

FACT SHEET

PERMITTEE/FACILITY NAME: City of Marlette / Marlette Wastewater Treatment Plant

COUNTY: SANILAC

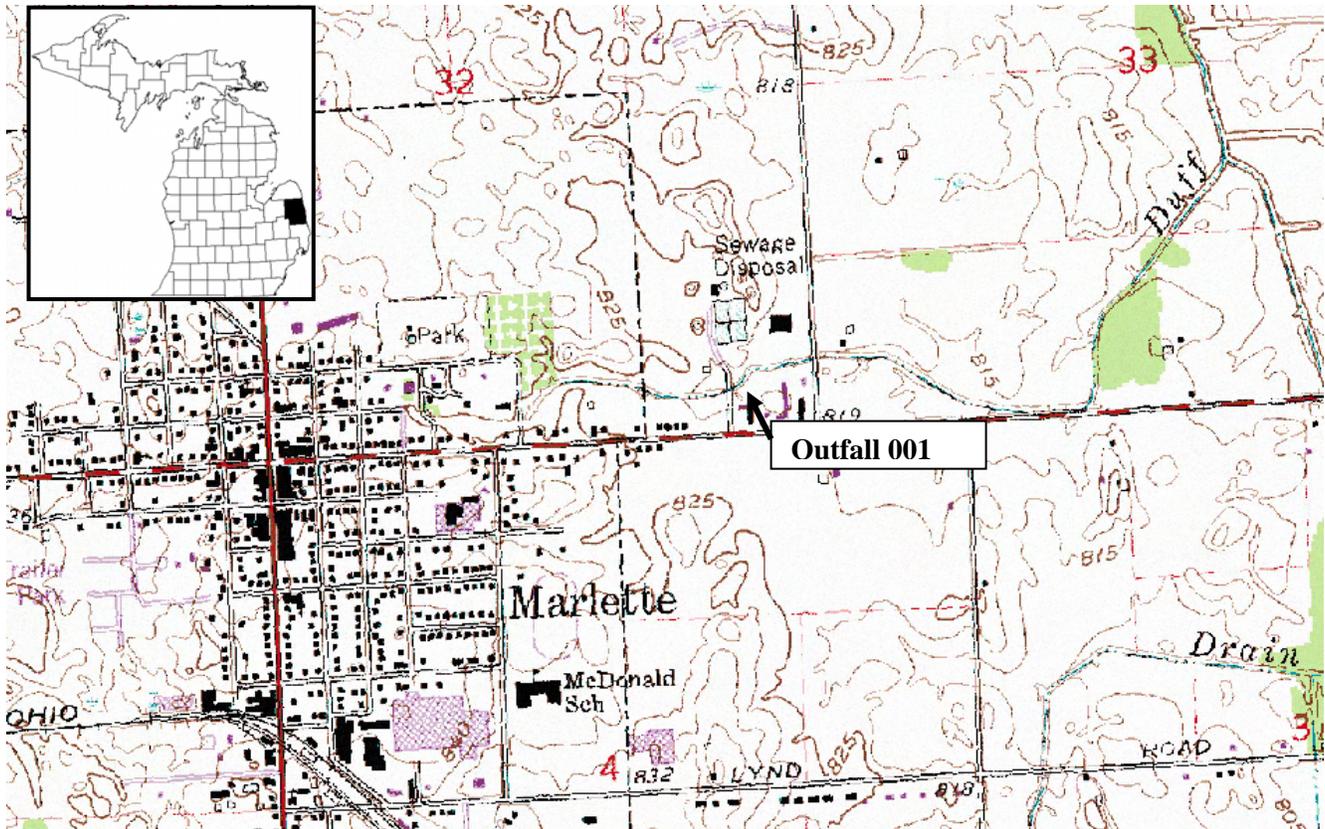
DESCRIPTION OF EXISTING AND PROPOSED WASTEWATER TREATMENT FACILITIES:

The current treatment system includes screening and grit removal, primary sedimentation, secondary treatment provided by sequencing batch reactors (SBRs) followed by rapid sand filtration, ultra-violet (UV) disinfection, and aeration. Waste sludge is anaerobically digested and land applied at agronomic rates.

Currently under construction are new facilities and equipment, modifications to existing structures and demolition of older structures. The new facilities and equipment include a 3.3 million gallon, lined, wet-weather storage and /or equalization basin, a raw sewage pump station, screening equipment, a grit removal system, and all necessary earthwork, foundations, superstructure, and piping. Modifications include the conversion of old primary settling tanks to aerobic digesters and repairs to the sludge holding beds. Upgrades include improvements to the SBR recycle control piping, new UV equipment, and a shelter built over the old UV structure.

MAP OF DISCHARGE LOCATION:

Facility Location Coordinates:
SE1/4, SE1/4, Section 32, Town 11N, Range 12E
Marlette.) Township, **SANILAC COUNTY**



RECEIVING WATER:

Duff Creek is protected for agricultural uses, navigation, industrial water supply, public water supply in areas with designated public water supply intakes, warm-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 0 cfs, a harmonic mean flow of 0.3 cfs, and a 90-day, 10-year low flow of 0.1 cfs.

MIXING ZONE:

For toxic pollutants, the volume of Duff 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 Duff 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/PROPOSED EFFLUENT QUALITY: (from completed application dated April 5, 2007)

<u>Parameter</u>	<u>Minimum Monthly</u>	<u>Maximum Monthly</u>	<u>Maximum Daily</u>	<u>Units</u>
CBOD ₅	---	6.6	11	mg/l
Ammonia Nitrogen	---	6.3	12.4	mg/l
Total Phosphorus	---	0.81	1.85	mg/l
pH	6.89	---	8.23	S.U.
Dissolved Oxygen	7.0	---	---	mg/l
Total Suspended Solids	---	19.5	76	mg/l
Fecal Coliform Bacteria	---	273	---	cts/100 ml
		<u>Minimum Monthly</u>		
Total Suspended Solids (% removal)		44.7	---	%

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 CBOD₅, Ammonia Nitrogen, Total Phosphorus, Fecal Coliform Bacteria, pH, and Dissolved Oxygen are based on water quality. The final effluent limitation for Total Mercury of 10 ng/l is the Level Currently Achievable 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. Effluent limitations for Total Suspended Solids and

minimum removal requirement for Total Suspended Solids are based on treatment technology. Flow monitoring is based on the permit writer's judgment.

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 September 20, 2007, and October 22, 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 Karen Lauterbach, Permits Section, Water Bureau, Department of Environmental Quality, P.O. Box 30273, Lansing, Michigan 48909, telephone: 517-373-1326; e-mail: lauterbk@michigan.gov.