

Sawyer Co

FLAMBEAU CORRECTIONAL CENTER  
OBSERVATIONS OF WASTEWATER DISCHARGE FLOW PATH  
11-11-03

The two cell lagoon system discharges effluent in the fall. Discharge was occurring at the time of this visit. The outfall is located near the southwest corner of the lagoons (N45° 39' 39.8", W90° 44' 46.5"; site FO on the attached map). Effluent initially enters an alder/ash dominated wetland and flow is braided/diffuse. After 100 yards (site F1), flow becomes channelized and remains so for the rest of the 1.0 mile distance to Hackett Creek, which is a class I trout stream.

The channel has a low to moderate gradient between sites F1 and F4 and downstream of site F8. There is a broader wetland fringe (mostly ash/alder swamp) in these reaches. The channel gradient is higher between sites F4 and F8. There is only a narrow wetland fringe in this reach and the substrate is mostly gravel/cobble/rubble. The stream channel averages about 3 ft. wide with an average depth of about 4 in.

The macroinvertebrate population was very limited. A single species of mayfly (*Leptophlebia*) was found at several locations between sites F1 and F6. *Leptophlebia* is known to complete its larval development in pools of standing water. It has an HBI value of 4, which is indicative of very good water quality. The limited macroinvertebrate population is probably due to lack of continual water flow.

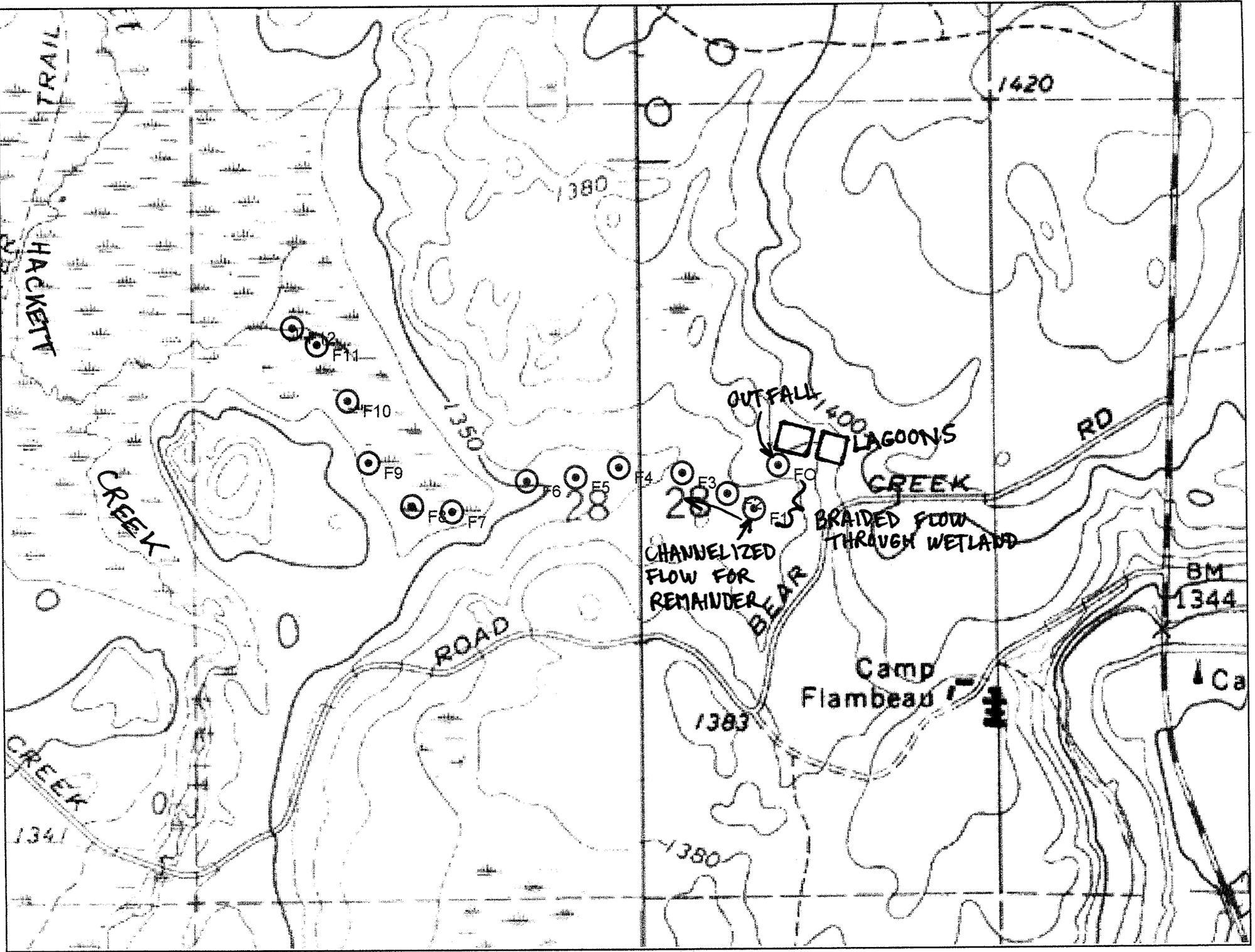
A few minnows were sighted in the reach between sites F1 and F6. Partial ice cover prevented an assessment of the fish community.

The channel needs to be revisited during baseflow conditions and during an effluent discharge period prior to freeze-up. The fish community should be assessed along with the macroinvertebrate community in the lower reaches of the channel.

Craig Roesler  
Water Quality Biologist  
Upper Chippewa Basin – Hayward

FLAMBEAU CORRECTIONAL CENTER  
EFFLUENT DISCHARGE PATH COORDINATES (NAD83)

FO	N45 39' 39.8", W90 44' 46.5" (effluent outfall)
F1	N45 39' 36.8", W90 44' 48.9"
F2	N45 39' 37.8", W90 44' 51.3"
F3	N45 39' 39.1", W90 44' 55.6"
F4	N45 39' 39.6", W90 45' 01.7"
F5	N45 39' 38.9", W90 45' 05.7"
F6	N45 39' 38.6", W90 45' 10.4"
F7	N45 39' 36.7", W90 45' 17.4"
F8	N45 39' 37.0", W90 45' 21.1"
F9	N45 39' 40.0", W90 45' 25.1"
F10	N45 39' 44.1", W90 45' 27.1"
F11	N45 39' 47.8", W90 45' 29.8"
F12	N45 39' 48.9", W90 45' 32.2"



Department of Natural Resources

INTRA-DEPARTMENT

MEMORANDUM

Spoooner

Station

Date ..... November 5, 1976 .....

IN REPLY REFER TO: 3200

TO: Anthony S. Earl

FROM: L. G. Hansen

SUBJECT: Surface Water Classification (NR 104) - Flambeau  
State Camp, Sawyer County

DNR NOV 9 1976

Flambeau State Camp is located in southeastern Sawyer County. Effluent from the camp's two-cell lagoon treatment system is discharged to a wooded wetland immediately west of the lagoon. The general drainage pattern in the wetland is toward Hackett Creek to the west.

Hackett Creek, a cold water swamp drainage tributary to the South Fork Flambeau River, was surveyed by Fish Management personnel in 1975. It is a Class I trout stream and supports a balanced aquatic community. Because of the non-discrete flow and the 3/4 mile distance from the lagoon to the creek, it cannot be determined where the effluent actually reaches Hackett Creek and no detectable effect on the creek is anticipated.

A map and photographs are attached.

RECOMMENDATION

The "wetlands" (NR 104.02(1)(c)) receiving treated wastewater from the Flambeau State Camp shall be classified as "marginal surface water" (NR 104.02(3)(b)). The effluent may vary from the limitations specified in NR 104.02(3)(b) if the conditions of NR 104.02(4)(c) are met.

Hackett Creek and the South Fork Flambeau River shall meet fish and aquatic life standards (NR 102.02).

By Ted R. Smith  
Ted R. Smith

TRS:mm

Attachments

NOTED:

\_\_\_\_\_  
Date



Flambeau State Camp  
Receiving Wetland  
(clipboard for scale)

## Bub, Laura A

---

**From:** Franson, Lon J  
**Sent:** Friday, May 16, 2003 12:00 PM  
**To:** Watson, Susan S; Bub, Laura A; Kreitlow, James D  
**Cc:** Schmidt, James W; Masnado, Robert G; Roesler, Craig P  
**Subject:** RE: Hackett Creek-Flambeau Correctional Center

Hmmm, this one sounds like fun! I did not do the facility planning limits when the plant was upgraded. If I remember correctly, one may not have been done because there was no change in limits or flow from what they previously had been allowed in their permit. Thus, if mistakes were made in the past as Jim stated, they have been perpetuated, and I didn't catch it or think about during the last WQBEL limit review. As the for the discharge. It is to a wetland, and meanders quite away until it hits the stream. I've never walked it through and Craig may have tried in the past, but it is a bugger, with lot of bugs too!

At present the facility is operating very well and is producing a quality effluent, for the first time in several decades!

That's what I know, and more importantly, what I don't! Attached is the limit review I did last year.  
Lon J



FlamCC 02 final.doc

-----Original Message-----

**From:** Watson, Susan S  
**Sent:** Friday, May 16, 2003 8:52 AM  
**To:** Bub, Laura A; Kreitlow, James D  
**Cc:** Schmidt, James W; Masnado, Robert G; Franson, Lon J; Roesler, Craig P  
**Subject:** RE: Hackett Creek-Flambeau Correctional Center

Hi Laura,

Yes, this facility just upgraded in 1997, but did not increase their design flow. Lon J will be able to enlighten us on some of the issues raised below since it is his facility and he did the limit review for it at the last reissuance. The assumption as I understand it was that there is an increase of water in the receiving wetland in the spring and fall but I haven't seen any data to support that. I don't know the distance from outfall through wetland to Hackett Creek.

We may need Craig to do some survey work...

Susan

-----Original Message-----

**From:** Bub, Laura A  
**Sent:** Thursday, May 15, 2003 10:51 AM  
**To:** Watson, Susan S; Kreitlow, James D  
**Cc:** Schmidt, James W; Masnado, Robert G  
**Subject:** FW: Hackett Creek-Flambeau Correctional Center

Susan and Jim K-

In going through some of the NR 104 Phase 1 stream classification files, I came across this site. According to Jim Schmidt's response, it looks like this is a site that we might want to consider taking a look at in the near future. If either of you have any additional information about this site, please let me know (documentation that I have indicates that they *may* have recently upgraded their facilities??).

Laura

-----Original Message-----

**From:** Schmidt, James W

**Sent:** Wednesday, May 14, 2003 2:45 Piv.  
**To:** Bub, Laura A  
**Cc:** Masnado, Robert G  
**Subject:** RE: Hackett Creek-Flambeau Correctional Center

ooo boy --- This discharger is only permitted to discharge during spring and fall. Presumably under NR 104, this suggests that we looked at the trout stream and the flow there was high enough that they could meet the trout stream standards. But I said "presumably," because I can't tell that such an evaluation was ever done. Back in the 1980's and earlier (most likely earlier, meaning late 1970's), a number of sites in northern and northeastern Wisconsin had a limit determination under NR 104 that didn't exactly do a correct interpretation of NR 104.02(4)(c). It was read at the time that if the discharge was seasonal during high-flow months, we just automatically gave the permittee secondary limits rather than WQ-based. There was no determination of the stream flows during those months, just an assumption that the river flow could accommodate a seasonal discharge. I've got a bad feeling that this is one of those places where this was done --- and I say that because we don't have low-flow data on Hackett Creek.

Normally I would say that since it's a trout stream, there probably is enough natural flow to handle a seasonal discharge (as well as a continuous one), but from your note, it appears they don't go directly to Hackett Creek. A wetland discharge is one that I interpret under NR 104 that there's no opportunity for relaxation of the limits during spring and fall because there's no background flow to increase during those seasons. If there was, it would be a river, not a wetland!

What we have typically done in the past to remedy those situations is to wait until the plant is upgraded (increased effluent flow) whereupon then we'd get them to move the outfall, and I would expect that's the case here. The idea being it's not worth pushing immediate action on these smaller discharges, which this one would likely be since it's not even a "municipality." Clearly, though, my opinion is that the limits for this place are incorrect and should be based on LAL regardless of when they discharge. The only way I'd see any relief is if the outfall was so close to the creek that we'd "ignore" the wetland. Maybe that's the case here, but I see nothing in our files to suggest that's what happened. NOR may know more about this, but this is my version of the issue here.

As usual, not as simple as one might think!

-----Original Message-----

**From:** Bub, Laura A  
**Sent:** Wednesday, May 14, 2003 2:29 PM  
**To:** Schmidt, James W  
**Subject:** Hackett Creek-Flambeau Correctional Center

Hey Jim,

I have a question for you regarding Hackett Creek-Flambeau Correctional Center, in Rusk County. This site currently has a wetland discharge, which according to current NR 104, gets a default classification of LAL (which IS the classification that is currently codified for the trib). Hackett Creek is a class 1 trout stream. Can you tell me if the current effluent limits for the wetland trib are protective of the CW downstream use?

Laura

DATE: March 1, 2002

FILE REF:3200

TO: Susan Watson - Rhinelander

FROM: Bob Masnado - WT/2

SUBJECT: Water Quality-Based Effluent Limitations for the Flambeau Correctional Center  
Permit # WI-003006

This is in response to your request for an evaluation of effluent limitations for the Flambeau Correctional Center's discharge to a large wetland drainage to Hackett Creek, which is located in the Lower South Fork Flambeau River Watershed (UC08) of the Upper Chippewa River water basin, north of the Village of Hawkins in Rusk County. This evaluation is discussed in more detail in the attached report.

No changes are recommended in any permit limitations for the so-called "conventional" pollutants, which in this case includes BOD<sub>5</sub>, total suspended solids, dissolved oxygen, and pH.

Based on our review, no recommendations are made on any chemical-specific substances for inclusion in the WPDES permit.

In addition, no whole effluent toxicity (WET) testing is recommended for the District.

If there are any questions or comments, please contact Lon Franson at (715-634-9658 ext. 3514).

Attachment

PREPARED BY:

Lon Franson  
Wastewater Engineer

cc: Bob Masnado - WT/2  
Lon Franson - Hayward  
Duane Lahti - Superior  
Chuck Olson - Ashland

**Water Quality-Based Effluent Limitations for  
Flambeau Correctional Center (WI-003006)**

**Prepared by: Lonn Franson  
March 1, 2002**

**General:** The Correctional Center operates a stabilization pond system. Fill and draw discharges are authorized in the existing permit during the months of April, May, June, September, October, and November annually. The original system was constructed in 1973 with an average design flow of 10,900. In 1997 a construction project was completed without an increase in design flow per a permit compliance schedule to address excessive inflow at the ponds site. The ponds were synthetically lined, sludge was removed, a French drain system was installed and other site grading completed to eliminate seasonal groundwater and site drainage problems at the pond site. The storage pond was also expanded to allow for greater operational flexibility and a floating baffle was added in the primary treatment pond. Operation of the system since 1997 has been excellent and the volume of water discharge has been significantly reduced by eliminating the clear-water intrusion at the treatment system site.

**Table of existing permit limits: (Issued May 13, 1996, expired June 30, 2001)**

[Limits established are for secondary treatment as defined in NR 210.10 and as allowed for fill and draw discharges under NR 104.02(4)(c).]

<u>Substance</u>	<u>Effluent Limitations</u>
BOD(5)*	45 mg/L weekly average, 30 mg/L monthly average
TSS *	45 mg/L weekly average, 30 mg/L monthly average
pH*	6.0 - 9.0 s.u. daily range
Dissolved Oxygen*	4.0 mg/L daily minimum
Flow**	0.06 mgd daily maximum

\*- This substance is not being evaluated as part of this review. Since the reference effluent flow has not changed, limitations for conventional pollutants do not need to be re-evaluated at this time.

\*\* - This flow rate was initially recommended by the Northwest District Water Resources Management unit and throughout all previous permit re-issuance's. This limit, 0.06 mgd is equal to 6 times the facilities design flow. It is based on discharging 180 days' stored wastewater over a 30-day period.

**Information used for Permit Reissuance Evaluation:**

Receiving water information

Name: Wetland drainage to Hackett Creek (class I and II trout stream) which flows into the South Fork of the Flambeau River. The discharge is to a wooded wetland complex that is at least a ¼ mile from the creek and there is no apparent channelized effluent flow through the wetland swamp to the creek.

Classification: Wetland – Limited aquatic life (marginal surface water)  
Classified in NR 104.10 table 8.

Effluent information

Effluent flows: Effluent flow during the discharge period averaged 0.058 mgd per the permit application and review of effluent data. The influent design flow of the system for purposes of this review will remain the same as previous, 0.01 mgd. Actual influent ranges from 0.005 to 0.008 mgd.

Hardness: 110 mg/L from a single sample in the permit application.  
Metals: Results from a single sample event on November 20, 2000.

**Permit Recommendations:**

Ammonia – **No ammonia limit or monitoring is recommended.** No ammonia review was done as the classification does not require one for a discharge of this type. In addition the distance (at least ¼ mile) to Hackett Creek is so great through the wetland complex that no impact would be anticipated from this discharge on the creek. Previous permit reviews justified no ammonia monitoring or limits by stating fill and draw discharges occurring in the spring and fall when water temperatures are low and receiving waters are high are conditions when ammonia toxicity would not be expected. In the application one sample was taken in the fall of 2000 with a result of 0.22 mg/L, which is typical of quality effluents during this time of year.

Phosphorus- **No phosphorus limit or monitoring is recommended.** In evaluating phosphorus, nine sample results were submitted from the spring and fall of 2000. The range of the samples was from a low of 1.4 mg/L to a high of 3.3 mg/l. The mean of all samples was 2.0 mg/l. Based on a daily flow of 0.06 mgd for a month and using the mean of 2.0, the estimated pounds discharged per month would be approximately 31 pounds per month. This estimated discharge mass is well below the threshold limit of 150 pounds per month per NR 217, which would require a limit.

Chloride- **No chloride limit or monitoring is recommended.** (Sample result 25 mg/L)

Metals – **No metal limits or monitoring is recommended.** The table below summarizes the results submitted by the district in the permit application. Copper, nickel, and zinc were each detected at one ug/l above their respective detection limits. Further review of this data was deemed not necessary because of the extremely low results and the classification of the receiving water.

Table 1- results in ug/L, sample date November 20, 2000 – total recoverable

Parameter	Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc
Result(s)	<2.4	<0.2	<0.001	7.0	<1	4.0	12

WET – **No monitoring recommended.** The WET checklist was not completed and no evaluation was deemed necessary. This decision is based upon the size and type of this facility, the high quality of effluent, receiving water classification and distance to a surface water, and lack of any industrial contributions to the waste stream.

Department of Natural Resources

INTRA-DEPARTMENT

MEMORANDUM

Spooner

Station

Date..... November 5, 1976

IN REPLY REFER TO: 3200

TO: Anthony S. Earl

FROM: L. G. Hansen

DNR NOV 9 1976

SUBJECT: Surface Water Classification (NR 104) - Flambeau  
State Camp, Sawyer County

Flambeau State Camp is located in southeastern Sawyer County. Effluent from the camp's two-cell lagoon treatment system is discharged to a wooded wetland immediately west of the lagoon. The general drainage pattern in the wetland is toward Hackett Creek to the west.

Hackett Creek, a cold water swamp drainage tributary to the South Fork Flambeau River, was surveyed by Fish Management personnel in 1975. It is a Class I trout stream and supports a balanced aquatic community. Because of the non-discrete flow and the 3/4 mile distance from the lagoon to the creek, it cannot be determined where the effluent actually reaches Hackett Creek and no detectable effect on the creek is anticipated.

A map and photographs are attached.

RECOMMENDATION

The "wetlands" (NR 104.02(1)(c)) receiving treated wastewater from the Flambeau State Camp shall be classified as "marginal surface water" (NR 104.02(3)(b)). The effluent may vary from the limitations specified in NR 104.02(3)(b) if the conditions of NR 104.02(4)(c) are met.

Hackett Creek and the South Fork Flambeau River shall meet fish and aquatic life standards (NR 102.02).

By

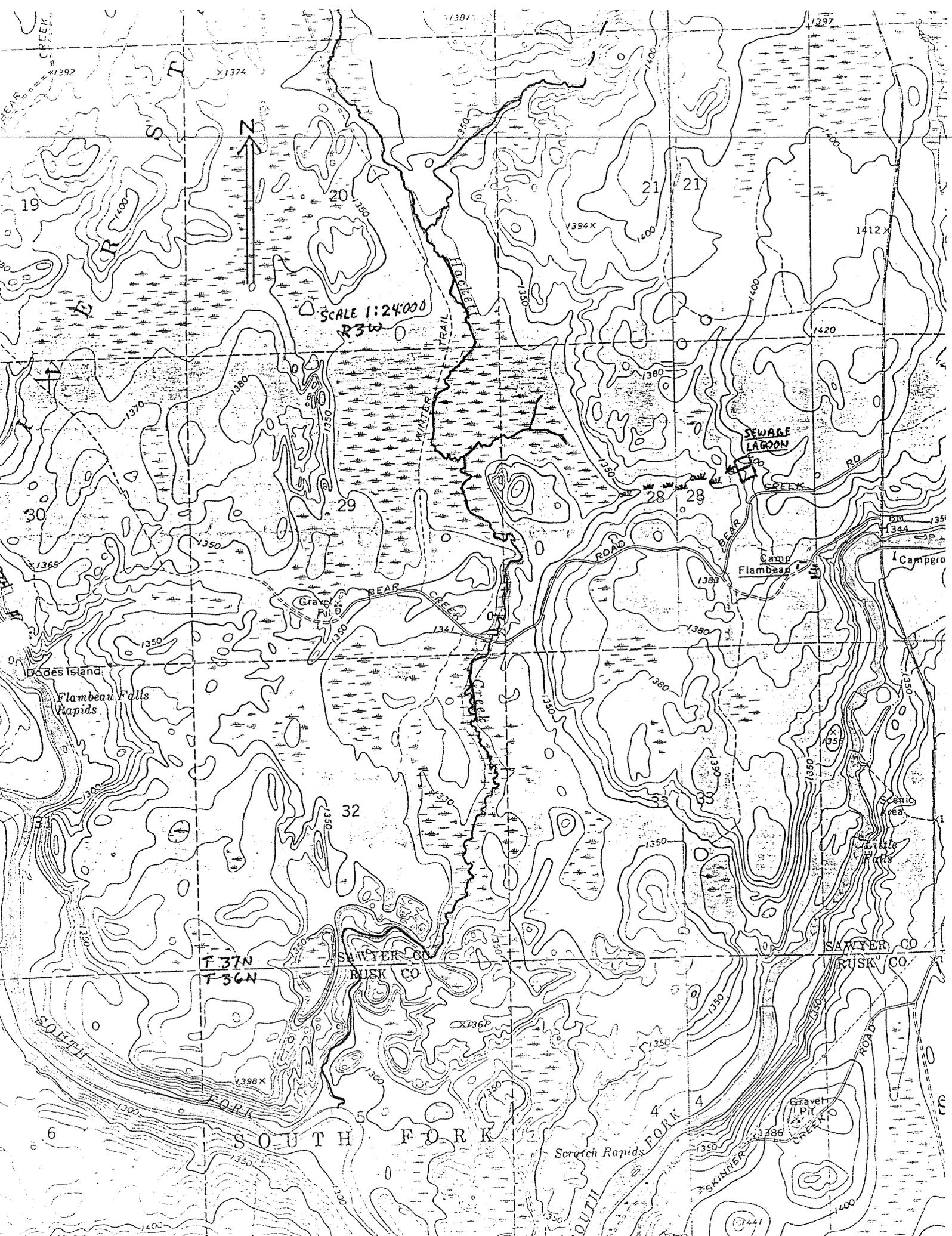
  
Ted R. Smith

TRS:mm

Attachments

NOTED:

Date



BEAR CREEK  
1392

1374



SCALE 1:24000  
R3W

1381

1397

19

1600

20

21

21

1412

1420

29

1370

1380

29

28

28

1351  
1344

30

1365

1350

Gravel Pit 6

1350

1341

1380

SEWAGE LAGOON

Camp Flambeau

Campero

Dades Island

Flambeau Falls Rapids

1360

1350

32

1350

1380

1380

1350

1350

F 37N  
F 36N

SAWYER CO  
RUSK CO

SAWYER CO  
RUSK CO

SOUTH FORK

SOUTH FORK

Scratch Rapids

SWANNING

Gravel Pit 7

6

1400

1350

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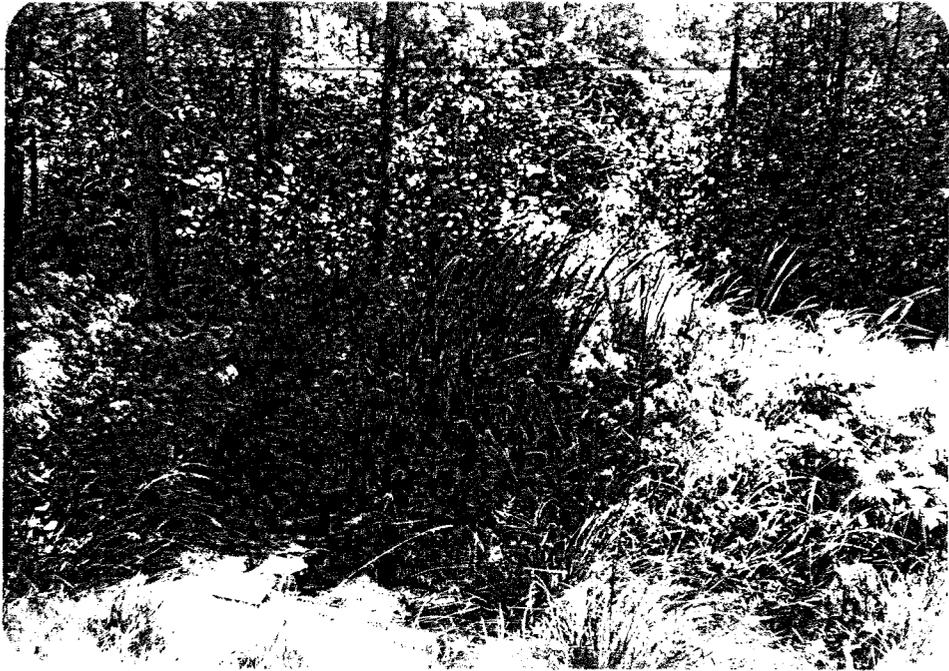
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Flambeau State Camp  
Receiving Wetland  
(clipboard for scale)

*Becky - FILE  
UP CHID*

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES  
PUBLIC NOTICE OF INTENT TO REISSUE WISCONSIN POLLUTANT DISCHARGE  
ELIMINATION SYSTEM (WPDES) PERMIT #WI-0030066-6

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Proposed Expiration Date: JUNE 30, 2001

Permittee: FLAMBEAU CORRECTIONAL CENTER, N671 COUNTY ROAD M, HAWKINS, WI  
54530

Discharge Facility Location: NE¼ SECTION 28; T37N-R3W, NORTH OF HAWKINS,  
WISCONSIN

Receiving Water: A WETLAND TRIBUTARY TO HACKETT CREEK IN SAWYER COUNTY

Brief Facility Description and Summary of Proposed Changes: Flambeau Correctional Center is a prison facility with 16 employees and 70 year-round inmates. Wastewater from the dormitories and service buildings is treated in two wastewater stabilization ponds operated in series. The pond system is designed to treat 10,000 gallons per day. Treated water (effluent) from the ponds is discharged to a wetland each fall. This type of discharge (called "fill and draw") is authorized in spring and fall by this permit. No disinfection of the final effluent is required (such as chlorination), because the wastewater is held within the system for at least 180 days, allowing a natural die-off of potentially pathogenic bacteria. Further, the wetland receiving the discharge is not classified as a recreational water, so the chances for public contact with the effluent are minimal. Upgrading is being required during this permit term because the existing ponds are too small.

The Department has tentatively decided that the WPDES permit for Flambeau Correctional Center should be reissued. Limitations and conditions which the Department believes adequately protect the receiving water are included in the proposed permit.

Persons wishing to comment on or object to the proposed permit, or to request a public hearing, may write to Kathy Bartilson, Wisconsin Department of Natural Resources, P.O. Box 309, Spooner, WI 54801. All comments or suggestions received no later than 30 days after the publication date of this notice will be considered along with other information on file in making a final decision regarding the permit. Where designated as a reviewable surface water discharge permit, the U.S. Environmental Protection Agency is allowed up to 90 days to submit comments or objections regarding this permit determination.

Land Application of sludge will be done in accordance with this permit and ch. NR204, Wis. Adm Code. All application sites must be approved prior to their use. If any person wishes to receive a list of approved sites, they may contact their District sludge specialist.

A public informational hearing may be held if response to this notice indicates significant public interest pursuant to sec. 147.13, Wis. Stats., or if a petition requesting a hearing is received from 5 or more persons. Requests for public informational hearings should state the following: the name and address of the person(s) requesting the hearing; the interest in the proposed permit of the person(s) requesting the hearing; the reasons for the request; and the issues proposed to be considered at the hearing.

Information on file for this permit may be inspected and copied at the address above, or at the following address: Wisconsin Department of Natural Resources, Hayward Ranger Station, Rt. 2 Box 2003, Hayward, WI 54843, Monday through Friday (except holidays), between 9:00 a.m. and 3:30 p.m. Information on this permit may also be obtained by calling 715/635-4053 or by writing the Department. Reasonable costs (usually 10 cents per page) will be charged for copies of information in the file other than the public notice and fact sheet. Pursuant to the Americans with Disabilities

Act, reasonable accommodation, including the provision of informational material in an alternative format, will be made available to qualified individuals upon request.

~~NAME AND ADDRESS OF PUBLISHING NEWSPAPER: LADYSMITH NEWS, WEST  
SECOND STREET NORTH, PO BOX 189, LADYSMITH WI 54848~~

Date Notice Issued:

*STATE OF WISCONSIN*  
*DEPARTMENT OF NATURAL RESOURCES*

PERMIT TO DISCHARGE UNDER THE  
WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of Chapter 147, Wisconsin Statutes,

FLAMBEAU CORRECTIONAL CENTER

is permitted to discharge from a facility located in the

NE¼ SECTION 28; T37N-R3W  
NORTH OF HAWKINS, WISCONSIN

to A WETLAND TRIBUTARY TO HACKETT CREEK IN SAWYER COUNTY

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit.

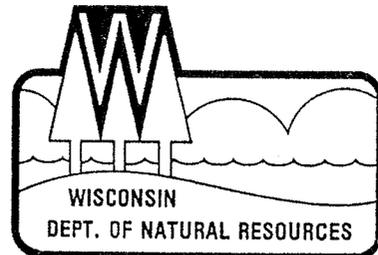
The permittee shall not discharge after the date of expiration. If the permittee wishes to continue to discharge after this expiration date an application shall be filed for reissuance of this permit, according to Chapter NR 200, Wis. Adm. Code, at least 180 days prior to the expiration date given below.

State of Wisconsin Department of Natural Resources  
For the Secretary

By

\_\_\_\_\_  
William Smith  
District Director

\_\_\_\_\_  
Date of Signature



EFFECTIVE DATE: JULY 1, 1996

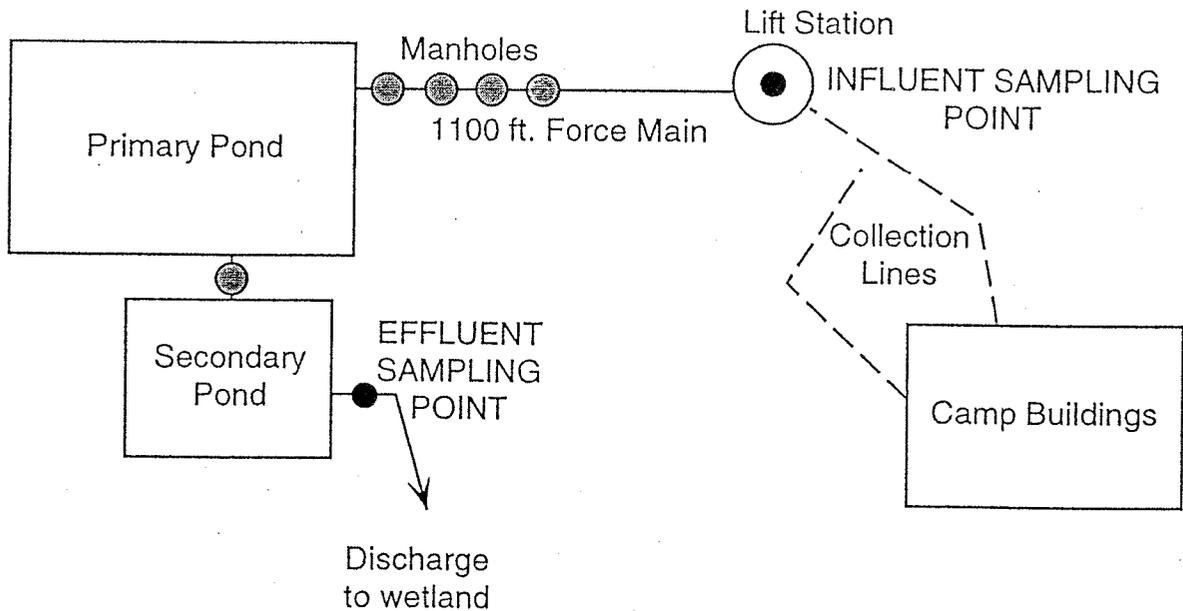
EXPIRATION DATE: JUNE 30, 2001

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## Flambeau Correctional Center Wastewater Treatment Plant

This wastewater treatment facility consists of two stabilization ponds operated in series. Effluent is discharged twice annually to a wetland tributary to Hackett Creek in Sawyer County. The diagram below shows the treatment units and sampling locations.



● represents sample locations  
NOT TO SCALE

Flow: 0.01 MGD  
BOD: 20 pounds/day  
Construction year: 1973

A. Monitoring Requirements - Influent

**INFLUENT SAMPLING POINT:** Samples shall be taken at the lift station ahead of the lagoons.

PARAMETERS	UNITS	MONITORING REQUIREMENTS	
		Sample Frequency	Sample Type
Flow	MGD	Continuous	
BOD <sub>5</sub>	mg/l	2x Monthly	Grab
Suspended Solids	mg/l	2x Monthly	Grab

B. Monitoring Requirements and Limitations - Effluent

**Outfall 001:** Flambeau Correctional Center is authorized to discharge to a wetland tributary to Hackett Creek via Outfall 001. These fill and draw discharges are authorized during the months of April, May, June, September, October, and November, annually.

**Sampling point:** Samples shall be taken at the discharge structure after the second stabilization pond.

**Disinfection:** Effluent disinfection is not required, because the wetland receiving the discharge is not classified for recreational use under Wisconsin Administrative Code NR 104, and because the effluent is stored within the treatment system for at least 180 days.

EFFLUENT PARAMETERS	EFFLUENT LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Sample Frequency	Sample Type
Flow	-	-	-	0.06 MGD <sup>1</sup>		Continuous
BOD <sub>5</sub>	30 mg/l	45 mg/l	-	-	1x Weekly	Grab
Suspended Solids	30 mg/l	45 mg/l	-	-	1x Weekly	Grab
pH	-	-	6.0 s.u.	9.0 s.u.	1x Weekly	Grab
Dissolved Oxygen	-	-	4.0 mg/l	-	1x Weekly	Grab
Phosphorus (in the year 2000 only) <sup>2</sup>	-	-	mg/l	-	1x Weekly	Grab

<sup>1</sup> The Park Falls Area Staff must be notified at least 7 days prior to an anticipated discharge. The pond contents shall be sampled prior to any discharge to assure that adequate stabilization has taken place. Monitoring frequency shall be 1x weekly during the discharge period. Fill and draw discharges must take place over 30 days to prevent hydraulic and organic overloading of the receiving water. The daily maximum flow limit is equal to 6 times the design flow, and is based on discharging 180 days' stored wastewater over a 30-day period.

<sup>2</sup> Phosphorus monitoring is required weekly during fill and draw discharges in the year 2000.

C. Monitoring Requirements - Sludge

Sludge may be removed from the stabilization ponds as part of the upgrading project. The sludge removed must meet the requirements specified below. Monitoring of the sludge quality will be required prior to removal and/or landspreading.

All sludge samples shall be collected at a point and in a manner which will yield sample results that are representative of the sludge being tested, and collected at the time which is appropriate for the specific test.

**Land Application of Sludge** - All Sludge management activities shall be conducted in compliance with the Municipal Sludge Management Code, Wisconsin Administrative Code NR 204. **The sludge shall be analyzed for the parameters contained in Lists 1, 3, and 4.** Less monitoring may be requested in writing to the Department. Granting such a request does not require a permit modification. The parameters in **List 2** shall be analyzed just prior to land application. All instances of non-compliance shall be reported within 24 hours of discovery.

Sludge Sample(s): #002

The Permittee has indicated that Class B sludge is being produced and that the following option(s) are utilized:

Pathogen Control Parameter/Process Used: Fecal Coliform

The Permittee has also indicated that the "Incorporation" option is used for vector attraction reduction.

C. Monitoring Requirements - Sludge (cont.)

LIST 1

Parameter	Unit	Limit	High Quality Limit
Total Solids	%	-	-
Arsenic	mg/kg (dry weight)	75	41
Cadmium	mg/kg (dry weight)	85	39
Copper	mg/kg (dry weight)	4300	1500
Lead	mg/kg (dry weight)	840	300
Mercury	mg/kg (dry weight)	57	17
Molybdenum	mg/kg (dry weight)	75	-
Nickel	mg/kg (dry weight)	420	420
Selenium	mg/kg (dry weight)	100	100
Zinc	mg/kg (dry weight)	7500	2800

LIST 2 - NUTRIENTS

Parameter	Units
Total Kjeldahl Nitrogen	%
Ammonium Nitrogen	%
Total Phosphorus	%
Total Potassium	%

**C. Monitoring Requirements - Sludge (cont.)**

LIST 3

The permittee may select a different option shown in list 3 at any time without modifying the permit. The Department shall be notified when an alternative option is utilized.

The following requirements must be met prior to land application of sludge:

**PATHOGEN DENSITIES FOR CLASS B SLUDGE**

Parameter	Unit	Limit
Fecal Coliform*	MPN/gTS or CFU/gTS	2,000,000
<b>OR, ONE OF THE FOLLOWING PROCESS OPTIONS</b>		
Aerobic Digestion		Air Drying
Anaerobic Digestion		Composting
Alkaline Stabilization		PSRP Equivalent Process
* The Fecal coliform limit must be reported as the geometric mean of 7 discrete samples on a dry weight basis.		

**C. Monitoring Requirements - Sludge (cont.)**

LIST 4 - VECTOR ATTRACTION REDUCTION

The permittee may select a different option shown in list 4 at any time without modifying the permit. The Department shall be notified when an alternative option is utilized.

One of the following must be satisfied prior to, or at the time of land application as specified in list 4.

Option	Limit	Where/When it Must be Met
Volatile Solids Reduction	≥38%	Across the process
Specific Oxygen Uptake Rate	≤1.5 mg O <sub>2</sub> /hr/g TS	On aerobic stabilized sludge
Anaerobic bench-scale test	< 17 % VS reduction	On anaerobic digested sludge
Aerobic bench-scale test	< 15 % VS reduction	On aerobic digested sludge
Aerobic Process	> 14 days, Temp > 40°C and Avg. Temp > 45°C	On composted sludge
pH adjustment	> 12 S.U. (for 2 hours) and > 11.5 (for an additional 22 hours)	When applied or bagged
Drying without primary solids	> 75 % TS	When applied or bagged
Drying with primary solids	> 90 % TS	When applied or bagged
Equivalent Process	Approved by the Department	Varies with process
Injection	-	When applied
Incorporation	-	Within 6 hours of application

D. Schedules of Compliance

(1) Facility Upgrading

Required Action	Date Due
Submit a facility plan.	September 30, 1996
Submit plans and specifications for treatment plant modifications.	March 31, 1997
Begin construction.	March 31, 1998
Complete construction.	December 31, 1998

E. Standard Requirements

(Rev. August 15, 1995)

- (1) **NR 205:** In addition to the following Standard Requirements, the conditions in Wis. Adm. Code NR 205.07(1), NR 205.07(2), and NR 205.07(3) are included in this permit.
- (2) **MONITORING RESULTS:** Monitoring results obtained during the previous month shall be summarized and reported on a **WPDES Discharge Monitoring Report (DMR), #3200-28**, postmarked no later than the 15th day of the month following the completed reporting period. The original and district copies of 3200-28 shall be submitted to your DNR district office. The facility copy is to be retained by the permittee.
  - (a) **If the permittee monitors any pollutant more frequently than required by this permit, the results of such monitoring shall be included on Form #3200-28.**
  - (b) **The permittee shall comply with all limits for each parameter regardless of monitoring frequency. Monthly, weekly, and/or daily limits must be met even with monthly monitoring. The permittee may monitor more frequently than required for any parameter.**
- (3) **TESTING PROCEDURES:** Sampling and laboratory testing procedures shall be performed in accordance with Chapters NR 218 and NR 219, Wis. Adm. Code.
- (4) **RECORDING OF RESULTS:** For each effluent measurement or sample taken, the permittee shall record the following information.
  - (a) The date, exact place, method and time of sampling or measurements;
  - (b) The individual who performed the sampling or measurements;
  - (c) The date the analysis was performed;
  - (d) The individual who performed the analysis;
  - (e) The analytical techniques or methods used; and
  - (f) The results of the analysis.
- (5) **VISIBLE FOAM OR FLOATING SOLIDS:** There shall be no discharge of floating solids or visible foam in other than trace amounts.
- (6) **PERCENT REMOVAL:** During any 30 consecutive days, the average effluent concentrations of BOD<sub>5</sub> and of total suspended solids shall not exceed 15% of the average influent concentrations, respectively.
- (7) **REPORTING OF MONITORING RESULTS LESS THAN THE LEVEL OF DETECTION:** The permittee shall use the following conventions when reporting effluent monitoring results:
  - (a) Effluent concentrations less than the level of detection shall be reported as < (less than) the value of the level of detection. For example, if a substance is not detected at a detection level of 0.1 mg/L, report the effluent concentration as <0.1 mg/L.
  - (b) Effluent concentrations equal to or greater than the level of detection, but less than the level of quantitation, shall be reported as observed and the level of quantitation shall be specified.

**E. Standard Requirements (cont.)**

- (c) For the purposes of calculating an average or a mass discharge value, the permittee may substitute a 0 (zero) for any effluent concentration that is less than the level of detection.

(8) **DETERMINING COMPLIANCE WITH A LIMIT THAT IS LESS THAN THE LEVEL OF DETECTION:**

- (a) If the water quality based effluent limitation is less than the level of detection, effluent concentrations less than the level of detection are in compliance with the effluent limitation.
- (b) Effluent concentrations greater than the level of detection, but less than the level of quantitation are in compliance with the effluent limitation except when confirmed by a sufficient number of analyses of multiple samples and use of appropriate statistical techniques.
- (c) If the water quality based effluent limitation is greater than the level of detection, but less than the level of quantitation, effluent concentrations less than the level of detection or less than the level of quantitation are in compliance with the effluent limitation.

(9) **APPROPRIATE FORMULAS**

Mass Limits:

- (a) Weekly/Monthly average concentration = the sum of all daily results for that week/month, divided by the number of results during that time period.
- (b) Weekly Average Mass Discharge (lbs/day) -  
1) Daily mass = daily concentration (mg/L) x daily flow (MGD) x 8.34  
2) Average the daily mass values for the week.
- (c) Monthly Average Mass Discharge (lbs/day) -  
1) Daily mass = daily concentration (mg/L) x daily flow (MGD) x 8.34  
2) Average the daily mass values for the month.
- (d) Total Annual Mass Discharge (lbs/year) -  
1) Monthly average concentration (mg/L) equals the sum of all daily results for the month divided by the number of results.  
2) Monthly mass (lbs/month) = Monthly average concentration (mg/L) x total monthly flow (MG) x 8.34  
3) Total the monthly mass values for the entire year.
- (10) **COMPLIANCE MAINTENANCE ANNUAL REPORTS:** Compliance Maintenance Annual Reports (CMAR) shall be completed on information obtained over each calendar year regarding the wastewater treatment and conveyance system. The CMAR shall be submitted by the Permittee on or before March 31 of each year on a report form provided by the Department. The CMAR shall be completed and signed by a duly authorized representative. In the case of a publicly owned treatment works, the municipality's

**E. Standard Requirements (cont.)**

governing body shall submit a resolution accompanying the CMAR, that deals with how the permittee will address the problems identified." = "1" ~

- (11) **FLOW METERS**: Flow meters shall be calibrated annually, as per NR 218.06.
- (12) **RECORDS RETENTION**: The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit for a period of at least 3 years from the date of the sample, measurement, report or application, except for sludge management forms and records, which must be kept for a period of at least five years. The Department may request that this period be extended by issuing a public notice to modify the permit to extend this period.
- (13) **PROHIBITED WASTES**: Under no circumstances may the introduction of wastes prohibited by s. NR 211.10 be allowed into the waste treatment system. Prohibited wastes include those:
- (a) Which create a fire or explosion hazard in the treatment work;
  - (b) Which will cause corrosive structural damage to the treatment work;
  - (c) Solid or viscous substances in amounts which cause obstructions to the flow in sewers or interference with the proper operation of the treatment work;
  - (d) Wastewaters at a flow rate of pollutant loading which are excessive over relatively short time periods so as to cause a loss of treatment efficiency; or
  - (e) Changes in discharge volume or composition from contributing industries which overload the treatment works or cause a loss of treatment efficiency.
- (14) **UNSCHEDULED BYPASSING**: Any unscheduled diversion or bypass of wastewater at the treatment work or collection system is prohibited except in the following cases:
- (a) An inadvertent bypass resulting from equipment damage or temporary power interruption;
  - (b) An unavoidable bypass necessary to prevent loss of life or severe property damage; or
  - (c) A bypass of excessive storm drainage or runoff which would damage any facilities necessary for compliance with the effluent limitations and prohibitions of the permit. In the event of an unscheduled bypass, the permittee shall immediately notify the Department district office by telephone within 24 hours after an occurrence. In addition, the permittee shall notify the Department by letter within 5 days after each such unscheduled diversion or unscheduled bypass. The written notification shall at a minimum include reasons for such unscheduled bypass including dates, length of bypass and steps taken or planned to correct and eliminate such occurrences.

**E. Standard Requirements (cont.)**

- (15) **SCHEDULED BYPASSING:** Any construction or normal maintenance which results in a bypass of wastewater from a treatment system is prohibited unless authorized by the Department in writing. If the Department determines that there is significant public interest in the proposed action, the Department may schedule a public hearing or notice a proposal to approve the bypass. Each request shall specify the following minimum information:
- (a) Proposed date of bypass;
  - (b) Estimated duration of the bypass;
  - (c) Alternatives to bypassing; and
  - (d) Measures to mitigate environmental harm caused by the bypass.
- (16) **SLUDGE MANAGEMENT PROGRAM STANDARDS AND REQUIREMENTS BASED UPON FEDERALLY PROMULGATED REGULATIONS:**
- (a) **NEW FEDERAL REGULATIONS.** In the event that new federal sludge standards or regulations are promulgated, the permittee shall comply with the new sludge requirements by the dates established in the regulations, if required by federal law, even if the permit has not yet been modified to incorporate the new federal regulations.
  - (b) **STATE ADOPTION.** The Department shall, as soon as possible, and in conformance with federal requirements, after the promulgation of any federal regulation establishing sludge management program standards or requirements as described in the previous paragraph, adopt appropriate standards or requirements for permittees subject to this chapter and ch. 147, Stats.
- (17) **APPROVAL TO LAND APPLY:** Bulk non-exceptional quality sludge may not be applied to land without a written approval letter or form 3400-122 from the Department. Analysis of sludge characteristics is required prior to disposal. Once 180 day storage is provided, application on frozen or snow covered ground is restricted to the extent specified in ch. NR 204.07(3) (1).
- (18) **GENERAL SLUDGE MANAGEMENT INFORMATION:** The General Sludge Management Information Form 3400-48 shall be submitted with your WPDES permit application. This form shall also be updated and submitted prior to any significant sludge management changes.
- (19) **SLUDGE HAULING:** If sludge is hauled to another facility, the permittee is required to submit form 3400-52 to the Department. Information shall include the quantity of sludge hauled, the name, address, phone number, contact person, and permit number of the receiving facility. Form 3400-52 shall be submitted annually during each year sludge is hauled.
- (20) **SLUDGE CHARACTERISTICS:** Each report shall consist of a Sludge Characteristics Form 3400-49 and a copy of the lab report. Both reports must be submitted annually by January 31.
- (21) **LANDSPREADING SITE EVALUATION:** For non-exceptional quality sludge, a Landspreading Site Evaluation Form 3400-53 shall be submitted to the Department for the proposed land application site. The Department will evaluate the proposed site for acceptability and will either approve or deny use of the proposed site. The permittee may

**E. Standard Requirements (cont.)**

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obtain permission to approve their own sites in accordance with NR 204.06(6), Wis. Adm. Code.

- (22) **SLUDGE DISPOSAL/LAND APPLICATION REPORT: Form 3400-55** must be submitted by January 31, Annually during each year sludge is land applied.
- (23) **FECAL COLIFORM DENSITY**: Compliance with this requirement shall be demonstrated by calculating the geometric mean of at least 7 separate samples.
- (24) **INCORPORATION**: .Class B sludge shall be incorporated within 6 hours.
- (25) **FILL AND DRAW SYSTEMS**: The permittee shall notify the Department at least 7 days prior to an anticipated discharge. The pond contents shall be sampled prior to any discharge to assure that adequate stabilization has taken place.
- (26) **RAW GRIT AND SCREENING**: All raw grit and screenings shall be disposed of at a properly licensed solid waste facility or picked up by a licensed waste hauler. If the facility or hauler are located in Wisconsin, then they must be licensed under NR 500-520.

Appendix A: Summary of Reports Due

FOR INFORMATIONAL PURPOSES ONLY

Report	Date	Page(s)
FACILITY UPGRADE COMP SCHED: Submit a facility plan	September 30, 1996	7
Submit plans and specifications for treatment plant modifications	March 31, 1997	7
Begin construction	March 31, 1998	7
Complete construction	December 31, 1998	7
WPDES Discharge Monitoring Report (DMR), #3200-28	no later than the 15th day of the month following the completed reporting period	8
Compliance Maintenance Annual Reports (CMAR)	submitted by the Permittee on or before March 31 of each year	9
Sludge Application Reports: Landspreading Records and Sludge Characteristics Reports	January 31, Annually during each year sludge is land applied	12

All reports and submittals required by this permit should be sent to the Northwest District Headquarters. If Compliance Schedule reports are required, they should be sent to the Bureau of Wastewater Management. The addresses are:

WI Department of Natural Resources  
 Northwest District Headquarters  
 P.O. Box 309  
 Spooner, WI 54801

WI Department of Natural Resources  
 Bureau of Wastewater Management  
 P.O. Box 7921  
 Madison WI, 53707-7921

## PERMIT INFORMATION - MUNICIPAL

GENERAL INFORMATION		
Permit Number: <b>WI-0030066-6</b>		
Permittee Name and Address (if different from discharge location): <b>FLAMBEAU CORRECTIONAL CENTER, N671 COUNTY ROAD M, HAWKINS, WI 54530</b>		
Discharge Location: <b>NE¼ SECTION 28; T37N-R3W, NORTH OF HAWKINS, WISCONSIN</b>		
Receiving Waters: <b>A WETLAND TRIBUTARY TO HACKETT CREEK IN SAWYER COUNTY</b>		
Design Flow:	<b>0.01 MGD</b>	Type: <b>Average Daily Dry Weather</b>
Stream Classification: <b>Limited Aquatic Life (marginal)</b>		

### FACILITY DESCRIPTION

<p>Flambeau Correctional Center is a prison facility with 16 employees and 70 year-round inmates. Wastewater from the dormitories and service buildings is treated in two wastewater stabilization ponds operated in series. The pond system is designed to treat 10,000 gallons per day. Treated water (effluent) from the ponds is discharged to a wetland each fall. Fill and draw discharges are authorized in spring and fall by this permit. No disinfection of the final effluent is required (such as chlorination), because the wastewater is held within the system for at least 180 days and the wetland receiving the discharge is not classified as a recreational water. Upgrading is being required during this permit term because the existing ponds are too small.</p>	
Significant Industrial Loading? <b>no</b>	Operator at proper grade? <b>yes</b>

### SUBSTANTIAL COMPLIANCE DETERMINATION

	Compliance ?	Comments
Discharge limits	Yes	
Sampling/testing requirements	Yes	
Groundwater standards	NA	NA means not applicable
Reporting requirements	Yes	
Compliance schedules	Yes	
Other:		
Enforcement considerations	None	
In substantial compliance ? Yes	Comments:	

## PROPOSED PERMIT MONITORING AND LIMITATIONS - INFLUENT

**SAMPLING POINT:** Samples shall be taken at the lift station ahead of the lagoons.

PARAMETERS	UNITS	MONITORING REQUIREMENTS	
		Sample Frequency	Sample Type
Flow	MGD	Continuous	
BOD <sub>5</sub>	mg/l	2x Monthly	Grab
Suspended Solids	mg/l	2x Monthly	Grab

Explanation of changes from previous permit: A new flow meter was installed during the last permit term. Lift station calibration reports are no longer needed because pump timers are not relied on for flow measurement.

## PROPOSED PERMIT MONITORING AND LIMITATIONS - EFFLUENT

**Outfall 001:** Flambeau Correctional Center is authorized to discharge to a wetland tributary to Hackett Creek via Outfall 001. These fill and draw discharges are authorized during the months of April, May, June, September, October, and November, annually.

**Sampling point:** Samples shall be taken at the discharge structure after the second stabilization pond.

**Disinfection:** Effluent disinfection is not required, because the wetland receiving the discharge is not classified for recreational use under Wisconsin Administrative Code NR 104, and because the effluent is stored within the treatment system for at least 180 days.

EFFLUENT PARAMETERS	EFFLUENT LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Sample Frequency	Sample Type
Flow	-	-	-	0.06 MGD <sup>1</sup>	Continuous	
BOD <sub>5</sub>	30 mg/l	45 mg/l	-	-	1x Weekly	Grab
Suspended Solids	30 mg/l	45 mg/l	-	-	1x Weekly	Grab
pH	-	-	6.0 s.u.	9.0 s.u.	1x Weekly	Grab
Dissolved Oxygen	-	-	4.0 mg/l	-	1x Weekly	Grab
Phosphorus (in the year 2000 only) <sup>2</sup>	-	-	mg/l	-	1x Weekly	Grab

Explanation of changes from previous permit: June has been added as an additional month for performing fill and draw discharges. Water temperatures should still be cold, and the additional time will allow more operational flexibility.

The effluent control structure was upgraded during the last permit term; a parshall flume was installed along with a new flow meter.

Incorporation of new water quality initiatives:

Chlorine monitoring or limits: none needed; there are no suspected sources here.

Ammonia monitoring or limits: no limits or monitoring needed; fill and draw discharges occur in spring and fall when water temperatures are low and flow in the receiving waters is high. These are the conditions when ammonia toxicity would not be expected.

Phosphorus monitoring or limits: Discharge levels of phosphorus are below the threshold level of 150 pounds per month set in NR 217. Monitoring will be required in the year 2000 to provide information for the next permit issuance. Present discharge levels are 60 to 126 pounds per month during fill and draw discharges.

NR 103: This discharges to a wetlands was not put through a formal evaluation as outlined in NR 103. This facility has been permitted for approximately 20 years prior to the promulgation of NR 103. Any wetland impacts would have already occurred.

## BIOMONITORING REQUIREMENTS

Is biomonitoring required at this outfall? NO

## DISINFECTION

Is disinfection required for this discharge? Effluent disinfection is not required if the effluent is stored within the treatment system for at least 180 days, or if discharges occur before May 1 or after September 30, annually. Further, the wetland receiving the discharge is not classified for recreational use.

## POND SLUDGE REQUIREMENTS

**For Pond Systems:** Will sludge be removed from the ponds in this permit term? **Yes**  
*Monitoring for metals will be required during the second year of the permit term, unless sludge will be removed from the ponds. If sludge will be removed, monitoring and reporting will be required prior to and during the sludge removal project. Sludge will need to be disposed of or recycled in compliance with the requirements of NR 204.*

## PROPOSED COMPLIANCE SCHEDULES

Upgrading is required during the permit term, as the pond sizes may need to be expanded. A facilities plan is presently being prepared to evaluate treatment options and select the most cost-effective alternative. A proposed schedule for upgrading is being included in the permit, subject to public review.

Proposed expiration date: **June 30, 2001**

*File*

**CORRESPONDENCE/MEMORANDUM**

**DATE:** October 24, 1990

**FILE REF:** 3200

**TO:** Kathy Bartilson

**FROM:** Jane Malischke *JM*

**SUBJECT:** PERMIT REISSUANCE, FLAMBEAU STATE CAMP, WETLAND TRIBUTARY TO HACKETT CREEK

I have completed my review of the Flambeau State Camp permit effluent limits and needs for toxic monitoring and effluent disinfection. Following are my comments:

**Effluent Limitations:** The wetland receiving the WWTP effluent is classified as a marginal surface water. A NR104.02(4)(c) variance for the fill and draw operation has been given to the facility. The secondary effluent limits in the current permit reflect that variance and should be included in the permit to be reissued. The 0.06 MGD maximum discharge rate is not a water quality derived value, but is intended to minimize any scouring, channelized flow or other hydraulic problems that may occur as a result of the discharge. We recommend the 0.06 MGD maximum to be maintained also.

**Toxic Monitoring:** Since the Upper Chippewa Basin Plan is not scheduled for an update until 1993, no toxic sampling is needed yet.

**Disinfection:** No effluent disinfection is necessary at this facility because the receiving water is a marginal surface water and also because the facility is operated with a 180-day detention period.

JCM:ri

cc: Duane Schuettpelz - WR/2  
Paula Ernst - Park Falls

Spooner

3200

November 5, 1976

TO: Anthony S. Earl  
FROM: L. G. Hansen  
SUBJECT: Surface Water Classification (NR 104) - Flambeau  
State Camp, Sawyer County

Flambeau State Camp is located in southeastern Sawyer County. Effluent from the camp's two-cell lagoon treatment system is discharged to a wooded wetland immediately west of the lagoon. The general drainage pattern in the wetland is toward Hackett Creek to the west.

Hackett Creek, a cold water swamp drainage tributary to the South Fork Flambeau River, was surveyed by Fish Management personnel in 1975. It is a Class I trout stream and supports a balanced aquatic community. Because of the non-discrete flow and the 3/4 mile distance from the lagoon to the creek, it cannot be determined where the effluent actually reaches Hackett Creek and no detectable effect on the creek is anticipated.

A map and photographs are attached.

RECOMMENDATION

The "wetlands" (NR 104.02(1)(c)) receiving treated wastewater from the Flambeau State Camp shall be classified as "marginal surface water" (NR 104.02(3)(b)). The effluent may vary from the limitations specified in NR 104.02(3)(b) if the conditions of NR 104.02(4)(c) are met.

Hackett Creek and the South Fork Flambeau River shall meet fish and aquatic life standards (NR 102.02).

By \_\_\_\_\_  
Ted R. Smith

TRS:mmm

Attachments

NOTED:

\_\_\_\_\_  
Date



SCALE 1:24,000  
R36W



Dades Island  
Flambeau Falls  
Rapids

SEWAGE  
LAGOON

Gravel  
Pit

Camp  
Flambeau

Camp

SAWYER CO  
RUSK CO

SAWYER CO  
RUSK CO

T37N  
T36N

SOUTH  
FORK

SOUTH  
FORK

Scratch Rapids

Gravel  
Pit

**CORRESPONDENCE/MEMORANDUM**

Date: February 6, 1990

IN REPLY REFER TO: 3430

To: Jane Malischke

From: Kathy Bartilson

Subject: REQUEST FOR REVIEW OF EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

FACILITY: Flambeau State Camp

EXPIRATION DATE: June 30, 1991

DESIGN FLOW: 10,000 gpd

DRAINAGE BASIN: Upper Chippewa

DATE RESPONSE NEEDED: November 30, 1990

Effluent Limitations:

Attached are the discharge conditions from the previous permit covering the surface water discharge. Please review these limits and monitoring requirements to see if any changes are needed.

Toxic Monitoring: The toxic screening worksheet does not require any further sampling for toxics.

Disinfection Determination: A determination is still needed for this facility. The present permit has no mention of disinfection, probably because it is operated fill and draw.

Antidegradation: Should not apply at this facility

Thanks!

Attach.

cc: Permits Unit/2  
Park Falls Area Office

B. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - FILL AND DRAW OPERATION

During the period beginning on the effective date of this permit and lasting until June 30, 1991, the permittee is authorized to discharge from outfall serial number 001.

Samples taken in compliance with the monitoring requirements specified below shall be taken at the discharge from the second stabilization pond. (The treatment plant's design flow is: 0.01 MGD.)

There shall be no discharge of visible or floating solids in other than trace amounts.

During any 30 consecutive days, the average effluent concentrations of BOD<sub>5</sub> and of total suspended solids shall not exceed 15% of the average influent concentrations, respectively.

EFFLUENT PARAMETERS	EFFLUENT LIMITATIONS					MONITORING REQUIREMENTS <sup>1</sup>	
	Quantity-kg/day(lbs/day)		Other Limitations (Specify Units)			Sample Frequency	Sample Type
	Average	Maximum	Minimum	Average	Maximum		
Flow	-	-	-	-	0.06 MGD <sup>2</sup>	Daily	Total Daily
BOD <sub>5</sub> (monthly)	-	-	-	30 mg/l	-	3x weekly	Grab
BOD <sub>5</sub> (weekly)	-	-	-	45 mg/l	-	3x weekly	Grab
Suspended Solids (monthly)	-	-	-	30 mg/l	-	3x weekly	Grab
Suspended Solids (weekly)	-	-	-	45 mg/l	-	3x weekly	Grab
pH (daily)	-	-	6.0 s.u.	-	9.0 s.u.	3x weekly	Grab
Dissolved Oxygen (daily)	-	-	4.0 mg/l	-	-	3x weekly	Grab

<sup>1</sup>The permittee shall notify the Department District Office at least 7 days prior to an anticipated discharge. The pond contents shall be sampled prior to any discharge to assure that adequate stabilization has taken place. Monitoring frequency shall be 3x weekly during discharge, grab sample type. For a discharge of less than one week duration, 3 samples shall be taken, grab sample type.

<sup>2</sup>This maximum discharge rate is equal to 6 times the design flow and is based on discharging 180 days' stored wastewater over a 30-day period. Fill and draw discharges must take place over 30 to 60 days to prevent hydraulic and organic overloading of the receiving water.

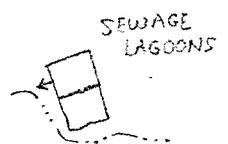


20	21
29	28

21	22
28	27

BEAR CREEK ROAD

HACKETT CREEK



SEWAGE LAGOONS

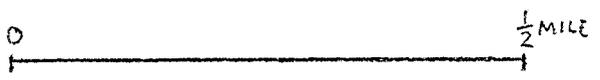
BEAR CREEK ROAD



CAMP FLAMBEAU

29	28
32	33

28	27
33	34



SCALE 1:12000

SOUTH FORK FLAMBEAU RIVER

M

Dated 10-27-76

To: A.S. Earl  
From: L.G. Hanson

Subject: Surface Water Classification (NR104) - Flambeau State Camp,  
Sawyer County.

Flambeau State Camp is located in southeastern Sawyer Co.,  
~~discharges treated wastewater to a wooded wetland.~~

The <sup>CAMP</sup> treatment system is a two-cell lagoon. The  
treated effluent is discharged to a wooded wetland  
immediately to the west of the lagoon. The general  
drainage pattern in this wetland is toward Hackett  
creek to the west. Because of the nondiscrete  
flow and the .75 mile distance from the lagoon to  
Hackett creek, it cannot be determined where the  
effluent actually reaches Hackett Creek and no detectable  
effect on the creek is anticipated.

### Recommendation

The "wetlands" (NR104.02(1)(c)), receiving treated  
wastewater from Flambeau State Camp, shall be classified as  
"Marginal surface waters" (NR104.02(3)(b)). Hackett Creek  
and the South Fork Flambeau River shall meet  
fish and aquatic life standards (NR102.02)

① Hackett Creek is a <sup>cold water</sup> swamp drainage tributary to  
the South Fork Flambeau River. It is a Class I trout  
stream and supports a balanced aquatic community.

8-27-76

Radisson

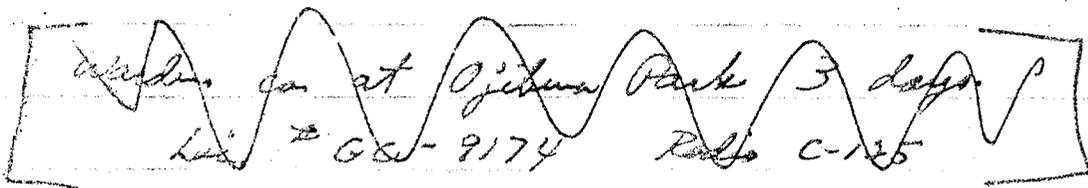
Flow from lagoon ~ 50% duckweed. (Photos)

Natural wetland - Tag Alder.

Water in N culvert (flow not detectable)

↑  
cattails present near culvert.

Above STP (Below Wood Waste) - ~~seeps~~ dry at culvert  
cattails present - new culvert.

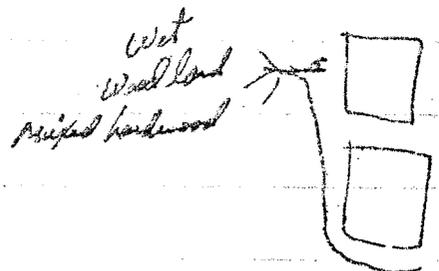


Wentz

Photo of discharge + seepage area. (natural depression)

Camp Plambean.

Photos 1-6



Pool

## Stream Class

7-26-74 Waynesboro

Lagoon<sup>2</sup> below stop boards. (Leaking)

sampled for NH<sub>3</sub> - BAD - TSS

Creek dry until 2nd crossing on Historic Rd.  
down - 1st crossing - 1st creek

Tony

Very little flow from Lagoon

Ditch to fence line

No flow past fence line into cut area (wooded)

15' to rd below standing water - no flow.

Hazen

Est. 1 CFS @ Hwy 8

at City Hwy Below - clear - not low.

Camp Flamborough

Hackett Cr - good flow - clear, cold.

*Price Co  
Paget 2*

