

ECO WASTE SOLUTIONS
SEPTAGE RECEIVING FACILITY
OPERATING PLAN

I. Authority.

This Operating Plan for the Eco Waste Solutions 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 there under 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. “Food Establishment Septage” means material pumped from a grease interceptor, grease trap, or other appurtenance used to retain grease or other fatty substances contained in restaurant wastes and that is blended into a uniform mixture, consisting of not more than 1 part of that restaurant-derived material per 3 parts of domestic septage, prior to land application or disposed of at a receiving facility.
- c. “Septage Receiving Facility procedures manual” means specific criteria established by Kalamazoo County detailing procedures for such items as: registration and insurance requirements of licensed septage haulers, sampling requirements, billing procedures, capacity priority, and general operation and maintenance for the Eco Waste Solutions Receiving Facility.
- d. “Operating Plan” means a plan developed in accordance with PA 381 of 2004 by Eco Waste Solutions for receiving septage waste that specifies the location, categories of septage waste that will be received, capacity, the service area, and hours of operation.

III. Purpose

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

IV. Location

The facility is located at 5189 King Highway, Kalamazoo, MI 49048.

V. Service Area

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

1. Kalamazoo County; and Surrounding Counties.

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

VI. Categories of Septage Waste

The Facility will receive categories of septage waste which include domestic septage and Food Establishment Septage Waste.

VII. Capacity

Hydraulic Capacity

The Facility has an initial design hydraulic capacity of **40,000** gallons per day, translating into a potential yearly volume of **8,000,000** gallons. The septage will be transported via pump stations and transmission lines to the City of Kalamazoo Water Reclamation Treatment Plant for final treatment and disposal in accordance with the City of Kalamazoo Water Reclamation Plant 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 **15,000** gpd and **25,000** gpd respectively.

Nutrient/Organic Capacity

The Eco Waste Solutions Septage Receiving Station does not treat waste beyond screening, limited aeration and dewatering. The Facility is a collection node to the City of Kalamazoo Water Reclamation Wastewater Plant, which ultimately treats the septage waste. The Plant is monitored by the City of Kalamazoo Significant Industrial User Pretreatment Program.

VIII. Facility Features

Receiving: Deliveries are received at a heated, facility, using a back in pattern to our receiving area. Access to the facility is made by use of a swipe card system. The hauler connects the delivery truck to the station via the use of cam-lock couplings and 4" or 6" hose provided at the facility. Once inside, a hauler simply swipes his card and the system starts up.

Discharge: After pressing a "START" button to open the internal valves and activate the screening unit, waste is directed through a rock trap, and then a bar-screen type screening unit. Screenings are pressed in the screening unit and automatically discharged to a conveyor system. Waste flows are monitored with an in-line meter and automatically charged to the Hauler's account upon completion of the dumping event. During discharge, the hauler must take a sample from the sample valve located on the rock trap, using one of the provided sample bottles. Once the truck is emptied, the hauler depresses the "STOP" button, which closes the internal valving and automatically prints a receipt from the print panel located in the receiving room. The hauler completes a Trucked Waste Manifest showing where the waste was generated. In addition, a

receipt is printed which is to be stapled to the Trucked Waste Manifest. The receipt indicates the hauler's business name, truck registration number, date, time, and volume discharged. The Trucked Waste Manifest and the sample bottle are placed in the sample refrigerator.

Treatment: Waste passing through the screening unit has heavy debris and grit removed and deposited in a below ground grit chamber which is vacuum cleaned on a regular basis. Waste is directed via two (800 gpm) trash pumps into one of two aerated **12,000** gallon aboveground enclosed mix tanks, or one of two above ground slurry stores (25,000 gallons each). Various chemistry is utilized to accomplish ph control and flocculation before transferring to the belt press for dewatering. Filtrate water passes through a dissolved air flocculation unit for further TSS removal before discharge to the city sanitary sewer system. Monitoring of our Facility is controlled by the City of Kalamazoo Significant Industrial User Pretreatment Program. Final treatment is completed at the City of Kalamazoo Water Reclamation Plant.

IX. 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 7:00 a.m. to 2:00 p.m. on Saturday, except in cases of emergency. For emergency unloading please call Dale W Hubbard 269-207-7453 or Mark Wilson 269-207-7452.

X. 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 with Kalamazoo County or county that Hauler is registered in. Each septage waste hauler disposing of septage waste in the Facility shall submit proof of insurance listing Eco Waste Solutions as an additionally insured and carrying the following policies:

- a. Vehicle Liability: \$1,000,000 Limit of Liability per occurrence
- b. Commercial General Liability: Bodily injury, property damage and property damage, per occurrence and/or aggregate: \$1,000,000.
- c. Worker's Compensation: in accordance with all applicable statues of the State of Michigan.

XI. Operator

The Facility will be operated by Eco Waste Solutions.

XII. Operating Conditions

- a. Access. Access to the Facility by licensed septage waste haulers shall be made solely through the entrance at King Highway.
- b. Transfer. The transfer of septage waste from a septage waste vehicle to the Facility will occur inside the Facility using a drive-in and back up to the receiving area. 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 facility. Proper screening and dewatering will take place. City of Kalamazoo Water Reclamation Plant will provide final treatment.

- d. Testing. Septage waste received at the Facility will be tested in accordance with the City of Kalamazoo Industrial Pretreatment Program.
- e. Maintenance. All components of the Facility will be operated and maintained in good condition and repair, per manufacture's recommendations, and 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 but not limited to use of odor control technologies, good housekeeping practices, and the initiation of a preventative maintenance program.

XIII. Fees and Billing

The Facility will charge a fee for receiving septage waste, and a fee for the administration associated with tracking individual trucks. The gallonage charge for septage and portable toilet waste), is **\$.10** per gallon (**\$100.00** per 1000 gal.), food establishment septage (restaurant grease trap waste) and commercial waste water is **.10 to .17** per gallon (**\$100.00 to \$170.00** per 100 gallons) depending upon strength and may be subsequently modified.

XIV. 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.