

Permit No. MI0044423

FACT SHEET

PERMITTEE/FACILITY NAME: Ishpeming Area Joint Wastewater Authority Board / Ishpeming Area Wastewater Treatment Plant

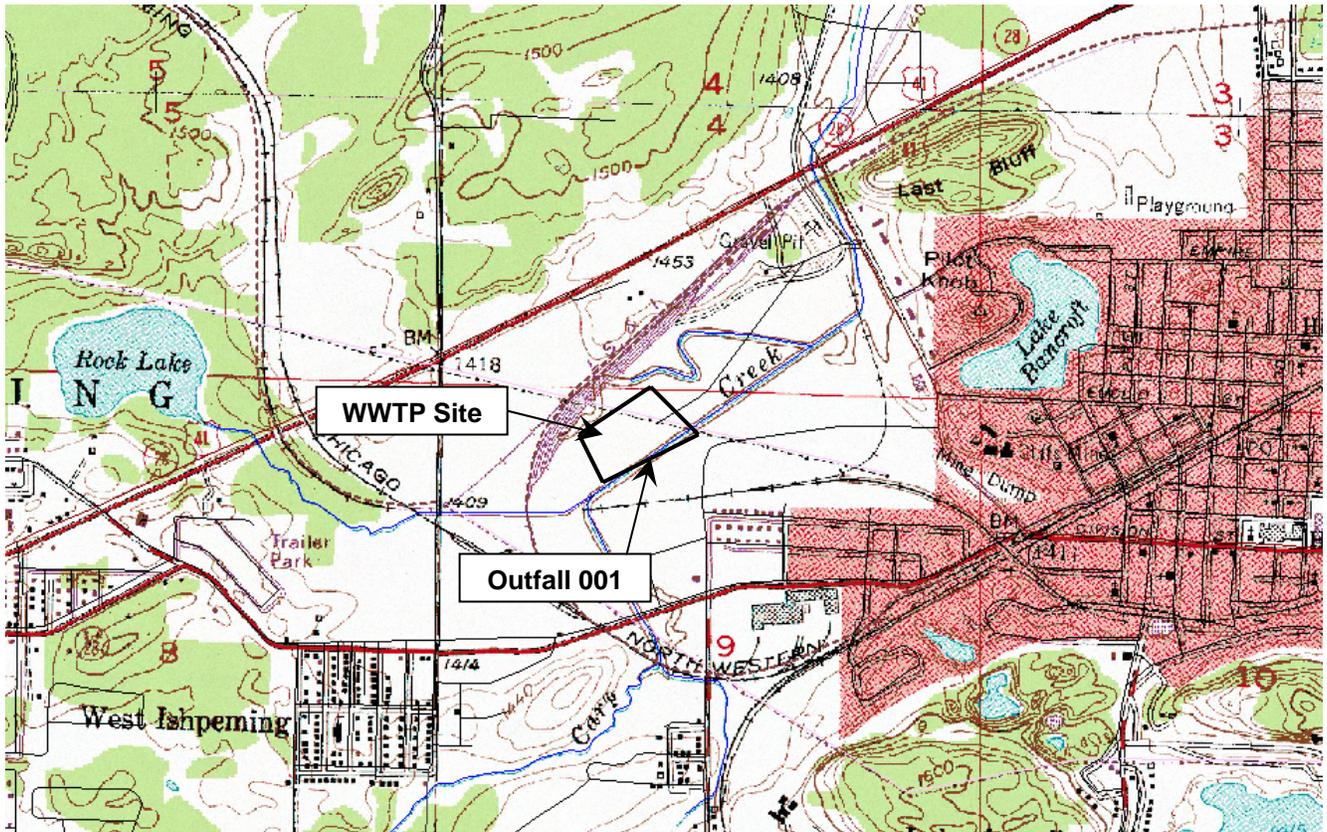
COUNTY: MARQUETTE

DESCRIPTION OF EXISTING WASTEWATER TREATMENT FACILITIES: The municipal wastewater receives preliminary treatment through an aerated grit chamber and bar screen. Then the flow is measured by a Parshall flume. Ferrous chloride is added for phosphorous removal at the grit chamber. Secondary biological treatment is provided by two oxidation ditches, which is followed by two secondary clarifiers. Polymer is added at the clarifiers to enhance settling of sludge. The secondary effluent is disinfected by the use of sodium hypochlorite and then dechlorinated using sodium bisulfite. The final effluent is discharged through Outfall 001 to Carp Creek. Sludge is sent to two dissolved air floatation units for thickening. The thickened sludge is sent to four digesters and is then dewatered by filter presses and disposed of at the Marquette County Landfill.

MAP OF DISCHARGE LOCATION:

Facility Location Coordinates:

NE1/4, NW1/4, Section 9, Town 47N, Range 27W
Ishpeming Township, **MARQUETTE COUNTY**



RECEIVING WATER:

Carp Creek is protected for agricultural uses, navigation, industrial water supply, public water supply in areas with designated public water supply intakes, cold-water fish, other indigenous aquatic life and

wildlife, partial body contact recreation, total body contact recreation (May through October), and fish consumption.

The receiving stream flows used to develop effluent limitations are a 95 percent exceedance flow of 5.5 cfs, a harmonic mean flow of 14 cfs, and a 90-day, 10-year low flow of 7.5 cfs.

MIXING ZONE:

For toxic pollutants, the volume of Carp Creek used in assuring that effluent limitations are sufficiently stringent to meet Water Quality Standards is 25 percent of the applicable design flows of the receiving stream.

For other pollutants, the volume of Carp Creek used in assuring that effluent limitations are sufficiently stringent to meet Water Quality Standards is the applicable design flows of the receiving stream.

EXISTING EFFLUENT QUALITY: (from DMR data from May 2006 to May 2007)

<u>Parameter</u>	<u>Minimum Daily</u>	<u>Maximum Monthly</u>	<u>Maximum 7-day</u>	<u>Maximum Daily</u>	<u>Units</u>
Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	4.0	---	---	5.0	mg/l
Total Suspended Solids (TSS)	---	6.0	---	9.0	mg/l
Ammonia Nitrogen	---	0.09	---	0.22	mg/l
Total Phosphorous	---	0.74	---	---	mg/l
Fecal Coliform Bacteria	---	53	176	---	cts/100 ml
Total Residual Chlorine	---	---	---	0.01	mg/l
Acute Toxicity	---	---	---	0	TU _A
Chronic Toxicity	---	6.7	---	---	TU _C
Total Copper	---	---	---	25	µg/l
Total Mercury	---	2.68	---	---	ng/l
pH	7.0	---	---	7.6	S.U.
Dissolved Oxygen	7.2	---	---	---	mg/l
CBOD ₅ Min. % Removal	96	---	---	---	%
TSS Min. % Removal	96	---	---	---	%

PROPOSED EFFLUENT LIMITATIONS: (see draft permit)

BASIS FOR PROPOSED EFFLUENT LIMITATIONS:

Based on this facility's application for an NPDES discharge permit, the Michigan Department of Environmental Quality proposes to issue the applicant a permit to discharge, subject to effluent limitations and certain other conditions within the permit. Effluent limitations and/or monitoring requirements for Carbonaceous Biochemical Oxygen Demand (July – September), Ammonia Nitrogen, Total Phosphorous, Total Residual Chlorine, Whole Effluent Toxicity, Total Copper, and Dissolved Oxygen are water quality-based effluent limits. Fecal Coliform Bacteria and pH are based on water quality standards. Total Suspended Solids and Carbonaceous Biochemical Oxygen Demand (October – June) are based on federal secondary treatment standards. Flow is based on the permit writer's judgment. Total Mercury is based on a multiple discharger variance from the water

quality-based effluent limit of 1.3 ng/l, pursuant to Rule 323.1103(9) of the Michigan Water Quality Standards.

REGISTER OF INTERESTED PERSONS

Any person interested in a particular application, or group of applications, may leave his/her name, address, and telephone number as part of the file for an application. The list of names will be maintained as a means for persons with an interest in an application to contact others with similar interests.

PUBLIC COMMENT

Comments or objections to the draft permit received between October 4, 2007, and November 5, 2007, will be considered in the final decision to issue the permit.

If submitted comments indicate significant public interest in the application or if useful information may be produced, the Michigan Department of Environmental Quality, at its discretion, may hold a public hearing on the application. Any person may request the Michigan Department of Environmental Quality to hold a public hearing on the application. The request should include specific reasons for the request, indicating which portions of the application or draft permit constitutes the need for a hearing.

Public notice of a hearing will be provided at least thirty (30) days in advance. The hearing will normally be held in the vicinity of the discharge. The Michigan Department of Environmental Quality will consider comments made at the hearing when making its final determinations on the permit. Further information regarding the draft permit, and procedures for commenting or requesting a public hearing may be obtained by contacting Stephanie Swart, Permits Section, Water Bureau, Department of Environmental Quality, P.O. Box 30273, Lansing, Michigan 48909, telephone: 517-335-6721; e-mail: swartsl@michigan.gov.