

LIVINGSTON COUNTY
SEPTAGE RECEIVING FACILITY
OPERATING PLAN

I. Authority.

This Operating Plan for the Livingston County Septage Receiving Facility (“the Facility”) is established pursuant to Act 381 PA of 2004 and Part 117 of 1994 PA 451, as amended, being MCL 324.11701 *et seq.*, and the rules promulgated thereunder by the Michigan Department of Environmental Quality.

II. Definitions

- (a) “Domestic septage” means liquid or solid material removed from a septic tank, cesspool, portable toilet, type III marine sanitation device, or similar storage or treatment works that receives only domestic sewage. Domestic septage does not include liquid or solid material removed from a septic tank, cesspool, or similar facility that receives either commercial wastewater or industrial wastewater and does not include grease removed from a grease interceptor, grease trap, or other appurtenance used to retain grease or other fatty substances contained in restaurant waste.
- (b) “Septage Receiving Facility procedures manual” means specific criteria established by Livingston County detailing procedures for such items as; registration and bonding requirements of licensed septage haulers, sampling requirements, billing procedures, capacity priority, and general operation and maintenance for the Livingston County Receiving Facility.
- (c) “Operating plan” means a plan developed in accordance with PA 381 of 2004 by Livingston County for receiving septage waste that specifies the location; categories of septage waste that will be received; capacity; the service area; and hours of operation.

II. Purpose

This Operating Plan sets forth the rules for the operation of the Facility, owned by Livingston County, for the purpose of receiving septage waste from licensed septage waste haulers that are registered and bonded with the Livingston County Septage Receiving Facility.

III. Location

The Facility is located at 4682 Runyan Lake Road, approximately 1400 feet south of Clyde Road, in Hartland Township, Livingston County, Michigan, on the site of and integrated with the Clyde Road Lift Station.

IV. Service Area.

The Facility shall receive and dispose of septage waste generated in:

1. Livingston County; and
2. The Facility will receive septage waste generated outside the service area, provided that adequate capacity is available to collect septage wastes generated within the County. Septage waste generated within Livingston County shall have first priority for capacity should peak demand exceed system capacity.

V. Categories of Septage Waste.

The Facility will receive categories of septage waste which include domestic septage and non-processed commercial wastewater with wastewater characteristics that are similar to domestic septage.

VI. Capacity.

Hydraulic Capacity

The Facility has an initial design hydraulic capacity of 67,000 gallons per day, translating into a potential yearly volume of 24,455,000 gallons. The septage will be transported via pump stations and transmission lines to the Genesee County District 3 Waste Water Treatment Plant for final treatment and disposal in accordance with the Districts NPDES permit.

Based on initial design parameters, the approximate daily average and peak daily flows in gallons per day of septage received at the Facility are 40,000 gpd and 67,000 gpd respectively.

Nutrient/Organic Capacity

The Livingston County Septage Receiving Station does not treat the waste beyond basic screening and limited aeration. The Facility is a collection and transport node to the Genesee County District 3 Wastewater Plant, which ultimately treats the septage waste. The District 3 Plant is governed by its current NPDES discharge permit, which defines the allowable loading rates. Projected loadings from the septage Facility

are included in the current District 3 NPDES permit.

VII. Facility Features

Receiving: Deliveries are received at a heated, enclosed facility, using a drive-thru pattern in 1 of 2 truck bays. Access to the facility is made by use of a pre-paid proximity card. A hauler simply presents a proximity card within 8 ft of one of the sensor pedestals outside the bay door to activate the door. Once inside, the hauler connects the delivery truck to the station via the use of cam-lock couplings.

Discharge: Waste is directed through a rock trap, and then a bar-screen type screening unit. Screenings are pressed in the screening unit and automatically bagged before being discharged to a dumpster. Waste flows are monitored with an in-line meter and automatically deducted from the Hauler's account upon completion of the dumping event. Following the log-out procedure using the system touch pad, 2 labels are automatically printed in the central process room. Labels are applied to the sample bottle required from each load, as well as to the manifest form to be submitted by the hauler. In addition, a 2-part receipt is printed for the hauler indicating the hauler's name, truck number, date, time, volume discharged, pH, and volume remaining on hauler's account.

Treatment: Waste passing through the screening unit is directed below into one of two aerated 30,000 gallon underground septage tanks. Grit is contained in a sump at one end of the tank, down slope from the discharge line. Two rotary lobe pumps transfer (40-50 gpm) the septage to the adjoining lift station wet well for transmission north to the Genesee County District 3 Wastewater Plant.

VIII Hours of Operation.

The hours of operation for the Facility are limited to 7:00 a.m. to 7:00 p.m. on Monday through Friday, and from 7:00 a.m. to 2:00 p.m. on Saturday, except in cases of emergency.

IX. Septage Waste Haulers.

The Facility shall only receive septage waste from a licensed septage waste hauler using a licensed septage waste vehicle. Each hauler must also be registered and bonded with Livingston County. Each septage waste hauler disposing of septage waste in the Facility shall post a surety, in the form of cash in an escrow account or a performance bond, in the amount of \$25,000

X. Operator.

The Facility will be operated by the office of the Livingston County Drain

Commissioner, acting on behalf of Livingston County.

XI Operating Conditions.

A. Access. Access to the Facility by licensed septage waste haulers shall be made solely through the intersection of Clyde and Runyan Lake Roads

B. Transfer. The transfer of septage waste from a septage waste vehicle to the Facility will occur inside the Facility using a drive-through traffic pattern. Each transfer of septage waste from a septage waste vehicle will be through a 4" or 6" hose firmly connected to the Facility.

C. Discharge. Septage waste received at the Facility will be discharged into the Hartland sewer system for transportation to the Genesee County District 3 Wastewater Treatment Plant for treat

D. Testing. All septage waste received at the Facility will be tested in accordance with the Genesee Industrial Pretreatment Program.

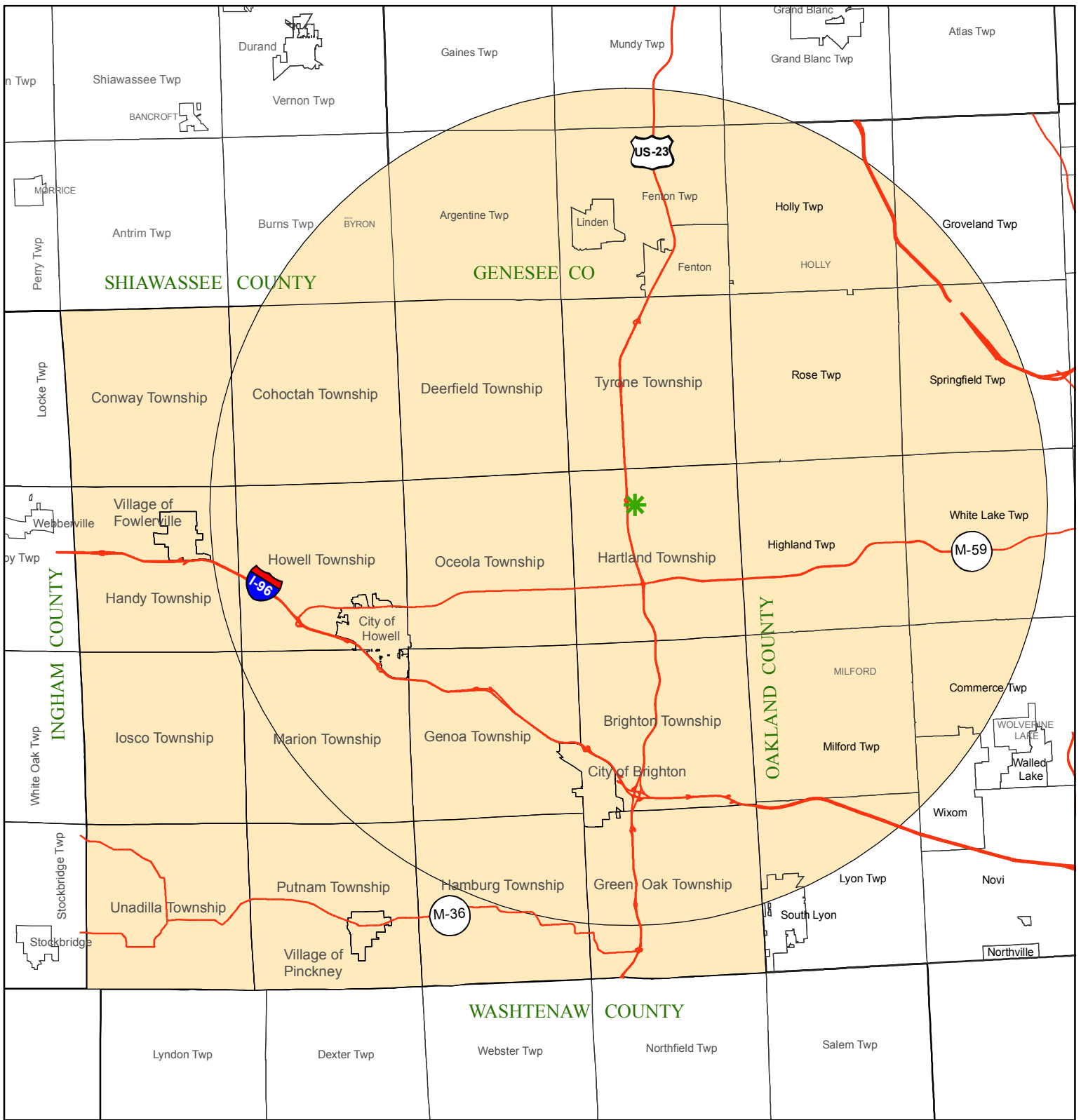
E. Maintenance. All components of the Facility will be operated and maintained in good condition and repair, in compliance with the local, state and federal standards, rules and regulations generally applicable to septage waste receiving facilities. Due care will be taken to prevent nuisance conditions, including odor control.

XII Fees and Billing.

The Facility will charge a fee for receiving septage waste, which fee shall not exceed the actual costs of operating the Facility, including the reasonable cost of doing business as defined by common accounting practices. The initial fee is estimated at \$.0725 per gallon (\$72.50 per 1000 gal), and may be subsequently modified.

XIII Approval and Modification.

This Operating Plan shall not take effect until approved by the Michigan Department of Environmental Quality (MDEQ). Any major modifications to this Operating Plan must also be approved by the MDEQ.



Livingston County Septage Receiving Station Service Area



Septage Receiving Station



15 Mile Mandatory Municipal Treatment Zone, Part 117, P.A. 451



Map Prepared by:
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304 E Grand River, Ste. 101
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Note: Pursuant to Part 117, P.A. 451, Livingston County enacted an ordinance prohibiting the land application of septage within Livingston County and requiring that all septage originating anywhere within the County be taken to a municipal treatment facility.

Livingston County
Drain Commissioner
517-546-0040
2300 E Grand River
Howell MI 48843