

Region NOR County Douglas Report Date 12/22/76 Classification LFF/LAL

Water Body: Bardon Creek & Trib to

Discharger: Northwestern High School

**If stream is classified as Limited Forage Fish (LFF) or Limited Aquatic Life (LAL), check any of the following Use Attainability Analysis factors that are identified in the classification report:**

Naturally occurring pollutant concentrations prevent the attainment of use

Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met

Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place

Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the water body to its original condition or operate such modification in a way that would result in the attainment of the use

Physical conditions related to the natural features of the water body, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of aquatic life protection uses

Controls more stringent than those required by sections 301(b) and 306 of the Act would result in substantial and widespread economic and social impact

**Supporting Evidence in the report (include comments on how complete/thorough data is)**

Biological Data (fish/invert)

Chemical Data (temp, D.O., etc.)

Physical Data (flow, depth, etc.)

Habitat Description

Site Description/Map

Other: B/W PHOTOS

**Historical Reports in file:**

12/22/76

**Additional Comments/How to improve report:**

-no justification for Class's ns  
-need more information

Department of Natural Resources

INTRA-DEPARTMENT

MEMORANDUM

..... Spooner .....

Station

Date..... December 22, 1976.....

IN REPLY REFER TO: 3200

TO: Anthony S. Earl

FROM: L. G. Hansen

SUBJECT: Surface Water Classification (NR 104)  
Northwestern Junior-Senior High School, Douglas County

Northwestern Junior-Senior High School, located in the Town of Maple, Douglas County, discharges treated wastewater to the Bardon Creek watershed. The treatment system, designed to serve 700 students, consists of two septic tanks in series, a subsurface sand filter with an alternating dosing chamber, and a fill and draw polishing pond. Polishing pond effluent is discharged to a noncontinuous tributary to Bardon Creek.

The intermittent Bardon Creek watershed drains 13.3 square miles. Bardon Creek terminates in Lake Superior eight miles north of Northwestern Junior-Senior High School. The Bardon Creek watershed supports little aquatic life because of intermittent flow and complete annual winter kill.

Two maps and photographs are attached.

RECOMMENDATION

The noncontinuous (NR 104.02(1)(e)) tributary to Bardon Creek, receiving treated wastewater from Northwestern Junior-Senior High School, shall be classified as "marginal surface water" (NR 104.02(3)(b)). Bardon Creek, a noncontinuous stream (NR 104.02(1)(e)), shall be classified as "surface water not supporting a balanced aquatic community" (NR 104.02(3)(a)).

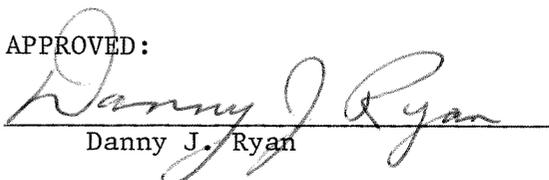


Ted R. Smith

TRS:mm

Attachments

APPROVED:

  
\_\_\_\_\_  
Danny J. Ryan

12/27/76  
\_\_\_\_\_  
Date

NOTED:

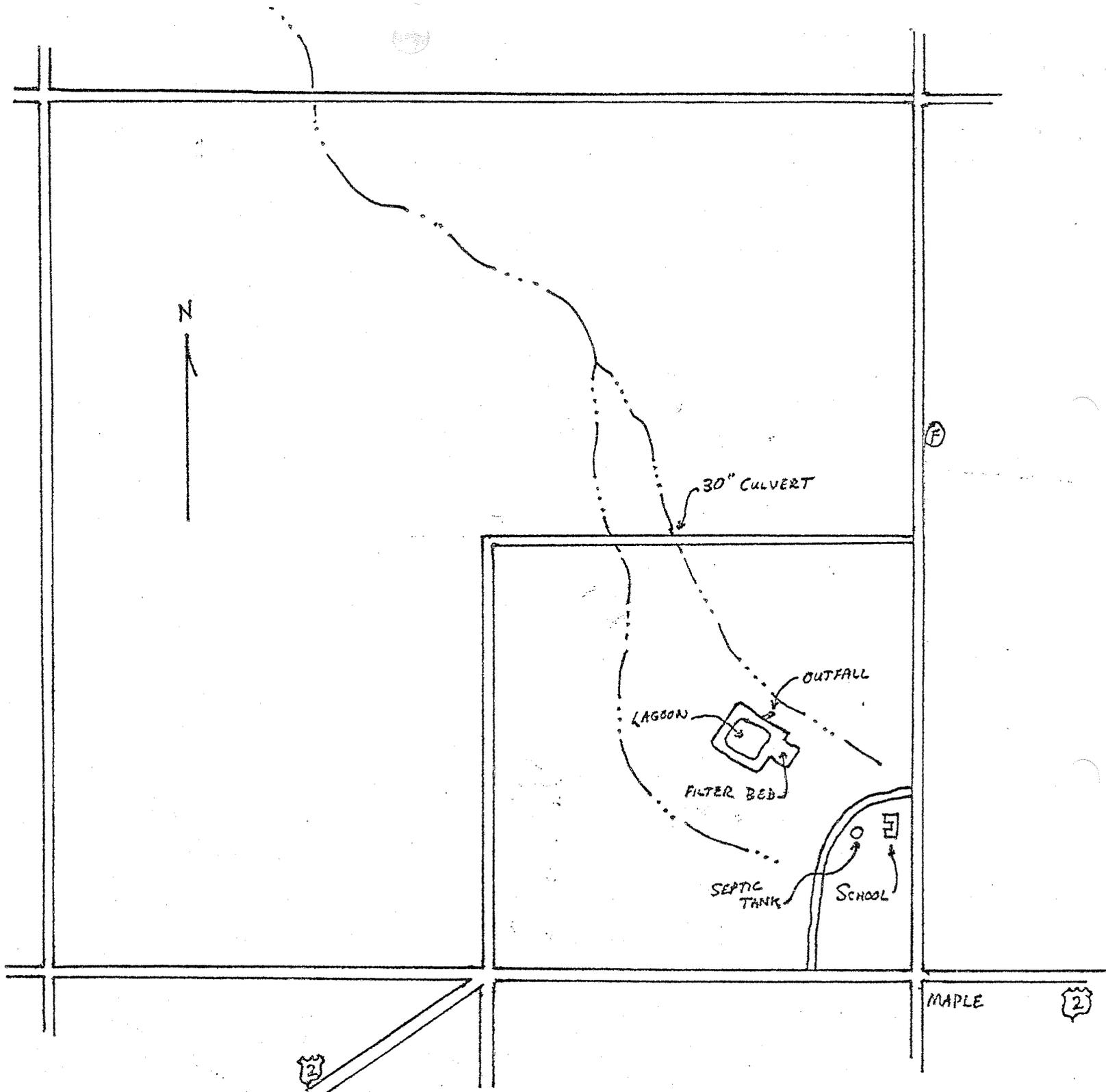
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Date

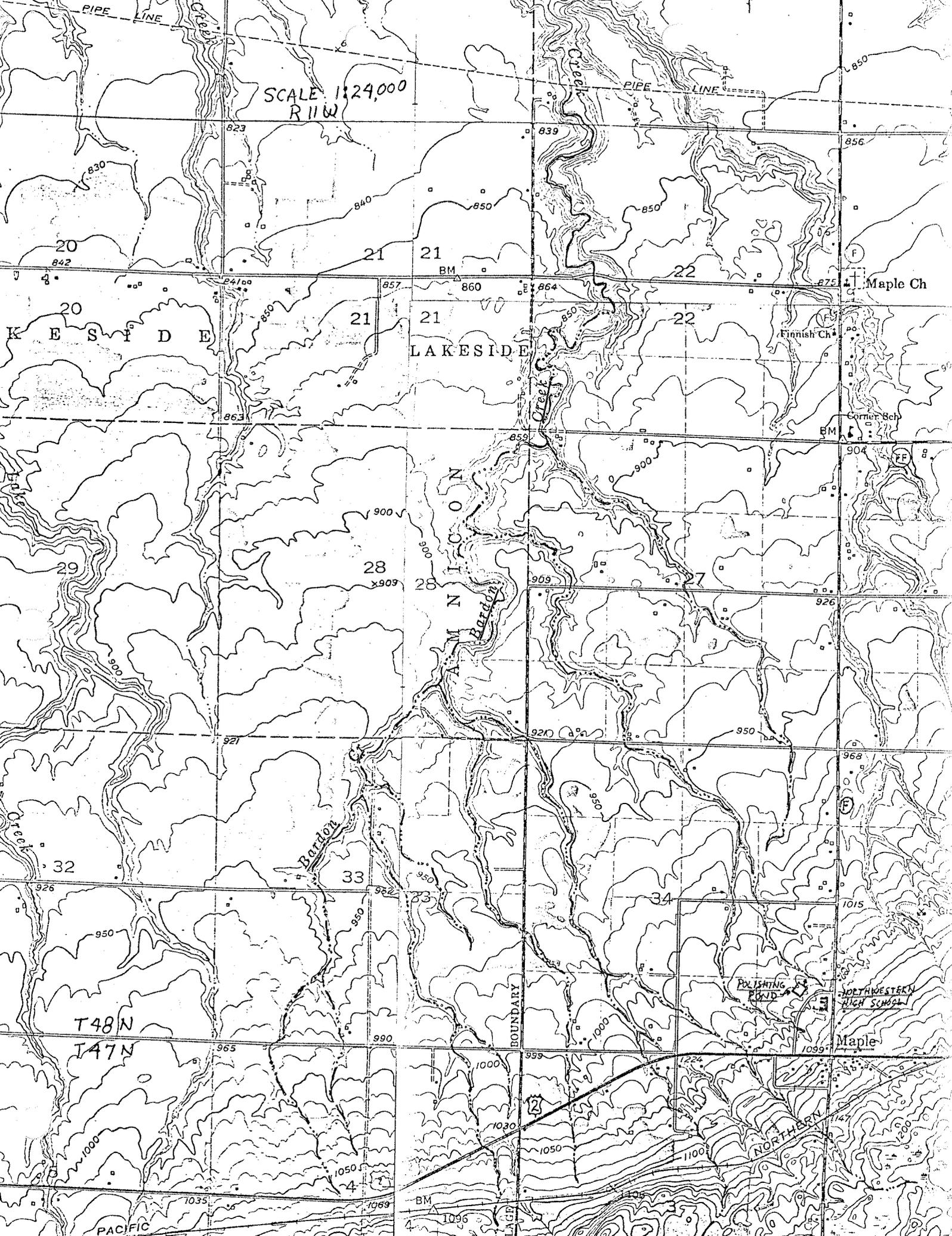
NORTHWESTERN  
HIGH SCHOOL  
SEWAGE SYSTEM

T48N, R11W  
SECTION 34

1" = 800'



SCALE 1:24,000  
R11W



K E S F I D E

LAKESIDE

M I N N I C O N

Bardon

Maple Ch

FINISH CH

Corner Sch

POLISHING POND

NORTHWESTERN HIGH SCHOOL

Maple

T48N

T47N

PACIFIC

NORTHERN



• 75

N. W. HIGH SCHOOL  
FINAL TREATMENT POND



• 75

POND EFFLUENT



• • 75

N. W. HIGH SCHOOL  
TREATMENT POND OUTFALL



• • 75

LOOKING EAST FROM  
LAGOON - ACROSS OUTFALL



LOOKING NORTH  
FROM LAGOON

Region <u>NOR</u>	County <u>Douglas</u>	Report Date <u><del>5/1978</del> 5/1977</u>	Classification <u>(LAL/LF)</u>
Water Body: <u>Bardon Creek</u>			
Discharger: <u>Maple Middle School / V of Poplar</u>			

**If stream is classified as Limited Forage Fish (LFF) or Limited Aquatic Life (LAL), check any of the following Use Attainability Analysis factors that are identified in the classification report:**

- Naturally occurring pollutant concentrations prevent the attainment of use
- Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met
- Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place
- Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the water body to its original condition or operate such modification in a way that would result in the attainment of the use
- Physical conditions related to the natural features of the water body, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of aquatic life protection uses
- Controls more stringent than those required by sections 301(b) and 306 of the Act would result in substantial and widespread economic and social impact

**Supporting Evidence in the report (include comments on how complete/thorough data is)**

- Biological Data (fish/invert)
- Chemical Data (temp, D.O., etc.)
- Physical Data (flow, depth, etc.)
- Habitat Description
- Site Description/Map
- Other:

**Historical Reports in file:**

5/20/77 - C G Hansen

**Additional Comments/How to improve report:**

need more information

# CORRESPONDENCE/MEMORANDUM

STATE OF WISCONSIN

Date: December 18, 1978

File Ref:

3200

(Steve Skavroneck)

To: Central Office

DNR

DEC 21 1978

From: Ted R. Smith *TRS*

Subject: Stream Classification - Poplar River, Douglas County

This is in response to your request to evaluate the Poplar River as receiving water for potential Village of Poplar treated wastewater.

An impoundment on the Poplar River, created by a privately-owned dam, is located near the village of Poplar. All the river above this flowage is Class III Trout Water.

Below the dam, the Poplar River probably supports a well-balanced aquatic community. Periodic very low flow is the only factor leading to a possible water quality problem.

This office agrees with the area fish manager that no variance from fish and aquatic life standards should be considered for the Poplar River. Also, the river above the dam should not be considered potential receiving water.

TRS:cg

cc: Brule Area Office

Spooner

3200

May 20, 1977

TO: Central Office - Madison

FROM: L. G. Hansen

SUBJECT: Surface Water Classification (NR 104)  
 Maple School District Middle School,  
Douglas County

The Maple School District is presently constructing a Middle School in the SE $\frac{1}{4}$  of the NW $\frac{1}{4}$  of Section 4, T47N - R11W. The proposed wastewater treatment is a two cell aerated lagoon with a discharge to the noncontinuous headwaters of Bardon Creek. These noncontinuous headwaters normally contain water only in times of runoff. Field inspections in the fall of 1976 and in May 1977 revealed no surface water or aquatic life from the point of proposed effluent introduction to the confluence with a tributary in the NE $\frac{1}{4}$  of the NW $\frac{1}{4}$  of Section 33, a stream distance of approximately 1.25 miles.

The 13.3 square water Bardon Creek watershed supports little aquatic life because of interminant flow and suspected complete annual winter-kill. Bardon Creek terminates in Lake Superior.

A tributary to Bardon Creek presently receives treated wastewater from Northwestern Junior/Senior High School, operated by the Maple School District.

A map of the Bardon Creek headwaters is attached.

RECOMMENDATION

The noncontinuous (NR 104.02(1)(e)) headwaters of Bardon Creek receiving treated wastewater from the Maple School District Middle School shall be classified as marginal surface water (NR 104.02(3)(b)) to the confluence with the tributary in the NE $\frac{1}{4}$  of the NW $\frac{1}{4}$  of Section 33, T48N - R11W. From this tributary downstream, Bardon Creek, a noncontinuous stream (NR 104.02(1)(e)), shall be classified "surface water not supporting a balanced aquatic community" (NR 104.02(3)(a)).

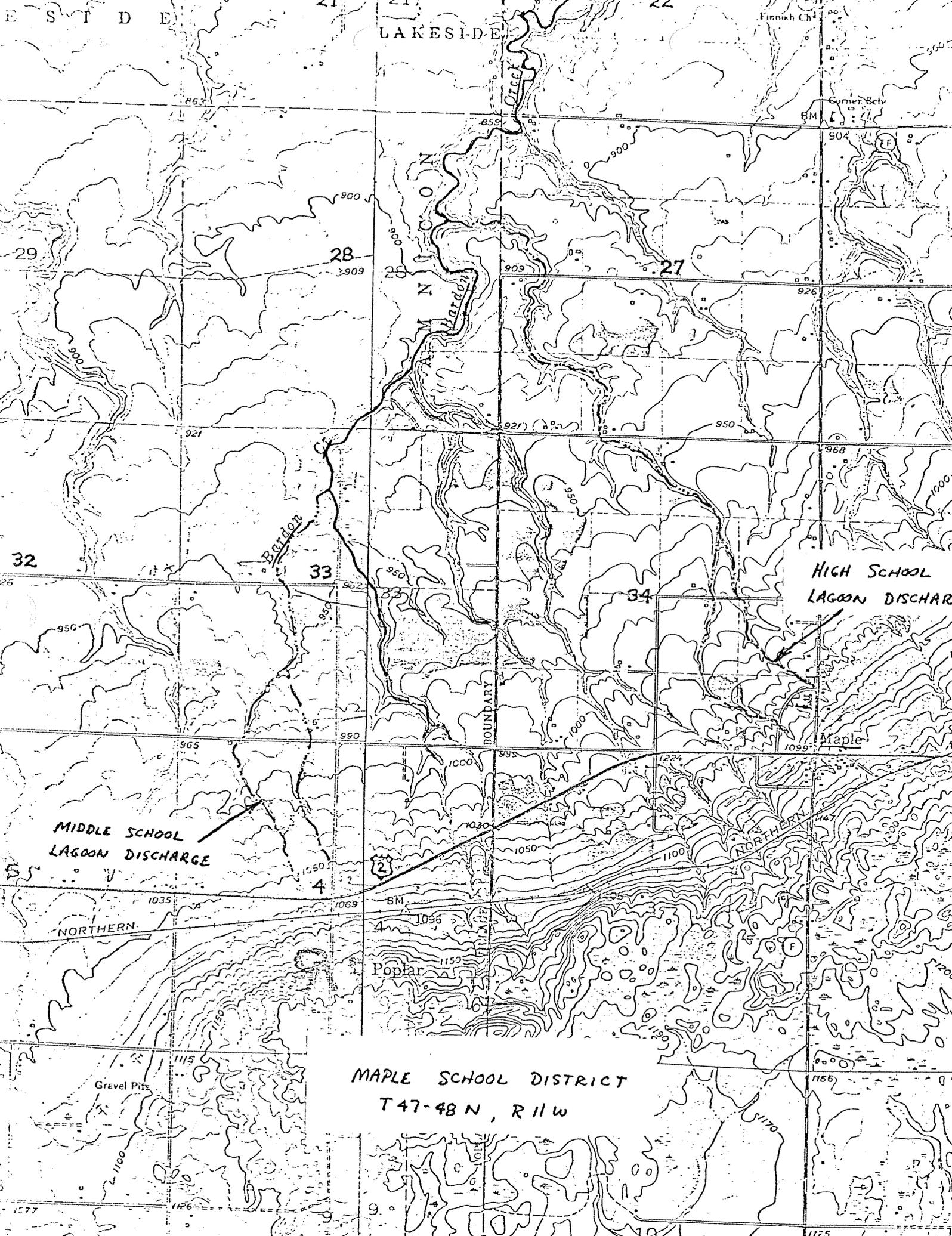
TRS:mm  
 cc: John Paddock  
 Bill Weiher

Attachment

NOTED:

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Date



LAKESIDE

FINNISH CHURCH

GUMMER BECH

NORTHERN

HIGH SCHOOL  
LAGOON DISCHARGE

MIDDLE SCHOOL  
LAGOON DISCHARGE

MAPLE SCHOOL DISTRICT  
T47-48 N, R11 W

## Bub, Laura A

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**From:** Toshner, Pamela J  
**Sent:** Monday, October 17, 2005 4:10 PM  
**To:** Bub, Laura A  
**Subject:** RE: Bardon Creek

Hi Laura, thanks for the prompt. I'm so sorry this takes so long. My responses are below.

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**From:** Bub, Laura A  
**Sent:** Friday, October 07, 2005 1:04 PM  
**To:** Toshner, Pamela J  
**Cc:** Bub, Laura A  
**Subject:** Bardon Creek

Happy Friday, Pamela,

Just wanted to check in and see what the status of the Bardon Creek class'n is. I know that we've been going round and round with this for what seems like years, but I am trying to do a final clean-up of the NR 104 list, and am trying to figure out what exactly to do with the 2 Bardon Creek Class'ns that are proposed in the last Green Sheet pkg.

For the current Bardon Creek & Trib/NW'n high school, I'd be OK leaving this one in there for now, since it's already in NR 104, and we **weren't** proposing any changes to this. From what I can tell from your draft class'n, the LAL portion would remain the same, and the downstream LFF portion could potentially be deleted, and revert back to default (or DFAL/WWSF). Is this correct? Yes, this is correct. My recommendation would be to drop this downstream LFF portion that is currently listed in the code. We know for certain the reach description will change. If this deletion would happen, would it have an impact on NW high school discharge? I don't think so because it will probably remain LFF downstream, plus the discharge is to a wetland complex now so I cannot imagine limits would change. If it would, it would probably be a P2 issue anyhow, and finalizing that specific class'n report might not be necessary for this go 'round. Any thoughts?

For the current Bardon Creek/Maple Middle School, the proposed LAL/LFF class'n are NOT in code. So, we either need to provide adequate documentation, or NOT propose the class'n at all this time around. I believe that this previous segment has now been characterized as Bardon Creek Wetland/headwaters(elem & m.s.) and Bardon Creek (V. Poplar). The previous LAL class'n should now be partly LFF, and the previous LFF portion should be gone to default. Does this sound right? Yes, at this time. If I can get a fish manager and a backpack shocker, I may be able to go out within a week or two to determine exactly where the LFF designation extends. The LAL classification fieldwork and boundaries are done, though. I'll send them to you electronically as well as in paper format. So, if I can get finalized doc'n for these segments within the next week or so, I can add them to code. Otherwise, I'll have to leave them out this time around, and these segments would be marked as a NOR priority for monitoring in the upcoming years. I will forward the two classifications for which I think there is enough documentation: Maple Middle & Elementary Schools, Bardon Creek Headwaters, from discharge point to Bayfield Road - Limited Aquatic Life/Very Tolerant Aquatic Life. And Northwestern H.S., Bardon Creek tributary, from discharge point to confluence with Bardon Cr. As described in the current code, LAL/Very tolerant aquatic life. The second segment listed in the Green Sheet for each discharger should be dropped at this time.

Do you have any thoughts on all of this? Just a heads up that the latter (Northwestern H.S.) may become LFF at the first road crossing, as well, but since we weren't proposing any changes, I'll focus on the Middle School. I'd really like to get these taken care of ASAP. We're hoping to go to the NRB later this winter.

If I totally confused, please call me.  
Have a great weekend!

**Laura Bub**

Water Quality Standards Specialist  
Bureau of Watershed Management  
Wisconsin Department of Natural Resources  
PO Box 7921, Madison, WI 53707  
(608) 261-4385  
Laura.Bub@dnr.state.wi.us

# P101 gazetteer

## Bardon Creek

S. Bayfield Rd = LAL

Maple M.S. A. Bardon Ck above confluence w/trib = x | LAL  
 V. of Poplar → B. Bardon Ck from confluence w/trib = x | LFF  
 ↳ Bayfield Rd

Bardon Creek & Trib

NW'n H.S. A. from WWTP outfall to conf. w/ Bardon Ck = LAL | LAL  
 B. from conf. w/trib to STH 13 = LFF | LFF  
 (or Bardon Creek?)

## NEW

- Maple School Dist.
- NW'n Elementary & Middle Schools

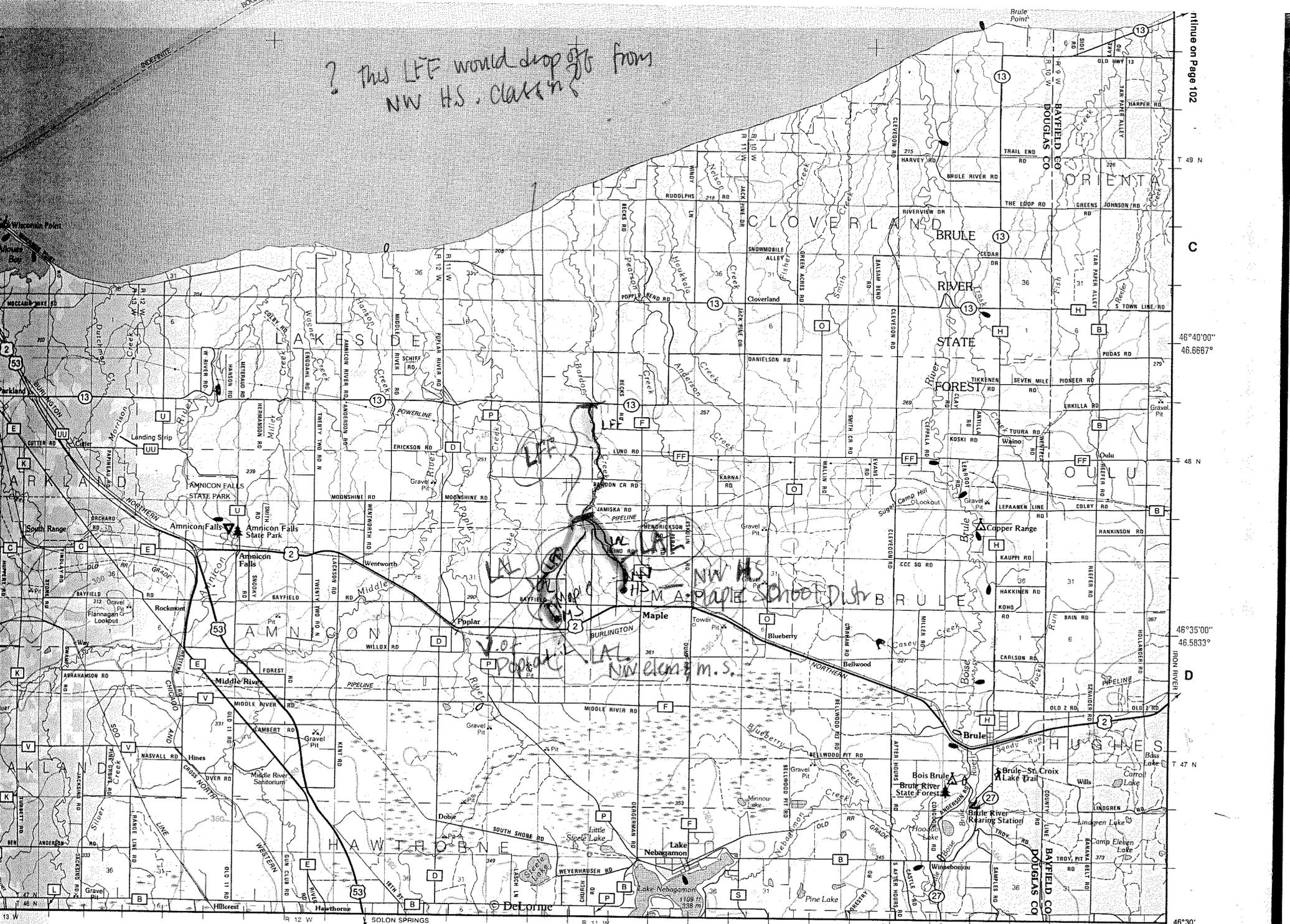
→ originally proposed as LAL, not in 104, currently  
 → current FAL UD concurs w/ original, but shortens LAL  
 segment to Bardon Creek crossing @ Bayfield Rd.  
 → unlikely that Bardon Creek is LAL north of Bayfield Rd.

BC @ Bayfield Rd - upstream to BC headwaters/wetland

↳ maple school district - elem & middle school

- ① headwaters Bardon Creek → confluence w/ Bardon Creek LAL/LAL
- ② ~~confluence w/ trib in SE NE~~ v. of Poplar
- ③ bayfield Rd (Bardon C.) → confluence w/trib in SE/SE 1/4 S28 Def/LFF
- ③ Bardon Creek HW/wetland → Bardon Creek @ bayfield Rd Def/LAL  
 ↳ maple school district - NW high school

? This LFE would drop off from NW HS. class'n?



Continue on Page 102

C

46°40'00"  
46.6667°

48 N

46°35'00"  
46.5833°

D

47 N

46°30'

Scale 1:150,000

Contour interval 30 meters  
(30 meters = 98.4 feet)

91°40'00"  
91.6667°

Continue on Page 93

101

previous proposal

new proposal

**DRAFT**

DATE: 6 August 2005

TO: Laura Bub, Madison

FROM: Pamela Toshner, Superior

SUBJECT: Bardon Creek Fish and Aquatic Life Use Designation Reports

Attached are the following three fish and aquatic life use designation reports:

1. Bardon Creek Wetland/headwaters, School District of Maple, Northwestern Elementary & Middle Schools discharge (Segment 1 of 2)
2. Bardon Creek, Village of Poplar discharge (Segment 2 of 2)
3. Tributary to Bardon Creek, School District of Maple, Northwestern High School

The stream classification for the segment of Bardon Creek where the Village of Poplar discharges is changing from a historic proposal of Very Tolerant Aquatic Life/Limited Aquatic Life to Tolerant Fish & Aquatic Life/Limited Forage Fish. A fish community composed entirely of tolerant individuals currently exists in this stream segment. Based on field assessments and watershed observations, the classification for the other two segments concurs with the originally proposed classifications.

Additionally, I am proposing to change the reach descriptions for the fish and aquatic life use designations. The TFAL/LFF segment description had historically extended to STH 13. Based on historical data, the likelihood of improved habitat and flow downstream, and proximity to Lake Superior, it is unlikely that the fish and aquatic life community would be limited to tolerant species.



(Attach supporting data sheets)

**Use Designation Information – Required**

Water Body Name Bardon Creek Headwaters/WL	WBIC # 2860900	Date 06/21/2005
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Region: <input type="checkbox"/> NER <input checked="" type="checkbox"/> NOR <input type="checkbox"/> SCR <input type="checkbox"/> SER <input type="checkbox"/> WCR	Basin Lake Superior	County Douglas
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Quad Map Where Segment is Shown  
 Poplar

Reference Site(s) (Attach use designation form for reference site/cond.)

Segment Description for Segment 1 of 2 (headwater = segment 1)

From: Bardon Creek at Bayfield Road	Latitude: DEG MIN SEC 46 35 23.7800 N
	Longitude: DEG MIN SEC Datum Used 091 45 31.0700 W NAD 27
upstream <u>650</u> <input type="checkbox"/> mi., <input type="checkbox"/> km., <input type="checkbox"/> ft., <input checked="" type="checkbox"/> M.	Township Range <input type="checkbox"/> E Section ¼-Section ¼, ¼-Section 47 N 11 <input checked="" type="checkbox"/> W 04 NW SE

To: Bardon Creek headwaters/wetland	Latitude: DEG MIN SEC 46 35 09.8700 N
	Longitude: DEG MIN SEC Datum Used 091 45 22.2800 W NAD 27
	Township Range <input type="checkbox"/> E Section ¼-Section ¼, ¼-Section 47 N 11 <input checked="" type="checkbox"/> W 04 NW SE

Attach site map and photos (prefer digital) showing stream segment and discharge point.

Date Fieldwork Conducted/Completed  
 06/21/2005

Use Designation Status:  
 New Use Designation (First Field Assessment)  
 Standards Review (Updating Previous Field Assessment)  
 Reference Site

Current Codified Fish and Aquatic Life Use Designation: <input type="checkbox"/> Coldwater Community <input type="checkbox"/> Warmwater Sport Fish Community <input type="checkbox"/> Warmwater Forage Fish Community <input type="checkbox"/> Tolerant Fish and Aquatic Life Community (LFF) <input type="checkbox"/> Very Tolerant Aquatic Life Community (LAL)	<input checked="" type="checkbox"/> Default <input type="checkbox"/> Field Assessment – Date (mm/dd/yyyy): _____	Existing FAL Use Based on Current Data: <input type="checkbox"/> Coldwater Community <input type="checkbox"/> Warmwater Sport Fish Community <input type="checkbox"/> Warmwater Forage Fish Community <input type="checkbox"/> Tolerant Fish and Aquatic Life Community (LFF) <input checked="" type="checkbox"/> Very Tolerant Aquatic Life Community (LAL)
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Recommended Attainable Use Designation: <input type="checkbox"/> Coldwater A (Coldwater) <input type="checkbox"/> Coldwater B (Coldwater) <input type="checkbox"/> Diverse Fish and Aquatic Life <input type="checkbox"/> Tolerant Fish and Aquatic Life (LFF) <input checked="" type="checkbox"/> Very Tolerant Aquatic Life (LAL)	Recommended Seasonal Use Designation(s): <input type="checkbox"/> Coldwater A (Coldwater) <input type="checkbox"/> Coldwater B (Coldwater) <input type="checkbox"/> Diverse Fish and Aquatic Life <input type="checkbox"/> Tolerant Fish and Aquatic Life (LFF) <input type="checkbox"/> Very Tolerant Aquatic Life (LAL)	Effective Date: (mm/dd/yyyy) _____ to _____ _____ to _____ _____ to _____ _____ to _____
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Other Applicable Uses (as recognized by existing administrative rule):

Outstanding Resource Water  
 Exceptional Resource Water  
 Great Lakes System  
 Public Drinking Water Supply  
 Recreational Use  
 Wildlife

Community Types:

<input type="checkbox"/> Class I Trout	<input type="checkbox"/> Macroinvertebrates
<input type="checkbox"/> Class II Trout	<input type="checkbox"/> Endangered/Threatened Species
<input type="checkbox"/> Class III Trout	<input type="checkbox"/> Intolerant Species
<input type="checkbox"/> Coldwater A	<input type="checkbox"/> Coolwater
<input type="checkbox"/> Coldwater B	<input type="checkbox"/> Tolerant Fish
<input type="checkbox"/> Game Fish	<input type="checkbox"/> Tolerant Macroinvertebrates
<input type="checkbox"/> Non-Game Fish	

# Fish and Aquatic Life Use Designation Summary

Form 3200-121 (12/04)

Page 2 of 6

Water Body Name	WBIC #	Date
Bardon Creek Headwaters/WL	2860900	06/21/2005

**Use Designation Information** (continued)

Basis for Use Designation Decision (List and briefly discuss key elements for the decision) – Use Attachment A, if necessary

This segment consists of the wetland headwaters to Bardon Creek. The immediate discharge-receiving segment is void of bed, bank, and standing water and therefore is a Very Tolerant Aquatic Life Community. There is no potential for a more sensitive fish and aquatic life community since there is essentially little to no habitat for aquatics. Aquatic habitat develops at the Bayfield Road intersection.

**Discharger Information** – Required

Municipality/Company	WPDES Permit Number	Date Permit Issue	Permit Renewal
Maple School District - Northwestern Middle School	0029009		

Outfall Location

North side of Treatment Pond #3

Contact Person	Contact Date(s)

Did a Representative Observe Field Assessment?     Yes     No

Representative	Telephone Number (include area code)

Comments about facility representative's observations, etc.

**Literature Review** – Use Attachment B, if necessary

1. Previous classification reports and use designations – cite here and attach

Hansen, L.G. 05/20/1977. Surface Water Classification (NR 104) Maple School District Middle School, Douglas County.

2. All previous studies and data associated with the water body that are applicable to use designation – cite here and attach

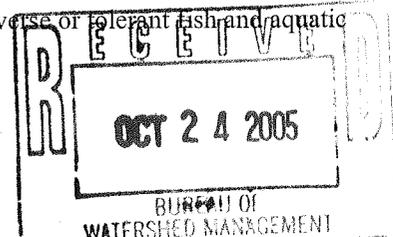
Unknown. 05/17/1977. Middle School of Maple School District and Bardon Creek field notes.

3. Is stream listed as trout water in Wisconsin Trout Streams?     Yes     No    If yes, cite here and attach a copy

4. Any other literature applicable to the fish and aquatic life use designation – cite here and attach

5. Summarize and interpret the literature available and how it relates to and supports the recommended use designation

Literature indicates this segment is wetland-dominated and does not contain habitat able to support a diverse or tolerant fish and aquatic life community.



# Fish and Aquatic Life Use Designation Summary

Form 3200-121 (12/04)

Page 3 of 6

Water Body Name Bardon Creek Headwaters/WL	WBIC # 2860900	Date 06/21/2005
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**Field Assessment Data and Observations** – Use Attachment C, if necessary

Assessment Date (mm/dd/yyyy)      Additional Assessment Date(s):  
 06/21/2005

<p><b>Stream Segment Physical/Chemical Data:</b></p> <p>Length      <u>200</u>      <input type="checkbox"/> feet      <input checked="" type="checkbox"/> meters      <input type="checkbox"/> miles</p> <p>Avg. Width      _____      <input type="checkbox"/> feet      <input type="checkbox"/> meters</p> <p>Max. Width      _____      <input type="checkbox"/> feet      <input type="checkbox"/> meters</p> <p>Avg. Depth      _____      <input type="checkbox"/> feet      <input type="checkbox"/> meters</p> <p>Max. Depth      _____      <input type="checkbox"/> feet      <input type="checkbox"/> meters</p> <p>Gradient      _____      Velocity      _____</p>	<p><b>Substrate Material:</b></p> <p>Silt      _____ %      Organic      _____ %</p> <p>Rubble      _____ %      Gravel      _____ %</p> <p>Sand      _____ %      Other      _____ %</p> <hr/> <p>Stream Flow      <u>0</u>      cfs      <input type="checkbox"/> Measured      <input checked="" type="checkbox"/> Estimated</p> <p>At time of assessment, flow was:      <input type="checkbox"/> High      <input type="checkbox"/> Low      <input type="checkbox"/> Very Low</p> <p>7Q2 Flow      <u>0</u>      cfs</p> <p>7Q10 Flow      <u>0</u>      cfs</p>
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Stream Temperature      \_\_\_\_\_ °C       Instantaneous       24-Hr. Maximum       24-hr. Avg.

Dissolved Oxygen (Instantaneous)      \_\_\_\_\_ mg/L      Time of Day      00 : 00       am       pm

Minimum Dissolved Oxygen Recorded      \_\_\_\_\_ mg/L      Time of Day      \_\_\_\_\_ : \_\_\_\_\_       am       pm

Maximum Dissolved Oxygen Recorded      \_\_\_\_\_ mg/L      Time of Day      \_\_\_\_\_ : \_\_\_\_\_       am       pm

Method of Analysis:       Meter       Modified Winkler Method

<p><b>Effluent Flow:</b></p> <p>Daily Average      _____ cfs      <input type="checkbox"/> Measured      <input type="checkbox"/> Estimated</p> <p>Design Flow      _____ cfs      (Convert MGD to cfs by multiplying by 1.55)</p>	<p><b>Chemical Data Collected:</b>      (STORET # _____ )</p> <p><input type="checkbox"/> Ammonia      <input type="checkbox"/> Pesticides      <input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Atrazine      <input type="checkbox"/> Phosphorus      <input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Bacteria      <input type="checkbox"/> Metals      <input type="checkbox"/> Other: _____</p>
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**Brief Interpretation/Comments:**

The area immediately downstream of the discharge is a fresh meadow wetland community dominated by sedges, jewelweed, and other wetland species. There is no bed and bank, nor is there any standing water, and therefore, there is no fish and aquatic life community. In most years this area is probably entirely dry. The wetland community visibly continues downstream approximately 200 meters. The first indications of a wet channel appear near the Bayfield Road culvert.

**Habitat** – Use Attachment D, if necessary

**Procedure:**

Guidelines For Evaluating Fish Habitat in Wisconsin Streams (Simonson, Lyons and Kanehl, 1994)

Development and Evaluation of a Habitat Rating System For Low Gradient Wisconsin Streams

Other – Describe: \_\_\_\_\_

**Habitat Rating – Attach Habitat Rating Forms:**       Excellent       Good       Fair       Poor

**Significant Problems Affecting Use Attainment:**

Low-flow       Sedimentation       Bank Erosion       Ditching       Fish Cover       Depth

Other – Describe: Wetland

**Observations About Habitat Quality:**

There is no fish and very little aquatic macroinvertebrate habitat at this site.

Fish and Aquatic Life Use Designation Summary

Form 3200-121 (12/04)

Water Body Name Bardon Creek Headwaters/WL	WBIC # 2860900	Date 06/21/2005
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Biological Data – Fish data is required

Fish:

Sampling Date (mm/dd/yyyy) \_\_\_\_\_

Species List and IBI Forms:  Attached to Report  Not Applicable

Survey Location(s) \_\_\_\_\_

Distance Sampled \_\_\_\_\_  feet  meters  miles

Sampling Gear:  Backpack Shocker  Other – Describe: \_\_\_\_\_

Number of Species Collected 0 Total Number of Fish Collected 0

Number of Intolerant Species \_\_\_\_\_ % Intolerant Species \_\_\_\_\_

Endangered or Other Special Category Species Collected:

Species _____	No. of Individuals Collected _____
Species _____	No. of Individuals Collected _____
Species _____	No. of Individuals Collected _____

IBI Score \_\_\_\_\_ Rating \_\_\_\_\_

Macroinvertebrates:

Sampling Date (mm/dd/yyyy) \_\_\_\_\_  HBI  FBI

Survey Location(s) \_\_\_\_\_

Sampling Procedure \_\_\_\_\_

Less than 100 organisms were found – List Dominant Genera, etc.:

Genus _____	Number Found _____	HBI Score _____
Genus _____	Number Found _____	HBI Score _____
Genus _____	Number Found _____	HBI Score _____

More than 100 organisms found – Attach taxonomy bench sheet or other analyses

Other Biological Data/Observations – Use Attachment E, if necessary

Interpretations Based on Existing Fish and Aquatic Life Community – Use Attachment F, if necessary

WATERSHED DATA AND OBSERVATIONS – Optional (Please answer to the best of your ability. Estimates are acceptable.)

Approximate Area 13.5  Acres  Square Miles

Land Use: Crop Land \_\_\_\_\_% Pasture \_\_\_\_\_% Forest \_\_\_\_\_%

Grass Land \_\_\_\_\_% Urban \_\_\_\_\_% Wetland \_\_\_\_\_%

Number of Feedlots/Barn Yards Near Stream \_\_\_\_\_

Other Nonpoint Sources \_\_\_\_\_

# Fish and Aquatic Life Use Designation Summary

Form 3200-121 (12/04)

Page 5 of 6

Water Body Name	WBIC #	Date
Bardon Creek Headwaters/WL	2860900	06/21/2005

**WATERSHED DATA AND OBSERVATIONS** (continued) – Use Attachment G, if necessary

Is this watershed currently or proposed to receive nonpoint source management under a State, Federal or local organization?

No     Yes    List Date(s) (mm/dd/yyyy) \_\_\_\_\_

Explain \_\_\_\_\_

Discuss nonpoint source impacts and controllability, and nonpoint relationship to fish and aquatic life existing and attainable uses. Include factors such as bank erosion, land cover/use near stream, gully erosion, barnyards, etc. (attach additional sheets if required):

**VTAL/TFAL Justification** – Required – Use Attachment H, if necessary

**Note:** This section must be completed when the use designation is tolerant fish and aquatic life (formerly LFF) or very tolerant aquatic life (formerly LAL)

Recommended Attainable Use Designation:     TFAL     VTAL

**Tolerant Fish and Aquatic Life and Very Tolerant Aquatic Life use designations (LFF & LAL) are not defined as full fish and aquatic life uses. However, these uses are in most cases the best use that can be attained by these resources due to habitat or water quality limitations. A designated use recommendation into one of these sub-categories must be based on one or more of the following factors (sec. 283.15, Stats.). Check all that apply to this use designation and provide a brief description of the situation:**

- a. Naturally occurring pollutant concentrations prevent the attainment of a full fish and aquatic life community.
- b. Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of a full fish and aquatic life community, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating water conservation requirements.
- c. Human caused conditions or sources of pollution prevent the attainment of a full fish and aquatic life community and cannot be remedied or would cause more environmental damage to correct than to leave in place.
- d. Dams, diversions or other types of hydrologic modifications preclude the attainment of a full fish and aquatic life community, and it is not feasible to restore the water body to its original condition or to operate such modification in a way that would result in the attainment of a full fish and aquatic life community.
- e. Physical conditions related to the natural features of the water body, such as the lack of proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of a full fish and aquatic life community.

Description:

This segment is a wetland/headwater area of Bardon Creek. There is no bed, bank, or standing water or flow. Hence, there is no potential for a fish and/or aquatic macroinvertebrate community. A wet channel forms and a fish community exists downstream at the intersection of Bayfield Road.

<b>Prepared By</b>		
Preparer Signature	Printed Name	Date Prepared
	Pamela Toshner	06/29/2005

# Fish and Aquatic Life Use Designation Summary

Form 3200-121 (12/04)

Water Body Name	WBIC #	Date
Bardon Creek Headwaters/WL	2860900	06/21/2005

**Author and Peer Review**

The author should submit a peer-reviewed report to Watershed Program Coordinator for review and approval.

Submitted By	Date
Pamela Toshner	06/29/2005
Peer Reviewed By	Date

**Approval Signatures**

Review, approval, and signature by the Watershed Program Coordinator (Expert), Regional Water Leader (or designee) as well as the Water Quality Standards Section Chief (or designee) is required.

Printed Name of Watershed Program Coordinator (Expert)	Watershed Program Coordinator (Expert) Signature	Date
Printed Name of Regional Water Leader (or designee)	Regional Water Leader (or designee) Signature	Date
Printed Name of Water Quality Standards Section Chief (or designee)	Water Quality Standards Section Chief (or designee) Signature	Date

**Final Report Distribution List**

Once the Use Designation Report has been approved by the Water Quality Standards Section Chief (or designee), the report can be distributed to the appropriate individuals, as listed below. Please indicate below individuals who should be copied on final report distribution. It should be noted that the classification recommendation in the report does not become official until it is approved by the Natural Resources Board and adopted into Wisconsin Administrative Code.

Facility Contact \_\_\_\_\_

Basin Engineer \_\_\_\_\_

Basin Planner \_\_\_\_\_

Effluent Limits Calculator \_\_\_\_\_

Endangered Resources \_\_\_\_\_  
(when T&E Species Present)

Other Interested Parties:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

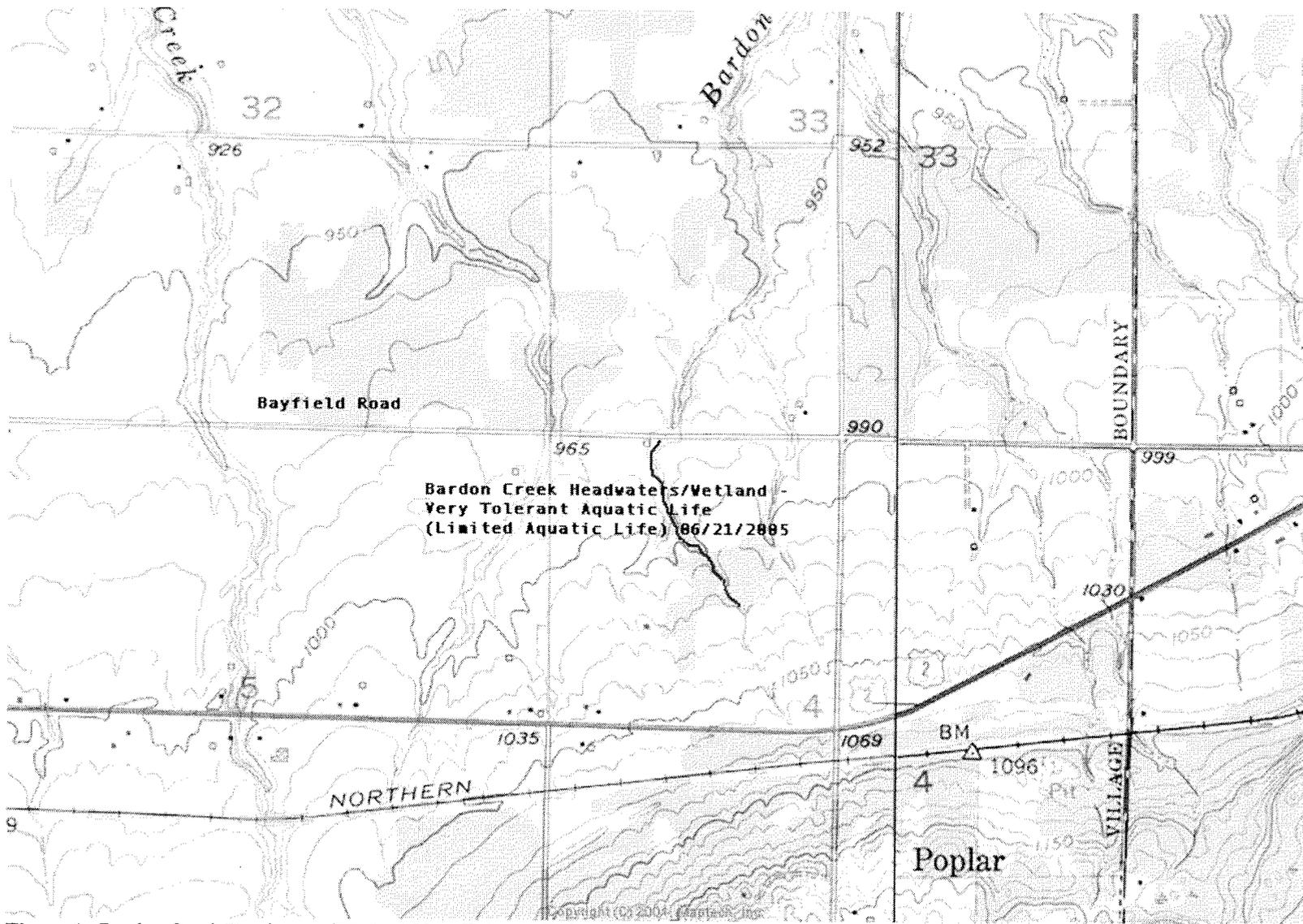


Figure 1. Bardon Creek Headwaters/Wetland Very Tolerant Fish and Aquatic Life/Limited Aquatic Life Segment. 06/21/2005

FISH & AQUATIC LIFE USE DESIGNATION PHOTOGRAPHS  
School District of Maple, Maple Middle & Elementary Schools  
Bardon Creek Headwaters/Wetland in the SE1/4 NW1/4 S4 T47N R11W,  
Douglas County

All photographs were taken by Pamela Toshner on 21 June 2005.



**Photo 1.** Standing at outfall to Bardon Creek Headwaters/Wetland, which is buried beneath rock and tree debris, facing downstream or north.



**Photo 2.** Facing upstream towards Bardon Creek headwaters/wetland. Treatment ponds are in the background.



**Photo 3.** Facing downstream at Bayfield Road and Bardon Creek culvert where the stream takes on characteristics able to support a fish and aquatic life community.

Spooner

May 20, 1977

3200

TO: Central Office - Madison  
FROM: L. G. Hansen  
SUBJECT: Surface Water Classification (NR 104)  
Maple School District Middle School,  
Douglas County

The Maple School District is presently constructing a Middle School in the SE $\frac{1}{4}$  of the NW $\frac{1}{4}$  of Section 4, T47N - R11W. The proposed wastewater treatment is a two cell aerated lagoon with a discharge to the noncontinuous headwaters of Bardon Creek. These noncontinuous headwaters normally contain water only in times of runoff. Field inspections in the fall of 1976 and in May 1977 revealed no surface water or aquatic life from the point of proposed effluent introduction to the confluence with a tributary in the NE $\frac{1}{4}$  of the NW $\frac{1}{4}$  of Section 33, a stream distance of approximately 1.25 miles.

The 13.3 square water Bardon Creek watershed supports little aquatic life because of interminant flow and suspected complete annual winter-kill. Bardon Creek terminates in Lake Superior.

A tributary to Bardon Creek presently receives treated wastewater from Northwestern Junior/Senior High School, operated by the Maple School District.

A map of the Bardon Creek headwaters is attached.

RECOMMENDATION

The noncontinuous (NR 104.02(1)(e)) headwaters of Bardon Creek receiving treated wastewater from the Maple School District Middle School shall be classified as marginal surface water (NR 104.02(3)(b)) to the confluence with the tributary in the NE $\frac{1}{4}$  of the NW $\frac{1}{4}$  of Section 33, T48N - R11W. From this tributary downstream, Bardon Creek, a noncontinuous stream (NR 104.02(1)(e)), shall be classified "surface water not supporting a balanced aquatic community" (NR 104.02(3)(a)).

TRS:mm

cc: John Paddock ✓ (mm)  
Bill Weiher ✓

cc: Bardon Cr. file  
Cent. File (reading)

Attachment

NOTED:

\_\_\_\_\_  
Date



12 MAY 77 - ~~HW~~ Middle School of Maple School Dist.

Headwaters - Barren C.

- Sec. 4 Dry. (Muddy - marsh Mangolds - no open water)  
Sec 33 SW  $\frac{1}{4}$  dry south - standing water North (no flow)  
Sec 33 NW  $\frac{1}{4}$  flow in tube from east.  
Sec 33 NENW (after tube) flow est 0.1 CFS - minnows -  
local people said water all last year ('76)

Classification: <sup>Noncontinuous</sup> Marginal to first tube in NW  $\frac{1}{4}$  Sec 33

(Attach supporting data sheets)

**Use Designation Information – Required**

Water Body Name Bardon Creek - DRAFT	WBIC # 2860900	Date 08/05/2005
---	-------------------	--------------------

Region: <input type="checkbox"/> NER <input checked="" type="checkbox"/> NOR <input type="checkbox"/> SCR <input type="checkbox"/> SER <input type="checkbox"/> WCR	Basin Lake Superior	County Douglas
--	------------------------	-------------------

Quad Map Where Segment is Shown  
 Poplar  
 Reference Site(s) (Attach use designation form for reference site/cond.)

Segment Description for Segment 2 of 2 (headwater = segment 1)

From: Confluence with a tributary in the SE1/4 NE1/4	Latitude: DEG MIN SEC 46 36 49.0000 N
	Longitude: DEG MIN SEC Datum Used 091 44 44.0000 W UTM
upstream <u>4</u> <input type="checkbox"/> mi., <input checked="" type="checkbox"/> km., <input type="checkbox"/> ft., <input type="checkbox"/> M.	Township Range <input type="checkbox"/> E Section 1/4-Section 1/4, 1/4-Section 48 N 11 <input checked="" type="checkbox"/> W 28 NW NW

To: Bayfield Road	Latitude: DEG MIN SEC 46 35 23.0000 N
	Longitude: DEG MIN SEC Datum Used 091 45 28.0000 W UTM
	Township Range <input type="checkbox"/> E Section 1/4-Section 1/4, 1/4-Section 47 N 11 <input checked="" type="checkbox"/> W 04 NW NW

Attach site map and photos (prefer digital) showing stream segment and discharge point.

Date Fieldwork Conducted/Completed  
 08/05/2005

Use Designation Status:

New Use Designation (First Field Assessment)

Standards Review (Updating Previous Field Assessment)

Reference Site

Current Codified Fish and Aquatic Life Use Designation:

- Coldwater Community
- Warmwater Sport Fish Community
- Warmwater Forage Fish Community
- Tolerant Fish and Aquatic Life Community (LFF)
- Very Tolerant Aquatic Life Community (LAL)

Default

Field Assessment – Date (mm/dd/yyyy): \_\_\_\_\_

Existing FAL Use Based on Current Data:

- Coldwater Community
- Warmwater Sport Fish Community
- Warmwater Forage Fish Community
- Tolerant Fish and Aquatic Life Community (LFF)
- Very Tolerant Aquatic Life Community (LAL)

Recommended Attainable Use Designation:

- Coldwater A (Coldwater)
- Coldwater B (Coldwater)
- Diverse Fish and Aquatic Life
- Tolerant Fish and Aquatic Life (LFF)
- Very Tolerant Aquatic Life (LAL)

Recommended Seasonal Use Designation(s):

- Coldwater A (Coldwater)
- Coldwater B (Coldwater)
- Diverse Fish and Aquatic Life
- Tolerant Fish and Aquatic Life (LFF)
- Very Tolerant Aquatic Life (LAL)

Effective Date: (mm/dd/yyyy)

_____	to	_____

Other Applicable Uses (as recognized by existing administrative rule):

- Outstanding Resource Water
- Exceptional Resource Water
- Great Lakes System
- Public Drinking Water Supply
- Recreational Use
- Wildlife

Community Types:

- |  |  |
|--|--|
| <input type="checkbox"/> Class I Trout   | <input type="checkbox"/> Macroinvertebrates            |
| <input type="checkbox"/> Class II Trout  | <input type="checkbox"/> Endangered/Threatened Species |
| <input type="checkbox"/> Class III Trout | <input type="checkbox"/> Intolerant Species            |
| <input type="checkbox"/> Coldwater A     | <input type="checkbox"/> Coolwater                     |
| <input type="checkbox"/> Coldwater B     | <input checked="" type="checkbox"/> Tolerant Fish      |
| <input type="checkbox"/> Game Fish       | <input type="checkbox"/> Tolerant Macroinvertebrates   |
| <input type="checkbox"/> Non-Game Fish   |  |

# Fish and Aquatic Life Use Designation Summary

Form 3200-121 (12/04)

Page 2 of 6

Water Body Name	WBIC #	Date
Bardon Creek - DRAFT	2860900	08/05/2005

**Use Designation Information** (continued)

Basis for Use Designation Decision (List and briefly discuss key elements for the decision) – Use Attachment A, if necessary

This segment of Bardon Creek currently contains a tolerant fish community. Potential fish and aquatic life use is limited because of the low flow and poor water quality characteristic of small streams in the Lake Superior clay coastal plain. Additionally, potential fish migration is limited by dry pools, boulders, and tree snags during low flow periods.

**Discharger Information** – Required

Municipality/Company	WPDES Permit Number	Date Permit Issue	Permit Renewal
Village of Poplar	0049760		09/30/2008

Outfall Location

Eastern side of WWTF in a pile of rock riprap (N 46.59104 W091.75804)

Contact Person	Contact Date(s)
Robert Bergsten, President	

Did a Representative Observe Field Assessment?     Yes     No

Representative	Telephone Number (include area code)

Comments about facility representative's observations, etc.

**Literature Review** – Use Attachment B, if necessary

1. Previous classification reports and use designations – cite here and attach

Hansen, L.G. 05/20/1977. Surface Water Classification (NR 104) Maple School District Middle School. Douglas County.

2. All previous studies and data associated with the water body that are applicable to use designation – cite here and attach

Unknown. 05/17/1977. Middle School of Maple School District and Bardon Creek Field Notes.

3. Is stream listed as trout water in Wisconsin Trout Streams?     Yes     No    If yes, cite here and attach a copy

4. Any other literature applicable to the fish and aquatic life use designation – cite here and attach

5. Summarize and interpret the literature available and how it relates to and supports the recommended use designation

# Fish and Aquatic Life Use Designation Summary

Form 3200-121 (12/04)

Page 3 of 6

Water Body Name Bardon Creek - DRAFT	WBIC # 2860900	Date 08/05/2005
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**Field Assessment Data and Observations** – Use Attachment C, if necessary

Assessment Date (mm/dd/yyyy)      Additional Assessment Date(s):  
 08/05/2005

<p><b>Stream Segment Physical/Chemical Data:</b></p> <p>Length      <u>100</u>      <input type="checkbox"/> feet    <input checked="" type="checkbox"/> meters    <input type="checkbox"/> miles</p> <p>Avg. Width    <u>1.5</u>      <input type="checkbox"/> feet    <input checked="" type="checkbox"/> meters</p> <p>Max. Width    <u>3</u>        <input type="checkbox"/> feet    <input checked="" type="checkbox"/> meters</p> <p>Avg. Depth    <u>0.2</u>      <input type="checkbox"/> feet    <input checked="" type="checkbox"/> meters</p> <p>Max. Depth    <u>0.5</u>      <input type="checkbox"/> feet    <input checked="" type="checkbox"/> meters</p> <p>Gradient      _____      Velocity      _____</p>	<p><b>Substrate Material:</b></p> <p>Silt      <u>80</u> %      Organic <u>10</u> %</p> <p>Rubble <u>5</u> %      Gravel _____ %</p> <p>Sand _____ %      Other <u>5</u> %</p> <hr/> <p>Stream Flow    <u>0.1</u> cfs    <input type="checkbox"/> Measured    <input checked="" type="checkbox"/> Estimated</p> <p>At time of assessment, flow was:    <input type="checkbox"/> High    <input type="checkbox"/> Low    <input checked="" type="checkbox"/> Very Low</p> <p>7Q2 Flow      _____ cfs</p> <p>7Q10 Flow     _____ cfs</p>
---	--

Stream Temperature \_\_\_\_\_ °C     Instantaneous     24-Hr. Maximum     24-hr. Avg.

Dissolved Oxygen (Instantaneous) \_\_\_\_\_ mg/L    Time of Day \_\_\_\_\_:\_\_\_\_     am     pm

Minimum Dissolved Oxygen Recorded \_\_\_\_\_ mg/L    Time of Day \_\_\_\_\_:\_\_\_\_     am     pm

Maximum Dissolved Oxygen Recorded \_\_\_\_\_ mg/L    Time of Day \_\_\_\_\_:\_\_\_\_     am     pm

Method of Analysis:     Meter     Modified Winkler Method

<p><b>Effluent Flow:</b></p> <p>Daily Average _____ cfs    <input type="checkbox"/> Measured    <input type="checkbox"/> Estimated</p> <p>Design Flow _____ cfs    (Convert MGD to cfs by multiplying by 1.55)</p>	<p><b>Chemical Data Collected:</b>      (STORET # _____ )</p> <p><input type="checkbox"/> Ammonia    <input type="checkbox"/> Pesticides    <input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Atrazine    <input type="checkbox"/> Phosphorus    <input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Bacteria    <input type="checkbox"/> Metals        <input type="checkbox"/> Other: _____</p>
--	---

**Brief Interpretation/Comments:**  
 Effluent flow was evident and probably was maintaining wet portions of the sampled channel, although further upstream of the effluent discharge the channel became wet again.

**Habitat** – Use Attachment D, if necessary

**Procedure:**     Guidelines For Evaluating Fish Habitat in Wisconsin Streams (Simonson, Lyons and Kanehl, 1994)

Development and Evaluation of a Habitat Rating System For Low Gradient Wisconsin Streams

Other – Describe: \_\_\_\_\_

**Habitat Rating – Attach Habitat Rating Forms:**     Excellent     Good     Fair     Poor

**Significant Problems Affecting Use Attainment:**

Low-flow     Sedimentation     Bank Erosion     Ditching     Fish Cover     Depth

Other – Describe: \_\_\_\_\_

**Observations About Habitat Quality:**  
 Low flow, sedimentation, bank erosion, and lack of suitable depths limit the fish aquatic life community to those species tolerant to low dissolved oxygen and disturbed habitat. Stream has undercut banks and areas of blow out from peak flow events. Fine particulate matter has settled on the bank of the stream and results in a highly turbid system - common of streams in the Lake Superior coastal clay plain.

Fish and Aquatic Life Use Designation Summary

Form 3200-121 (12/04)

Page 4 of 6

Water Body Name Bardon Creek - DRAFT WBIC # 2860900 Date 08/05/2005

Biological Data - Fish data is required

Fish:

Sampling Date (mm/dd/yyyy) 08/05/2005
Species List and IBI Forms: [x] Attached to Report [ ] Not Applicable
Survey Location(s) 75 m downstream of outfall to 25 m upstream of outfall
Distance Sampled 100 [ ] feet [x] meters [ ] miles
Sampling Gear: [x] Backpack Shocker [ ] Other - Describe:
Number of Species Collected 4 Total Number of Fish Collected 30
Number of Intolerant Species 0 % Intolerant Species 0

Endangered or Other Special Category Species Collected:

Table with 2 columns: Species, No. of Individuals Collected. Three rows for data entry.

IBI Score Rating

Macroinvertebrates:

Sampling Date (mm/dd/yyyy) [ ] HBI [ ] FBI
Survey Location(s)
Sampling Procedure
[ ] Less than 100 organisms were found - List Dominant Genera, etc.:
Genus Number Found HBI Score
Genus Number Found HBI Score
Genus Number Found HBI Score

[ ] More than 100 organisms found - Attach taxonomy bench sheet or other analyses

Other Biological Data/Observations - Use Attachment E, if necessary

An aquatic community consisting of aquatic worms and leeches was visible in the stream.

Interpretations Based on Existing Fish and Aquatic Life Community - Use Attachment F, if necessary

The fish community is composed entirely of species that are tolerant to low dissolved oxygen or disturbed habitat.

WATERSHED DATA AND OBSERVATIONS - Optional (Please answer to the best of your ability. Estimates are acceptable.)

Approximate Area 13.5 [ ] Acres [x] Square Miles
Land Use: Crop Land % Pasture % Forest %
Grass Land % Urban % Wetland %
Number of Feedlots/Barn Yards Near Stream
Other Nonpoint Sources

# Fish and Aquatic Life Use Designation Summary

Form 3200-121 (12/04)

Page 5 of 6

Water Body Name	WBIC #	Date
Bardon Creek - DRAFT	2860900	08/05/2005

**WATERSHED DATA AND OBSERVATIONS** (continued) – Use Attachment G, if necessary

Is this watershed currently or proposed to receive nonpoint source management under a State, Federal or local organization?

No     Yes    List Date(s) (mm/dd/yyyy) \_\_\_\_\_

Explain \_\_\_\_\_

Discuss nonpoint source impacts and controllability, and nonpoint relationship to fish and aquatic life existing and attainable uses. Include factors such as bank erosion, land cover/use near stream, gully erosion, barnyards, etc. (attach additional sheets if required):

**VTAL/TFAL Justification** – Required – Use Attachment H, if necessary

**Note:** This section must be completed when the use designation is tolerant fish and aquatic life (formerly LFF) or very tolerant aquatic life (formerly LAL)

Recommended Attainable Use Designation:     TFAL     VTAL

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- c. Human caused conditions or sources of pollution prevent the attainment of a full fish and aquatic life community and cannot be remedied or would cause more environmental damage to correct than to leave in place.
- d. Dams, diversions or other types of hydrologic modifications preclude the attainment of a full fish and aquatic life community, and it is not feasible to restore the water body to its original condition or to operate such modification in a way that would result in the attainment of a full fish and aquatic life community.
- e. Physical conditions related to the natural features of the water body, such as the lack of proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of a full fish and aquatic life community.

Description:

This segment of Bardon Creek is limited by no to low flow during warm summer months. The current discharge may enhance what little fish and aquatic life habitat is available. There is evidence of high water events at other times of year. The current fish community is composed of tolerant individuals and currently reflects potential use of this stream segment.

**Prepared By**

Preparer Signature	Printed Name	Date Prepared
	Pamela J. Toshner	08/05/2005

# Fish and Aquatic Life Use Designation Summary

Form 3200-121 (12/04)

Page 6 of 6

Water Body Name	WBIC #	Date
Bardon Creek - DRAFT	2860900	08/05/2005

**Author and Peer Review**

The author should submit a peer-reviewed report to Watershed Program Coordinator for review and approval.

Submitted By	Date
Peer Reviewed By	Date

**Approval Signatures**

Review, approval, and signature by the Watershed Program Coordinator (Expert), Regional Water Leader (or designee) as well as the Water Quality Standards Section Chief (or designee) is required.

Printed Name of Watershed Program Coordinator (Expert)	Watershed Program Coordinator (Expert) Signature	Date
Printed Name of Regional Water Leader (or designee)	Regional Water Leader (or designee) Signature	Date
Printed Name of Water Quality Standards Section Chief (or designee)	Water Quality Standards Section Chief (or designee) Signature	Date

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Facility Contact \_\_\_\_\_

Basin Engineer \_\_\_\_\_

Basin Planner \_\_\_\_\_

Effluent Limits Calculator \_\_\_\_\_

Endangered Resources \_\_\_\_\_  
(when T&E Species Present)

Other Interested Parties:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## CORRESPONDENCE/MEMORANDUM

DATE: 30 June 2005

TO: Laura Bub, Central Office

FROM: Pamela Toshner, Superior

SUBJECT: Maple School District, Northwestern Elementary and Middle Schools, Bardon Creek Headwaters/Wetland Fish and Aquatic Life Use Designation

Attached is the Fish and Aquatic Life Use Designation Report for the Bardon Creek Headwaters/Wetland segment in the SE1/4 NW1/4 S4 T47N R11W, Douglas County, that receives wastewater discharge from Northwestern Elementary and Middle Schools of Maple School District. The segment was originally proposed to be classified as Very Tolerant Aquatic Life/Limited Aquatic Life on 20 May 1977, but it is not currently listed in NR 104. Please note that the current Fish and Aquatic Life Use Designation concurs with the original classification for the immediate receiving segment of the wetland headwaters, but it shortens the length of the VTAL/LAL segment to the Bardon Creek Crossing at Bayfield Road in the NW1/4 NW1/4 S4 T47N R11W. The original VTAL/LAL classification continued downstream to the NE1/4 NW1/4 S33 T48N R11W. Based on preliminary field observations, it is unlikely that Bardon Creek is a VTAL/LAL community north of Bayfield Road. *what is it?*

*Bardon Creek Headwaters/wetland  
not in 104, now → prop LAL/VTAL ('77)*

*Bardon Creek HW/wetland →  
BC @ bayfield Rd*



DATE 06/21/05

Discharger: Northwestern Middle School & Elementary?

No.	LOCATION	TIME	DEPTH	TEMP °C	D.O.	pH	SAMPLES COLLECTED - REMARKS
	Photos	1	2	3			facing outfall
		4	5	6			"
		7	8				outfall under debris
		9					WWTP ponds

Discharge diffuses to wetland dominated by jewelweed, sedges, other WL spp.

No standing water, flow, bed, or bank.

Stream characteristics (bed, bank, standing water) develop near Bayfield Road crossing. ~ Asses downstream of Bayfield Rd. in the future.

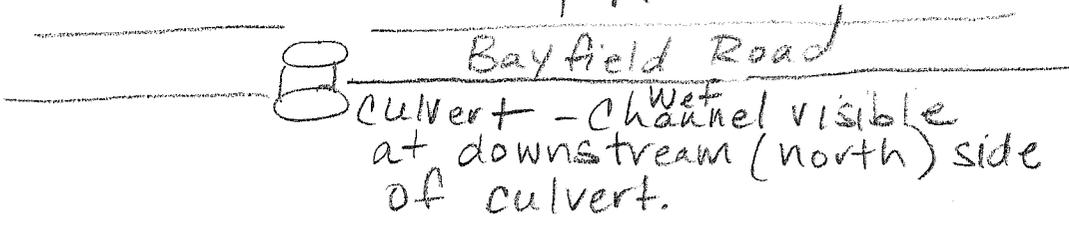
Diagram (over)

Staff:

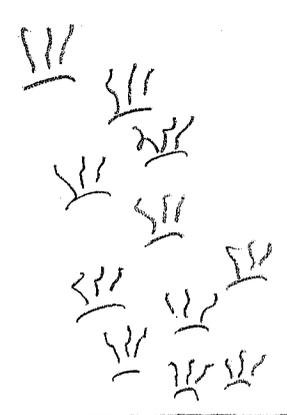
Pamela Toshner

Scott Toshner

↑ N



Wetland

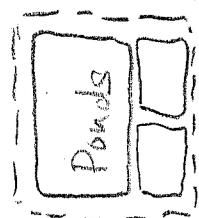


Wetland continues  
 > 200 m downstream  
 from discharge.

No bed, bank, or standing  
 water.

fence

X outfall buried beneath rocks  
 and tree debris?



Dirt Road

School Driveway

Elementary School

Middle School