

Permit No. MI0023680

FACT SHEET

PERMITTEE/FACILITY NAME: City of New Baltimore / City of New Baltimore Wastewater Treatment Plant

COUNTY: MACOMB

DESCRIPTION OF EXISTING WASTEWATER TREATMENT FACILITIES

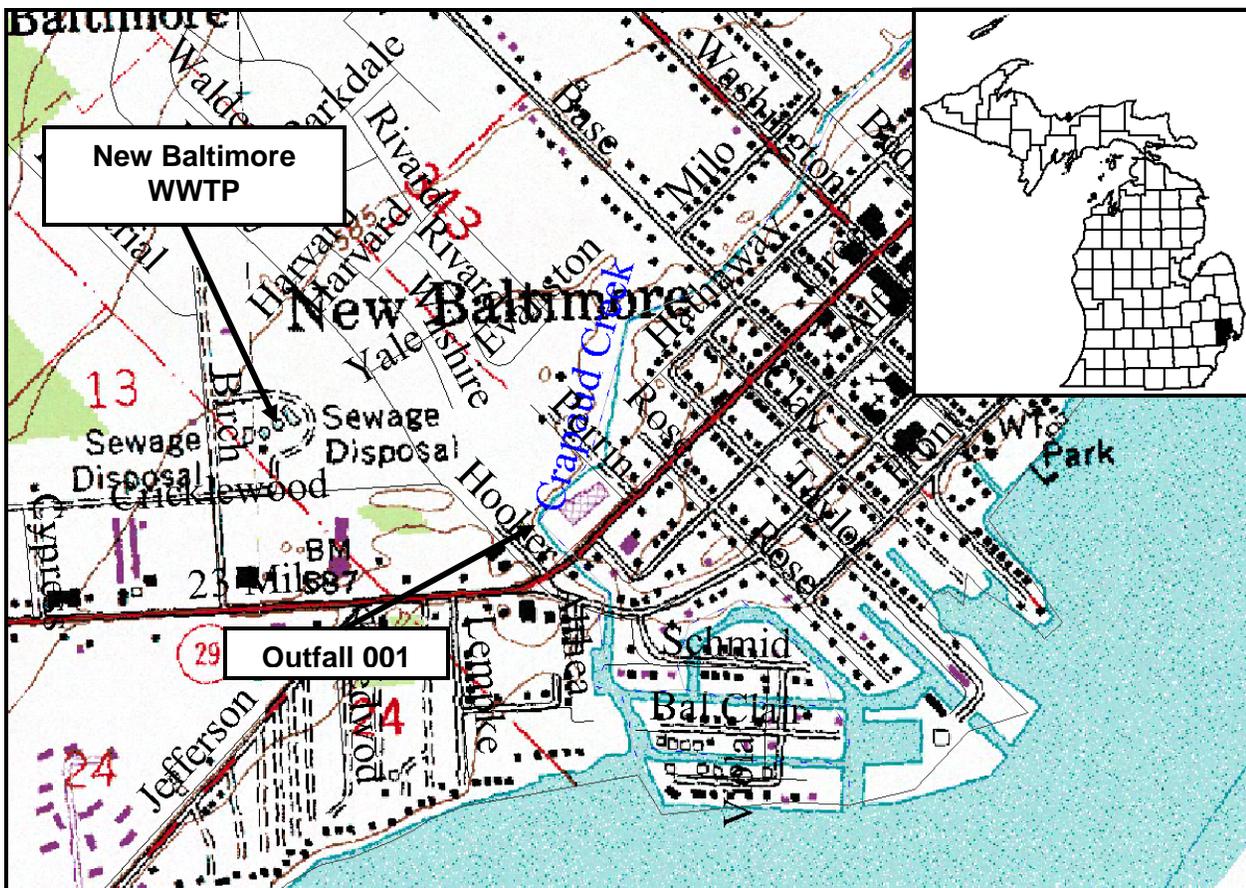
Wastewater enters the facility through a gravity sewer and force main where it is combined and passed through fine screens. After screening, wastewater is pumped to the treatment plant or the equalization system. Wastewater then flows through grit removal processes, including a vortex grit tank and classifier. The wastewater is combined with return activated sludge prior to entering the oxidation ditches. Upon exiting the oxidation ditches, ferric chloride is added for phosphorus removal. Flow is divided among the two final clarifiers and then recombined prior to ultraviolet disinfection. After disinfection, the treated effluent enters Crapaud Creek.

MAP OF DISCHARGE LOCATION

Facility Public Land Survey System Coordinates:

Private Land Claim 343, T3N, R14E

Chesterfield Township, **MACOMB COUNTY**



RECEIVING WATER

Crapaud 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 0.0 cfs, a harmonic mean flow of 0.2 cfs, and a 90-day, 10-year low flow of 0.1 cfs.

MIXING ZONE

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

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

EXISTING EFFLUENT QUALITY: (from DMR data from October 2009 to September 2014)

<u>Parameter</u>	<u>Minimum</u> <u>Daily</u>	<u>Maximum</u> <u>Monthly</u>	<u>Maximum</u> <u>7-day</u>	<u>Maximum</u> <u>Daily</u>	<u>Units</u>
Ammonia Nitrogen (as N)	---	29.8	---	23.9	mg/l
Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	---	17.1	---	44.7	mg/l
Dissolved Oxygen	3.2	---	---	---	mg/l
Fecal Coliform	---	87	431	---	cts/100 ml
pH	6.5	---	---	9	S.U.
Total Copper	---	13	---	---	µg/l
Total Mercury	---	6.92	---	---	ng/l
Total Phosphorus	---	1.16	---	---	mg/l
Total Suspended Solids	---	16	---	64	mg/l

PROPOSED EFFLUENT LIMITATIONS: (see draft permit)

BASIS FOR PROPOSED EFFLUENT LIMITATIONS: Based on this facility's application for an National Pollutant Discharge Elimination System (NPDES) discharge permit, the Department of Environmental Quality (Department) proposes to issue the applicant a permit to discharge, subject to effluent limitations and certain other conditions within the permit. Effluent limitations for Carbonaceous Biochemical Oxygen Demand (May-November), Total Suspended Solids (May-November), and Ammonia Nitrogen (May-November) are based on advanced waste treatment standards. Effluent limitations for Total Suspended Solids (December-April) are based on antibacksliding and best professional judgment. Monitoring requirements for Flow and the seasonal average limitations for Total Phosphorus are based on the permit writer's judgment. Effluent limitations for Carbonaceous Biochemical Oxygen Demand (December-April), Ammonia Nitrogen (December-March, April), Dissolved Oxygen, Available Cyanide, and Total Phosphorus are water quality based. Effluent limitations for pH and Fecal Coliform Bacteria are based on water quality standards. The effluent limitation for Total Mercury is a Discharge-Specific 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. Monitoring requirements for Total Copper are based on water quality concerns.

ADDITIONAL INFORMATION

This permit requires the permittee to prepare an Asset Management Program, and implement the program upon Department approval. Annual Reports summarizing program activity are also required to be submitted. The requirements of an Asset Management Program contain goals of effective performance, adequate funding, and adequate operator staffing and training. Asset management is a planning process that ensures gaining optimum value for each asset and providing the financial resources to rehabilitate and replace them when necessary; and typically includes five core elements which identify: the current state of the asset, the desired level of service (e.g., per the permit, or for the customer), the most critical asset(s) to sustain performance, the best life cycle cost, and the long term funding strategy to sustain service and performance.

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 May 27, 2015, and June 26, 2015, 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 Department, at its discretion, may hold a public hearing on the application. Any person may request the Department 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 constitute 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 Department 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 Jessica Stiles, Permits Section, Water Resources Division, Department of Environmental Quality, P.O. Box 30458, Lansing, Michigan 48909, telephone: 517-284-5590, e-mail: stilesj1@michigan.gov.