

CITY OF PINCONNING WASTEWATER TREATMENT PLANT OPERATING PLAN FOR ACCEPTING DOMESTIC SEPTAGE

In accordance with the State of Michigan House Bill 5771 and 5772 amend part 117, Septage Waste Servicers, of the Natural Resources and Environmental Protection Act, 1994 PA 451, the Pinconning WWTP will be defined as a receiving facility for domestic septage. The following are conditions and information for accepting domestic septage by licensed septage haulers.

LOCATION

The City of Pinconning's WWTP is located at 407 E. Second St., Pinconning, MI 48650. Our septage receiving point is the manhole next to the driveway just inside the gate.

HOURS OF RECEIVING SEPTAGE

The Wastewater Treatment Plant accepts septage from 7:30 A.M.-3:30P.M. Monday through Friday. No septage will be received on weekends or holidays. No septage will be accepted Monday thru Friday between the hours 12:00P.M. and 1:00P.M. The City reserves the right to deny access at times of wet weather or other unforeseeable circumstances.

ORIGIN OF WASTE

The City of Pinconning's treatment plant was constructed and is operated and maintained as a service to City of Pinconning residents. The City of Pinconning has accepted septage as a courtesy to our neighbors and to better insure the environmentally sound disposal of residential septic tank waste generated in Northern Bay County and Southern Arenac County.

The City of Pinconning's WWTP facility only accepts domestic septage such as from home septic tanks, recreational vehicles, portable toilets and type 111 marine sanitation devices. All other types of septage are not allowed (such as food establishment septage, grease traps, etc.) Disposing of these types of waste will be cause for not accepting any more waste from that hauler.

DUTIES AND RESPONSIBILITIES

The waste hauler is responsible for maintaining his equipment such as hoses, etc. so no leaks or spills of waste will occur on WWTP property. The waste will be received at the manhole directly inside the fence next to the driveway. The waste hauler will write on our septage receiving sheet the gallons of septage being dumped and also the addresses of

where the septage came from, and initial the receiving sheet. City personnel shall visually check every load and take a sample for P.H. analysis, and initial the receiving sheet. The City shall have the right to deny any load that seems not to meet the requirements set forth in this operating plan. The City's WWTP treats the septage very well, however some odors occur until the septage enters the oxidation ditches. The WWTP has placed deodorant blocks near the screw pumps and the grit works to help with the odors and personnel hose down the screw pumps when needed to wash away any septage that may be coating the pumps.

SERVICE AREA

At the present time the service area for receiving septage is Northern Bay County and Southern Arenac county that falls into the 15 mile radius from the treatment plant, however this area could expand in the future if the treatment plant can handle more septage. Before this septage plan was required the City has been and still is receiving septage from one hauler from Iosco County that is 40 miles away. Refer to the attached Septage Receiving Service Area map (figure 1).

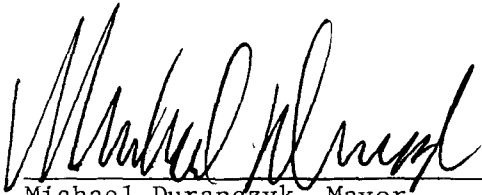
The City's W.W.T.P. which is considered the R.F. is a Oxidation ditch type of the activated sludge process. The plant is designed for .5 MGD with a peak capacity of 1.2 MGD. The process include screening, grit collection, 2 oxidation ditches, 2 secondary clarifiers and 1 tertiary clarifier. Disinfection is done with ultraviolet light. Once the solids from plant operations are properly digested the biosolids are land applied to area farm fields. See figure 2 for organic loading information.

There is no county ordinance that defines what we can or can not accept, only the City's sewer ordinance has to be followed which it is.

FEE STRUCTURE


All septage haulers shall pay a minimum fee and any added costs established by City staff that reflects the cost of providing adequate treatment, stabilization and ultimate disposal of those "high strength wastes" received at the City of Pinconning's WWTP. Current fees are \$25.00 per 1000 gal., and limited to 8000 gallons per day. These fees are an average of charges from other R.F.s. The City must give a 30 day notice to septage haulers prior to any fee revisions.

This Plan Effective 08/21/2006.



Michael Duranczyk, Mayor

8-24-06
Date



Terri Hribek, Clerk

8-24-06
Date

FIGURE 2

Influent and Septage Organic Loading Summary

Septage Characteristics:

Daily Flow:

Daily Maximum Allowable :	8,000	gallons per day (gpd)
Current Daily Avg. (August 2005)	2,000	gpd

Septage Mass Loading:

<u>Parameters</u>	<u>mg/l</u>	<u>Daily Max. lbs/day</u>	<u>Daily Avg. lbs/day</u>	<u>Theoretical Max. Oxygen Demand lbs/day</u>
BOD ₅	7,000	467	117	514
NH ₃ -N	100	7	2	31
			<u>Total</u>	<u>544</u>

Combined Wastewater Influent/Septage Loading:

Current (See Note):

Avg. Influent Flow	0.31	MGD	
Avg. BOD ₅	250	mg/L	
Avg. BOD ₅ Loading	646	lbs/d/BOD ₅	

Design:

Avg. Influent Flow	0.5	MGD	
Avg. BOD ₅	360	mg/L	
Avg. BOD ₅ Loading	1,503	lbs/d/BOD ₅	

Organic Loading Capacity (Oxidation Ditches):

Aeration organic Loading, BOD ₅	15	lbs/d/1000 cf
Oxidation Ditch Size	0.375	MG 50,100 cf
# Of Units	2	
Daily Organic Capacity	752	lbs/d/BOD ₅ , per unit

Total Daily Organic Loading Capacity 1,503 lbs/d/BOD₅

% of Organic Oxy. Demand Loading for Septage (Max.)	36%
% of Organic Oxy. Demand Loading for Septage (Avg.)	9%

Note:

Current influent wastewater flow and BOD₅ concentration daily averages based on monthly operating report data from April 2005 through June 2005

TABLE 1

**Septage Receiving Volume Summary
April through June 2005**

	<u>Total (gals)</u>	<u>Dally Avg.(gpd)</u>	<u>Peak Day (gpd)</u>
April-05	45,900	2,186	7,500
May-05	35,280	1,604	5,290
June-05	47,150	2,050	6,400
TOTAL	128,330	1,946	