Region WK	County_	Clanc	Date_4/0	4/89 Classification	LAZ_
Water Body:	East	FORK Pop	de River	, wetland trib	
Discharger:		•			
If classified as	s Limited ng Use At	Forage Fish ( tainability An	LFF) or Limi alysis factors	ted Aquatic Life (LAI that apply:	L), check any
Natı	arally occu	rring pollutant o	concentrations	prevent the attainment o	of use
atta disc	inment of t harge of su	the use, unless t	hese conditions of effluent disc	conditions or water level s may be compensated fo harges without violating be met	r by the
and	nan caused cannot be ave in plac	remedied or wo	ources of pollut uld cause more	ion prevent the attainme environmental damage	ent of the use to correct than
of th	e use, and	it is not feasible	to restore the	modifications preclude t water body to its original result in the attainment	condition or
ot a p	proper sub	strate, cover, flo	w, depth, pools	res of the water body, su s, riffles, and the like, un ife protection uses	ich as the lack related to
Contr	ols more s d result in	tringent than th substantial and	ose required by widespread eco	y sections 301(b) and 30 pnomic and social impac	6 of the Act t
Chem Physic Habit	gical Data ( ical Data ( cal Data (fl at Descript escription,	(fish/invert) temp, D.O., etc. low, depth, etc.) tion	_ 101	v 170w?	
Comments:					
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and the second s				Other factor	
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9/14/89 - Paul Lalibert

# CORRESPONDENCE/MEMORANDUM

Qate:

September 14, 1989

File Ref:

3200

To:

Duane Schuettpelz - WR/2

From:

Paul LaLiberte

Subject:

Water Quality Standards Review for Curtiss POTW

The Village of Curtiss POTW discharges to a wetland tributary to the East Fork Popple River in Clark County. Since the last water quality standards review in 1985, the POTW has experienced substantial increases in influent flow and has increased the duration of discharges from their fill and draw operation. The increased flow came as a result of expansion at a contributing industry, Abbeland Processing. The POTW is completing facility planning to address effluent limit violations. The current flow (.021 mgd) is close to the new design flow (.029 mgd). Since the discharge rate is controlled by effluent pumps, it will remain the same while the duration of discharges could conceivably increase an additional 28 percent over what it is now.

In 1985, it was determined that there is no hydrologic connection between the POTW and the East Fork Popple River. A farm road just north of Hwy. 29 effectively blocks flow under low flow conditions. I talked with Fred Schindler, owner of the property, on 9/12/89. He has not noticed any changes in flow regime over the last few years. During normal, low flow conditions, there is little or no flow through the culverts in the farm road.

It is therefore recommended that the classification of the receiving water for the Curtiss POTW remain unchanged. Continued application of effluent limitations for a marginal (use class E) classification, NR 104.02(3)(b), Wisconsin Administrative Code, is recommended for the expanded discharge to .029 mgd. Since no effect on downstream water bodies is anticipated, no further evaluation to meet the provisions of NR 207, Wisconsin Administrative Code, should be needed.

c: M. Blodgett WR/PL025.sz

Review of the Classification of and Standards for a Drainage Area Tributary to East Fork Popple River, Clark County, Black River Basin (Curtiss Wastewater Stabilization Ponds) Evaluation Date: September 11, 1985 By Linda Talbot

A drainage area tributary to East Fork Popple River (Sec. 32, T29N, R1E) was evaluated and classified to determine if the wetland variance classification in NR 104, Wisconsin Administrative Code is correct. The Curtiss wastewater stabilization ponds discharge to the upper portion of a willow (Salix sp.)/alder (Alnus rugosa) wetland (SENW, Sec. 32, T29N, R1E) (Figure 1). The Wisconsin Wetlands Inventory classified most of the area as a scrub/shrub, broad-leaved deciduous, wet soil (S3K). The rest of the wetland area is classified as emergent/wet meadow, vegetation persistent year to year, wet soil (E1K); forested, broad-leaved deciduous, wet soil (T3K); emergent/wet meadow, vegetation persistent, standing water (E1H); and open water, unknown substrate, standing water (WØH) (Figure 2).

Field investigation of the review involved ground truthing by walking through the area. The entire wetland covers about 200 acres and has a watershed of about 600 acres. Approximately 60% of the watershed is cropland, 30% wooded and 10% open pasture.

Water appeared to be standing in the wetland. No flow was obvious until a number of small channels breached an old railroad grade about 500 feet southeast of the stabilization ponds. Waters south of the grade again diffused through the wetland for approximately 1/4 mile to a point 500 feet north of state highway 29. There an earthen farm road is largely a barrier to flow and has caused the formation of a large pond. An old culvert at the east end of the ponded area allows water passage during high water conditions. There is seepage through the rest of the road. Flow beyond the earthen farm road is an intermittent channel for approximately 1.5 miles based upon the adjacent landowner report, the previous stream classification (1975), and the USGS topographic map.

The earthen farm road also serves as a barrier to upstream/downstream fish movement. The adjacent landowner reported the presence of bullheads in the pond. Minnows were observed in the flowing water/riffles at the railroad grade. Filamentous iron bacteria were present along the railroad grade.

The wetland vegetation was predominantly willows ( $\underline{Salix}$  sp.), followed by alder ( $\underline{Alnus}$  rugosa) and lowland softwoods. Cattails ( $\underline{Typha}$ ), canary grass ( $\underline{Phalaris}$ ) and thick mats of duckweed ( $\underline{Lemna}$ ) covered the more open wet areas.

Due to the expanse of the wetland receiving the Curtiss WWSP effluent, the low total volume of the discharge, and the earthen farm road preventing water passage, the WWSP influence on the reach downstream from the farm road is judged to be negligible.

Linda Talbot - October 8, 1985

Recommendations:

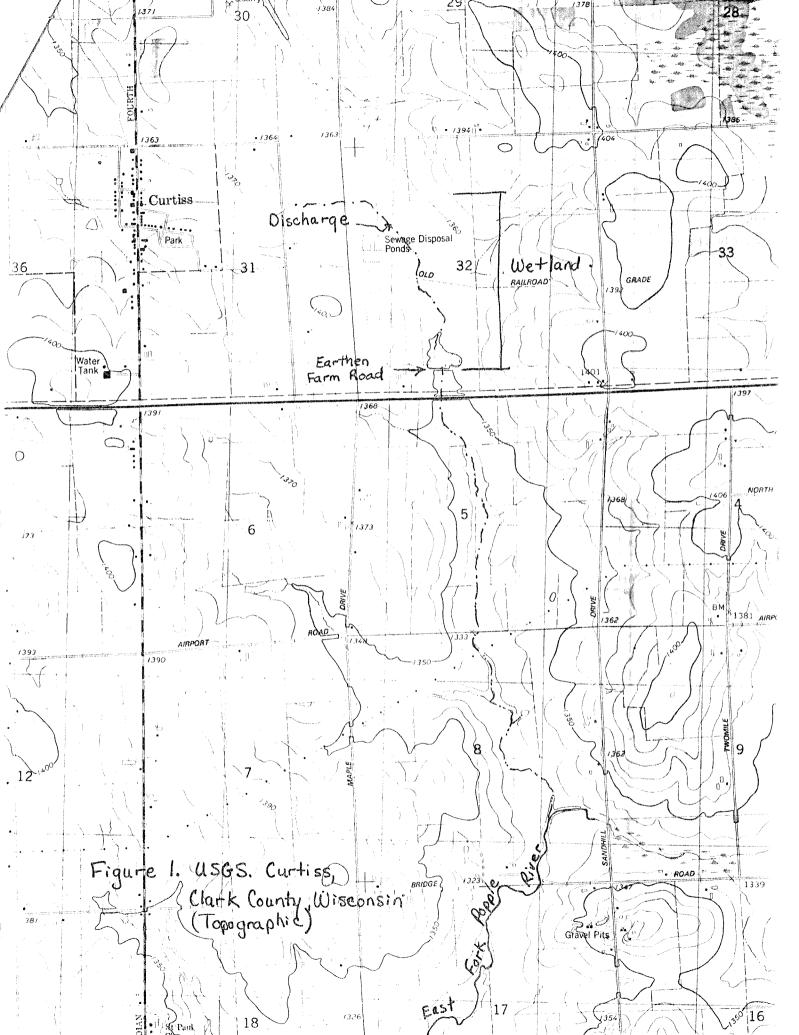
The classification of the drainage area tributary to the East Fork Popple River should remain as a wetland capable of supporting marginal aquatic life (use class E). Effluent limits should conform to NR 104.02 (3)(b), Wisconsin Administrative Code.

cc: Jon Bugenhagen

Duane Schuettpelz WRM-2

Darrell Solberg

2



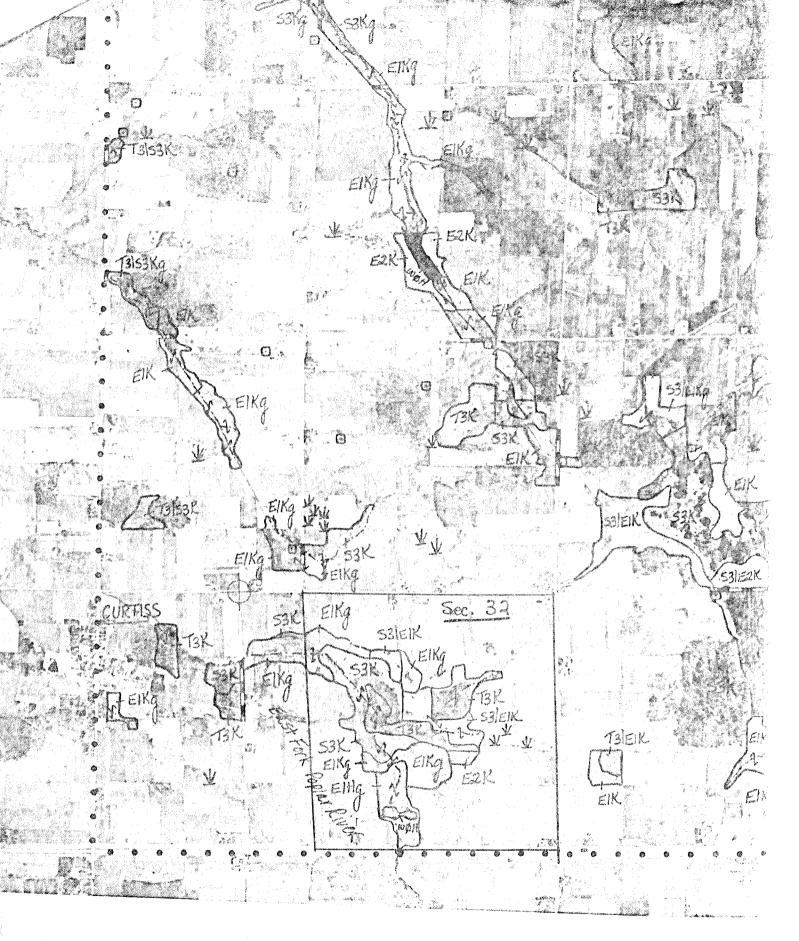


Figure 2. Wisconsin Wetlands Inventory

## CURTISS, CLARK COUNTY

# WASTEWATER RECEIVING STREAM CLASSIFICATION

Receiving stream - Drainage area tributary to East Fork Poplar River.

Discharge from the Curtiss WWSP will be to a tag alder swamp. Standing water is present in the swamp with no observable flow until a railroad grade crossing 300 feet to the south. Wetland continues to a point 500 feet north of STH 29. From this point to 500 feet south of STH 29 agricultural pastured hammocks exist.

## **RECOMMENDATIONS:**

The tag alder swamp receiving the Curtiss WWSP discharge shall be classified a wetland. The tributary 500 feet north and 500 feet south of STH 29 is noncontinuous, marginal surface water. Noncontinuous intermediate aquatic life shall be the classification for the next 1.5 miles into section 8, T28N, R1E.

EVALUATION DATE: November 4, 1975

RE-EVALUATION DATE: October 11, 1976

#### PERSONNEL:

Terry A. Moe - Water Pollution Biologist - WCD (11/4/75 and 10/11/76) Stuart Durkee - Environmental Engineer - WCD (11/4/75) Alan Lulloff - District Engineer - WCD (10/11/76)