

CORRESPONDENCE/MEMORANDUM

STATE OF WISCONSIN

Date: August 29, 1979

File Ref: 3207
(Mark Tusler)

To: Central Office

From: Dennis C. Weisensel



DNR

AUG 30 1979

Subject: Stream Classification for Tibbet Creek

The Classification Survey for Tibbet Creek was conducted on August 28, 1979. The survey was conducted in conjunction with the proposed discharge from the Little Suamico Sanitary District.

The entire reaches of Tibbet Creek are classified as Continuous - Fish and Aquatic Life.

The flow of Tibbet Creek on August 28, 1979, at CTH "S" was 39.89 C.F.S. Tibbet Creek is generally an intermitten stream with little or no flow during dry weather condition, but remains perpetually wet having standing pools of water. Three area residents were contacted during the survey. They all expressed the same conditions of the stream; it flows very little during dry weather but water remains in pool areas.

Milt Burdick, Area Fish Manager, was contacted prior to the survey. On May 19, 1964, he reviewed the creek in conjunction with a navigation question. His records provide that the stream becomes intermitten during the summer. Also, the stream is used for northern pike spawning runs and northern pike fry and fingerlings would remain in the creek some time after hatching.

Please inform Foth and Van Dyke Consulting Engineers of the appropriate limits.

A formal report on Tibbet Creek Classification Survey is forthcoming.

DCW:cjs

cc: Dave Hildreth

William Dobbins

Tibbet Creek - Stream Classification

By: Dennis C. Weisensel

Introduction

A stream classification survey was conducted on Tibbet Creek on August 28, 1979. Tibbet Creek is located North of Little Suamico. It flows in a southeasterly direction discharging to the Bay of Green Bay directly due east of Little Suamico. Tibbet Creek watershed is predominantly agriculture. A portion of the stream is buffered by wooded areas.

Tibbet Creek was surveyed at two locations. Station #1 was located at CTH "S". Station #2 was located at Lade Beach Road. Flow data was collected at both locations. Milt Burdick, Marinette Area Fish Manager was consulted concerning the fisheries in Tibbet Creek.

Results

Station #1 (CTH "S")

The flow at Station #1 was substantial. The flow was 39.89 C.F.S. Recent rains accounted for the large flows at the time of the survey. The stream in the area of Station #1 has a natural bank, bed and meandering. The substrate is rock, sand, and silt. The bed produces flat run areas with occasional pool-riffle situations. The surrounding land use is pastured agricultural lands, tilled lands and buffered wooded residential plots. The creek is approximately 8 feet wide and 2-2.5 feet deep. Macroinvertebrates present is a slight population of Asellus. Crayfish and foraging minnows were noted at Station #1. Sagittaria was noted growing along the stream bank.

Station #2 (Lade Beach Road)

The flow at Lade Beach Road was 19.28 C.F.S. The creek at this location has wooded banks and adjoining lands. Agricultural practices are present in the area but are disjointed from the creek banks. The creek contains deep run areas with widths of 11 feet and depths of 3 to 3.5 feet. Minimal pool riffle areas would be present during lower flows. The fauna adjacent to the creek was wooded, consisting of ash, maple, oak, birch and red osier dogwood.

Inquiries of local people revealed that Tibbet Creek exhibits perpetually wet conditions during low flow periods. Tibbet Creek has historical and archaeological significance. Indian campgrounds, mounds, and cemeteries are located along its banks. The mouth of the creek is essential in perch spawning and rearing habitat. Northern pike spawning runs occur up the river as well as other fish. Tibbet Creek contains essential avarial fauna and provides habitat for nesting and rearing of beneficial waterfowl. Tibbet Creek is aesthetically beneficial to the surrounding area.

Conclusion

Tibbet Creek exhibits perpetually wet year round conditions although it is known that during low flow times, flow is minimal or not at all. The mouth is an essential perch fishery habitat area. The stream is used for northern pike spawning habitat. The stream shall be classified as continuous-full fish and aquatic life classification.

DCW:sh
11/15/79

TIBBET CREEK

Station #1

Facing upstream



Facing downstream



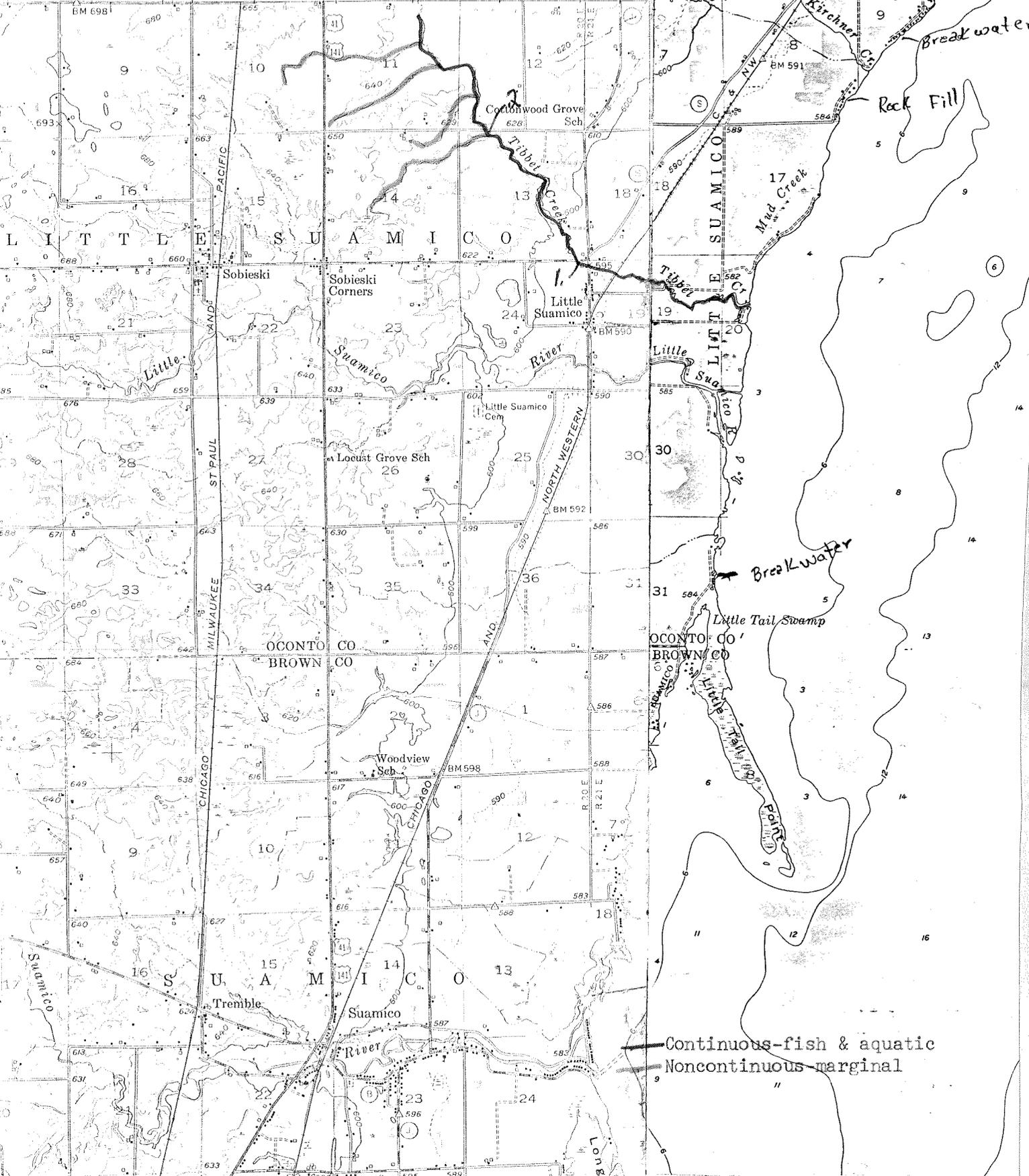
Station #2

Facing upstream



Facing downstream





— Continuous-fish & aquatic
- - - Noncontinuous marginal