

DATE: September 7, 2000

TO: Fenwood File

FROM: Mark Hazuga *Mark Hazuga*

SUBJECT: Justification for Removing Limited Forage Fish Classification

The Village of Fenwood discharges wastewater from a three pond lagoon system directly to Fenwood Creek in Marathon County. Fenwood Creek is listed as an addition to NR104 with a proposed classification of Limited Forage Fish (LFF). The LFF classification is proposed from the outfall of the WWTP in T28N R5E S7 SW SW to the confluence with Rocky Run Creek in T27N R4E S24 NWSE.

The facility currently operates as a Fill and Draw system and is permitted to discharge during the spring and fall with a maximum daily flow of 0.09 MGD. Based on the March 11, 1998 effluent limits document, the option to discharge continuously has been removed from the permit because the secondary limits they have for a fill and draw discharge are inappropriate for a continuous discharge.

While reviewing the file, data was found that suggests the proposed classification of LFF would not be appropriate for Fenwood Creek. Data collected in May 1976, found nine minnow species in the creek approximately 6.5 miles upstream of the WWTP outfall. Several of these species are not considered tolerant to low dissolved oxygen conditions described in the draft stream classification guidance. I visited the facility in July 2000 and observed the outfall where it discharges to the stream. The stream appeared to be impounded farther downstream resulting in a large pool where the outfall structure is located. At this location, the stream appears to have suitable habitat to support a higher classification than LFF.

Based on the above information and the fact that the WWTP operates as a fill and draw system with secondary limits, I am requesting the proposed LFF classification for Fenwood Creek should not be added to the list of variance streams listed in NR104. This will result in the default classification of Fish and Aquatic life to remain in effect.

Cc: Greg Searle  
Eric Donaldson  
Paul Laliberte  
Tom Jerow



## Fenwood - Marathon County

### Wastewater Receiving Stream Classification

The Village of Fenwood treats sewage waste with a lagoon system that discharges directly to Fenwood Creek. Fenwood Creek has a drainage area of 13.2 square miles and a Q<sub>7,10</sub> less than .01 cfs at CTH "P" according to the USGS. The Fenwood outfall is about 1/2 mile below CTH "P" in which distance Fenwood Creek picks up about five miles of drainage area. Below the outfall Fenwood Creek flows about five miles before it is joined by Rocky Run, and in this distance it picks up another 4.5 square miles of drainage area. It is thought that Fenwood Creek has noncontinuous flow for its entire length until it is joined by Rocky Run.

The Fenwood Creek watershed is mostly farmland with some woodland adjoining the stream and appears to be affected by agricultural nonpoint source runoff. A survey of the stream five miles above Fenwood found mayfly, caddisfly, crayfish, creek chub, common shiner, central mudminnow, stickleback, johnny darter, white sucker, fantail darter, blacknose dace and northern redbelly dace.

Recommendations: Fenwood Creek should have the noncontinuous hydrologic classification until it is joined by Rocky Run and should have the "not supporting a balanced aquatic community" water quality classification in this reach. Below this point, it should be continuous and "fish and aquatic life".

Survey Dates: 4/26/77, 5/26/77

Survey Crew: Tom Bashaw - District Engineer  
Bill Jaeger - Water Pollution Biologist

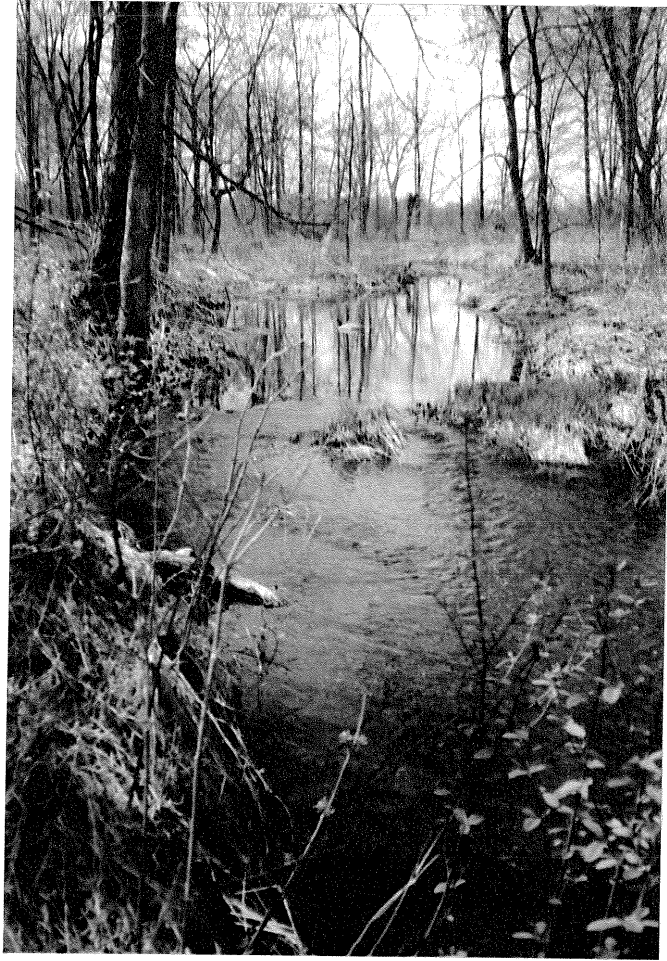
Report Prepared By: Bill Jaeger



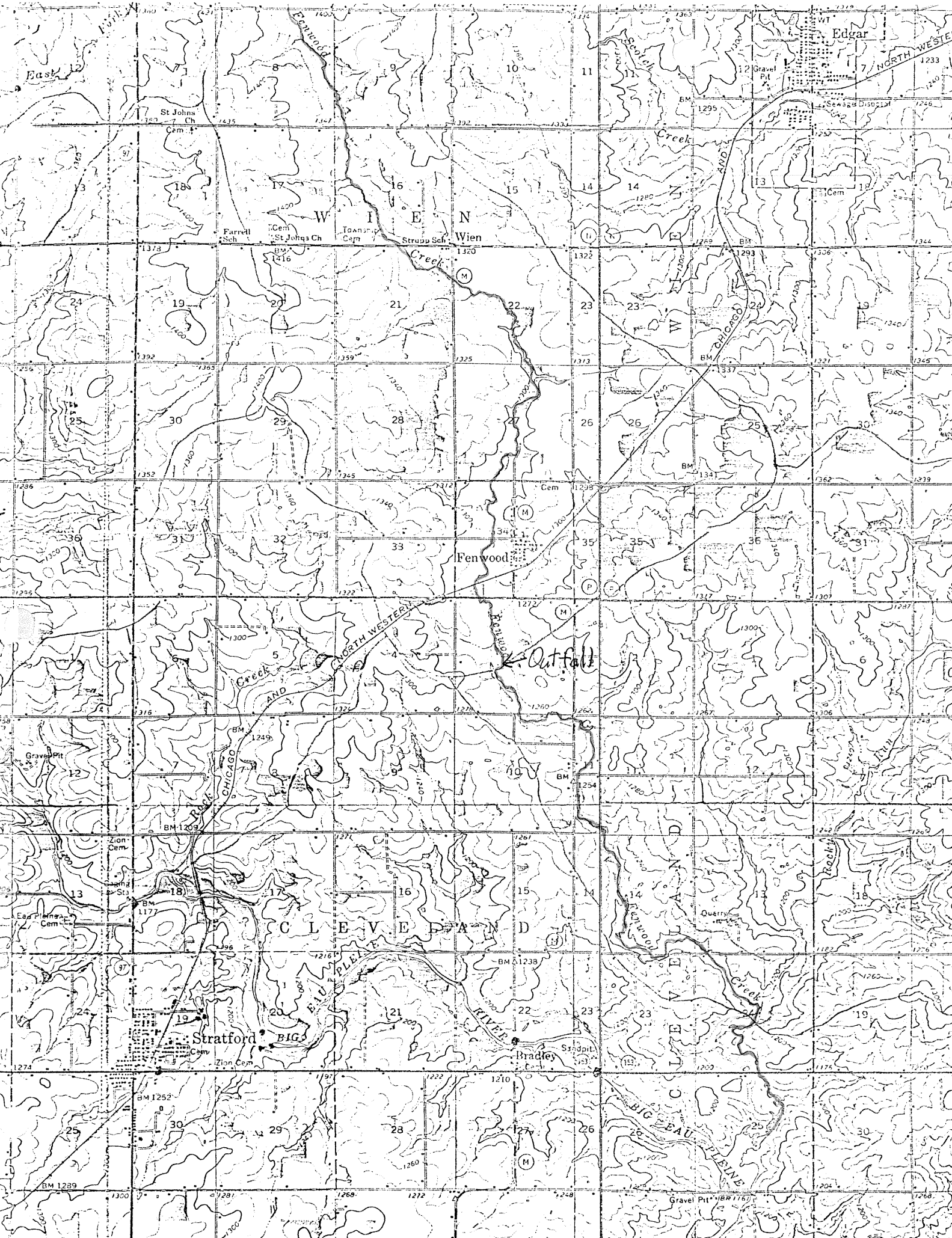
Fenwood Creek at CTH "P"



Fenwood Creek at discharge area.



Fenwood Creek at CTH "M"





Above the STP



Just below the STP.  
Outfall



~ 2 miles below STP.  
2nd Tw. Rd Bridge