

CORRESPONDENCE/MEMORANDUM

STATE OF WISCONSIN

Date: September 19, 1989 File Ref: 3200
To: Duane Schuettpelz - WR/2
From: Paul La Liberte *Paul*
Subject: Water Quality Standards Review for a Tributary to Allen Creek near the Oakdale Sanitary District.

The Oakdale POTW was originally intended to be a surface water discharge when it was built in 1977. This lagoon system has never discharged because the wastewater seeps to groundwater. Modifications to prevent seepage will be made next summer to insure compliance with NR 140. This will result in the first discharge to surface water.

A background study of the Oakdale Tributary and Allen Creek in 1980 provided data in support of the original 1976 stream classification. The marginal classification (use Class E) of the Oakdale tributary is largely due to poor habitat. Lack of flow and stream channelization are contributing factors. It is possible that the additional flow provided by the POTW discharge could improve habitat to the point of changing the stream classification to intermediate (use Class D) by flushing fine sediments from the channel and increasing aeration. Since it is not possible to visually estimate the effect of additional flow, habitat rating should be performed after discharge has commenced.

Since Allen Creek (classified fish and aquatic life) is only about 1,500 feet downstream from the outfall, the discharge should also meet fish and aquatic life standards. The attached calculations indicate that effluent limitations contained in NR 210 are adequate to protect Allen Creek up to an effluent flow of 0.2 mgd.

The Oakdale tributary should remain classified as marginal (use Class E). Once discharge has occurred for at least one year, the stream classification of the tributary should be re-examined. Allen Creek should remain classified as fish and aquatic life. Due to a typographical error, Allen Creek was erroneously listed in NR 104. This will be corrected the next time the code is revised.

Enc.

c: Tom Stibbe

WR6\PL005.plm

26 LB RULE & MASS BALANCE EFFLUENT LIMITS FOR OAKDALE SD

16:17 TUESDAY, SEPTEMBER 12, 1989

OBS	CRITERIA	STP FLOW (MGD)	STREAM FLOW (CFS)	STP PH (SU)	STREAM PH (SU)	STREAM NH3N (MG/L)	STREAM TEMP. (C)	EFFLUENT BOD LIMIT	EFFLUENT NH3N LIMIT
1	WARMWATER	0.200	2.2	9	7.1	0.3	19	46	59.5
2	WARMWATER	0.200	2.2	9	7.1	0.3	5	74	179
3	COLDWATER	0.095	2.2	9	7.1	0.3	19	45	60.3
4	COLDWATER	0.095	2.2	9	7.1	0.3	5	73	186

Allen Creek:

date	Temp	pH	NH3
8-27-84	19°C	7.1	107
10-13-78	7.3	7.0	105
5-6-78	12.1	7.0	.8
		and	.3



4 MI. TO JUNC. 1-90 & 94

1-90 & 94

OAKDALE, WIS

UP DOUGLAS (1865)

CORRESPONDENCE/MEMORANDUM

STATE OF WISCONSIN

File

Date: November 14, 1986

File Ref:

3200

To: John Paddock

From: Paul LaLiberte *Paul*

Subject: Recreational Use Designation for the Oakdale Sanitary District POTW
Receiving Water

The recreational use potential of Allen Creek and the tributary ditch receiving the Oakdale S.D. POTW effluent is limited by their small size, shallow depth, and poor accessibility. The watershed is agricultural and most of the channels have been modified, limiting the existing and potential biological community and aesthetic values. Any recreational use is expected to be incidental or accidental wading. Therefore, it is recommended that the receiving water of the Oakdale S.D. POTW be classified as partial body contact.

PL:dd

cc: Terry Moe
Duane Schuettpelz - WR/2

PLT284

TO:

Moe for your info
AB Bernhardt, West Central District

FROM:

Jim Schmidt, WQ Evaluation - Madison

SUBJECT - MESSAGE

Re: Oakdale Stream Classification - Allen Creek

Duane Schuettepelz and I agree that there is a discrepancy in the NR104 listing for Allen Creek at Oakdale. NR104 indicates it is a continuous, intermediate stream (to maintain surface water criteria for int. streams) while the stream classification report you referenced in your question listed Allen Creek as a fish and aquatic life stream. There is no indication in our file for Oakdale that Allen Creek should have any kind of variance on it. Apparently this must therefore be considered a typographical error that has escaped everyone's eyes until now, probably because the Oakdale discharge is only to a tributary of Allen Creek. As far as what can be done to remedy this particular situation, there's not really much I can suggest (or Duane) beyond filing your comments and holding them until the next time NR104 is revised to include all the new stream classifications that were done since the last time the code was updated, at that time we can revise this listing --- by eliminating NR104's mention of Allen Creek @ Oakdale. Since it shouldn't have a variance, it shouldn't be listed in that code. I don't think anything immediate needs to be done, because Allen Creek is not the (direct) receiving water, so it probably doesn't warrant the time now to go through any formal code revision. If any questions do come up (do we really want to know why you noticed this at all?), we all have the stream classification report to refer to as a guide, and it should be considered the "last word" on the subject even though NR104 is more readily available to anyone than the report (meaning the public, for instance). Therefore, about

REPLY

all I can say is thanks for noticing this and it will be corrected when the appropriate time comes.

SIGNED

Jim Schmidt

DATE

9/14/83

-jws

cc: MWW Permit file

I doubt any reply is necessary, unless you feel one is warranted.

(so I used the pink copy as MWW's cc)

OAKDALE SANITARY DISTRICT, MONROE COUNTY

WASTEWATER RECEIVING STREAM CLASSIFICATION

Receiving stream - Drainage area tributary to Allen Creek, Q_{7,10} at discharge site = 0.00 CFS.

Oakdale WWSP discharges to an effluent ditch. Flow in this ditch is south approximately 375 feet to an agricultural drainage ditch. The drainage ditch had been previously constructed and recently re-excavated to help regulate ground water for agricultural purposes. No flow was recorded here in summer (1976) but the normal course of flow is east about 0.5 mile where the ditch joins Allen Creek.



Discharge structure at head of Oakdale effluent ditch



Effluent ditch at point of discharge facing south. Drained agricultural land begins at opening between trees

RECOMMENDATIONS:

The channel receiving Oakdale WWSP discharge to a point 375 feet downstream shall be classified effluent ditch. From that point the drainage ditch extending to Allen Creek is classified noncontinuous, marginal use. Allen Creek is classified a continuous, fish and aquatic life stream.

EVALUATION DATE: September 9, 1976

PERSONNEL:

Terry A. Moe - Water Pollution Biologist - WCD
Harold Erickson - Environmental Engineer - WCD

