. Louis River and is approximately 5 miles long in Wisconsin. The upper portions of the river lie within the Minnesota boundary. River is located in T47N, T48N, R15W. The north of the river averages, 30' in width and is around 6' deep tapering off upstream. Approximately 2 miles upstream river is 15' in width and 1' in depth. Bottom type is a sandy silt with embedded logs and debris. Water is discolored a dark brown in the downstream area. Banks are 4' high and are well shaded by alders, dogwood, ash and aspen. About ½ mile upstream the water begins to show a clay suspension from excessive erosion along the clay banks. Banks in this area extend 15-20' vertically and displaying flood evidence right up to the top. Logs and uprooted trees become numerous in the stream and are located in a bank and the bottom. Deep pools are created from logs acting as digger poles, with some of the pools 6' deep or more. Current is a moderate flow although it had rained heavy for around 2 days straight. Feeder Creek believed to have dried up to heavy rains. Beaver were found to be presently active and cutting along the banks. The beaver were bank dwellers because no evidence of a house was found. Large trees have been washed into the river from erosion undercutting the banks. Bottom typs is a soft silt and sand with clay area. Surrounding country is high and large stumps indicate the area was at one time a large coniferious forest. Presently it is a hardwood upland. Fish collected were: creek chub, suckers, muddlers, pumpkinseed, burbot and northern pike. No trout were shocked and the present habitat seems inadequate for trout. Years ago game warden from Superior planted trout into the river from St. Louis River. From investigation trout evidently didn't adapt to the habitat. The northern pike population was low and the fish had no size range. Creek chubs and suckers were numerous. Total length shocked: 1-1½ miles.

Surveyed by Charles Johnson.

Red River, Douglas County

The Red River flows into St. Louis River and is approximately 5 miles long in Wisconsin. The upper portions of the river lie within the Minnesota boundary. The river is located in Townships 47 and 48 north and range 15 west. The mouth of the river averages 30 feet in width and around 6 feet in depth, tapering off upstream. Bottom type is a sandy silt with embedded logs. Water is discolored a dark brown in the lower portion. Banks are 4 foot high and are well shaded by alders, dogwood, ash and aspeh. About a half mile upstream water begins to show a clay suspension from erosion along the clay banks. Bank extended between 15 and 20 feet high with flood evidence right up to the top.

Logs and uprooted trees become evident and numberous in the stream, located in the banks and the bottom. Deep pools are created from logs and log jams acting as digger poles with some of the pools 6 feet deep or more. Current is a moderate flow although it had rained heavily for around four days straight. Feeder creek believed to have been dried up - heavy rains. Beaver were found to be presently active and cutting along the bank. The beaver were bank dwellers - no evidence of a house. Ducks were flushed from the river. About 2 miles upstream the river is around 15 feet wide and has a corduroy bottom with numerous logs corsswise. Water depth is around 12 inches.

Ducks were flushed from the river. About 2 miles upstream river is about 14 feet wide and a foot deep. Bottom type is a soft sand and silt with an abundance of logs. Bottom appears like a corduroy road from past history. Large trees have been washed into the river from erosion undercutting the banks. Surrounding county is high andlarge stumps indicate the area was at one time a large coniferous forest. Presently it is a harwood upland with aspen.

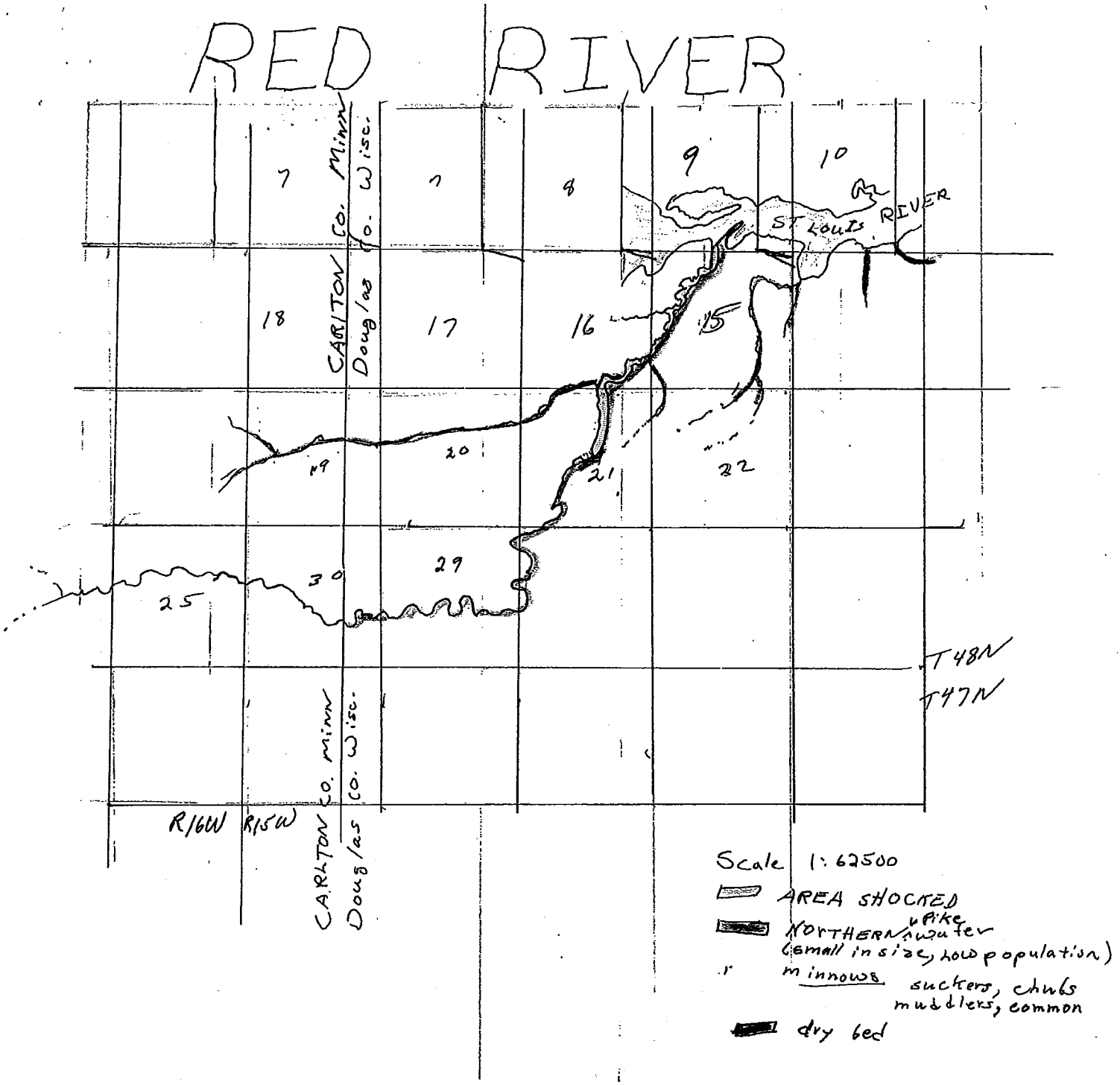
Fish collected were creek chubs, suckers, muddlers, pumpkinseed, burbot and northern pike. No trout were shocked and the present habitat seems inadequate for trout. Years ago a game warden from the west central area planted trout into the river from the St. Louis River. From our investigation trout evidently didn't adopt to the habitat or high water conditions flushed them out into the St. Louis. The northern pike population was low and the fish had no size range. Creek chubs and suckers

were numerous. The total length of the area shocked was between 1½ to 2 miles long.

Charles E. Johnson

ck
8-25-64

Q/K 5-21


RED RIVER
ST LOUIS RIVER
CARLTON Co. Minn
Douglas Co. Wisc.
7
8
9
10
18
17
16
15
19
20
21
22
25
30
29
T48N
T47N
R16W
R15W
Scale 1:62500
AREA SHOCKED
NORTHERN (pike, muskellunge small in size, low population)
minnows suckers, chubs mudders, common
dry bed

WISCONSIN CONSERVATION DEPARTMENT
Madison, Wisconsin

FI-242

STREAM SURVEY

NAME OF STREAM	COUNTY
Red River	Douglas

POINT OF EXAMINATION: Sec. 15, 16 and 21 T48N R15W

AVERAGE WIDTH	AVERAGE DEPTH	VELOCITY
15-30'	12" upstream 5' downstream	

VOLUME OF FLOW	DEGREE OF FLOODING
	10 feet above present level

COLOR	TURBIDITY	COVER
Dark brown	turbid - medium brown	Poplar, ash, dogwood, pines evergreen alders

TEMPERATURES AIR:	WATER:	TIME:
59°F	56°F	10:00 a.m. - 3:00 p.m.

BOTTOM TYPES: Organic material (trees, brush, logs) jam up the river channel - clayish sand composition - upstream silt and sand

FISH COLLECTION

SPECIES	NUMBER	SIZE RANGE
Northern pike	?	7.0 - 9.5 (7.0,7.0,7.2,7.5,8.2 8.7, 9.5)
Burbot	1	3.8
Creek chubs	Numberous (200)	2.1 - 5.3
Suckers	Numerous (100)	2.4 - 7.2
Muddlers	Numerous	
Pumpkinseed	1	4.1
No trout		

GEAR USED	DISTANCE SAMPLED
Stream shocker and pack shocker	1½ miles

REMARKS: Downstream portion approximately 30 feet wide, 5 feet deep, water dark brown. Velocity sluggish, water murky because of poor visibility. No fish shocked in downstream area. Upstream river becomes narrower. Bottom is like an old corduroy road with an unlimited amount of trees and setments covering the bottom. Instream cover excellent under these obstacles. Aquatic insects scarce

DATE	INVESTIGATOR -- Signature
8-25-64	Charles E. Johnson

REV. 11-64

WISCONSIN CONSERVATION DEPARTMENT
Madison, Wisconsin 53701

FI-318

STREAM SUMMARY REPORT

Name Red River County Douglas

Location Sec 15, 16, 21 T48N R15W

Size: Average width of trout water — ft. Total length of trout water — mi.

Area of trout water — acres. Total length of stream 5 mi.

Drainage Area: Direct .7 in Wis Total .7 in Wis

Flow: ____ cfs. Average velocity Moderate

Temperatures: Average 56° Minimum ____ Maximum ____

Watershed Land Use: hardwood upland, aspen

Bank Cover: 100% forest

Instream Cover: embedded logs & trees common to abundant & many undercut banks

Pool Grade and Pool-Riffle Ratio: ____

MOA: ____ **Conductance:** ____

Problems (List): ____

Fishing Conditions: Access Poor; By river only

Fishability Excellent; creek is wide & easily reached from the St. Croix River

Fishing intensity Slight

Comments: ____

Date 8-25-64 **Investigator** C. Johnson

3-66

WISCONSIN CONSERVATION DEPARTMENT
Madison, Wisconsin 53701

Fi-319

FISH DATA SUMMARY

METHOD OF SAMPLING	AREA SAMPLED	NO. MARKED FISH STOCKED	STOCKING DATES
Stream Shocker 220 V AC Rock Shocker 110 V AC	3.60 [redacted]	0	—

SPECIES		STATION NUMBERS 1	TOTAL
	Fingerling		—
	Yearling		—
	Adults		
	Marked Fish		
	TOTAL		
	Fingerling		
	Yearling		
	Adults		
	Marked Fish		
	TOTAL		
	Fingerling		
	Yearling		
	Adults		
	Marked Fish		
	TOTAL		
	Fingerling		
	Yearling		
	Adults		
	Marked Fish		
	TOTAL		
OTHER SPECIES			
NP		7	
Burbot		1	
Creek Chubs		200	
Suckers		100	
Pumpkinseed		1	
Miscellaneous		numerous	
	TOTAL	309	
GRAND TOTAL		309	

MODAL SIZES OF THE PRIMARY SPECIES

NUMBER PER ACRE		ESTIMATED POUNDAGE PER ACRE	
TROUT	OTHER SPECIES (Game)	TROUT	OTHER SPECIES
—	2	—	—

EVALUATION

DATE	INVESTIGATOR
8-25-64	Charles E. Johnson

3-66

Douglas Co.

WISCONSIN CONSERVATION DEPARTMENT
Madison 2, Wisconsin

STREAM SURVEY

Name of Stream: Red River Point of Examination: On Wisconsin side of Minn-Wisc border S30 T48N R15W

Average Width: 10 ft Average Depth: 6 inches Velocity: Rapid

Volume of Flow: 3 cfs Degree of Flooding: 5 ft above, appears to be severe at times

Color: white Turbidity: slightly Cover: Medium bank (alder, ash, aspen

Temperatures: Air 69 F Water 58 F Time 2:00

Bottom Types: 75% silt, 20% gravel, 5% boulder

FISH COLLECTION

Species	Number	Size Range

Stan: This represents only the extreme headwaters. The lower area was to be reached by boat with Warden Evans and A. E. Smith - which never materialized - stream is very inaccessible (long walk)
Don

Gear Used: .... Distance Sampled: ....

Remarks: Fishing pressure appeared moderately heavy with fair to poor fishability. About a one mile walk from State line railroad tower to stream. River has very steep banks. Pool-riffle ratio: 90 : 10; pool grade B

Date: 7-15-53 Investigator: Donald K. Dunbar

4/53

WISCONSIN CONSERVATION DEPARTMENT
Madison 1, Wisconsin

Fi-241

STREAM MANAGEMENT RECORD

Name of Stream [illegible] River Trib. to .....

Drainage Area ..... Sq. Mi. County Douglas

Total Length [illegible] miles Average Width 8 feet

Use of Watershed .....

.....

.....

Water Supply .....

.....

Use of Water .....

.....

.....

Principal Sport Fish Brook trout Rough fish - suckers and chubs

Remarks and Recommendations Clay and sand bottom - clay and sand shoreline - vegetation abundant

.....

.....

.....

.....

Date ..... Investigator .....

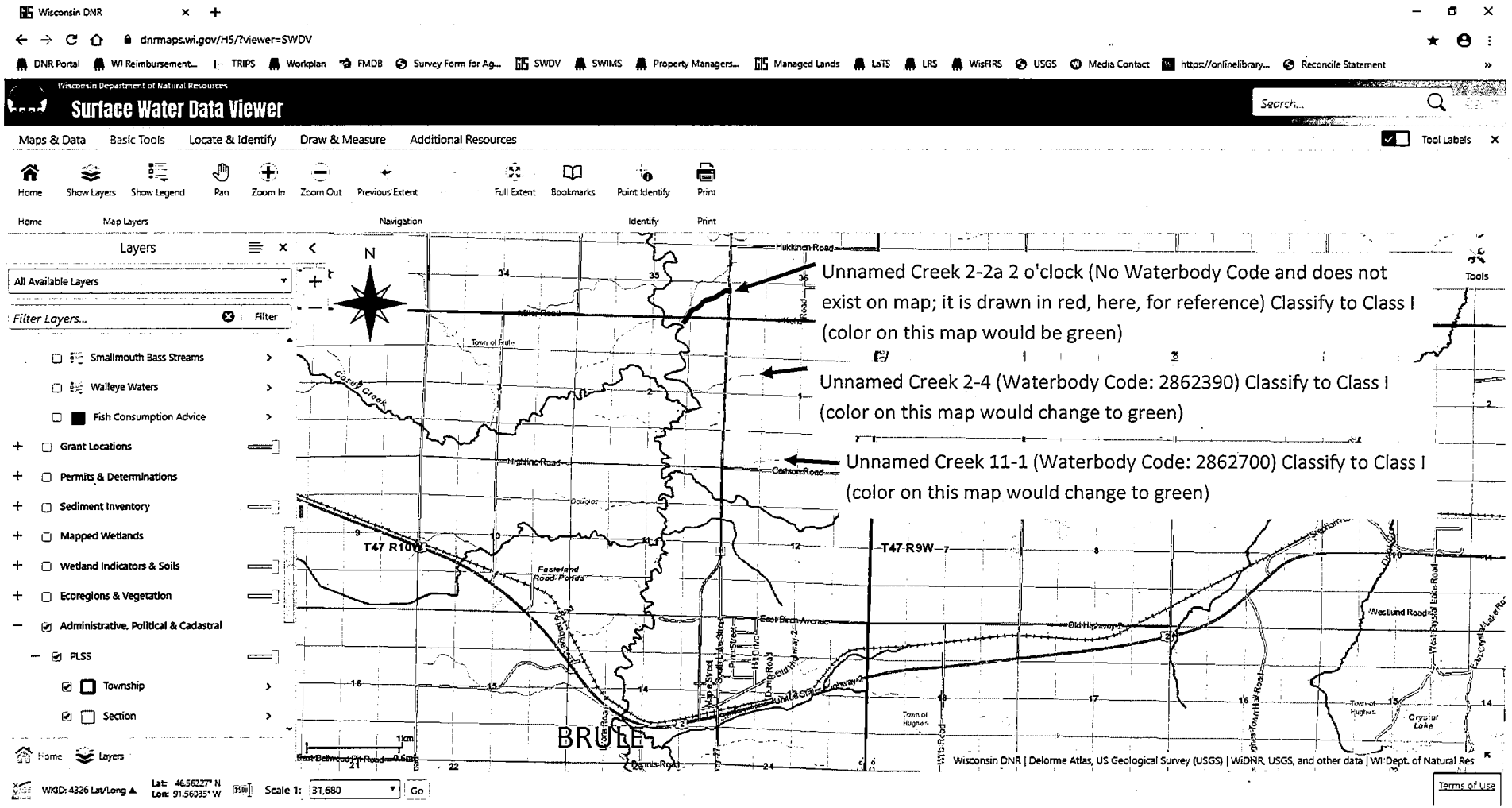
(Planting record on reverse side)

PLANTING RECORD

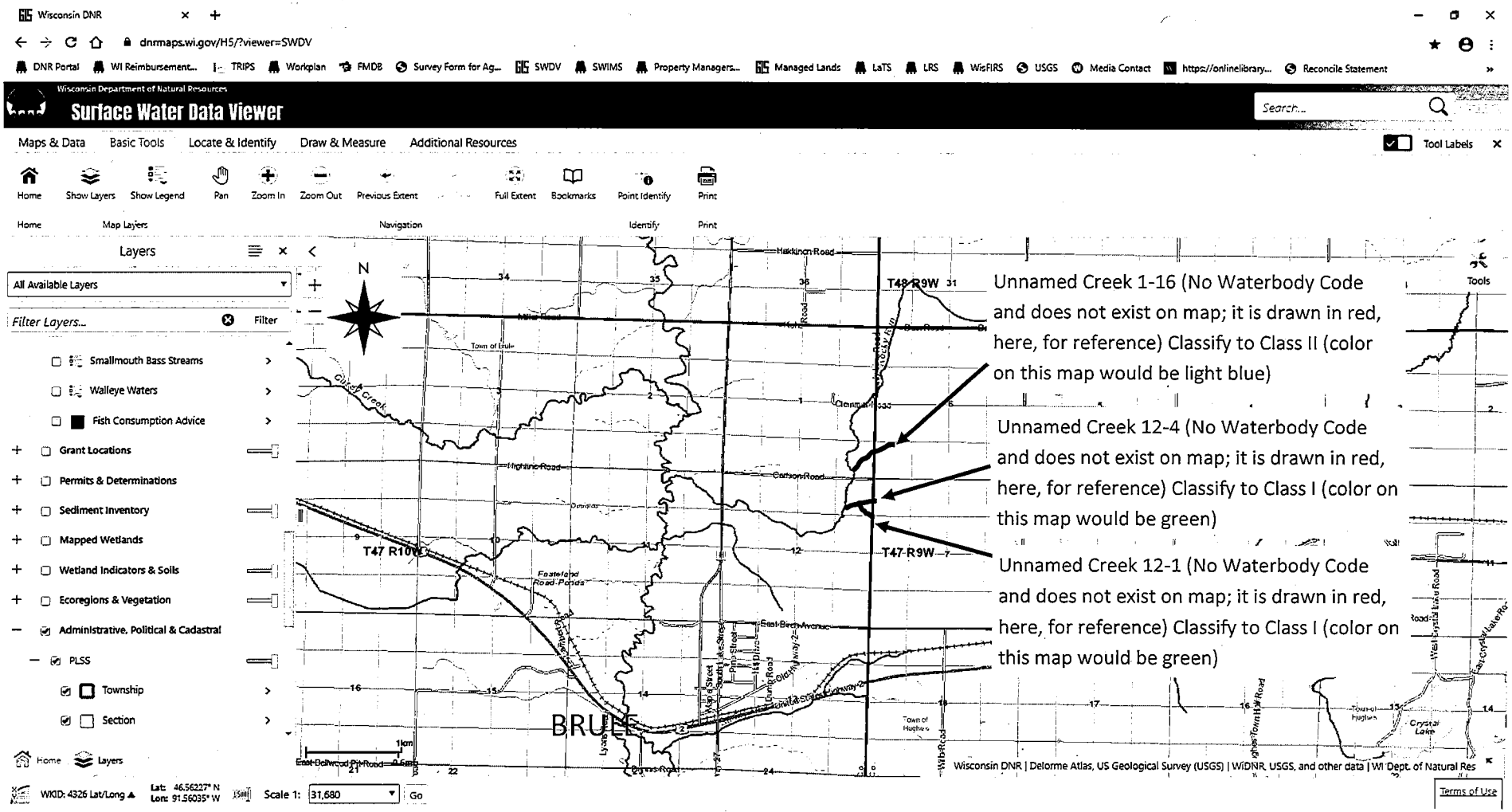
Fi-241

Date	Species	Number Planted	Size	Planting Site
1933	Brook	150		
1949	Brook	7,500	fingerling	
1950	Brook	6,875	fingerling	
1951	Brook	6,500	fingerling	
1952	Brook	6,500	fingerling	
1953	Brook	3,900	fingerling	

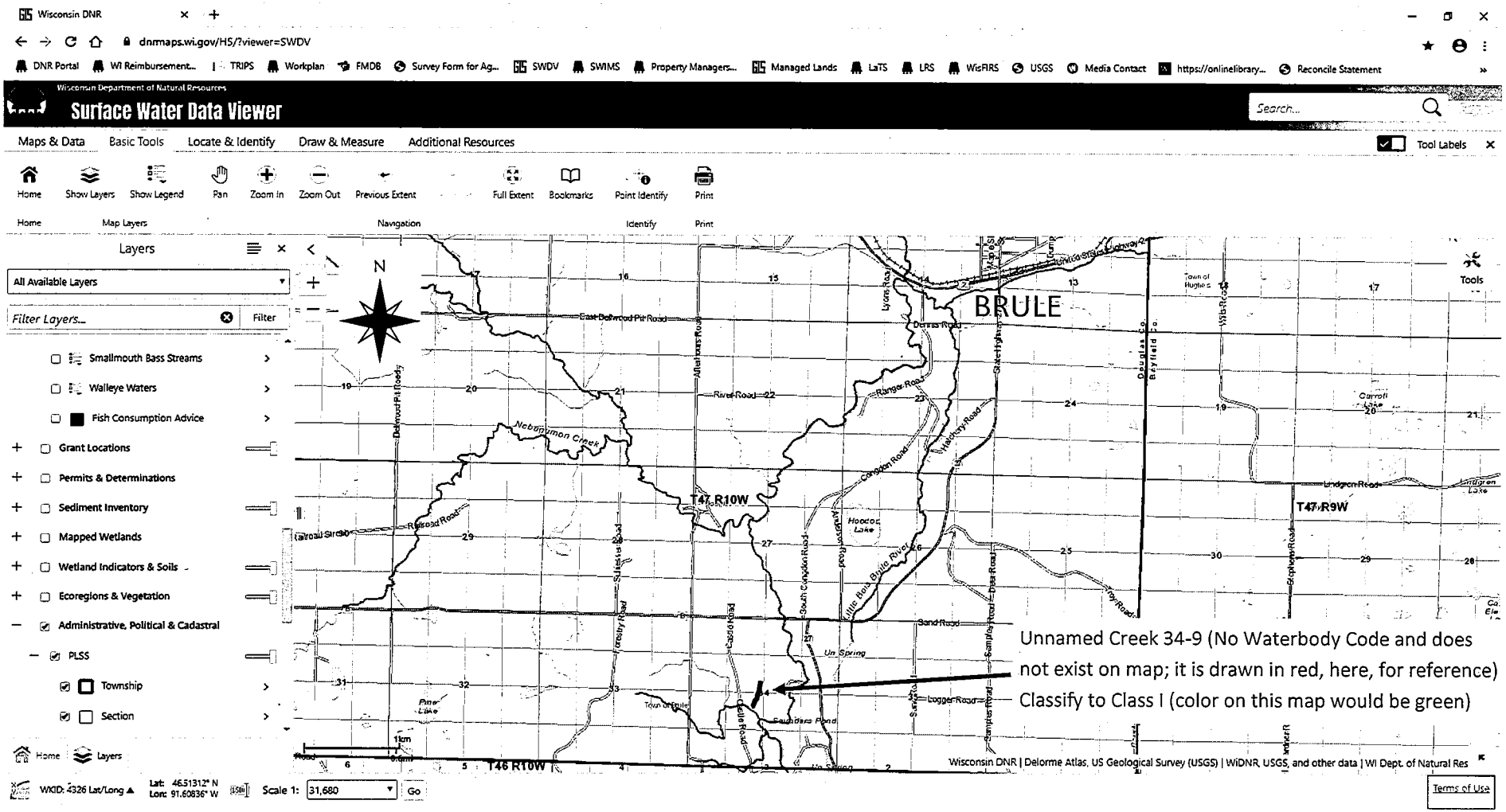
PART 3: Maps



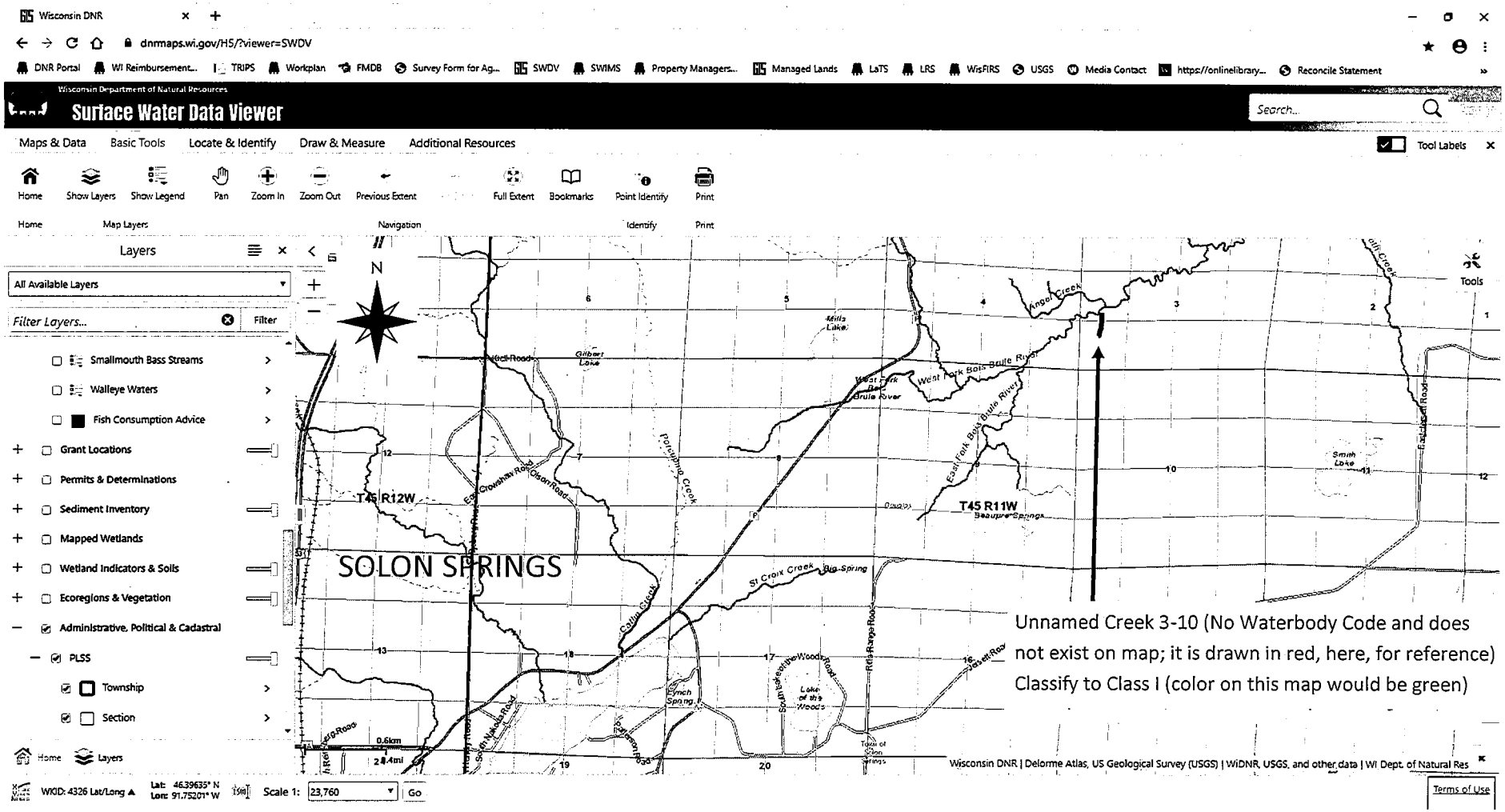
2020 Wisconsin DNR Proposed Trout Stream Classification Map—Douglas County (Map 3)
Wisconsin DNR—Superior
November 9, 2020



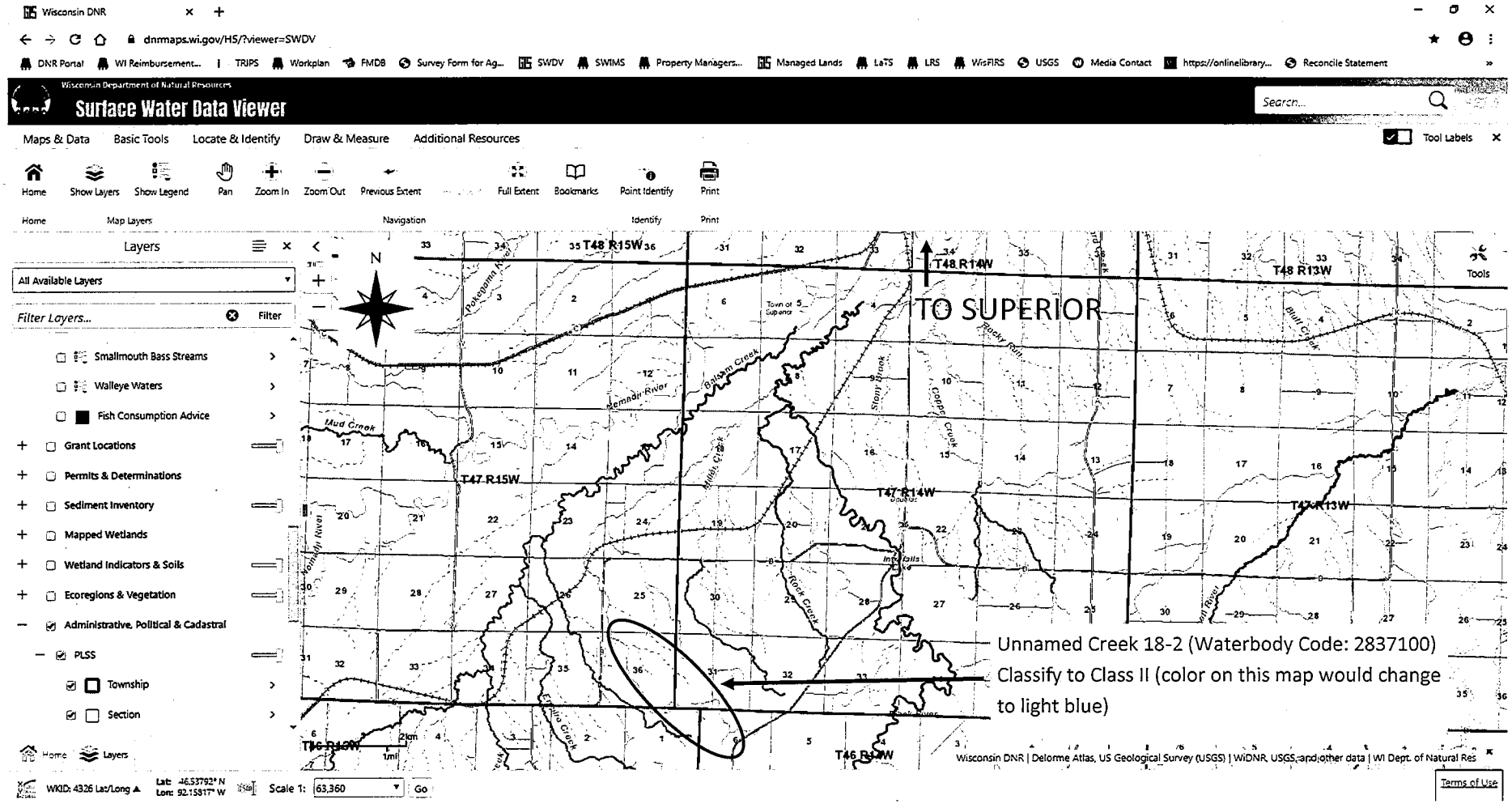
2020 Wisconsin DNR Proposed Trout Stream Classification Map—Douglas County (Map 4)
Wisconsin DNR—Superior
November 9, 2020



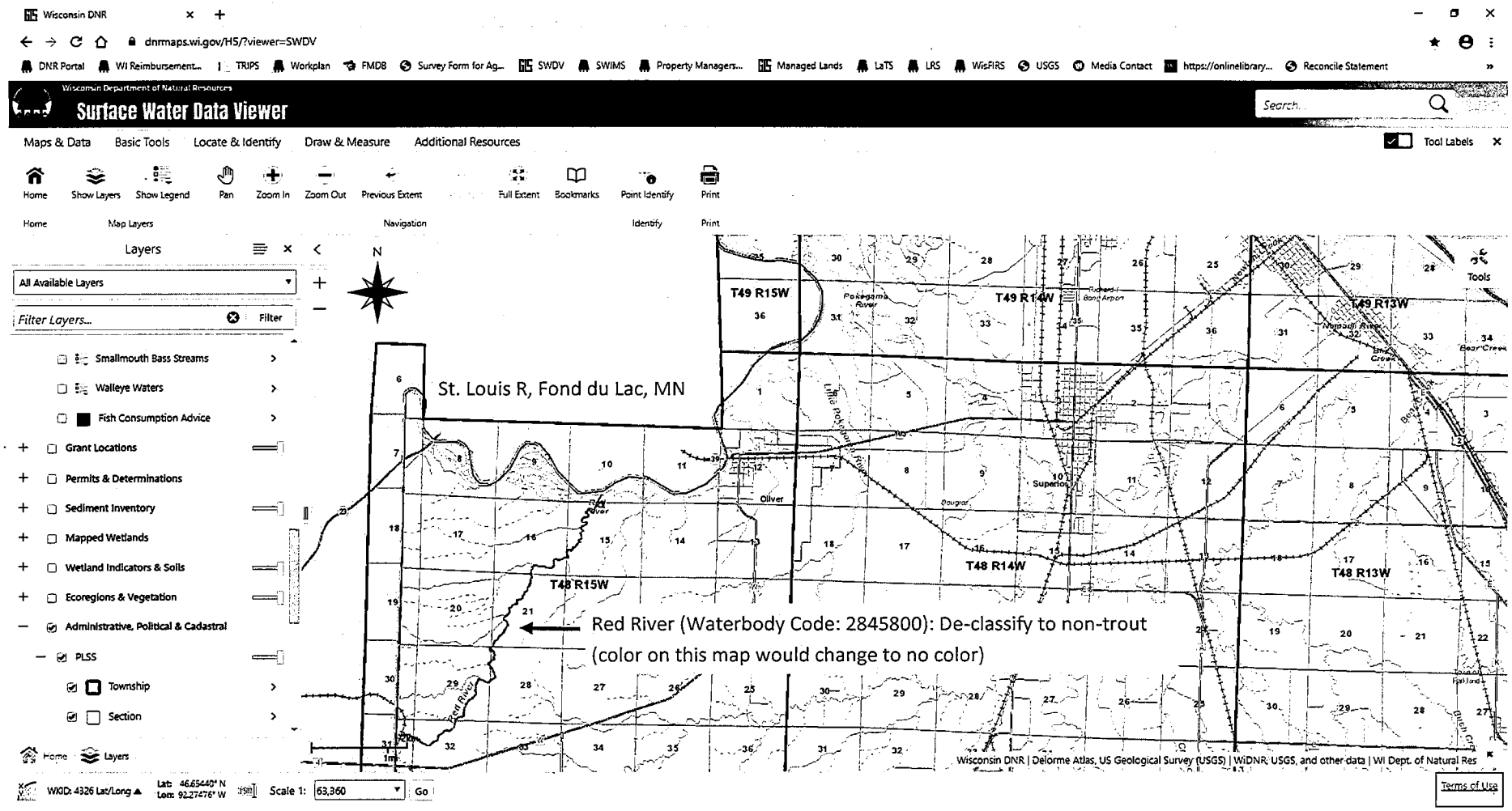
2020 Wisconsin DNR Proposed Trout Stream Classification Map—Douglas County (Map 5)
Wisconsin DNR—Superior
November 9, 2020



2020 Wisconsin DNR Proposed Trout Stream Classification Map—Douglas County (Map 6)
Wisconsin DNR—Superior
November 9, 2020



2020 Wisconsin DNR Proposed Trout Stream Classification Map—Douglas County (Map 2)
Wisconsin DNR—Superior
November 9, 2020



2020 Wisconsin DNR Proposed Trout Stream Classification Map—Douglas County ~~(Map 1)~~
Wisconsin DNR—Superior
November 9, 2020

PART 4: Correspondence and Public Notice

- Legislative committees, legislators, and county and municipal official notifications
- Newspaper public notice – Superior Telegram

Piszczek, Paul P - DNR

From: Piszczek, Paul P - DNR
Sent: Thursday, October 8, 2020 2:47 PM
To: sue.sandvick@douglascountywi.org; drthomp999@gmail.com; clerk@townofhighland.net; Zuchowski, Marie - MUN; villageofsuperior@yahoo.com
Subject: DNR Fisheries Public Notice - Trout Stream Classification: Douglas County
Attachments: 2020_Douglas_Co_Public_Notice_FINAL.pdf

Hello,

This email is being sent to all county, town, city, or village clerks per Wisconsin Department of Natural Resources Fisheries Management public notice procedures.

Please see the attached DNR public notice regarding the proposed classification of nine stream segments as trout water in Douglas County. The public notice will be published as a Legal Notice in the Superior Telegram print and e-editions on October 9, 2020.

This notice is also being emailed to legislators and legislative committee chairpersons whose districts include the proposed trout streams.

Please feel free to contact me if you have any questions.

Regards,
Paul

We are committed to service excellence.
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Paul Piszczek
Senior Fisheries Biologist – Lake Superior Basin Tributaries
Fish, Wildlife, & Parks Division
Wisconsin Department of Natural Resources
1701 North 4th Street
Superior, WI 54880
Phone: (715) 392-7990
paul.piszczek@wisconsin.gov

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Piszczek, Paul P - DNR

From: Piszczek, Paul P - DNR
Sent: Thursday, October 8, 2020 2:46 PM
To: Sen.Bewley - LEGIS; Rep.Milroy@legis.wisconsin.gov; Rep.Meyers - LEGIS
Subject: DNR Fisheries Public Notice - Trout Stream Classification: Bayfield and Douglas Counties
Attachments: 2020_Bayfield_Co_Public_Notice_FINAL.pdf; 2020_Douglas_Co_Public_Notice_FINAL.pdf

Hello,

This email is being sent to legislators and the chairpersons of the legislative committees with jurisdiction for natural resources issues per Wisconsin Department of Natural Resources Fisheries Management public notice procedures.

Please see the attached DNR public notice regarding the proposed classification of nine stream segments as trout water in Bayfield and Douglas counties. The public notice will be published as a Legal Notice in the Superior Telegram and the Ashland Daily Press print and e-editions on October 9, 2020.

This notice is also being emailed to county, city, town, and/or village clerks whose jurisdictions include the proposed trout streams.

Please feel free to contact me if you have any questions.

Regards,
Paul

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Piszczek, Paul P - DNR

From: Piszczek, Paul P - DNR
Sent: Thursday, October 8, 2020 2:38 PM
To: Sen.Cowles - LEGIS; Rep.Kitchens - LEGIS; Rep.Mursau - LEGIS
Subject: DNR Fisheries Public Notice - Trout Stream Classification: Bayfield and Douglas Counties
Attachments: 2020_Douglas_Co_Public_Notice_FINAL.pdf

Hello,

This email is being sent to legislators and the chairpersons of the legislative committees with jurisdiction for natural resources issues per Wisconsin Department of Natural Resources Fisheries Management public notice procedures.

Please see the attached DNR public notice regarding the proposed classification of nine stream segments as trout water in Douglas County. The public notice will be published as a Legal Notice in the Superior Telegram print and e-editions on October 9, 2020.

This notice is also being emailed to county, city, town, and/or village clerks whose jurisdictions include the proposed trout streams.

Please feel free to contact me if you have any questions.

Regards,
Paul

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DNR PROPOSES NEW TROUT STREAM CLASSIFICATIONS IN DOUGLAS COUNTY

SUPERIOR - Pursuant to NR 1.02(7)(c), Wis. Adm. Code, the Department of Natural Resources gives public notice of the classification of several Lake Superior tributary stream segments in Douglas County as Class I or Class II trout streams and declassification of one stream from Class I to non-trout. For the proposed Class I and Class II trout streams, the classifications are based on surveys that found naturally reproducing populations of resident and Lake Superior trout and salmon. The proposed declassification is based on surveys that did not find trout or salmon.

Classified Trout Waters in Wisconsin are defined as follows:

A Class I Trout Stream is a stream or portion thereof with a self-sustaining population of trout. Such streams contain trout spawning habitat and naturally produced fry, fingerling, and yearling in sufficient numbers to utilize the trout habitat; or contains trout with 2 or more age groups, above the age of one year, and natural reproduction and survival of wild fish in sufficient numbers to utilize the available trout habitat and to sustain the fishery without stocking.

A Class II Trout Stream is a stream or portion thereof that contains a population of trout made up of one or more age groups, above the age one year, in sufficient numbers to indicate substantial survival from one year to the next, and may or may not have natural reproduction of trout occurring; however, stocking is necessary to fully utilize the available trout habitat or sustain the fishery.

A Class III Trout Stream is a stream or portion thereof that requires the annual stocking of trout to provide a significant harvest; and does not provide habitat suitable for the survival of trout throughout the year, or for natural reproduction of trout.

The seven streams proposed for Class I are:

Unnamed Creek 2-2a 2 o'clock (48N R10W S36; 48N R10W S35; and 47N R10W S2), Town of Brule

- 0.42 mile beginning at the confluence with the Bois Brule River upstream to County Highway H, approximately 0.13 mile north of the intersection with Koho Road.

Unnamed Creek 2-4 (T47N R10W S1 to T47N R10W S2), Town of Brule

- 0.44 mile beginning at the confluence with the Bois Brule River upstream to the headwaters, approximately 0.30 mile northeast of County Highway H.

Unnamed Creek 11-1 (T47N R10W S1 to T47N R10W S2, and T47N R10W S11), Town of Brule

- 0.72 mile beginning at the confluence with Rocky Run, approximately 0.21 mile westsouthwest of the intersection of

- County Highway Y and Carlson Road, upstream to the headwaters that are approximately 0.07 mile north of Carlson Road.

Unnamed Creek 12-4 (T47N R10W S12), Town of Brule

- 0.28 mile beginning at the confluence with Rocky Run, approximately 0.27 mile south of where Rocky Run crosses Carlson Road, upstream to County Line Road, approximately 0.23 mile south of the intersection with Carlson Road.

Unnamed Creek 12-1 (T47N R10W S12), Town of Brule

- 0.13 mile from the confluence with Unnamed Creek 12-4 (T47N R10W S12) upstream to County Line Road, approximately 0.28 mile south of the intersection with Carlson Road.

Unnamed Creek 34-9 (T47N R10W S34), Town of Brule

- 0.35 mile from the headwaters to the confluence with Cutler Creek, approximately 0.16 mile east of where Cutler Creek crosses Castle Road.

Unnamed Creek 3-10 (T456 R11W S3), Town of Solon Springs

- 0.35 mile from headwaters downstream to Bois Brule River, approximately 1.2 miles northeast of Rifle Range Road and 0.07 mile south of the Swamp Angel Creek confluence with Bois Brule River.

The two streams proposed as Class II are:

Unnamed Creek 18-2 (T47N R15W S36; T47N R14W S31; T46N R14W S6), Town of Summit

- 3.59 mile beginning at the northern border of T47N R15W S36 NWNW, approximately 0.12 mile east of County Highway B, upstream to the headwaters that are 0.02 mile northeast of State Highway 35 about 0.40 mile south of the intersection with Town Line Road.

Unnamed Creek 1-16 (T47N R09W S6 to T47N R10W S1), Town of Brule

- 0.36 mile beginning at the confluence with Rocky Run, approximately 0.04 mile north of the Rocky Run crossing at Carlson Road.

The one stream proposed to be declassified to non-trout water is:

Red River (T48N R15W S32; T48N R15W S31; T48N R15W S29; T48N R15W S28; T48N R15W S21; T48N R15W S16; T48N R15W S15; through T48N R15W S10), Town of Superior

- 6.3 miles beginning at the Wisconsin-Minnesota boarder, approximately 0.42 mile north of County Highway W, downstream to the confluence with the St. Louis River.

The Department shall waive any hearing requirement on this classification unless a written request for hearing is received before November 9, 2020. Requests should be sent to Paul Piszczek, Senior Fisheries Biologist, Wisconsin DNR,

1701 North 4th Street, Superior, WI
54880.
(Oct. 9, 16, 2020) 2862121 WNAXLP