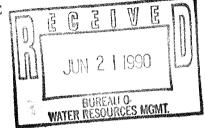
STREAM CLASSIFICATION FOR THE HEADWATERS OF LOHN CREEK

ST. CROIX COUNTY NEAR CADY CHEESE

JUNE 1990

PAUL LA LIBERTE



Cady Cheese discharges cooling water to the headwaters of Lohn Creek in T28N, R15W, S28. The mean flow of Lohn Creek near the mouth is 0.35 CFS. Its watershed size is 2.7 ${
m MI}^2$. The maximum flow recorded in Lohn Creek by U. S. Army Corps of Engineers (USACOE) in 1980-82 was about 35 CFS during an event in April. The effluent is discharged at a rate of 1,000 GPD (0.0015 CFS).

On the day of inspection, the effluent traveled about 300 yards before flow ceased due to loss to groundwater. At the Tenth Avenue bridge, about one-half mile downstream, the stream channel was dry. map indicates that the continuously flowing portion of Lohn Creek is over two miles downstream from the point where effluent flow ceased. the absence of runoff, the effluent probably never reaches the naturally flowing portion of Lohn Creek. Since there is no hydrologic connection of the effluent with a naturally flowing surface water under low flow conditions, no significant lowering of water quality, as defined in NR 207 WAC, in downstream water bodies can exist.

Although the effluent was clear at the point of discharge, water in the stream starting 100' downstream from the outfall and beyond had a milky appearance. Sphaerotilus was present in the stream channel.

Effluent temperature was 23°C and stream BOD₅ (sampled 100' below the outfall) was >440 mg/l. The stream contained 180 mg/l chloride. It appeared that runoff from the truck loading area also can reach the stream.

Based primarily on the lack of flow, the headwaters of Lohn Creek in the vicinity of Cady Cheese is not capable of supporting a full aquatic life community. It should be classified as capable of supporting only marginal aquatic life upstream from its continuously flowing natural origin. Effluent limits for the current discharge of cooling water from Cady Cheese should conform to NR 104.02(3)(b)(3).WAC. In addition, a thermal limit of 120°F should be applied.

Attachment

Duane Schuettpelz - WR/2

Jon Kling - WD c:

Pete Skorseth

WR6\PL006.plm

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 465 Henry Mall, Madison, WI 53706

R.H. Laessig, Ph.D., Director S.L. Inhorn, M.D., Medical Director

Environmental Science Section (608) 262-3458 DNR LAB ID 113133790 Inorganic chemistry (#1 of 1 on 06/13/90, seen)

Id: 0053597 Point/Well/..: 262 Field #: CADY Route: WR60 Collection Date: 05/31/90 Time: 10:00 County: 56 (Saint Croix)

From: CADY CHEESE COOLING WATER OUTFALL

To: LALIBERTE

DNR

EAU CLAIRE

Source: Effluent

Sample depth: 000 Feet Account number: WR049 Collected by: LALIBERTE
Date Received: 06/01/90 Labslip #: IA095865 Reported: 06/07/90

Comment: Partial report; RESULTS ARE PROVISIONAL AND MAY CHANGE.

BOD 5 DAY CHLORIDE

>440 MG/L 180. MG/L

FACILITY CONTACT FORM Form 3400-51

Rev. 7-89

<u> </u>			
ATT'N.			
ENV. ENF. EE/5	MUNIC. WASTEWATER SECTION WW/2 Time (24-Hour Clock)		
PRIV. WATER SECTION WS/2	IND. WASTEWAT	TER SECTION WW/2	LO: 0 0 100
☐ PUBL. WATER SECTION WS/2	19 Pete Sco	rseth DISTRI	Contact Method CT Pin Person Telephone
Facility Name	Location (Addr	ess or 1/4-1/4)	County
Cady Cheese	RFD	Spring Valle	y StCroix
Facility I.D. Or Wis. Unique Well Number	i i	5 9 7. Dis	
Facility Representative Contacted		Citle or Position of Represen	6 P. Laliberte
Ed			umber (including area code)
Activity Codes	F		A Contract of the Contract of
			en de sem distribuis est. La companya de la c
Inspected coolin	g water	outfall,	Discharge is
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1st 300 yds. Re	Λ		10th ave is
dry(1/2 mile). USGS	s map indic	cates the	stream (Lohn
		guother	mile. Effluent
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lownstream the	T/1	was cloud	, white. This
appearance persist	1 -		ning channel,
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Some runoff from	tauken to	ruck loadi	ng avea also
reaches the st			
channel. Recomm		and the same of th	_
will be margin		The state of the s	
to NR104,02 (3)(b)			
facility should not			·
to follow.			en de la companya de
		CC Jon K	ling
		Check if Additional	Sheets Attached
		LI CHECK II Additional	Juona Anaciica



Cady Cheese Factory, Wilson

Findings of Fact

THE DEPARTMENT FINDS:

- That the Cady Cheese Factory manufactures cheese at a plant near Spring Valley.
- That process wastes, other than whey, are directed to a holding tank and spray irrigation system.
- That the spray irrigation system is seldom utilized, and wastes are allowed to flow from the holding tank to the headwaters of Lohn Creek.
- 4. That the discharge of inadequately treated wastes constitutes a source of pollution of the Chippewa River and its tributaries.

Conclusions of Law

- 1. That this Department has authority under 144.025 (2) (d), Wisconsin Statutes, to issue a special order directing particular owners to secure such operating results toward the control of pollution of the waters of the state as the Department prescribes within a specified time.
- That the order hereinafter made for the construction of adequate treatment facilities by the Cady Cheese Factory is reasonable, proper and necessary for the protection of public rights in the Chippewa River and its tributaries.

Order

IT IS, THEREFORE, ORDERED:

- 1. That the Cady Cheese Factory shall by July 1, 1972, place in operation facilities, in accordance with approved plans, for the adequate treatment or disposal of process wastewaters.
- That the Cady Cheese Factory shall by December 1, 1971, submit plans and specifications for the construction of the required treatment facilities.

Dated at Madison, Wisconsin, this 5th day of October, 1971.

By

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES

For the Secretary

Thomas G. Frangos, Administrator Division of Environmental Protection

