STORMWATER POLLUTION PREVENTION PLAN

FOR:

Covanta of SEMASS, LP
SEMASS Resource Recovery Facility
141 Cranberry Highway
Rochester MA
508-291-4400

SWPPP CONTACT(S):

Joseph Duggan
141 Cranberry Highway
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SWPPP PREPARATION DATE:
05 / 12 / 2021

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SECTION 1: FACILITY DESCRIPTION AND CONTACT INFORMATION

1.1 Facility Information

Facility Information

Name of Facility: SEMASS Resource Recovery Facility
Street: 141 Cranberry Highway
City: Rochester State: MA ZIP Code: 02770
County or Similar Subdivision: Plymouth
Permit Tracking Number: MAR053704 (if covered under a previous permit)

Latitude/Longitude (Use **one** of three possible formats, and specify method)

Latitude:	Longitude:
1. 41º 48' 8.18" N (degrees, minutes, seconds)	1. 70º 47' 16.88" W (degrees, minutes, seconds)
2. _ _ º _ _ . _ _' N (degrees, minutes, decimal)	2. _ _ º _ _ . _ _' W (degrees, minutes, decimal)
3. 41.8022º N (decimal)	3. 70.7875º W (decimal)

Method for determining latitude/longitude (check one):
☐ USGS topographic map (specify scale:_____) ☐ EPA Web site ☐ GPS
☒ Other (please specify): Data from air quality modeling submittals

Is the facility located in Indian Country? ☐ Yes ☒ No
If yes, name of Reservation, or if not part of a Reservation, indicate "not applicable."
Not Applicable

Is this facility considered a Federal Facility? ☐ Yes ☒ No

Estimated area of industrial activity at site exposed to stormwater: 95 (acres)

Discharge Information

Does this facility discharge stormwater into an MS4? ☐ Yes ☒ No

If yes, name of MS4 operator: NA

Name(s) of water(s) that receive stormwater Cedar Swamp Brook and East Branch of Sippican River

Are any of your discharges directly into any segment of an “impaired” water? ☐ Yes ☒ No

If Yes, identify name of the impaired water (and segment, if applicable):

Identify the pollutant(s) causing the impairment:

For pollutants identified, which do you have reason to believe will be present in your discharge?

For pollutants identified, which have a completed TMDL?

Do you discharge into receiving waters designated as a Tier 2 (or Tier 2.5) water? ☐ Yes ☒ No

Are any of your stormwater discharges subject to effluent guidelines? ☐ Yes ☒ No

If Yes, which guidelines apply? _____

Primary SIC Code or 2-letter Activity Code: SE

Identify your applicable sector and subsector:

Sector O; Subsector O1: Steam Electric Generating Facilities

1.2 Contact Information/Responsible Parties

Facility Operator:	
Name:	Covanta SEMASS LP
Address:	141 Cranberry Highway West Wareham, MA, 02767
Telephone Number:	508-291-4400
Email address:	Not Applicable
Fax number:	508-291-4412

Facility Owner (s):	
Name:	SEMASS Partnership
Address:	141 Cranberry Highway West Wareham, MA, 02767
Telephone Number:	508-291-4400
Email address:	Not Applicable
Fax number:	508-291-4412

SWPPP Contact:	
Name:	Joseph Duggan
Telephone number:	508-291-4435
Email address:	jduggan@covanta.com
Fax number:	508-291-1522

1.3 Stormwater Pollution Prevention Team

Title	**Responsibilities**
Facility Manager	Responsible for SEMASS facility
Maintenance Manager	Responsible for facility wide maintenance of grounds, equipment, and buildings
Chief Engineer	Responsible for all operations personnel
Environmental Specialist(s)/Engineer(s)	Responsible for environmental compliance including implementation of the SWPPP
Fuel Superintendent	Responsible for fuel side operations
Ash Plant Supervisor	Responsible for ash plant operations
Shift Supervisors	Responsible for daily facility operation

1.4 Activities at the Facility

The SEMASS Resource Recovery Facility (SEMASS) is located on approximately 95 acres on Route 28 in Rochester Massachusetts. The facility is designed to receive solid waste (SW) and shred it to produce processed refuse fuel (PRF). The PRF is fired in specially designed waterwall boilers. Steam production from the PRF combustion is used to generate electricity which is currently sold to the grid.

1.4.1 Solid Waste Operations

The MWC technology used at SEMASS requires the waste to be shredded prior to combustion.

1.4.2 Waste to Energy Facility

The original plant, referred to as the “Base Plant” included Units 1 and 2, a condensing turbine generator, air-cooled condenser, water cooled auxiliary condenser, air pollution control equipment, a switchyard, and auxiliary support systems. Unit 3 was constructed at a later date and is termed the “SEMASS Expansion” plant. Unit 3 also included a condensing turbine generator, air-cooled condenser, air pollution control equipment, a switchyard, and auxiliary support systems.

All three units share a single, 345 foot stack containing three separate flues, one serving each boiler. The air pollution control system for all three units operate with a spray dryer absorber followed by a baghouse. All three units are also equipped with a urea injection system to control the emissions of nitrogen oxides. MSW is continuously processed and burned at the Facility. The amount of SW handled, put into storage, and retrieved from storage depends on the SW delivery schedule and plant availability.

The SEMASS RRF employs a complex arrangement of MSW and PRF conveyors as part of the solid waste processing and feeding. SEMASS recently installed two (2) Metso Pre-Shredders on “B” and “C” line, these pre-shredders feed the shredded MSW on a conveyor system where they are then shredded again by the “Primary” shredders, which are single-stage horizontal hammermill-type shredder. The Pre-Shredders helps reduce downtime and maintenance. The shredding reduces the material to a nominal 4-inch minus size.

The feed system is always overfed with PRF so that ample fuel surge inventory is available to minimize lags in feed rate control. When shredders or process lines are not available or all the available SW had been processed into PRF, the PRF is then fed directly to Boilers 1 and 2 on a system that bypasses the shredding and the magnetic separation stages.

The Facility is a “zero-water discharge” plant. All liquid waste streams including the floor drains and process blowdowns are hard piped to the water treatment building where the water is treated and stored for reuse. SEMASS utilizes various qualities of onsite and offsite generated wastewater in different operations throughout the facility. Water management and the uses for these waters are important to prevent stormwater exposure to these possible pollutant sources. Reuse water spills are treated just as

serious as a chemical spill and are contained and cleaned immediately. Water reuse takes place in the following operations on a regular basis (listed in order of the quality of water used).

- SNCR dilution water – urea and water injected into the furnace to reduce NOx emissions.
- Fly ash conditioning – Water used to wet fly ash to prevent dusting
- Quench tank – Water used to extinguish bottom ash as it leaves the boiler
- SDA head tanks – Water mixed with lime and injected into the SDA to reduce gas emissions.

SEMASS has separate ash handling systems for fly ash and bottom ash. When bottom ash leaves the quench tanks the material is conveyed to the bottom ash processing building where addition metals are removed from the ash and ash is stored for shipment to a landfill. Fly ash is collected in the emission control equipment and conveyed to two ash silos via closed conveyors. Water is added to the fly ash using a pug mill and dropped into trucks through a protractible chute to control dusting. Vehicles are covered with tarps and the material is brought to a landfill for disposal.

Other operations which occur at SEMASS include a vehicle maintenance building on-site to maintain the fleet of loaders and other mobile equipment used on-site.

1.5 General Location Map

A copy of the general location map for this facility is included in Attachment A.

1.6 Site Map

A copy of the site map for this facility is included in Attachment B.

SECTION 2: POTENTIAL POLLUTANT SOURCES

2.1 Industrial Activity and Associated Pollutants

Industrial activity	Associated pollutants
Carbon receiving	Oils, TSS
Equipment and building maintenance	Metals, oils, cooling and cleaning fluids, battery acid, welding and cutting
Equipment receiving and storage	Metals, liquids, and lubricating fluids
Fuel unloading operations	Oils
Lime receiving and slaking	TDS, TSS, Lime, oils, suspended solids, COD
MSW and ash conveyors	TDS, TSS, Metals, oils, suspended solids, BOD, COD
MSW and ash operations	TDS, TSS, Metals, oils, suspended solids, BOD, COD
Nonferrous and ferrous metal collection handling and shipment	TDS, TSS, Metals, oils, suspended solids, COD
Pollution Control Equipment	TDS, TSS, Metals, oils, suspended solids, COD
Salt Storage	TDS, TSS
Vehicle fueling	Oils
Vehicle maintenance	Metals, oils, suspended solids, BOD, COD, welding and cutting
Vehicle operation and storage	Metals, oils, suspended solids, BOD, COD

2.2 Spills and Leaks

Areas of Site Where Potential Spills/Leaks Could Occur

Location	Outfalls
Water Treatment	001
Pollution control equipment and conveyors	001
Ash Plant	001
Laydown Area	001
Vehicle Storage Areas	001 & 002
Roadways	001 & 002
Material Receiving Areas	001 & 002
MSW Receiving	001 & 002
MSW Conveyors	001

2.3 Non-Stormwater Discharges Documentation

The following is a list of allowable Non-Stormwater Discharges provided that all discharges comply with the effluent limitations:

- Discharges from fire-fighting activities;
- Fire hydrant flushing;
- Potable water, including water line flushing;
- Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
- Irrigation drainage;
- Landscape watering provided all pesticides, herbicides, and fertilizers have been applied in accordance with the approved labeling;
- Pavement wash waters where no detergents or hazardous cleaning products are used (e.g., bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols), and the wash waters do not come into contact with oil and grease deposits or any other toxic or hazardous materials (unless cleaned up using dry clean-up methods). You are prohibited from directing any authorized pavement wash waters directly into any surface water or storm drain inlet unless you have implemented appropriate control measures that meet the non-numeric effluent limits in Part 2.1.2. Where appropriate control measures are not in place, wash water runoff must first undergo treatment prior to discharge such as filtration, detention, or settlement;
- Routine external building washdown / power washwater that does not use detergents or hazardous cleaning products, (such as those containing bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols);
- Uncontaminated ground water or spring water;
- Foundation or footing drains where flows are not contaminated with process materials;
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but not intentional discharges from the cooling tower (e.g., “piped” cooling tower blowdown or drains); and

Authorizes stormwater discharges from the following industrial activities at Sector O facilities:

- Steam electric power generation using coal, natural gas, oil, nuclear energy, etc., to produce a steam source, including coal handling areas (does not include geothermal power);
- Coal pile runoff, including effluent limitations established by 40 CFR Part 423; and
- Dual fuel facilities that could employ a steam boiler

2.4 Salt Storage

Salt and sand mixture is stored indoors on the tipping floor vestibule to the left of the entrance door.

2.5 Sampling Data Summary

Previous sampling occurred under the 2015 MSGP.

Date Sampled	Year	Quarter	Location	Result (mg/l)	Sample Number	Notes
12/15/2015	2015	4	Outfall 002	20.8	NA	High level believed to be coming from sand (High iron "Carver soils") following construction of swale and RR spur - used hay and netting to hold soils and germinate seeds (grass) to naturally hold soils
1/10/2016	2016	1	Outfall 002	0.64	-2	
1/15/2016	2016	1	Basin 2	1.25		Sample from Basin 2
1/15/2016	2016	1	Basin 3	0.28		Sample From Basin 3
3/10/2016	2016	1	Outfall 001	0.15	1	001 - First Sample*
4/12/2016	2016	2	Outfall 001	0.76	2	001 - Second Sample*
4/21/2016	2016	2	Outfall 002	6.28	-1	Exceeded Benchmark
5/30/2016	2016	2	SW-1	4.48		River
5/30/2016	2016	2	SW-2	2.83		Outfall 002
5/30/2016	2016	2	SW-3	1.85		Entrance of swale
5/30/2016	2016	2	SW-4	1.63		settling basin before pipe under loop road
5/30/2016	2016	2	SW-5	9.42		Grate near transformer - iron source belived to be the high iron soils removed from the well and high iron water from fire systems - Cleaned out drain with vac truck
5/30/2016	2016	2	SW-6	2.33		Swale near the ramp to PRF lounge
10/31/2016	2016	4	Outfall 002	0.065	1	002 - First Sample*
1/13/2017	2017	1	Outfall 002	0.189	2	002 - Second Sample*
3/31/2017	2017	1	Outfall 001	0.57	3	001 - Third Sample*
4/25/2017	2017	2	Outfall 002	0.142	3	002 - Third Sample*
4/25/2017	2017	2	Outfall 001	0.314	4	001 - Fourth Sample*
9/22/2017	2017	3	Outfall 002	0.132	4	002 - Fourth Sample*
*NOI Change Benchmark Sampling not required - 11/16/2017						

SECTION 3: STORMWATER CONTROL MEASURES

The following Standard Operating Procedures (SOP) contain measures to prevent industrial materials from contacting stormwater or measures to prevent spills.

- SOP-04 Rail Car Unloading Procedure
- SOP-10 Fueling front end loaders
- SOP-12 Lime Unloading
- SOP-14 Baghouse, SDA, ESP, Hopper Clearing
- SOP-19 Unloading Fuel Oil
- SOP-22 Visual Inspections/Working In/Around Slaker Building
- SOP-25 Using the Load-Out Bay
- SOP-28 Leachate Unloading Procedure
- SOP-32 Transferring Lime between Base and Expansion
- SOP-33 Removal and Changing of Bags in the COHPAC & Baghouse
- SOP-41 Filling Loader Fuel Oil Tank (located outside the rail tipper)
- SOP-51 Vehicle Maintenance Equipment Repairs
- SOP-54 Carbon Unloading Procedure
- SOP-55 Washing/Cleaning Pugmills
- SOP-56 Battery Replacement and Inspection
- SOP-64 Unloading Sodium Hypochlorite Trucks
- SOP-65 Virgin Oil Unloading Procedure
- SOP-67 Fueling Tractor Trailers
- SOP-74 GapVax Vacuum Truck Operation
- SOP-77 Fly Ash Conveyor Maintenance
- SOP-87 Diesel & Heating Oil Storage Tank Fill Procedure
- SOP-88 Snow Removal Plan

3.1 Minimize Exposure

All Ash and MSW conveyors and storage areas are covered to prevent stormwater contact with materials. Interior building sumps and floor drains collect water resulting from either rain entering the buildings or emanating from the materials. MSW and Ash processing are conducted inside buildings. The water collected is either reused in the area the water is generated, place on the tipping floor for processing with the MSW, or piped to the water treatment building for reuse, depending on the water's quality and extent of contamination. Ash unloading areas are cleaned regularly to limit ash exposure from incidental spills.

3.2 Good Housekeeping

- Street Sweeper is utilized to collect materials on roadways when weather permits
- Floor drains are cleaned on a regular basis
- Facility has equipment to allow waste materials transfer as needed and has an employee (yard driver) designated to transfer material around the site.
- Inspections of various areas of the facility are conducted on a weekly basis, this includes the drums, tanks, and containers in specific areas of the site.

- Shift Supervisor and Operations personnel conduct rounds on a daily basis which include inspection of the facility for environmental issues.
- Site walk downs are conducted approximately weekly. Comprehensive documented walk downs of the facility are conducted monthly.
- Employees are encouraged to submit near misses which can relate to either safety or environmental concerns.

3.3 Maintenance

At the SEMASS Resource Recovery Facility, all maintenance equipment inspections as well as preventative and predictive maintenance (PM) are scheduled through a computer-based maintenance system. Tasks are written for each PM on a piece of equipment based on manufacturer's recommendations, equipment failure history, and company policy. The SEMASS Maintenance Department generates work orders for specific PM's after reviewing the task list looking for PM's which are due that week. PM's are assigned to specific crafts or groups such as Maintenance Mechanics or Instrumentation Technicians. Examples of preventative maintenance tasks include greasing, oil changes, cleaning, alignment, and adjusting torque settings. Examples of predictive maintenance tasks include oil sampling, thermography, and vibration analysis.

The first step in planning and executing predictive or preventative maintenance activity at the SEMASS RRF is to write a work order. Approximately 300-500 work orders are initiated each month at the SEMASS RRF. Work orders that are generated are reviewed on a daily basis with the SEMASS Maintenance Department and also at the SEMASS morning meeting.

SEMASS RRF Maintenance activities can be generally categorized into these areas:

- *Major Activity*. This includes the planning, execution and coordination of large maintenance projects such as major boiler outages, boiler washes, shredder rebuilds, equipment rebuilds, etc. Major projects typically require efforts of both SEMASS and associated contractors (mechanical, electrical, etc.).
- *Fuel Side*. This includes efforts to maintain, troubleshoot and repair (TSR) operational problems associated with the SEMASS Fuel side, including MSW and PRF conveyors, shredding operations, pre-combustion ferrous system, rail tipper, fire systems, and other systems.
- *Power Side*. Efforts to maintain, troubleshoot, and repair operations issues associated with the SEMASS Power Side (tubes, grates, quench tanks), Ash Plant (silos, conveyors, pugmills), air pollution control systems (Baghouses & SDAs), and Water Treatment operations.
- *IC&E.* Plant-wide efforts that require TSR or any instrumentation, controls or electrical issues. These areas would include switchyards, all facility-wide instrumentation and controls, and electrical systems that support facility equipment.
- *Vehicle Maintenance*. Efforts needed to maintain proper operations of all Facility mobile equipment including: MSW Loaders, tractor-trailer trucks, support equipment (sweeper, vacuum truck) plus satellite facility mobile equipment (CMW Landfill, Braintree Transfer Station)

- *Roads and Grounds*. Efforts needed to maintain proper drainage, vegetation control, facility pavement, buildings, and other general outdoor maintenance. This work is often done either by contractors (such as mowing) or by contractors under the direct supervision of maintenance and/or operations personnel.

3.4 Spill Prevention and Response

Containers are required to be labeled according to the OSHA Standard. Liquid containers are stored inside buildings or are provided with secondary containment meeting the requirements for exterior containment structures (either 110% containment or 100% containment with a roof). In addition tanks with double walls with the potential for spills outside the tank are surrounded by spill pads to provide protection from discharge to the ground. Inside buildings secondary containment is used were appropriate to prevent spilled materials from reaching outside. The interior building floor drains direct spills to the water treatment building where the water is collected for use in various operations throughout the plant. Bollards or other physical barriers are used to prevent vehicles contacting storage or utilization areas where appropriate.

The facility has an onsite chemical emergency response team which is capable of containing spills and cleaning up small spills. To activate the emergency response team employees contact the control room via the in plant communication systems (hand-held radio or Getronics system). The control room has access to telephones with outgoing lines and has the ability to use the Getronics system to contact onsite personnel.

In the event that a spill is larger or more dangerous than what the team can readily contain and clean up then the Covanta has a standing agreement with a cleanup contractor as listed in Attachment D.

Personnel have access to communications through either the plant-wide Getronics system or handheld radios and can communicate with each other or with the control room. The control room is manned at all times and the control room operators have access to a telephone with an outside line.

3.5 Erosion and Sediment Controls

Vegetation is utilized to stabilize soils to control sedimentation throughout the site. Parking and vehicle activities are kept off of these areas where possible both to prevent the release of materials to unpaved areas as well as to prevent disturbing the vegetation in these areas. If continued vehicular traffic occurs in an area it will either be paved or preferably will have crushed stone placed to limit erosion. Areas where open soils exist (such as the equipment laydown area) do not discharge directly to a stormwater conveyance system unless intense rainfall occurs. In the event of intense rainfall this area will discharge to Basin 1 which will provides sufficient retention time to prevent the sediments from reaching Outfall 001. These areas are allowed to sheet flow and infiltrate where possible to limit sediment transfer to the basins.

There are two stormceptors installed, one handles water that enters the drainage system from the west side of the tipping hall through to the administration building. The other handles the area surrounding the old AlphaKat Building.

3.6 Management of Runoff

The facility has three stormwater basins which control and help to infiltrate and divert stormwater flow from outfall 001 (-70.79187, 41.80335). The majority of the exposed areas are discharged to one of the three basins. Basin 1 receives waters from the Laydown Area, The Old AlphaKat Building and waters that flow thorough the swales from the exit roadway. Basin 1 also receives some stormwater from the Partnership Office Building and the Facility Entrance Road. Basin 2 receives stormwater from the fuel side entrance door, fuel side roofs, MSW loading and processing areas, and the roadway from the exit door. Basin 3 receives waters from the power side operations areas, ash plant operations areas and along the south loop roadway. Basins 1 and 2 communicate via a pipe running under the facility loop road that passes between the basins. When these basins fill enough to overtop the outfall from Basin 2 the water enters a swale running to Basin 3. Basin 3 has the only discharge (Outfall 001) from the basin system which allows waters to enter the wetlands to the east of the site which eventually enter Cedar Swamp Brooke a tributary to the East Branch of the Sippican River. Water from the stormwater basins is heavily utilized in facility operations, stormwater use combined with the infiltration capacity of the basins means that the facility rarely discharges water to these wetlands. Typically water discharge only occurs in the winter and spring when the facility is not utilizing the water in the facilities cooling towers.

The following operations regularly utilize stormwater:

- Lime Slaking
- SDA Dilution water
- Cooling towers
- Firefighting

Outfall 002 (-70.79283, 41.80347) contains stormwater generated from the laydown area to the south of the rail tipper building and the rail tracks. These swales are designed to hold stormwater to allow infiltration however under prolonged heavy rainfall conditions the wetlands water will encroach into our system and stormwater discharge to the wetlands west of the site can occur. These wetlands are part of the East Branch of the Sippican River.

3.7 Salt Storage Piles or Piles Containing Salt

The sand salt mixture is stored inside the tipping hall vestibule. All loading and unloading of salt and sand mixtures are completed inside the tipping hall.

3.8 MSGP Sector-Specific Non-Numeric Effluent Limits

- *Facility Sweeping*. Sweeping is a critical BMP by removing solid waste and debris before it can impact stormwater. Sweep the perimeter roadways around the facility. Special focus on Tip Floor exit, Bottom Ash loadout and Fly ash silos, Power Side

near Carbon Silo, and flyash. Frequency: Minimum of five (5) times per week, weather permitting.

- *Stormwater Swales*. Conduct appropriate maintenance (vacuum "muck outs", repair of rills, etc.) for any stormwater swales that have excessive sediment/debris. Frequency: Assess and repair as needed on an annual basis or as needed.
- *Stormceptors*. Installed as part of AlphaKat and Administration / Locker Room Building construction and the CNG Fueling Station. These provide a high degree of stormwater pretreatment by removing both solids and chemical constituents (oil). Frequency: Use Vacuum Truck to clean out systems on a semiannual basis or as needed.
- *Rail Spur near Fuel Side Gate*. Due to the plant's design, the rail line acts as a low point drain. Fortunately, most of the solids runoff stays between the rails. Use the Vacuum Truck to remove accumulated solids/debris from the portion of the tracks near the gate. Frequency: Vacuum out debris on a semiannual basis or as needed.
- *Catchbasins*. Have storm drain filters in place in all drains at all times. All catchbasins should also have the 4-haybale arrangement around the drain opening as a further pretreatment unless this would restrict use of an active roadway. Frequency: Replace drain filters and haybales (if present) on a semiannual basis or as needed.
- *Roadway between Detention Basins #1 and #2*. The exit roadway between Detention Basins #1 and #2 often builds up solids from departing solid waste vehicles. Place haybales, socks, rock and/ or other material on the drainage downchutes into each basin as a pretreatment to minimize solids entry. Frequency: Replace upper rock and silt fence on a semiannual basis or as needed, replace swale rock as needed.
- *Delivery Vehicles*. No leakage from liquid delivery vehicles will be allowed onsite. Excessive leakage from MSW delivery vehicles will not be tolerated. Small drips are expected from these vehicles however consistent water streams will be brought to the attention of the shift supervisor and/or the environmental specialist and the vehicle will be flagged as unacceptable for delivery to SEMASS at the scale house until repairs are made.
- *Fuel Oil Unloading Areas*. Fuel oil unloading equipment and associated pumping equipment are within a spill containment berm for containing incidental spills associated with equipment failure. SEMASS personnel trained according to SOP-19 Fuel Oil Unloading procedures are present during the delivery of all fuel oil shipments. In addition a spill locker is provided next to the unloading station to provide equipment to contain spills which occur during the unloading process.
- *Chemical Loading and Unloading*. When deliveries of hazardous chemicals (chemicals with a reportable quantity) are received an employee from SEMASS will be present who has been adequately trained according to the procedures for receiving that material. For materials that are nonhazardous the materials will be delivered by trained delivery personnel that are familiar with the facility and have been trained to perform the operations that they are conducting. If the delivery involves nonhazardous liquids and they will not be accompanied by SEMASS personnel the delivery personnel must take the training course associated with these operations and documentation of the training must be kept onsite.

- *Liquid Storage Tanks*. Protective guards (bollards or other means) are utilized around tanks to prevent vehicle contact with storage tanks. In addition, on double wall exterior tanks a spill pad area is provided to prevent spills from reaching unprotected ground in the event of an overflow during filling or a failure of a delivery line from the tank.
- *Large Bulk Fuel Storage Tanks*. Containment berms or double wall design are utilized for all exterior oil tanks. SEMASS complies with applicable State and Federal laws, including Spill Prevention, Control and Countermeasure (SPCC) Plan requirements.
- *Spill Reduction Measures*. SEMASS minimizes the potential for an oil or chemical spill by limiting the outdoor storage of materials at the facility and provides secondary containment for all materials stored outside of buildings. In addition all building floor drains are routed to the water treatment buildings where the wastewaters are reused in plant systems. Employees responsible for the operations in their area as well as employees passing through areas are trained to recognize conditions that will lead to spills and are trained to recognize spills as they are occurring. All employees are trained in what should be done in the event that they discover a spill. In addition to normal daily activities, portions of the site are inspected weekly and comprehensive monthly visually inspections are conducted as part of the facilities routine inspection program. During these inspections the structural integrity of all above-ground tanks, pipelines, pumps, and related equipment that may be exposed to stormwater are inspected and any necessary repairs required are placed into the facilities electronic repair log.
- *Oil-Bearing Equipment in Switchyards*. Level grades and gravel surfaces are used to retard flows and limit the spread of spills.
- *Residue-Hauling Vehicles*. SEMASS requires all residue-hauling vehicles have proper covering over the load, adequate gate sealing, and overall integrity of the container body. SEMASS Ash Plant Personnel conducting residual loading activities are expected to examine the hauling vehicle before during and after loading to determine if the vehicle is containing the loaded material properly. If SEMASS personnel notice vehicles without load covering or adequate gate sealing, or with leaking containers or beds they will notify their supervisor and the equipment will be removed from service until repairs are made.
- *Ash Loading Areas*. Reduce or control tracking ash and residue from ash loading areas. Clear the ash building floor and immediately adjacent roadways of spillage, debris, and excess water before departure of each loaded vehicle.
- *Areas Adjacent to Disposal Ponds or Landfills*. SEMASS does not have disposal ponds or landfills onsite.
- *Landfills, Scrap yards, Surface Impoundments, Open Dumps, General Refuse Sites*. SEMASS does not utilize any of the listed items.

3.9 Employee Training

The employee training plan for SEMASS will consist of a basic program that will include all employees whose responsibilities interface with the generation or handling of raw and waste materials, or the maintenance of facilities for handling these materials. The primary purpose of the training is to make these employees aware of the SWPPP

components and goals to prevent pollutants from entering stormwater runoff. Most employees' responsibilities, which should be communicated to them through the training, are limited to observing and reporting to their direct supervisors any conditions observed which may expose pollutant sources to direct rainfall or rainfall runoff. All training will be compiled by the Pollution Prevention Team and provided by the supervisors. All employees whose activities may affect stormwater quality shall be trained within 90 days of employment and a minimum of annually thereafter.

In addition to the annual training programs, it is recommended that the Pollution Prevention Team utilize the semi-annual Comprehensive Site Compliance Evaluations as a time when all team members are refreshed in the General Permit Requirements and the SWPPP elements.

3.9.1 Stormwater General Permit Training Outline

The following outline may be used for training sessions accompanied by a review of Section 2 and Attachment B of this document. Training records are maintained documenting who was trained, when, and by whom.

A. Required by the Federal Clean Water Act
B. Administered through EPA
C. Potential fines for non-compliance ($25,000/day)
D. Pollution Prevention Team (PPT)
    1. Introduce members
    2. Summarize member responsibilities
E. Sampling and reporting requirements
F. Storm Water Pollution Prevention Plan
    1. Purpose
    2. Summarize Plan elements
        a. Potential pollutant sources
        b. Measures and controls
            i. Good housekeeping
            ii. No outdoor vehicle and equipment washing
            iii. Preventative maintenance practices
            iv. Spill prevention and response
            v. Other measures and controls
G. Comprehensive Site Compliance Evaluation
    1. Semi-annual requirements
    2. SWPPP will be kept current
    3. Suggestions are welcome from all employees
H. Spill Control Option – For Pollution Prevention Team members only
    1. Review equipment locations and inventories
    2. Review containment and clean-up procedures appropriate for different chemicals
    3. Inspect potential locations of spills/leaks and their potential flow paths
        a. Container storage areas
        b. Rubbish & scrap metal dumpsters
        c. Dust control equipment

4. "Walk through" emergency spill procedures
    a. Emergency spill contractor & phone number

3.10 Non-Stormwater Discharges

Non-stormwater discharges can be discovered during any of the site inspections as detailed in Section 5. Unauthorized non-stormwater discharges are investigated once identified. Most non-stormwater discharges are easily redirected to the facility's floor drain system which directs water to the water treatment building for reuse. Where non-stormwater discharges cannot be redirected to the facility's floor drain system other measures to eliminate the non-stormwater discharge will be investigated.

3.11 Waste, Garbage and Floatable Debris

All municipal solid waste delivered to the facility is dumped and stored inside of the enclosed tipping hall with the intent of reducing the impact to stormwater. Limited, loose municipal solid waste is expected to fall from the trucks that bring waste to the tipping floor. The Facility owns a street sweeper which is used to clean roadways when weather permits. Facility personnel clean-up litter and debris as needed. Debris is returned to MSW tipping floor for incineration.

Waste collection at the site utilizes roll-off containers with adequate covers to prevent stormwater contacting the waste collected. The two waste containers are located outside the Base Turbine Building near the Maintenance Shop Garage and outside the Locker Room Building near Basin 2. The first container is used to collect materials generated as part of the normal operations of the facility. The other container is the Employee Dumpster where employees are allowed to dispose their household non-hazardous waste.

In addition to these large containers there are small receptacles placed around the facility that are used for waste collection in areas far from any disposal point. These areas include the power side near the old ESP building and the ash plant trailer. These smaller receptacles are covered and are emptied on a regular basis.

Self-dumping forklift hoppers, loader buckets, and rolloff hoppers are used throughout the site to collect and dispose of materials. The hoppers are covered when transporting from one location to another.

3.12 Dust Generation and Vehicle Tracking of Industrial Materials

Dust is generated in several operations at SEMASS. Each operation has been identified and best management practices have been identified to aid in preventing the formation of dust as well as facilitating the cleanup of the site where dust has been generated.

3.12.1 Ash operations

All ash conveyors at the facility are enclosed to prevent dust formation and the conveyors are regularly observed by employees of the facility during normal operations. In the event that a conveyor is generating dust the conveyor can be stopped and repaired to prevent the condition.

Bottom ash, if not adequately wetted, can generate dust during processing. In addition if the bottom ash is too wet it can increase vehicle dragout. The bottom ash is wetted by the quench tanks and dried as it is conveyed to the bottom ash pit. The overall design of this system was to keep the ash wet while not providing too much moisture to the system. In addition the loading of bottom ash directly from the bottom ash pit can increase vehicle dragout. This operation is conducted when there is a problem with the ash plant metals removal systems. Problems such as excessive rags or an extreme volume of bottom ash production due to wet waste can cause the facility to bypass the metals processing in the ash plant. Bypassing the metal removal operations are minimized to ensure that the facility captures the value of the metals removed.

Dry fly ash is conveyed into 2 ash silos which have baghouses to control dust generation. Other than the openings through the baghouses the fly ash silos sand associated conveyors are completely closed aiding in preventing dust generation.

Fly ash loading is another operation in that can generate dusts. Fly ash loading begins in the fly ash silo. Dry fly ash is metered through a rotary valve into the pug mills. Inside the pug mills the ash is mixed with water using paddles. The paddles also push the fly ash toward the opening in the mill where the wet fly ash is dropped out the bottom of the pugmill through a telescoping chute which aids in preventing dust formation as the ash is added to the fly ash transportation trucks. The trucks are covered with a tarp to further prevent dusting in transit to area landfills.

3.12.2 Lime loading and mixing operations

Lime unloading is conducted by pneumatically conveying lime from a delivery vehicle to the lime storage silos. The systems can produce dusting in the event of either the failure of the lime silo baghouses or the failure of the conveyance systems. SEMASS personnel are trained according to SOP-12 Lime Unloading procedures and are present during the delivery. In the event that dusting occurs during the loading or offloading of this material the loading operation will be stopped and the equipment repaired before loading can continue.

3.12.3 Carbon loading and transport operations

Carbon unloading is conducted by pneumatically conveying carbon from a delivery vehicle to the carbon storage silos. The systems can produce dusting in the event of either the failure of the carbon silo baghouses or the failure of the conveyance systems. In the event that dusting occurs during the loading or offloading of this material the loading operation will be stopped and the equipment repaired before loading can continue.

3.12.4 Sandblasting operations

Enclosed sandblasting of parts are conducted as part of normal facility operations on a regular basis. In addition sandblasting large interior sections of the facility ductwork and boilers are conducted during outages. Both of these operations are conducted inside the facility and should not produce dusting. In the event that either of these operations produces visible dusting, the operations will be stopped and will not resume until the dusting can be prevented.

3.12.5 Vehicle Speeds and Street Sweeping

To reduce dust generation on the facility roadways vehicle speeds are restricted to 15 miles per hour. In addition the facility regularly sweeps the roadways with an on-site dedicated street sweeper. The street sweeper is a wet vacuum street sweeper. In addition to the water used by the street sweeper an emulsifying agent is used to aid in the collection of organic dragout caused by facility operations. The street sweeper is emptied on the tipping floor and the water and waste materials collected are mixed with incoming MSW and fed to the boilers.

SECTION 4: SCHEDULES AND PROCEDURES FOR MONITORING

SEMASS does not have any discharges directly to an impaired water. The Lower Sippican River is listed as an impaired water however the East Branch of the Sippican River is not an impaired water. The SEMASS Facility is approximately 4 miles (as the crow flies) from the beginning of this impaired water designation. The Sippican River is impaired for Algal growth (Chlorophyll A) and dissolved oxygen (COD) but no TMDLs have been developed for the waters.

Since the stormwater discharge from the facility is not directly to the impaired waters the only applicable monitoring is listed in Section 8 Sector O.

Sample Location(s)	Pollutant Parameters	Monitoring Schedules	Duration	Indicator Monitoring Threshold
Outfall 001 & Outfall 002	Polycyclic Aromatic Hydrocarbons (PAHs)*	Bi- Annually (2 times per year)	First year and fourth year	Report Only/ No thresholds or baseline values
Outfall 001 & Outfall 002	Chemical Oxygen Demand (COD)	Quarterly	Entirety of permit coverage	Report Only/ No thresholds or baseline values
Outfall 001 & Outfall 002	Total Suspended Solids (TSS)	Quarterly	Entirety of permit coverage	Report Only/ No thresholds or baseline values
Outfall 001 & Outfall 002	pH	Quarterly	Entirety of permit coverage	Report Only/ No thresholds or baseline values

* Monitoring is required for the 16 individual PAHs identified at Appendix A to 40 CFR Part 423: naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, fluoranthene, pyrene, benzo[a]anthracene, chrysene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, ideno[1,2,3-c,d]pyrene, and dibenz[a,h]anthracene.

Only staff that is familiar with the sampling methods will take samples. The sampling will be analyzed at a local laboratory capable of conducting the analysis. For a list of acceptable local laboratories see https://eeaonline.eea.state.ma.us/DEP/Labcert/Labcert.aspx

SECTION 5: INSPECTIONS

5.1 Inspection schedule and discharge of stormwater

The SEMASS Facility utilizes stormwater extensively in process operations. Most stormwater is utilized in the water cooled cooling towers. Since these cooling towers are not utilized during the colder months the stormwater use at the site fluctuates dramatically season to season. During the winter months stormwater discharge is more likely to occur while during the summer months the water level in Basin 3 can commonly be 10 to 12 feet under the discharge point. For this reason the facility has developed a system for monitoring when the possibility of discharge will occur. The system is detailed below.

- Outfall 1 and 2 will be inspected to determine if the possibility of discharge will occur in the near future. The outfall will be inspected weekly if the quarterly visual assessment or the indicator monitoring has not occurred in the current period and the current water level is within 6 inches of the discharge level. Weather will be monitored during this to anticipate if a rainfall event could generate discharge from either Outfall 1 or 2.
- If the current water level is within 12 inches of the discharge level the inspection frequency will shift to monthly until during an inspection the current water level is within 6 inches of discharge.

For the routine facility inspections and the comprehensive site inspections to be performed at your site, include a description of the following:

- The positions of the person(s), responsible for inspection:
    - Environmental Specialist(s)

- The schedules to be used for conducting routine inspections.
    - Routine inspections will be documented quarterly.

- The schedules to be used for conducting visual assessments.
    - Visual assessments will be documented quarterly. In the event that no discharge occurs during a particular quarter this will be documented using the visual assessment documentation.

- A list of specific areas to be inspected is included in the inspection sheet (Attachment E). In addition areas where any of the following occur but are not listed should be added to the bottom of the inspection sheet.
    - Areas where industrial materials or activities are exposed to stormwater.
    - Areas identified in the SWPPP and those that are potential pollutant sources (see Part 5.2.3).
    - Areas where spills and leaks have occurred in the past 3 years.
    - Discharge points.
    - Control measures used to comply with the effluent limits contained in this permit.

SECTION 6: DOCUMENTATION TO SUPPORT ELIGIBILITY

6.1 Documentation Regarding Endangered Species.

The activities at the site are eligible for the NPDES Multi-Sector General Permits for Stormwater Discharges Associated with Industrial Activities because Criteria C is met. Criteria A states that no federally listed threatened or endangered species or their designated critical habitat are likely to occur in the "area of potential affects" as defined in Appendix F of the MSGP. A state listed endangered species does exist at the site however all locations where the plant is expected to exist is located up gradient of the facility and on the natural gas easement in the northern portion of the site. Documentation of this determination is located in Attachment F.

6.2 Documentation Regarding Historic Properties

The activities at the site are eligible under Part 1.1.4.6 of the Federal Register for the NPDES Multi-Sector General Permits for Stormwater Discharges Associated with Industrial Activities because Criteria A is met.

The SEMASS RRF site in Rochester, Massachusetts is not within a historic area. The stormwater discharges and BMPs to control stormwater runoff and discharges are unlikely to affect a property that is listed on the National Register of Historic Places. Documentation of this determination is located in Attachment G.

6.3 Documentation Regarding NEPA Review (if applicable)

Not Applicable

SECTION 7: RECORDKEEPING

Official copies of the SWPPP will be maintained electronically with ready access. Any printed copies should be considered out of date as soon as they are printed.

- NOI and EPA acknowledgement with NPDES ID
- Deviation/exceedance reports
- Corrective action reports
- Impaired waters documentation
- Quarterly visual examination records
- Discharge monitoring reports
- Annual reports
- Sampling results/DMRs

SECTION 7: SWPPP CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Mark Davis

Title: Facility Manager

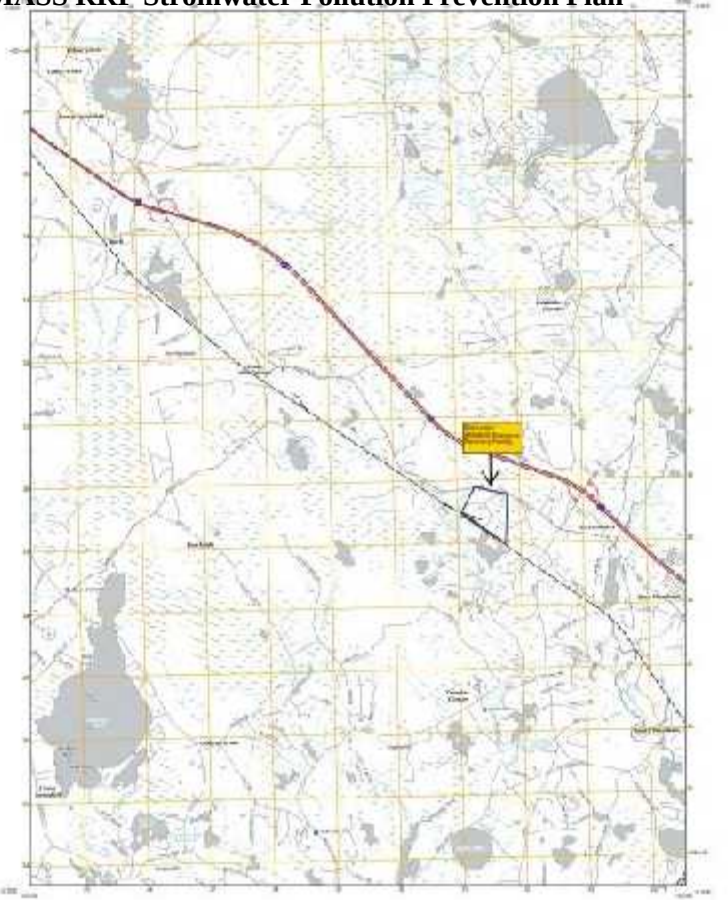
Signature: _____

Date: _____

SECTION 8: SWPPP MODIFICATIONS

Name	Date	Summary of Changes

Attachment A - General Location Map


SEMASS Resource Recovery Facility

Attachment B - Site Plan

LEGEND:

- DRAINAGE LINE
- CATCHBASIN
- MANHOLE
- PROPERTY LINE
- FENCELINE
- VEGETATED AREA
- STORMWATER FLOW DIRECTION
- TRANSFORMER
- DRY WELL
- LOADING/UNLOADING AREA

NOTES:

1. BASED ON 5/28/13 SITE PLAN BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. AND 7/22/15 SITE WALK-THROUGH BY WOODARD & CURRAN.
2. APPROXIMATE PROPERTY SIZE = 95 ACRES.
3. KEY MATERIAL STORAGE AREAS ARE DEPICTED. BUT SCRAP METAL, WHITE GOODS, TIRES, COMPRESSORS, PORTABLE CONTAINERS, ETC. MAY BE LOCATED THROUGHOUT THE SITE.

33 Broad Street Floor 7
Providence, Rhode Island 02903
800.985.7897 | www.woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

REV.	DESCRIPTION	DATE

DESIGNED BY: GA
DRAWN BY: KC
CHECKED BY: KC
224666.01 RFF SITE MAP *.dwg

SITE MAP

SEMASS RESOURCE FACILITY

141 CRANBERRY HIGHWAY
ROCHESTER, MA

JOB NO.: 224666.01
DATE: JANUARY 2016
SCALE: 1"=80'
SHEET: 1 OF 1

FIGURE 2

Attachment C - 2021 MSGP

Note: Available at
https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-epas-2021-msgp

Attachment D - Covanta Spill Cleanup Agreements

Attachment E - Stormwater Inspection Log

STORMWATER INSPECTION LOG
COVANTA SEMASS, Rochester, Massachusetts

Inspectors Names:

Inspection Date:

Weather Conditions:

Routine / Comprehensive
Type of Inspection (circle one):

Permittee's Name (Comprehensive only):

Permittee's Signature (Comprehensive only):

Potential Pollutant Source	Good Housekeeping		Preventative Maintenance		Spill Prevention		Problems Identified	Corrective Actions Taken & Date
	Accept.	Unaccept.	Accept.	Unaccept.	Accept.	Unaccept.		
Carbon receiving & storage								
Equipment and building maintenance								
Equipment receiving and storage								
Fuel unloading operations								
Lime receiving and slaking								
MSW and ash conveyors								
MSW and ash operations								
Nonferrous and ferrous metal collection, handling, and shipment								
Pollution Control Equipment								
Vehicle fueling								
Vehicle maintenance								
Vehicle operation and storage								
Outfall (To be inspected quarterly)								
Other Identified Sources:								

Routine Facility Inspections:

- Specific areas of the facility to be inspected, including schedules for specific outfalls:
  - Areas where industrial materials or activities are exposed to stormwater.
  - Areas identified in the SWPPP and those that are potential pollutant sources (see Part 5.2.3).
  - Areas where spills and leaks have occurred in the past 3 years.
  - Discharge points.
  - Control measures used to comply with the effluent limits contained in this permit

Quarterly Visual Assessments:

- The positions of the person(s), responsible for inspection:
  - Environmental Specialists, etc.

- The schedules to be used for conducting inspections.
  - The facility does not normally discharge stormwater in every quarter due to the use of large quantities of stormwater in plant processes. During the summer and fall it is exceedingly rare for the plant to discharge any stormwater.
  - The outfalls will be inspected on a regular basis to ensure that discharge from either outfall 1 or outfall 2 would be possible in the near future. If the current water level in a basin (outfall 1) or infiltration swale (outfall 2) is within 3 inches of the outfall then the outfall could potentially discharge water if the next rain event.
  - The approximate water height will be recorded during routine inspections to document whether quarterly or indicator monitoring may be possible during the quarter.

Attachment F - Endangered Species Act Documentation

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104
http://www.fws.gov/newengland

In Reply Refer To: May 19, 2021
Consultation Code: 05E1NE00-2021-SLI-3333
Event Code: 05E1NE00-2021-E-10064
Project Name: SEMASS - SWPPP

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

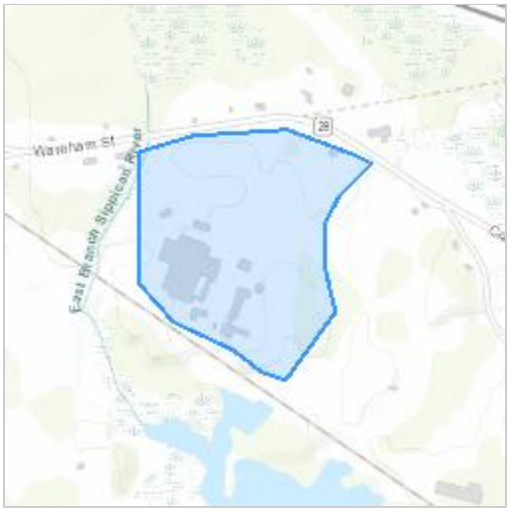
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
(603) 223-2541

Project Summary

Consultation Code: 05E1NE00-2021-SLI-3333
Event Code: 05E1NE00-2021-E-10064
Project Name: SEMASS - SWPPP
Project Type: POWER GENERATION
Project Description: Existing 3000 TPD waste to energy facility attempting to determine impact of stormwater discharge to comply with the new 2021 EPA Multi-Sector General Permit.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@41.8037102,-70.78877034670458,14z



Counties: Plymouth County, Massachusetts

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Reptiles

NAME	STATUS
Plymouth Redbelly Turtle *Pseudemys rubriventris bangsi* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/451	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Attachment G - Registered Historic Places within Rochester, Wareham and Marion

Registered Historic Place within Rochester, Wareham, and Marion

Reference Number	Resource Name	Address	City	Primary Certification Date	Multiple Property Name
87002030	Bird Island Light	Sippican Harbor	Marion	9/28/1987	Lighthouse of Massachusetts TR
09000091	Contant's Hill Site	Address Restricted	Wareham	11/25/1983	
07001361	East Rochester Church and Cemetery Historic District	355 Country Rd.	Rochester	1/9/2008	
07001400	North Rochester Congregational Church	289 North Ave.	Rochester	3/21/2008	
100004738	Reed, H.R., House	46 Water St.	Marion	12/2/2019	
86001219	Tobey Homestead	Main St. and Sandwich Rd.	Wareham	6/5/1986	
76001964	Tremont Nail Factory District	21 Elm St.	Wareham	10/22/1976	
08000533	WITCH (catboat)	35 Lydia Island Rd.	Wareham	6/18/2008	

Attachment H - Plan Revisions List

Date of Review	Person Completing Review	Amendments Required? (Indicate Yes or No)	If Amendments Are Required, Provide Details	Date Next Review Required

Attachment I – NOI and EPA acknowledgement with NPDES ID

Attachment J – Impaired waters documentation

SEMASS RRF Stromwater Pollution Prevention Plan

United States Environmental Protection Agency

This web report uses old data from a legacy database that has not been updated since 2017. This web report is outdated and will eventually be removed.
For the latest surface water quality assessment decision data, please visit How's My Waterway, or visit the ATTAINS website.

Waterbody Quality Assessment Report

Return to home page

2014 Waterbody Report for Sippican River

On This Page

State: Massachusetts
Waterbody ID: MA95-06
Location: Outlet Leonards Pond, Rochester to County Road, Marion/Wareham.
State Waterbody Type: River
EPA Waterbody Type: Rivers and Streams
Water Size: 2.941
Units: miles
Watershed Name: Cape Cod

Waterbody History Report

SEMASS RRF Stromwater Pollution Prevention Plan

Data are also available for these years: 2012 2010 2006

Water Quality Assessment Status for Reporting Year 2014

The overall status of this waterbody is Impaired.

Description of this table

Designated Use	Designated Use Group	Status
Aesthetic	Aesthetic Value	Not Assessed
Fish Consumption	Aquatic Life Harvesting	Not Assessed
Fish, Other Aquatic Life And Wildlife	Fish, Shellfish, And Wildlife Protection And Propagation	Impaired
Primary Contact Recreation	Recreation	Not Assessed
Secondary Contact Recreation	Recreation	Not Assessed

Causes of Impairment for Reporting Year 2014

Description of this table

Cause of Impairment	Cause of Impairment Group	Designated Use(s)	State TMDL Development Status
Chlorophyll-A	Algal Growth	Fish, Other Aquatic Life And Wildlife	TMDL needed
Dissolved Oxygen	Organic Enrichment/Oxygen Depletion	Fish, Other Aquatic Life And Wildlife	TMDL needed
Fish Passage Barrier	Habitat Alterations	Fish, Other Aquatic Life And Wildlife	Non-pollutant impairment

Probable Sources Contributing to Impairment for Reporting Year 2014

Description of this table

Probable Source	Probable Source Group	Cause(s) of Impairment
Hydrostructure Impacts On Fish Passage	Hydromodification	Fish Passage Barrier
Source Unknown	Unknown	Chlorophyll-A; Dissolved Oxygen

SEMASS RRF Stromwater Pollution Prevention Plan

TMDLs That Apply to this waterbody

No TMDL data have been recorded by EPA for this waterbody.

Previous Causes of Impairments Now Attaining All Uses

No causes of impairment are recorded as attaining all uses for this waterbody.

May 20, 2021

Attachment K – Annual reports

2015 NPDES Multi-Sector General Permit For Stormwater Discharges Associated With Industrial Activity (MSGP) Forms

United States Environmental Protection Agency
1200 Pennsylvania Ave, NW Washington, DC 20460

Permit Information (* indicates form required data)

What action would you like to take? *

New Industrial Stormwater Annual Report

Please select the NPDES ID corresponding to the facility for which you would like to submit an Annual Report and click the Submit button.

NPDES ID *

MAR053704: COVANTA SEMASS

☒ Confirm NPDES ID: MAR053704: COVANTA SEMASS *

Facility Information

Facility Name

SEMASS Resource Recovery Facility

Street

141 Cranberry Highway

Supplemental address

City

Rochester

State

Massachusetts

Zip Code

02770

First Name

Mark

Middle Name

Last Name

Davis

Telephone Number

5082914464

SEMASS RRF Stormwater Pollution Prevention Plan

1. Provide a summary of your past year's routine facility inspection documentation (see Part 3.1.2 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.8.1 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use airfield pavement deicers containing urea (e.g., "*I certify that [name of airport] is in compliance with the effluent limitation guideline for airfield pavement deicing by not using airfield pavement deicers that contain urea.*"). [Note: Operators of airport facilities that are complying with Part 8.S.8.1 by meeting the numeric effluent limitation for ammonia do not need to include this statement.] *

Four inspections were completed. Inspection findings included full waste containers not brought to the tipping floor and process material spillage outside of buildings. These findings were corrected the day of the inspection.

2. Provide a summary of your past year's quarterly visual assessment documentation (see Part 3.2.2 of the permit) *

Only 2nd quarter had Stormwater discharges from Outfall 001-Basin 3. This discharge had an unidentifiable white settled/floating solid.

Outfall 002 recorded discharge in 4 quarters. Quarter 3 had a similar white settled/floating solid as Outfall 001-Basin 3. No other quarters had any indication of stormwater contamination.

3. For any four-sample (minimum) average benchmark monitoring exceedance, if after reviewing the selection, design, installation and implementation of your control measures and considering whether any modifications are necessary to meet the effluent limits in the permit, you determine that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, provide your rationale for why you believe no further reductions are achievable (see Part 6.2.1.2 of the permit). Enter "NA" if not applicable. *

NA

4. Provide a summary of your past year's corrective action documentation (See Part 4.4 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit. *

An investigation into the white floating solids was conducted however the source could not be identified. Subsequent visual analysis of Stormwater did not have the material. We will continue to monitor Stormwater and attempt to further identify a cause if the material is observed again.

SEMASS RRF Stromwater Pollution Prevention Plan

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. 40 CFR 122.22 (d)

Certifier E-Mail *

mdavis@covanta.com

Form Action *

Approve

MAR053704

2018 Annual Report

Facility Name: SEMASS RESOURCE RECOVERY FACILITY
Operator Name: COVANTA SEMASS
My Assigned Permissions: View, Edit, Sign, Manage

Details (JavaScript:)
← Return to Home

Details

NPDES FORM 6100-28		UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT	FORM Approved OMB No. 2040-0004

Permit Information

Report Year: 2018

NPDES ID: MAR053704

Facility Information

Facility Name: SEMASS RESOURCE RECOVERY FACILITY

Facility Point of Contact

First Name Middle Initial Last Name: Joseph Duggan

Organization:

Title:

Phone: 508-291-4435 **Ext.**

Email: jduggan@covanta.com

Facility Mailing Address

Address Line 1: 141 CRANBERRY HIGHWAY

Address Line 2:

City: ROCHESTER

ZIP/Postal Code: 02770

State: MA

County or Similar Division: PLYMOUTH

SEMASS RRF Stromwater Pollution Prevention Plan

General Findings

Provide a summary of your past year's routine facility inspection documentation (see Part 3.1.2 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.8.1 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2015." (Note: Operators of airport facilities that are complying with Part 8.S.8.1 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)

Four inspections were completed. Inspection findings included litter around the facility. These finding were corrected the day of the ins pection.

Provide a summary of your past year's quarterly visual assessment documentation (see Part 3.2.2 of the permit).

Outfall 001 & 002 both recorded discharges in all 4 quarters. None o f these discharges had any indication of stormwater contamination.

For any four-sample (minimum) average benchmark monitoring exceedance, if after reviewing the selection, design, installation, and implementation of your control measures and considering whether any modifications are necessary to meet the effluent limits in the permit, you determine that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, provide your rationale for why you believe no further reductions are achievable (see Part 6.2.1.2 of the permit). Enter "NA" if not applicable.

N/A

Provide a summary of your past year's corrective action documentation (See Part 4.4 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

SEMASS RRF is in full compliance with the applicable permits.

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Certified By: Joseph M. Duggan (JDUGGANSEMASS)

Certified On: 01/31/2019 2:23 PM

SEMASS RRF Stromwater Pollution Prevention Plan

NPDES FORM 6100-28	EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT	FORM Approved OMB No. 2040-0004

Permit Information

Report Year: 2019

NPDES ID: MAR053704

Facility Information

Facility Name: SEMASS RESOURCE RECOVERY FACILITY

Facility Point of Contact

First Name Middle Initial Last Name: Joseph Duggan

Phone: 508-291-4435 **Ext.:**

Email: jduggan@covanta.com

Facility Mailing Address

Address Line 1: 141 CRANBERRY HIGHWAY

Address Line 2:

City: ROCHESTER

ZIP/Postal Code: 02770

State: MA

County or Similar Division: PLYMOUTH

General Findings

Provide a summary of your past year's routine facility inspection documentation (see Part 3.1.2 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.8.1 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2015." (Note: Operators of airport facilities that are complying with Part 8.S.8.1 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)

Four inspections were completed. Inspections findings included minor litter and debris around the facility. These findings were corrected in a timely manner.

Provide a summary of your past year's quarterly visual assessment documentation (see Part 3.2.2 of the permit).

Outfall 001 & 002 both recorded discharges in all 4 quarters. None of these discharges had any indication of stormwater contamination.

For any four-sample (minimum) average benchmark monitoring exceedance, if after reviewing the selection, design, installation, and implementation of your control measures and considering whether any modifications are necessary to meet the effluent limits in the permit, you determine that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, provide your rationale for why you believe no further reductions are achievable (see Part 6.2.1.2 of the permit). Enter "NA" if not applicable.

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Provide a summary of your past year's corrective action documentation (See Part 4.4 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

SEMASS RRF is in full compliance with all it's applicable permits.

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the

information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Certified By: Joseph M. Duggan

Certifier Title: Environmental Specialist

Certifier Email: jduggan@covanta.com

Certified On: 01/22/2020 3:43 PM ET

SEMASS RRF Stromwater Pollution Prevention Plan

NPDES FORM 6100-28	EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT	FORM Approved OMB No. 2040-0004

Permit Information

Report Year: 2020

NPDES ID: MAR053704

Facility Information

Facility Name: SEMASS RESOURCE RECOVERY FACILITY

Facility Point of Contact

First Name Middle Initial Last Name: Joseph Duggan

Phone: 508-291-4435 **Ext.:**

Email: jduggan@covanta.com

Facility Mailing Address

Address Line 1: 141 CRANBERRY HIGHWAY

Address Line 2:

City: ROCHESTER

ZIP/Postal Code: 02770

State: MA

County or Similar Division: Plymouth

General Findings

Provide a summary of your past year's routine facility inspection documentation (see Part 3.1.2 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.8.1 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2015." (Note: Operators of airport facilities that are complying with Part 8.S.8.1 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)

Four inspections were completed. Inspection findings included litter around the facility. These findings were corrected the day of the inspection.

Provide a summary of your past year's quarterly visual assessment documentation (see Part 3.2.2 of the permit).

Outfall 001 & 002 both recorded discharges in all 4 quarters. None of these discharges had any indication of stormwater cont amination.

For any four-sample (minimum) average benchmark monitoring exceedance, if after reviewing the selection, design, installation, and implementation of your control measures and considering whether any modifications are necessary to meet the effluent limits in the permit, you determine that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, provide your rationale for why you believe no further reductions are achievable (see Part 6.2.1.2 of the permit). Enter "NA" if not applicable.

N/A

Provide a summary of your past year's corrective action documentation (See Part 4.4 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

SEMASS RRF is in fill compliance with all the applicable permits.

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Certified By: Joseph M. Duggan

Certifier Title: Environmental Specialist

Certifier Email: jduggan@covanta.com

Certified On: 01/22/2020 3:39 PM ET

Attachment L – Discharge monitoring reports

DMR Copy of Record

Permit					
Permit #:	**MAR053704**	**Permittee:**	COVANTA SEMASS	**Facility:**	SEMASS RESOURCE RECOVERY FACILITY
Major:	No	**Permittee Address:**	141 Cranberry Highway West Wareham, MA 02576	**Facility Location:**	141 CRANBERRY HIGHWAY ROCHESTER, MA 02770
Permitted Feature:	001 External Outfall	**Discharge:**	**001-O1** Steam Electric Generating Facilities		
Report Dates & Status					
Monitoring Period:	**From 01/01/16 to 03/31/16**	**DMR Due Date:**	**05/31/16**	**Status:**	**NetDMR Validated**
Considerations for Form Completion					
Principal Executive Officer					
First Name:	William	**Title:**	Environmental Scientist	**Telephone:**	508-291-4435
Last Name:	Campbell				
No Data Indicator (NODI)					
Form NODI:	--				

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample										=	0.15	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

COVANTA SEMASS

User:	wcampbell@covanta.com	Date/Time:	2016-03-24 16:36 (Time Zone: -04:00)
Name:	William Campbell		
E-Mail:	wcampbell@covanta.com		

DMR Copy of Record

Permit					
Permit #:	**MAR053704**	**Permittee:**	COVANTA SEMASS	**Facility:**	SEMASS RESOURCE RECOVERY FACILITY
Major:	No	**Permittee Address:**	141 Cranberry Highway West Wareham, MA 02576	**Facility Location:**	141 CRANBERRY HIGHWAY ROCHESTER, MA 02770
Permitted Feature:	001 External Outfall	**Discharge:**	**001-O1** Steam Electric Generating Facilities		
Report Dates & Status					
Monitoring Period:	**From 04/01/16 to 06/30/16**	**DMR Due Date:**	**08/31/16**	**Status:**	**NetDMR Validated**
Considerations for Form Completion					
Principal Executive Officer					
First Name:	William	**Title:**	Environmental Scientist	**Telephone:**	508-291-4435
Last Name:	Campbell				
No Data Indicator (NODI)					
Form NODI:	--				

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample										=	0.76	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
20160421-86137-Covanta-SEMASS-1.pdf	pdf	94354

Report Last Saved By

COVANTA SEMASS

User:	wcampbell@covanta.com	Date/Time:	2016-05-20 09:28 (Time Zone: -04:00)
Name:	William Campbell		
E-Mail:	wcampbell@covanta.com		

DMR Copy of Record

Permit					
Permit #:	**MAR053704**	**Permittee:**	COVANTA SEMASS	**Facility:**	SEMASS RESOURCE RECOVERY FACILITY
Major:	No	**Permittee Address:**	141 Cranberry Highway West Wareham, MA 02576	**Facility Location:**	141 CRANBERRY HIGHWAY ROCHESTER, MA 02770
Permitted Feature:	001 External Outfall	**Discharge:**	**001-O1** Steam Electric Generating Facilities		
Report Dates & Status					
Monitoring Period:	**From 07/01/16 to 09/30/16**	**DMR Due Date:**	**11/30/16**	**Status:**	**NetDMR Validated**
Considerations for Form Completion					
Principal Executive Officer					
First Name:	William	**Title:**	Environmental Scientist	**Telephone:**	508-291-4435
Last Name:	Campbell				
No Data Indicator (NODI)					
Form NODI:	--				

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample															
					Permit Req.										<=	1 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI											C - No Discharge				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Low water levels and dry weather caused water levels during the quarter to be about 20-30 ft below discharge

Attachments

No attachments.

Report Last Saved By

COVANTA SEMASS

User:	wcampbell@covanta.com	Date/Time:	2016-10-03 08:58 (Time Zone: -04:00)
Name:	William Campbell		
E-Mail:	wcampbell@covanta.com		

DMR Copy of Record

Permit					
Permit #:	**MAR053704**	**Permittee:**	COVANTA SEMASS	**Facility:**	SEMASS RESOURCE RECOVERY FACILITY
Major:	No	**Permittee Address:**	141 Cranberry Highway West Wareham, MA 02576	**Facility Location:**	141 CRANBERRY HIGHWAY ROCHESTER, MA 02770
Permitted Feature:	001 External Outfall	**Discharge:**	**001-O1** Steam Electric Generating Facilities		
Report Dates & Status					
Monitoring Period:	**From 10/01/16 to 12/31/16**	**DMR Due Date:**	**02/28/17**	**Status:**	**NetDMR Validated**
Considerations for Form Completion					
Principal Executive Officer					
First Name:	William	**Title:**	Environmental Scientist	**Telephone:**	508-291-4435
Last Name:	Campbell				
No Data Indicator (NODI)					
Form NODI:	--				

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample															
					Permit Req.										<=	1 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI											C - No Discharge				

Submission Note	
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.	
Edit Check Errors	
No errors.	
Comments	
No Discharge	
Attachments	
No attachments.	
Report Last Saved By	
COVANTA SEMASS	
User: wcampbell@covanta.com	Date/Time: 2017-01-31 14:40 (Time Zone: -05:00)
Name: William Campbell	
E-Mail: wcampbell@covanta.com	

DMR Copy of Record

Permit					
Permit #:	**MAR053704**	**Permittee:**	COVANTA SEMASS	**Facility:**	SEMASS RESOURCE RECOVERY FACILITY
Major:	No	**Permittee Address:**	141 Cranberry Highway West Wareham, MA 02576	**Facility Location:**	141 CRANBERRY HIGHWAY ROCHESTER, MA 02770
Permitted Feature:	002 External Outfall	**Discharge:**	**002-O1** Steam Electric Generating Facilities		
Report Dates & Status					
Monitoring Period:	**From 01/01/16 to 03/31/16**	**DMR Due Date:**	**05/31/16**	**Status:**	**NetDMR Validated**
Considerations for Form Completion					
Principal Executive Officer					
First Name:	William	**Title:**	Environmental Scientist	**Telephone:**	508-291-4435
Last Name:	Campbell				
No Data Indicator (NODI)					
Form NODI:	--				

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample										=	0.65	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1 MAXIMUM	19 - mg/L	1	01/90 - Quarterly	GR - GRAB
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

COVANTA SEMASS

User:	wcampbell@covanta.com	Date/Time:	2016-03-24 16:36 (Time Zone: -04:00)
Name:	William Campbell		
E-Mail:	wcampbell@covanta.com		

DMR Copy of Record

Permit

Permit #:	**MAR053704**	**Permittee:**	COVANTA SEMASS	**Facility:**	SEMASS RESOURCE RECOVERY FACILITY
Major:	No	**Permittee Address:**	141 Cranberry Highway West Wareham, MA 02576	**Facility Location:**	141 CRANBERRY HIGHWAY ROCHESTER, MA 02770
Permitted Feature:	002 External Outfall	**Discharge:**	**002-O1** Steam Electric Generating Facilities		

Report Dates & Status

Monitoring Period:	**From 04/01/16 to 06/30/16**	**DMR Due Date:**	**08/31/16**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	William	**Title:**	Environmental Scientist	**Telephone:**	508-291-4435
Last Name:	Campbell				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
X 01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample										=	6.28	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
01045	Iron, total [as Fe]	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes

Comments

Elevated result required action under the facilities SPCC Plan - investigation determined that an industrial well in the area was redeveloped the day preceding the test. This may have been a contributing factor to the exceedance of the iron standard due to high iron levels in groundwater from the well. Resampling including concurrent sampling in locations upstream will occur in the next storm event to determine if this was the cause of the exceedance or if other actions are required. Once the cause is determined additional controls will be included in the SPCC plan for the operation.

Attachments

Name	Type	Size
20160421-86137-Covanta-SEMASS-2.pdf	pdf	94886

Report Last Saved By

COVANTA SEMASS

User:	wcampbell@covanta.com	Date/Time:	2016-05-20 09:41 (Time Zone: -04:00)
Name:	William Campbell		
E-Mail:	wcampbell@covanta.com		

DMR Copy of Record

Permit					
Permit #:	**MAR053704**	**Permittee:**	COVANTA SEMASS	**Facility:**	SEMASS RESOURCE RECOVERY FACILITY
Major:	No	**Permittee Address:**	141 Cranberry Highway West Wareham, MA 02576	**Facility Location:**	141 CRANBERRY HIGHWAY ROCHESTER, MA 02770
Permitted Feature:	002 External Outfall	**Discharge:**	**002-O1** Steam Electric Generating Facilities		
Report Dates & Status					
Monitoring Period:	**From 07/01/16 to 09/30/16**	**DMR Due Date:**	**11/30/16**	**Status:**	**NetDMR Validated**
Considerations for Form Completion					
Principal Executive Officer					
First Name:	William	**Title:**	Environmental Scientist	**Telephone:**	508-291-4435
Last Name:	Campbell				
No Data Indicator (NODI)					
Form NODI:	--				

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample															
					Permit Req.										<=	1 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI											C - No Discharge				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Installation of flashboard riser and dry weather successfully limited discharge from this swale for this quarter.

Attachments

No attachments.

Report Last Saved By

COVANTA SEMASS

User:	wcampbell@covanta.com	Date/Time:	2016-10-03 09:01 (Time Zone: -04:00)
Name:	William Campbell		
E-Mail:	wcampbell@covanta.com		

DMR Copy of Record

Permit					
Permit #:	**MAR053704**	**Permittee:**	COVANTA SEMASS	**Facility:**	SEMASS RESOURCE RECOVERY FACILITY
Major:	No	**Permittee Address:**	141 Cranberry Highway West Wareham, MA 02576	**Facility Location:**	141 CRANBERRY HIGHWAY ROCHESTER, MA 02770
Permitted Feature:	002 External Outfall	**Discharge:**	**002-O1** Steam Electric Generating Facilities		
Report Dates & Status					
Monitoring Period:	**From 10/01/16 to 12/31/16**	**DMR Due Date:**	**02/28/17**	**Status:**	**NetDMR Validated**
Considerations for Form Completion					
Principal Executive Officer					
First Name:		**Title:**		**Telephone:**	
Last Name:					
No Data Indicator (NODI)					
Form NODI:	--				

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample										=	0.065	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
20161021-L1634266.pdf	pdf	925636

Report Last Saved By

COVANTA SEMASS

User:	wcampbell@covanta.com	Date/Time:	2016-11-04 10:00 (Time Zone: -04:00)
Name:	William Campbell		
E-Mail:	wcampbell@covanta.com		

Attachment M – Sampling results/DMRs

SEMASS RRF Stromwater Pollution Prevention Plan

Sample Location	Outfall 001	Outfall 002
Current Average	0.4485	0.132
Samples	4	4
Benchmark	1	1
Allowable	Complete	Complete

Date Sampled	Year	Quarter	Location	Result (mg/l)	Sample Number	Notes
12/15/2015	2015	4	Outfall 002	20.8	NA	High level believed to be coming from sand (High iron "Carver soils") following construction of swale and RR spur - used hay and netting to hold soils and germinate seeds (grass) to naturally hold soils
1/10/2016	2016	1	Outfall 002	0.64	-2	
1/15/2016	2016	1	Basin 2	1.25		Sample from Basin 2
1/15/2016	2016	1	Basin 3	0.28		Sample From Basin 3
3/10/2016	2016	1	Outfall 001	0.15	1	001 - First Sample*
4/12/2016	2016	2	Outfall 001	0.76	2	001 - Second Sample*
4/21/2016	2016	2	Outfall 002	6.28	-1	Exceeded Benchmark
5/30/2016	2016	2	SW-1	4.48		River
5/30/2016	2016	2	SW-2	2.83		Outfall 002
5/30/2016	2016	2	SW-3	1.85		Entrance of swale
5/30/2016	2016	2	SW-4	1.63		settling basin before pipe under loop road
5/30/2016	2016	2	SW-5	9.42		Grate near transformer - iron source belived to be the high iron soils removed from the well and high iron water from fire systems - Cleaned out drain with vac truck
5/30/2016	2016	2	SW-6	2.33		Swale near the ramp to PRF lounge
10/31/2016	2016	4	Outfall 002	0.065	1	002 - First Sample*
1/13/2017	2017	1	Outfall 002	0.189	2	002 - Second Sample*
3/31/2017	2017	1	Outfall 001	0.57	3	001 - Third Sample*
4/25/2017	2017	2	Outfall 002	0.142	3	002 - Third Sample*
4/25/2017	2017	2	Outfall 001	0.314	4	001 - Fourth Sample*
9/22/2017	2017	3	Outfall 002	0.132	4	002 - Fourth Sample*

*NOI Change Benchmark Sampling not required - 11/16/2017

Attachment N – Deviation/exceedance reports

DMR Copy of Record

Permit

Permit #:	**MAR053704**	**Permittee:**	COVANTA SEMASS	**Facility:**	SEMASS RESOURCE RECOVERY FACILITY
Major:	No	**Permittee Address:**	141 Cranberry Highway West Wareham, MA 02576	**Facility Location:**	141 CRANBERRY HIGHWAY ROCHESTER, MA 02770
Permitted Feature:	002 External Outfall	**Discharge:**	**002-O1** Steam Electric Generating Facilities		

Report Dates & Status

Monitoring Period:	**From 04/01/16 to 06/30/16**	**DMR Due Date:**	**08/31/16**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	William	**Title:**	Environmental Scientist	**Telephone:**	508-291-4435
Last Name:	Campbell				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
X 01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample										=	6.28	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
01045	Iron, total [as Fe]	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes

Comments

Elevated result required action under the facilities SPCC Plan - investigation determined that an industrial well in the area was redeveloped the day preceding the test. This may have been a contributing factor to the exceedance of the iron standard due to high iron levels in groundwater from the well. Resampling including concurrent sampling in locations upstream will occur in the next storm event to determine if this was the cause of the exceedance or if other actions are required. Once the cause is determined additional controls will be included in the SPCC plan for the operation.

Attachments

Name	Type	Size
20160421-86137-Covanta-SEMASS-2.pdf	pdf	94886

Report Last Saved By

COVANTA SEMASS

User:	wcampbell@covanta.com	Date/Time:	2016-05-20 09:41 (Time Zone: -04:00)
Name:	William Campbell		
E-Mail:	wcampbell@covanta.com		

Attachment O – Corrective action reports

Attachment P – Quarterly visual examination records

SEMASS RRF Stormwater Pollution Prevention Plan

MSGP Quarterly Visual Assessment Form

Facility Name:	SEMASS Resource Recovery Facility
NPDES Tracking No:	MAR053704

Discharge Information

Nature of Discharge	☑ Rain ☐ Snow
Date & Time Discharge Began	03/29/2020 ~2200
Rainfall Amount	1.4 Inches
>72 hours from Previous Storm Event (1)	☑ Yes ☐ No (Explain) _____

Sample Collection Information

Outfall Name - Outfall Loc.:	☑ 001 - Basin 3 ☐ 002 - Under Rail Tipper Track
Person Collecting Sample	☑ Joseph Duggan ☐ Other _____
Date & Time Collected	03/30/2020 0845
Substitute Sample	☑ No ☐ Yes (List Quarter) _____

Sample Examination Information

Person Examining Sample	☑ Joseph Duggan ☐ Other _____
Date & Time Examined	03/30/2020 1000
Color	☑ No ☐ Yes (Describe) _____
Odor	☑ None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other (Describe): _____
Clarity	☑ Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other _____
Floating Solids	☐ No ☑ Yes (Describe) Plant debris
Settled Solids(2)	☐ No ☑ Yes (Describe) Plant debris
Suspended Solids	☑ No ☐ Yes (Describe) _____
Foam (gently shake sample)	☑ No ☐ Yes (Describe) _____
Oil Sheen	☑ None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other (Describe) _____
Other Obvious Indicators	☑ No ☐ Yes (Describe) _____

1. The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
2. Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official
(Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name: _____ B. Title: _____

SEMASS RRF Stormwater Pollution Prevention Plan

MSGP Quarterly Visual Assessment Form

Facility Name:	SEMASS Resource Recovery Facility
NPDES Tracking No:	MAR053704

Discharge Information

Nature of Discharge	☑ Rain ☐ Snow
Date & Time Discharge Began	03/29/2020 ~ 2300
Rainfall Amount	1.4 Inches
>72 hours from Previous Storm Event (1)	☑ Yes ☐ No (Explain) _____

Sample Collection Information

Outfall Name - Outfall Loc.:	☐ 001 - Basin 3	☑ 002 - Under Rail Tipper Track
Person Collecting Sample	☑ Joseph Duggan ☐ Other _____	
Date & Time Collected	03/30/2020 0930	
Substitute Sample	☑ No ☐ Yes (List Quarter) _____	

Sample Examination Information

Person Examining Sample	☑ Joseph Duggan ☐ Other _____
Date & Time Examined	03/30/2020 1000
Color	☑ No ☐ Yes (Describe) _____
Odor	☑ None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other (Describe): _____
Clarity	☑ Clear ☑ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other _____
Floating Solids	☐ No ☑ Yes (Describe) Leaf + Plant debris
Settled Solids(2)	☐ No ☑ Yes (Describe) Leaf + Plant debris
Suspended Solids	☑ No ☐ Yes (Describe) _____
Foam (gently shake sample)	☑ No ☐ Yes (Describe) _____
Oil Sheen	☑ None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other (Describe) _____
Other Obvious Indicators	☑ No ☐ Yes (Describe) _____

1. The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
2. Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name: _____ B. Title: _____