

Permit No. MI0023680

FACT SHEET

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

COUNTY: Macomb

DESCRIPTION OF EXISTING WASTEWATER TREATMENT FACILITIES

Wastewater influent enters the facility through a gravity sewer and force main where it is combined in the influent surge well and passed through fine screens. After screening, wastewater is either pumped to the remaining treatment system or to the equalization system until it can be returned for treatment.

Wastewater then flows through grit removal processes, including a vortex grit tank and classifier. The wastewater is then combined with return activated sludge prior to entering the oxidation ditches. Upon exiting the oxidation ditches, ferric chloride is added for phosphorus removal and the flow is divided among the two final clarifiers and then recombined prior to ultraviolet disinfection. After disinfection, the treated effluent is discharged to Crapaud Creek. Sludge collected from the final clarifiers is stored and seasonally land applied.

MAP OF DISCHARGE LOCATION

Facility Coordinates

Latitude 42.6783

Longitude -82.7497



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 to ensure 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 to ensure 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 December 1, 2014 to November 30, 2019)

Parameter	Minimum Daily	Maximum Monthly	Maximum 7-Day	Maximum Daily	Units
Flow	---	2.644	---	3.413	MGD
Carbonaceous Biochemical Oxygen Demand (CBOD ₅)					
May – November	---	3.9	---	6.8	mg/l
December – April	---	6.6	---	10.8	mg/l
Total Suspended Solids (TSS)					
May – November	---	10.8	24.5	---	mg/l
December – April	---	10.9	16	---	mg/l
Ammonia Nitrogen (as N)					
May – November	---	0.5	---	3.12	mg/l
December – March	---	---	---	3.5	mg/l
April	---	---	---	0.85	mg/l
Total Phosphorus (as P)	---	0.77	---	---	mg/l
		Seasonal Average			
May – September	---	0.622	---	---	mg/l
		Maximum Monthly			
Fecal Coliform Bacteria	---	73.3	351.2	---	cts/100 ml
Total Copper	---	20	---	---	ug/l
Available Cyanide	---	5.1	---	---	ug/l
		12-Month Rolling Avg			
Total Mercury	---	2.32	---	---	ng/l
pH	6.5	---	---	8	S.U.
Dissolved Oxygen					
December – March	5.9	---	---	---	mg/l
April – November	6	---	---	---	mg/l

PROPOSED EFFLUENT LIMITATIONS: (see draft permit)

BASIS FOR PROPOSED EFFLUENT LIMITATIONS: (see Basis for Decision Memo)

REGISTER OF INTERESTED PERSONS

Any person interested in receiving notification by e-mail of National Pollutant Discharge Elimination System (NPDES) permitting actions may register with the Permits Section of the Department of Environment, Great Lakes, and Energy (Department). To register, e-mail the contact identified below with your full name and the request that you be added to the Department's Public Notice Notification List. Once you are added to the list, you will receive an e-mail notification for every NPDES permitting action in the state unless/until you ask to be removed from the list.

PUBLIC COMMENT

Persons wishing to submit comments or request a public hearing should go to <https://miwaters.deq.state.mi.us>, select 'Public Notice Search,' search for this public notice by entering the permit number or site name into the search field, click 'Search,' click 'View,' click 'Add Comment,' enter information into the fields, and then click 'Submit.' Comments or objections to the draft permit received between March 11, 2020, and April 10, 2020, will be considered in the final decision to issue the permit.

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. 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.

If a public hearing is scheduled, public notice of the hearing will be provided at least 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. Inquiries should be directed to Tom Braum, Permits Section, Water Resources Division, Department of Environment, Great Lakes, and Energy, P.O. Box 30458, Lansing, Michigan 48909-7958; telephone: 517-284-5585; or e-mail: BraumT2@michigan.gov.