

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

FOR THE

Greater Hartford Transit District (GHTD) Operations and Maintenance Facility

148 ROBERTS STREET, EAST HARTFORD CT 06108

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as amended July 2017



Prepared For:

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1.0 Introduction

The Greater Hartford Transit District (GHTD) Operations and Maintenance Facility, located at 148 Roberts Street, East Hartford is subject to the Connecticut Department of Energy and Environmental Protection (DEEP) “General Permit for the Discharge of Stormwater Associated with Industrial Activity” (the Permit) due to stormwater discharges from the facility and its Standard Industrial Classification (SIC) Code 9199 under Sector G: Transportation and Public Works, for Public Works Garages.

The facility is required to develop a Stormwater Pollution Prevention Plan (SWPPP) as part of the Permit which shall in part outline best management practices (BMPs) to be used on the site to minimize pollution in stormwater discharges, include records and documentation of compliance with the elements of the general permit, and shall be kept on-site at all times along with a copy of the Permit. The operator of permittee’s Operations and Maintenance Facility shall maintain compliance with the Permit and SWPPP thereafter.

This SWPPP has been prepared in accordance with the above-referenced Permit, effective October 1, 2016 and the “Guidance Document for Preparing a Stormwater Pollution Prevention Plan”, March 2011 as prepared by the Bureau of Materials Management and Compliance Assurance Water Permitting and Enforcement Division of DEEP. This SWPPP serves to integrate the facility's environmental documents and procedures in one place, and will assure that stormwater impacts are minimized to the greatest extent practicable. The SWPPP should be updated when there is a significant change in design, construction, operation, or maintenance of the Operations and Maintenance Facility that affects the discharge or potential discharge of pollutants (see Section 8.0).

This SWPPP will be made available in hardcopy at the GHTD Operations and Maintenance Facility to members of federal, state, or local agencies during normal working hours for review upon request. Copies of the SWPPP are accessible to all persons responsible for implementing and administering it (see Section 2.3).



2.0 Site Description and Contact Information

2.1 Facility Description

2.1.1 Facility Information

- Facility Name: GHTD Operations and Maintenance Facility
- Address: 148 Roberts Street, East Hartford CT, 06108
- Location (lat/lon): 41.7720, -72.6131
- Owner: Greater Hartford Transit District
- Operator: First Transit
- Primary SIC Code: 9199
- Classification: Sector G: Transportation and Public Works; Public Works Garages

2.1.2 Activities at the Facility

The GHTD Operations and Maintenance Facility, located at 148 Roberts Street, operates as a vehicle storage and maintenance center for paratransit services offered throughout the Greater Hartford area. The facility is generally used for vehicle storage, vehicle repair and maintenance, liquid petroleum and chemical storage, vehicle washing, fueling, and general administrative operations. The facility consists of approximately 4.8 acres (3.9 acres impervious) of area exposed to stormwater and generally includes a large impervious parking area, an enclosed two-story building with an attached roofed fueling area, stormwater BMP, and pervious landscaped perimeter areas and islands.

The building generally consists of several storage rooms and areas, a vehicle wash bay, a lube room storing most aboveground petroleum and chemical products, multiple repair bays, a machine shop, a welding room, and office areas. Exterior areas exposed to precipitation include a 10,000-gallon diesel aboveground storage tank (AST) used for fueling onsite vehicles and equipment, a 600-gallon diesel-powered generator with an integrated diesel AST, a transformer containing non-pcb dielectric oil, a dumpster, and general vehicle storage (see Section 3.0).

Although owned by GHTD, all facility operations are conducted by GHTD's subcontractor, First Transit. As such, First Transit is responsible for Permit compliance and implementation of all SWPPP components, including best management practices, corrective actions, spill response, reporting, inspections, recordkeeping, training, and maintenance of stormwater control measures.

2.2 General Location Map

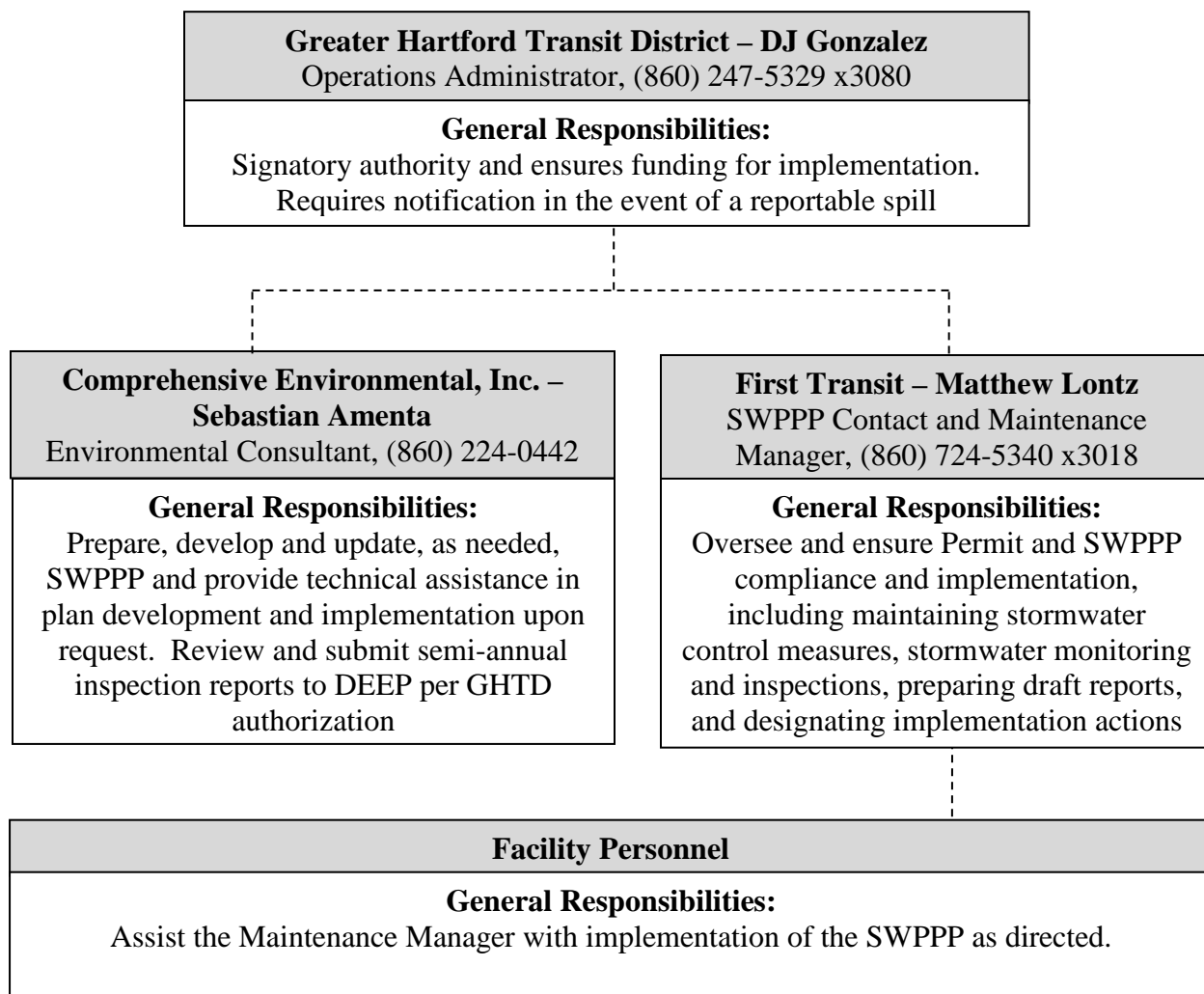
The site is located in an industrial area of town and bordered by wetlands and CJ Welding LLC to the east, Roberts Street to the south, Eastern Partners LLC to the west, and wetlands and Hockanum River to the north. A general location map identifying the location of the facility and all receiving waters to which stormwater discharges is provided as **Figure 1**.



2.3 Pollution Prevention Team

The stormwater pollution prevention team is responsible for implementing the best management practices (BMPs), stormwater control measures, monitoring and inspection procedures, and other measures outlined in this SWPPP. Team members are shown on the following team organization chart (**Figure 2**) which outlines the responsibility of each team member.

Figure 2: Pollution Prevention Team Organizational Chart



Note that the Maintenance Manager is either present at the facility or on call during all operational shifts.

All members of the stormwater pollution prevention team have ready access to a hardcopy of this SWPPP, and an electronic version of the Permit at the following location:

- http://www.ct.gov/deep/lib/deep/water_regulating_and_discharges/stormwater/industrial/160809_industrial_stormwater_general_permit_as-is_renewal_final.pdf



3.0 Potential Pollution Sources

3.1 Site Map

The facility plan is shown on **Figure 3** with the following applicable site features:

- A north arrow and property lines;
- Location of existing buildings and structures;
- Site size, amount of impervious area on the site and contributing to each drainage outfall;
- An outline of each outfall's drainage area and direction of flow within the drainage area;
- Structural control measures installed to reduce pollutants in stormwater runoff;
- Stormwater conveyances including catch basins, ditches, pipes, and swales;
- Identification and extent of any wetlands to which stormwater discharges;
- Identification of the receiving surface waterbodies to which the site discharges, including impaired waters, and those with a Total Maximum Daily Loads (TMDL);
- Locations of all stormwater monitoring points, including latitude and longitude; and
- Locations of activities that are exposed to precipitation.

In addition, Sector-specific requirements for Sector G – Transportation and Public Works Facilities requires the following items to be shown on the facility plan:

- Fueling stations;
- Vehicle/equipment maintenance or cleaning areas;
- Storage areas for vehicle/equipment with actual or potential fluid leaks;
- Loading/unloading areas;
- Areas where treatment, storage or disposal of wastes occur;
- Liquid storage tanks;
- Processing areas; and
- Storage areas.

Note that this facility does not have any discharges to the municipal separate storm sewer system (MS4), discharges to groundwater through an infiltration system, areas where drainage run-on enters the site, or any aircraft de-icing areas, or salt storage areas. Additionally, this facility does not have areas where major spills or leaks have occurred

3.2 Inventory of Exposed Areas and Summary of Pollutant Sources

Table 1 outlines exposed materials and activities, and potential pollutant exposure that may occur. All areas exposed to stormwater are also shown on Figure 3 provided at the end of this SWPPP.



Table 1 – Inventory of Exposed Materials and Summary of Potential Pollutant Sources

Area #	Activity and Description of Storage	Potential Pollutants	Location	Outfall #	Extent of Exposure and Control Measures used to minimize exposure	Stormwater Runoff Treatment
1	Dumpster	Floatables	Near northeast corner of building	Outfall 1	Closed when not in use; located on concrete pad.	Deep sump catch basins & oil/water separator hoods. Flows to sediment forebay and detention basin at the north end of the site.
2	10,000-gallon diesel fuel AST	Diesel fuel	Near northwest corner of building	Outfall 1	Double-walled; equipped with overfill tank alarm, overfill prevention valve, interstitial alarm, and Veedor Root monitoring system; spill kit	
3	600-gallon diesel fuel emergency generator AST	Diesel fuel	Near northwest corner of building	Outfall 1	Double-walled; located on concrete pad	
4	400-gallon transformer	Dielectric oil (non-PCB)	Near southwest corner of building	Outfall 2	Located on concrete pad; oil-filled operational equipment.	Deep sump catch basins & oil/water separator hoods.
5	Loading Area	Fuels, fluids, lubricants, antifreeze, particulates, etc.	Northern wall of the building	Outfall 1	Sweeping conducted twice per year.	Deep sump catch basins & oil/water separator hoods. Flows to sediment forebay and detention basin at the north end of the site.
6	Vehicle storage and general operations	Fuels, fluids, lubricants, antifreeze, particulates, etc.	Parking lot paved areas	Outfalls 1 & 2	Sweeping conducted twice per year; disabled vehicles out of service for more than 2 weeks will have drip pans placed below them and regularly inspected; maintenance done indoors.	Deep sump catch basins & oil/water separator hoods (all outfalls). Flows to sediment forebay and detention basin at the north end of the site (outfall 1 only).



Note that a number of other aboveground storage tanks and 55-gallon drums are located indoors within the Lube Room. Materials stored in this area is not exposed to precipitation, as it is located indoors and equipped with spill barriers at all doors, designed to automatically activate once full of liquid. This facility also has a Spill Prevention, Control, and Countermeasures (SPCC) Plan which covers these areas.

3.3 Spills and Leaks

The general permit requires that all spills and leaks of five gallons or more of petroleum products, or of toxic or hazardous substances, that occurred at the facility within the past three (3) years must be included in the SWPPP.

There have been no spills or leaks at the facility of this magnitude within the past three (3) years. **Appendix A** provides a form for tracking spills and leaks that may occur.

3.4 Presence of Non-Stormwater Discharges

Discharges of all non-stormwater flows are prohibited with the exception of certain flows described below:

- Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
- Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
- Uncontaminated groundwater or spring water; and/or
- Water sprayed for dust control or at a truck load wet-down station.

Facility personnel regularly inspect outfalls as part of quarterly inspections outlined in Section 6.2. Both Outfall 1 and Outfall 2 were visually inspected on April 7, 2017 for the presence of dry weather flow that could indicate the possibility of non-stormwater discharges. Both outfalls exhibited no discernable flow, indicating that there were no non-stormwater discharges present. Additionally, a detailed plan review and facility walk-through of both indoor and outdoor activities was conducted concurrent with the outfall inspection and no sources of non-stormwater flow were identified. See **Appendix B** for a certification by a professional engineer registered in Connecticut.

3.5 Impaired Waters

Impaired waters are waterbodies that have been assessed by DEEP as not meeting Connecticut's Water Quality Standards for a given designated use and must be prioritized for Total Maximum Daily Load (TMDL) development. The GHTD Operations and Maintenance Facility discharges to the Hockanum River, further defined as waterbody segment number CT4500-00_01. As outlined in the Connecticut 2016 Section 305(b) and 303(d) Integrated Water Quality Report, this segment is covered under the Connecticut Statewide Total Maximum Daily Load (TMDL) for Bacteria Impaired Waters, prepared in August of 2011. This segment of the Hockanum River is subject to an average E.coli reduction of 48%.



According to the general permit, “for stormwater discharges to waters for which there is an established TMDL, the permittee is not required to monitor for any indicator pollutant identified in the TMDL unless informed in writing by the DEEP”. There is an established bacteria TMDL for Hockanum River, and this facility has not been targeted for bacteria or E.coli analysis. Therefore, this outfall is not subject to any indicator pollutant monitoring. Note that areas exposed to stormwater at this facility are not expected to contribute elevated E.coli to the Hockanum River.



4.0 Stormwater Control Measures

Control measures are structural or non-structural practices used to prevent or minimize the discharge of pollutants in stormwater. For this facility, a combination of management procedures, structural controls, and employee training is used to provide effective stormwater management.

4.1 Good Housekeeping

Good housekeeping practices are used throughout the site to keep exposed areas of the site clean, with all tasks performed by First Transit unless otherwise noted, and include:

- Maintaining a clean and orderly work area during daily operations;
- Routine collection of solid waste materials for offsite disposal;
- Twice-yearly sweeping of sanded non-porous pavement and vacuuming porous pavement annually (by GHTD or subcontractor);
- Conducting inspections on a monthly, quarterly, and semi-annual schedule as outlined in Section 6.2 for areas exposed to stormwater;
- Cleaning up spills, drips, and leaks immediately;
- Performing all maintenance indoors in the service area bays;
- Performing fueling undercover;
- Performing all vehicle washing indoors, with rinse water flowing through an oil/water separator and ultimately discharging to the sanitary sewer system;
- Keeping vehicles and equipment in good repair and cleaning up drips promptly;
- Confining most liquid storage tanks to a specific indoor area (the Lube Room); and
- Using drip pans beneath disabled vehicles that will be out of service for more than 2 weeks.

4.2 Vehicle or Equipment Washing

Vehicle and equipment washing is conducted indoors, with rinse water collected and recycled for reuse. Additional water or discharges flow through an oil/water separator before being discharged to the sanitary sewer system. This facility has obtained a certification from The Metropolitan District (MDC) General Permit for the Discharge of Vehicle Maintenance Wastewater to a Sanitary Sewer as provided in **Appendix C**.

4.3 Floor Drains

Floor drains are present throughout the building interior. All floor drain connections flow through an oil/water separator before being discharged to the sanitary sewer system as permitted under the certification provided in Appendix C.

4.4 Roof Areas

There are no roof areas subject to excessive drippage, dust or particulates from exhaust or vents



that need to have additional control measures implemented. As an additional protection measure, the ventilation system is connected to a filtration system that removes dust and other particulates before being released to the atmosphere, and filters are periodically replaced as needed depending on debris accumulation. Note that operations conducted inside the building do not generate any additional air pollution than would occur during normal outdoor vehicle operations.

4.5 Minimize Exposure

Most industrial equipment and operations are conducted indoors in order to minimize or eliminate exposure to precipitation. This includes all maintenance and repair, vehicle fueling, vehicle washing, and storage of most oil and chemical products. Items stored outdoors (i.e. 10,000-gallon diesel AST, emergency generator, transformer, dumpster, etc.) must be located outside for various reasons, including space, safety, and general operational requirements.

The dumpster is fenced in and closed when not being actively utilized or emptied. Diesel ASTs located outside are double-walled and equipped with various alarms to reduce the likelihood of exposure to stormwater. The exception is the transformer, however this is considered oil-filled operations equipment under SPCC requirements. Since this equipment is typically not filled, the likelihood of exposure to precipitation is minimal. Note that many of these activities are located at the top of the watershed catchment area, thereby maximizing the distance that must be traveled before being released into the environment.

4.6 Sediment and Erosion Control

Potential areas subject to sediment accumulation include impervious asphalt surfaces, and to a lesser extent, pervious asphalt surfaces due to incidental track-on from vehicles. Controls used to minimize offsite discharge of sediment include:

- Sweeping impervious parking areas approximately twice per year (by GHTD or subcontractor);
- Vacuuming pervious parking areas approximately once per year (by GHTD or subcontractor);
- Inspecting catch basins as outlined in Section 5.0 and cleaning as needed to remove sediment, maintain capacity, and effectiveness (by First Transit or subcontractor);
- Outfalls are equipped with riprap pads which are periodically cleaned to remove sediment accumulation (by First Transit or subcontractor); and
- The stormwater detention basin is equipped with a sediment forebay that is inspected throughout the year and maintained as needed. This area is also equipped with a maintenance access road to allow access to both the sediment forebay and detention basin (by First Transit or subcontractor).

Potential areas subject to erosion are limited to the stormwater outfalls present onsite. Controls used to minimize erosion include:

- Outfalls are equipped with riprap pads to reduce erosion and sedimentation potential (by First Transit or subcontractor); and
- Monitoring outfalls as part of the inspection program outlined in Section 5.0 to determine



if excess erosion is present (by First Transit or subcontractor).

Note that there are no stockpiles of sand or salt stored at this facility.

4.7 Management of Runoff

The site has been designed with extensive structural best management practices for controlling and managing stormwater runoff, including the following:

- Catch basins with deep sumps and oil/water separator hood (ADS EnviroHood details provided in **Appendix D**);
- Sediment forebay for pretreatment;
- Detention basin with outlet control structure to manage stormwater flows offsite;
- Riprap pads at outfalls; and
- Pervious pavement with underdrain system.

Stormwater from the north portions of the site is collected in a series of deep sump catch basins equipped with oil/water separator hoods before being conveyed into sediment forebay and detention pond with attached underground storage area located at the northeast corner of the parking lot. This stormwater BMP is designed to first allow sediment to settle out in the sediment forebay, both improving water quality and facilitating easier maintenance. Stormwater then flows into a detention pond, with water levels controlled by an outlet control device that regulates stormwater flows in order to reduce peak flow rates and volumes. Stormwater is allowed to pond within the basin and within an underground storage system located immediately adjacent under the northern parking lot area before ultimately being released to the wetland area north of the site via Outfall 1 towards the Hockanum River, equipped with riprap for erosion control protection. This outfall does not discharge directly to the river, instead releasing approximately 500 feet short of the river.

Stormwater from the southern portion of the site is collected in a series of deep sump catch basins equipped with oil/water separator hoods, as well as via an underdrain installed below a section of porous pavement. The system conveys stormwater into a catch basin to the east of the building which then outlets northeasterly via Outfall 2 and into the wooded area east of the site.

Note that there are no offsite areas with runoff onto this site, areas which contribute runoff to the municipal separate storm sewer system, or areas that infiltrate into the ground. As noted previously, all interior floor drains and vehicle wash areas pass through an oil/water separator and into the municipal sewer system.

4.8 Preventative Maintenance

The facility performs a number of preventative maintenance best management practices, including performing vehicle repairs and maintenance indoors to help prevent leaks, spills, and other possible releases of pollutants. Additionally, First Transit will ensure that vehicles that will be out of service for more than 2 weeks will have drip pans placed below them and regularly inspected. Incidental spills and leaks cleaned as per Section 4.9.



The following is a schedule of preventative maintenance inspections and activities performed regularly onsite, with all tasks performed by First Transit unless otherwise noted:

- All industrial areas noted in Section 3.0 are inspected monthly as noted under Section 5.2, including outdoor ASTs, dumpster, and vehicle parking areas;
- The dumpster is fenced in and regularly emptied to minimize the potential for windblown trash and debris accumulation;
- Catch basins are inspected monthly for sediment accumulation as noted under Section 5.2 and periodically cleaned as needed to maintain proper stormwater flow;
- Outfalls are inspected monthly as noted under Section 5.2 for excessive erosion or other problems;
- The stormwater detention basin and sediment forebay are inspected monthly as noted under Section 5.2, with maintenance performed as needed to ensure proper operation;
- Impervious asphalt areas are swept twice per year to remove sediment accumulation and buildup, and pervious parking areas are vacuumed once per year (by GHTD or subcontractor);
- The fenced perimeter and other areas of the site are inspected twice per year for the presence of excessive windblown trash, with removal performed as needed.
- Employees receive annual training within 90 days of employment and at least once per year.

All monthly inspections are tracked using a standard form as outlined under Section 5.2.

4.9 Spill Prevention and Response Procedures

Spill prevention and response procedures are used to minimize the potential for leaks, spills and other releases. Note that this facility also has an SPCC Plan, however information applicable to this SWPPP is contained in the following sections.

4.9.1 AST Containment

Liquids stored outside include the 10,000-gallon diesel AST used for vehicle fueling, 600-gallon diesel AST integrated within the base of the emergency generator, and the 400-gallon non-pcb transformer located in front of the building. These ASTs are equipped with a number of controls and procedures to prevent and quickly respond to spills from these areas.

The following items are examples of practices used at the facility:

- Both diesel ASTs are double-walled;
- The 10,000-gallon AST tank gauges are monitored to detect changes in diesel volume;
- A spill kit is located adjacent to the 10,000-gallon diesel AST;
- All containers are properly labeled such that personnel can quickly respond to a spill;
- ASTs are secured at all times when not being actively filled;
- All ASTs are surrounded by bollards to protect against a possible vehicle strike;



- Diesel AST refueling is performed on impervious surfaces with the delivery driver actively attending the transfer; and
- Fueling of vehicles is performed under cover in an area not exposed to stormwater. In the event of a spill in this area, diesel fuel will flow to an oil/water separator and ultimately to the sanitary sewer system.

Table 2 – Large Capacity Storage Containers Exposed to Precipitation (≥55 Gallons)

Material	Size	Type of Storage	Destination in the Event of a Spill
Diesel fuel	10,000 gallons	AST	Concrete pad. Overflow to surrounding pervious area and infiltrate into ground; large flows to northeastern catch basin CB-7, then Outfall 1
Diesel fuel	600 gallons	AST, integrated within Emergency generator	Concrete pad. Overflow to surrounding pervious area and infiltrate into ground; large flows to northeastern catch basin CB-7, then Outfall 1
Dielectric oil	400 gallons	Transformer	Concrete pad. Overflow to surrounding pervious area and infiltrate into ground; large flows to northeastern catch basin CB-3, then Outfall 2.

Note that additional liquid products are stored indoors in the Lube Room which is equipped with an automatically activated spill containment system, however this area is not exposed to precipitation and thus are not regulated under this SWPPP. A spill kit is also located within this room which may be used to respond to exterior spills, in addition to the spill kit adjacent to the 10,000-gallon diesel AST.

4.9.2 Dumpsters

The dumpster is located within a fenced enclosure, is watertight, and covered with a lid at all times when not being actively loaded or unloaded. Note that this dumpster receives only typical solid waste, and thus liquids are expected to be minimal.

4.9.3 Loading Docks

This facility is not equipped with a loading dock, however does have a loading area where trucks may enter inside the building. Pollutant sources in this area are equivalent to those associated with general vehicle operations, storage, and transit.

4.9.2 Spill Response Measures

Spill Response Equipment:

The facility is equipped with two spill response kits, consisting of absorbent material such as Speedi-dry. Kits are located near the 10,000-gallon diesel fuel AST and within Lube Room as shown on Figure 3. Additional examples of spill response equipment available to on-site



personnel to use during cleanup efforts are shown in **Table 3**.

Table 3 – Spill Response Equipment

Safety Equipment	Spill Response Equipment and Supplies	
<ul style="list-style-type: none">• Gloves• Boots• Safety goggles• Fire extinguishers	<ul style="list-style-type: none">• Overpack drums and containers• Plastic bags• Shovels	<ul style="list-style-type: none">• Push brooms• Duct tape• Granular absorbent

Spill Response Procedures:

In the event of a spill, personnel must immediately identify the character, source, amount, and destination of released material. Spills may generally be classified as follows:

- 1. Minor Spill –** Minor spills are small in nature that personnel can easily respond to using available spill control materials and training. Spills of this nature occur on an impervious surface with no release to ground or surface waters. Examples include drips or small overfill from ASTs, a small overturned container, etc.
- 2. Moderate Spill –** Moderate spills are spills that personnel may or may not be able to respond to without assistance depending on the circumstances. Spills of this nature may take place outside, or have the potential for entering surface waters or soils if immediate action is not taken. Examples include rupture of a partially full 55-gallon drum or ruptured fuel line from a vehicle.
- 3. Emergency Spill –** Emergency spills are spills that personnel cannot respond to without outside assistance. Spills of this nature are either very large or consist of a release to a surface water. Examples include a ruptured AST or large spill from equipment into a surface water or stormwater system.

Personnel should generally respond to spills as follows:

Minor Spill Response Procedures

- Step 1 – Remove unnecessary people from the spill area;
- Step 2 – Assess the spill;
- Step 3 – Collect the necessary spill response equipment and put on safety equipment;
- Step 4 – Stop the spill source by up righting containers, plugging holes, placing leaking containers into compatible larger ones, etc.;
- Step 5 – Clean up spilled material by placing absorbent material down gradient of the spill flow path, confining the spill to the smallest area possible and soaking up the spill using absorbent materials;
- Step 6 – Collect, label, store, and properly dispose of used absorbent;



- Step 7 – Add an entry to the Spills and Leak Reporting Log in Appendix A; and
- Step 8 – Notify the appropriate agency as outlined in Section 4.9.3.

Moderate and Emergency Response Procedures

- Step 1 – Immediately contact the local Fire Department by calling 911;
- Step 2 – Take measures to limit the spill from spreading or entering environmental resources such as soil, surface water or groundwater without endangering personal welfare.

4.9.3 Spill Notification Procedures

Persons witnessing a spill or discharge must immediately contact the Maintenance Manager. Spills or discharges that pose a potential threat to human health or the environment must immediately notify DEEP and the National Response Center (NRC). Personnel should also contact the Fire Department by calling 911 if needed.

Personnel performing reporting must be prepared to provide the following information at the time of notification:

- Name and address of the site;
- Name and address of the site owner;
- Name, address, and relationship of the contact person to the owner;
- Type and amount of material spilled;
- Date, time and duration of spill;
- Possible dangers to health or the environment;
- Distance to the nearest surface water or catch basin;
- Cause of the incident and how the incident was detected; and
- Description of emergency response actions taken.

4.10 Employee Training

All employees on the Pollution Prevention Team, those who are responsible for implementing SWPPP-related activities, and employees who work in areas where industrial materials or activities are exposed to stormwater receive training within ninety (90) days of employment and then on an annual basis to familiarize personnel with the SWPPP and its control measures. Training is completed online and is supervised by a member of the Pollution Prevention Team, and will include some or all of the following topics based on specific position and job responsibilities:

- Applicable Pollution Control Laws, Rules and Regulations.
- Contents and goals of the SWPPP.
- Types of regulated materials at the facility and locations, including:
 - Oils;
 - General wastes;
 - Other fluids and materials.
- Good housekeeping, handling, storage, and pollution prevention techniques, including:



- General facility practices;
- Maintenance of a clean and orderly work area;
- Orderly storage and labeling of all materials;
- Proper material handling;
- Material storage methods and locations; and
- Waste container filling methods and procedures.
- Spill prevention and response procedures including:
 - Storage locations;
 - Spill pathways and scenarios;
 - Spill prevention procedures and BMPs;
 - Spill discovery and response management; and
 - Emergency equipment location.
- Facility inspections and monitoring, including:
 - Outfall locations;
 - Inspection and monitoring procedures;
 - Frequency and types of inspections; and
 - Reporting and documentation requirements.
- Other Topics as Deemed Necessary.

Records of employee training are maintained, and an employee training form is provided in **Appendix E**.

4.11 Non-Stormwater Discharges

Currently, there are no non-stormwater discharges from the Operations and Maintenance Facility as noted in Section 3.4. Ongoing monthly inspections include inspecting various components of the stormwater drainage system, including catch basins and outfall pipes. One component of these inspections is evaluating the presence of non-stormwater discharges. All monthly inspections and results are documented as outlined in Section 5.2. Any suspect non-stormwater discharges will be further evaluated, such as through dye testing.

4.12 Solid De-icing Material Storage

Salt or other de-icing materials are not stored at this facility.

4.13 Discharges to Impaired Waters

The GHTD Operations and Maintenance Facility discharges to the Hockanum River, further defined as waterbody segment number CT4500-00_01. Stormwater controls to reduce pollution potential to the Hockanum River include deep sump catch basins with oil/water separators, sediment forebay for pretreatment, detention basin with an outlet control structure to regulated peak flows and volumes, and outfall pipe equipped with riprap to reduce erosion potential. These control measures are periodically inspected as outlined in Section 5.0, with maintenance performed as needed. See Section 3.5 for more discussion of discharges to impaired waters.



4.14 Sites Discharging to Municipal Separate Storm Sewer System

This facility does not have any discharges to the municipal separate storm sewer system (MS4).

4.15 Additional Control Measure Requirements by Sector

The general permit outlines several sector-specific requirements, which apply to Subsector G – Transportation and Public Works. These requirements apply to:

- Vehicle and Equipment Storage;
- Fueling Areas;
- Vehicle and Equipment Cleaning and Maintenance Areas;
- Employee Training;
- Deicing Material Storage; and
- Aircraft Deicing Operations.

Compliance with these limits at the GHTD Operations and Maintenance Facility is described below.

4.15.1 Vehicle and Equipment Storage Areas

The GHTD takes steps to minimize the potential for stormwater exposure to leaky or leak-prone vehicles/equipment awaiting maintenance. Vehicles that are awaiting repair are generally stored outside of the building, and repairs are typically performed within 1 to 2-weeks' time. Vehicles that will be out of service for more than 2 weeks will have drip pans placed below them and regularly inspected. Additionally, the pavement surfaces of vehicle and equipment storage areas are swept twice per year.

4.15.2 Fueling Areas

The facility's fueling station is a roofed area which prevents stormwater exposure except for incidental, wind-blown rain. The trench drains located within the bay are connected to an onsite oil-water separator, which will treat any incidental stormwater runoff or precipitation dripping off vehicles before discharging to the sanitary sewer system.

The outdoor 10,000-gallon diesel AST is double walled and equipped with an overfill tank alarm, overfill prevention valve, and interstitial sensor Veedor Root system. There is a spill kit located near the AST that contains spill/overflow protection and cleanup equipment. Note that all vehicle fueling is performed under cover within the fueling station.

4.15.3 Vehicle and Equipment Cleaning Areas

Vehicle washing is performed in the wash bays, which are enclosed areas within the building and not are exposed to stormwater. All wash water is collected through trench drains which flow to a water reclamation system which recycles water for continued use. Non-recycled material flows to the oil/water separator and ultimately the sanitary sewer system.



4.15.4 Vehicle and Equipment Maintenance Areas

Vehicle maintenance is performed in the repair bays, which are enclosed areas within the building and are not exposed to stormwater. Liquid product (i.e. oil, transmission fluid, etc.) used in the shop are transferred from the Lube Room via a pressurized system and dispensed via clearly-labeled reel banks. The floor drains located next to each bay door are connected to the oil/water separator and ultimately the sanitary sewer system.

4.15.5 Employee Training

The GHTD will train personnel within 90 days of employment and at least once a year in accordance with Section 4.10, and address the following activities, as applicable: used oil and spent solvent management; fueling procedures; general good housekeeping practices; proper painting procedures; and used battery management.

4.15.6 Liquid De-Icing Material Storage

There are no liquid de-icing materials stored at this facility.

4.15.7 Aircraft De-Icing Operations

There are no aircraft de-icing operations performed at this facility.

4.14.8 Additional Plan Requirements

Additional control measures required by Sector G, including additional site map components, potential pollutant sources, good housekeeping measures, vehicle washwater, and inspection requirements are documented throughout this SWPPP. Note that there are no additional monitoring requirements or parameters required for this facility.



5.0 Inspections

Inspections must be performed to ensure that management practices and control measures are being implemented correctly and effectively, and determine whether additional measures or changes to existing measure are required. The GHTD Operations and Maintenance Facility will conduct two types of inspections:

1. Semi-annual comprehensive site inspections; and
2. Routine monthly inspections.

All inspections are completed online using EiOS software via the Strata Environmental website.

5.1 Semi-Annual Comprehensive Site Inspections

Semi-annual inspections shall be performed by the Maintenance Manager twice per year:

- Spring: April 1 through June 30
- Fall: October 1 through December 31

Note that the above will generally be performed concurrent with visual and/or analytical monitoring outlined under Section 6.0. Prior to performing the inspection, the Maintenance Manager shall review the following documents, as applicable:

- The current SWPPP; and site map;
- Routine inspection reports conducted within the past year;
- Visual monitoring reports conducted within the past year
- Analytical stormwater monitoring conducted within the past year; and
- Other documentation such as maintenance records, spill reports, etc.

A standard facility inspection form (**Appendix F**) will be taken into the field and completed for each inspection, with inspections conducted during rainfall events if possible. Specific areas to be inspected are outlined in Section 3.0 and include:

- Material handling, storage areas, and other potential sources of pollution, including:
 - Storage areas for vehicles/equipment awaiting maintenance;
 - Fueling areas;
 - Outdoor vehicle/equipment maintenance areas;
 - Material storage areas; and
 - Loading/unloading areas.
- Stormwater infrastructure, including catch basins, outfalls, and BMPs;
- Spill response equipment; and
- Vehicle storage, maintenance and repair areas.

Inspection reports prepared following semi-annual inspections will be submitted to Comprehensive Environmental Inc. (CEI) for review and submittal to DEEP. Final copies shall be retained as part of the SWPPP for at least five years after the date of the inspection. The inspection report will provide the following information:



- Inspection date;
- Name(s) and title(s) of the inspector(s);
- Weather information for the day(s) of the inspection;
- All findings and major observations, including:
 - Previously unidentified discharges from the site;
 - Evidence of/the potential for pollutants entering the drainage system;
 - Evidence of pollutants discharging to receiving waters at all facility outfalls, and the condition or and around the outfalls;
 - Status of control measures (are any in need of maintenance, repair or replacement); and
 - Any incidents of non-compliance observed.
- Additional control measures or other actions needed to address conditions requiring corrective action identified during the inspection and a schedule; and
- Any required revisions to the SWPPP resulting from the inspection.

See Appendix F for the semi-annual site inspection checklist.

5.2 Routine Monthly Inspections

Routine visual monthly inspections shall be performed by the Maintenance Manager. A standard facility inspection form will be taken into the field and completed for each inspection.

Inspections will be conducted during rainfall events if possible. Applicable general and Sector G-specific inspection requirements include the following areas:

- Solid waste dumpster (Area #1)
- Material storage areas (Areas #2, #3, and #4);
- Storage areas for vehicles/equipment awaiting maintenance (Area #5);
- Loading/unloading areas (Area #6);
- Fueling areas/stations; and
- Stormwater infrastructure, including catch basins, outfalls, BMPs, and impervious areas.

Records of routine monthly inspections will be prepared and maintained as part of the SWPPP. In addition to the information outlined above, the inspection report will provide the following:

- The date of the inspection;
- The name(s) and title(s) of the inspector(s);
- Weather information for the day(s) of the inspection;
- Any evidence of previously unidentified discharges or evidence of pollutant discharge;
- Status of stormwater control measures (i.e. any in need of maintenance, repair, or replacement); and additional control measures needed to comply with the Permit;
- Incidents of non-compliance observed; and
- Any required revisions to the SWPPP resulting from the inspection

Any appropriate actions required in response to the inspections should be tracked for follow-up by the Maintenance Manager. See **Appendix G** for the monthly site inspection checklist.



6.0 Schedules and Procedures for Monitoring

The general permit requires both a visual assessment and analytical testing of stormwater discharges in order to provide a qualitative and quantitative indicator of how well the facility's stormwater control efforts are working.

6.1 Quarterly Visual Monitoring

Visual monitoring must be conducted by the Maintenance Manager quarterly, or four times per year on samples taken from Outfall 1 and Outfall 2 (see Section 3.1) during a storm event:

- Winter: January 1 through March 30
- Spring: April 1 through June 30
- Summer: July 1 through September 30
- Fall: October 1 through December 31

Staff shall collect one grab sample from each outfall starting within the first thirty (30) minutes of flow at the sampling location during a storm event that occurs at least 72 hours after any previous storm event that generated a stormwater discharge. Note that for Outfall 1 which discharges through a detention basin, the sample shall be taken at the discharge from the basin. See Figure 3 for outfall locations.

Samples will be evaluated based on several visual parameters to ensure stormwater discharges are free from objectionable characteristics that may indicate that existing control measures are not adequate or not being properly operated and maintained. Samples shall be collected in a clean, clear glass or plastic container, and evaluated in a well-lit area using the form provided in **Appendix H** for the following items:

- Color;
- Odor;
- Clarity;
- Floating solids;
- Settled solids;
- Foam;
- Oil Sheen; and/or
- Other obvious indicators of stormwater pollution.

Visual monitoring records will be prepared and maintained as part of the SWPPP using the form provided in Appendix H. Note that the above will generally be performed concurrent with visual and/or analytical monitoring outlined under Section 6.0.

6.2 Analytical Monitoring

Analytical monitoring shall be performed by the Maintenance Manager twice per year:

- Spring: April 1 through June 30
- Fall: October 1 through December 31



Analytical monitoring will be conducted twice per year on samples taken from Outfall 1 and Outfall 2 (see Section 3.1 and Figure 3) during a storm event. Monitoring parameters are as follows:

- Chemical Oxygen Demand (mg/l);
- Total Oil and Grease (mg/l);
- pH (S.U.) of the discharge;
- pH of uncontaminated rainfall;
- Total Suspended Solids (mg/l);
- Total Phosphorus (mg/l);
- Total Kjeldahl Nitrogen (mg/l);
- Nitrate as Nitrogen (mg/l);
- Total Copper (mg/l);
- Total Lead (mg/l);
- Total Zinc (mg/l); and
- Aquatic Toxicity (once per year for the first two years only).

6.2.1 Sample Collection

Staff shall collect one grab sample from each outfall starting within the first thirty (30) minutes of flow at the sampling location during a storm event that occurs at least 72 hours after any previous storm event that generated a stormwater discharge. Note that for Outfall 1 which discharges through a detention basin, the sample shall be taken at the discharge from the basin. See Figure 3 for outfall locations and **Appendix I** for detailed procedures.

As part of sampling documentation, the following information must be recorded:

- Sample collection date;
- Discharge temperature;
- Time of the start of the discharge;
- Time of sampling;
- Magnitude (in inches) of the storm event sampled; and
- Duration between the storm events sampled and the end of the most recent storm event that produced a discharge.

Samples shall be tested by approved methods prescribed in Title 40, CFR Part 136. Samples will be sent to the following lab, or other state certified laboratory:

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(800) 827-5426

All results will be documented in the Stormwater Monitoring Report (see Appendix I) by the



Maintenance Manager for submittal to DEEP. Results must be submitted to DEEP within 90 days of sample collection.

6.2.2 Standard Monitoring Benchmarks

Upon receipt of laboratory results, the Maintenance Manager shall compare laboratory results to the benchmark levels in **Table 4**.

Table 4 – Benchmark Levels

Parameter	Units	Levels
Total oil and grease	mg/L	5
Chemical oxygen demand	mg/L	75
Sample pH	mg/L	5-9
Total suspended solids	mg/L	90
Total phosphorus	mg/L	0.40
Total Kjeldahl nitrogen	mg/L	2.30
Nitrate as Nitrogen	mg/L	1.10
Total copper	mg/L	0.059
Total lead	mg/L	0.076
Total zinc	mg/L	0.160

After each sampling round, results must be compared to the above benchmarks. If these results exceed one or more benchmarks for the sampling event, GHTD must review the design, installation and implementation of the control measures to determine if modifications are necessary to meet the benchmark(s) and make the necessary modifications to the control measures and this SWPPP.

Additionally, after the collection of 4 semiannual samples, the average of the 4 monitoring values for each of the parameters shall be calculated and compared to the benchmark values. If this average does not exceed the benchmark, the monitoring requirements for that parameter have been fulfilled for the permit term. If this average does exceed the benchmark, then the GHTD will review the selection, design, installation and implementation of the control measures to determine if modifications are necessary to meet the benchmarks in this Permit within 120 days, and either:

- Make the necessary modifications to the control measures and SWPPP and continue semiannual monitoring until 4 consecutive semiannual monitoring events have been completed and the average does not exceed the benchmark; or
- Make a determination that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to implement additional control measures or meet the benchmarks, in which case the GHTD will continue monitoring once per year. The GHTD will also document the rationale for concluding that no further pollutant reductions are achievable and submit this documentation to the commissioner for written approval. The GHTD will retain all records related to this documentation with the SWPPP.



6.2.3 Additional Monitoring of Discharges to Impaired Waters

The GHTD Operations and Maintenance Facility discharges to the Hockanum River, further defined as waterbody segment number CT4500-00_01. As outlined in the Connecticut 2016 Section 305(b) and 303(d) Integrated Water Quality Report, this segment is covered under the Connecticut Statewide Total Maximum Daily Load (TMDL) for Bacteria Impaired Waters, prepared in August of 2011. This segment of the Hockanum River is subject to an average E.coli reduction of 48%.

According to the general permit, “for stormwater discharges to waters for which there is an established TMDL, the permittee is not required to monitor for any indicator pollutant identified in the TMDL unless informed in writing by the DEEP”. There is an established TMDL for Hockanum River, and as such this outfall is not subject to any indicator pollutant monitoring.

6.2. Sector Specific Effluent Limitations

There are no sector specific effluent limitations for Sector G facilities.



7.0 Recordkeeping Requirements

Additional records generated from Permit implementation activities shall be kept onsite with this SWPPP. These records must be accessible, complete, and up-to-date so that they demonstrate the GHTD's full compliance with the conditions of the Permit.

Recordkeeping documentation includes:

- *This plan* – copy of this SWPPP, all appendices, and figures;
- *Plan certifications* – non-stormwater discharge (Appendix B) and certification forms (Appendix J);
- *Permit records* – copies of the general permit registration form (Appendix K), any letters received from the permitting authority (Appendix L), and a copy of the general permit (available at http://www.ct.gov/deep/lib/deep/water_regulating_and_discharges/stormwater/industrial/160809_industrial_stormwater_general_permit_as-is_renewal_final.pdf).
- *Spill records* – dates of any incidences of significant spills, leaks, or other releases that resulted in a discharge of pollutants (Appendix A), the circumstances leading to the release, actions taken in response to the release, and measures taken to prevent the recurrence of a release.
- *Employee training records* – copies of all employee training records, including dates, who was trained, and the training topics (Appendix E).
- *Maintenance records* – copies of all maintenance and repairs of control measures, including dates of regular maintenance, dates when maintenance needs were discovered, and dates when control measures were returned to full function (Appendix M).
- *Inspection records* – copies of all routine monthly facility inspection reports (Appendix G) and semi-annual comprehensive site inspection reports (Appendix F).
- *Monitoring records* – records of all sampling results including quarterly visual assessment reports (Appendix H), data collection forms, lab results, and stormwater monitoring reports (Appendix I).
- *Corrective action records* – records of any corrective actions and follow-up activities conducted to demonstrate compliance with the Permit (Appendix N).



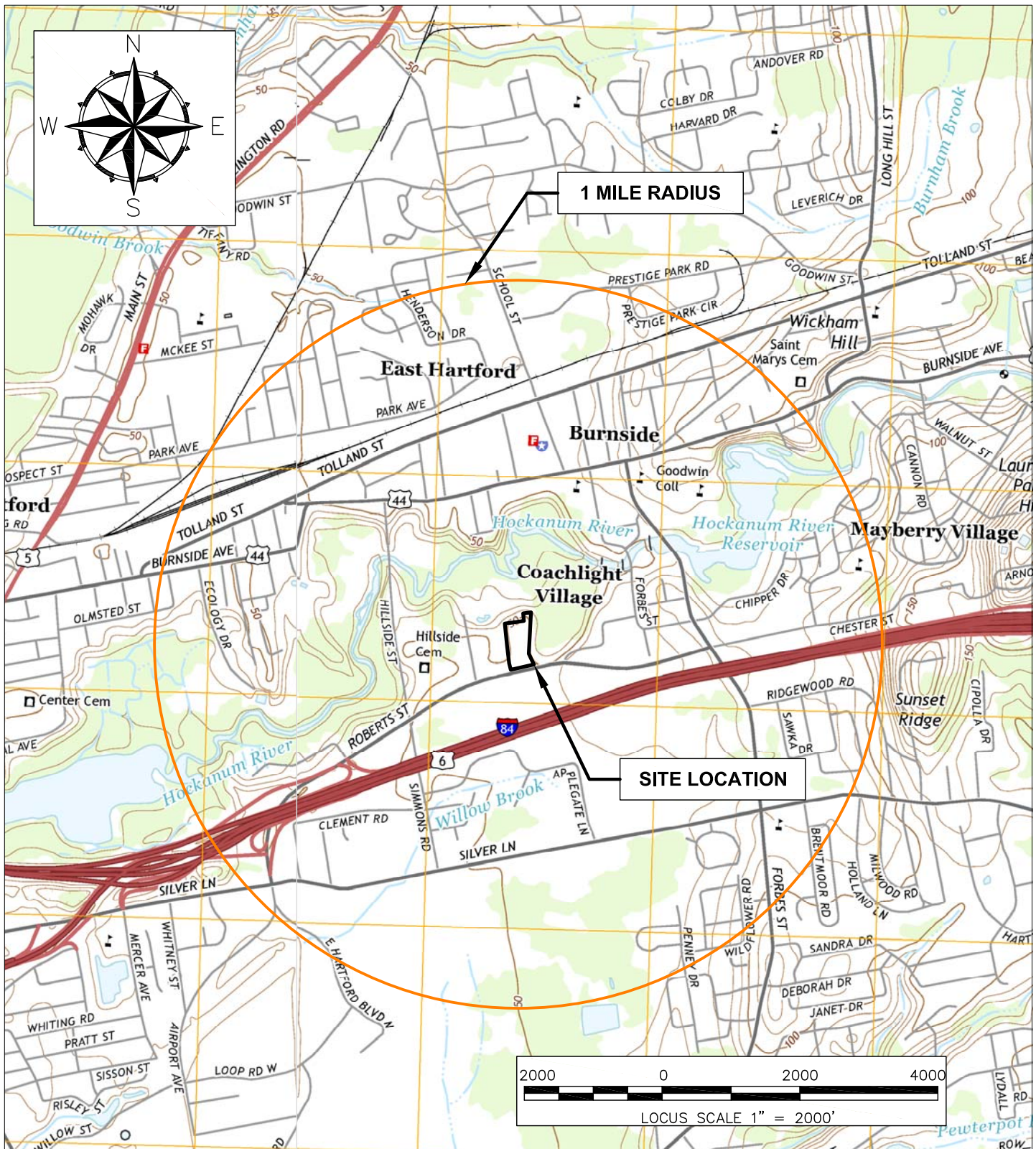
8.0 Plan Updates

This SWPPP shall be kept current at all times, and shall be amended when any of the following occur:

- There is a change at the site which has an effect on the potential to cause pollution of the surface waters of the state;
- The actions required by the SWPPP fail to ensure or adequately protect against pollution of the surface waters of the State;
- The permittee is notified that they are subject to requirements because the receiving water to which the industrial activity discharges has been designated as impaired under Section 303(d) of the Clean Water Act and as identified in the most recent Connecticut Integrated Water Quality Report or that a TMDL to which the permittee is subject has been established for the stormwater receiving water;
- Necessary to address any significant sources or potential sources of pollution identified as a result of any inspection or visual monitoring; and/or
- Required as a result of monitoring benchmarks (see Section 6.2).

The SWPPP shall be amended and all required actions completed within one hundred twenty (120) days (or within another interval as may be specified in this general permit or as may be approved in writing by the Commissioner) of any of the conditions listed above has occurred. If significant changes are made to the site or to the SWPPP, the SWPPP shall be recertified in accordance with the “Non-Stormwater Discharges” and “Plan Certification” (see Appendix B and Appendix J), by a professional engineer licensed to practice in the State of Connecticut or a Certified Hazardous Materials Manager.





GENERAL NOTES

1. LOCUS MAP IS BASED OFF OF THE 7.5 MINUTE SERIES, US TOPO MAP OF THE MANCHESTER AND HARTFORD NORTH QUADRANGLES IN CONNECTICUT FROM THE USGS MAP WEBSITE: <http://www.store.usgs.gov>
2. LOCUS MAP GENERATED IN 2015 PREPARED BY UNITED STATES GEOLOGICAL SURVEY.
3. LOCUS SCALE IS APPROXIMATE.

FIGURE 1 — SITE LOCUS MAP

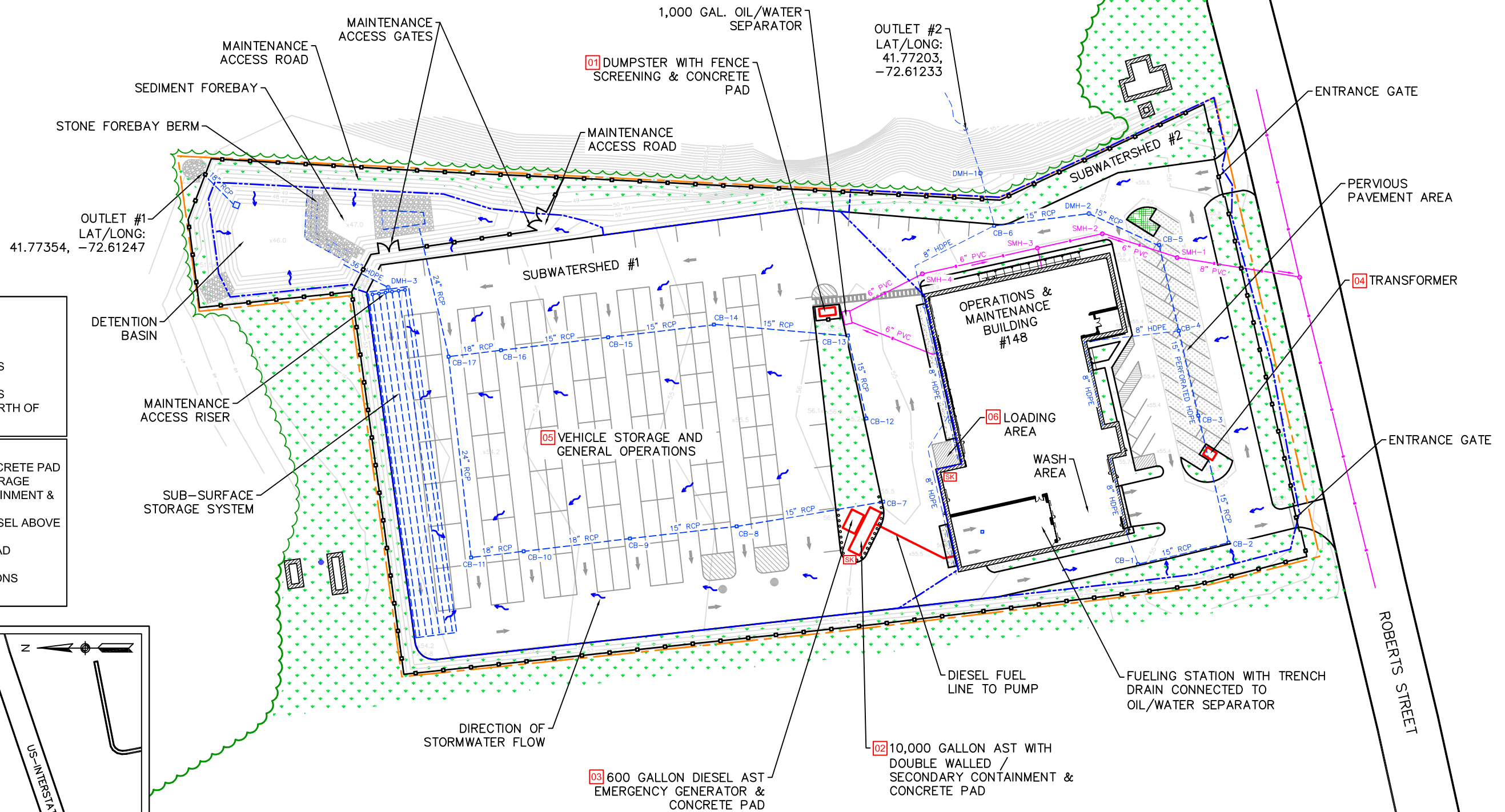
GHTD OPERATIONS AND
MAINTENANCE FACILITY

148 Roberts Street,
East Hartford, CT 06108



COMPREHENSIVE
ENVIRONMENTAL
INCORPORATED

GATEWAY CROSSING, 1 HARTFORD
SQUARE-EAST, SUITE 227,
NEW BRITAIN, CT 06052

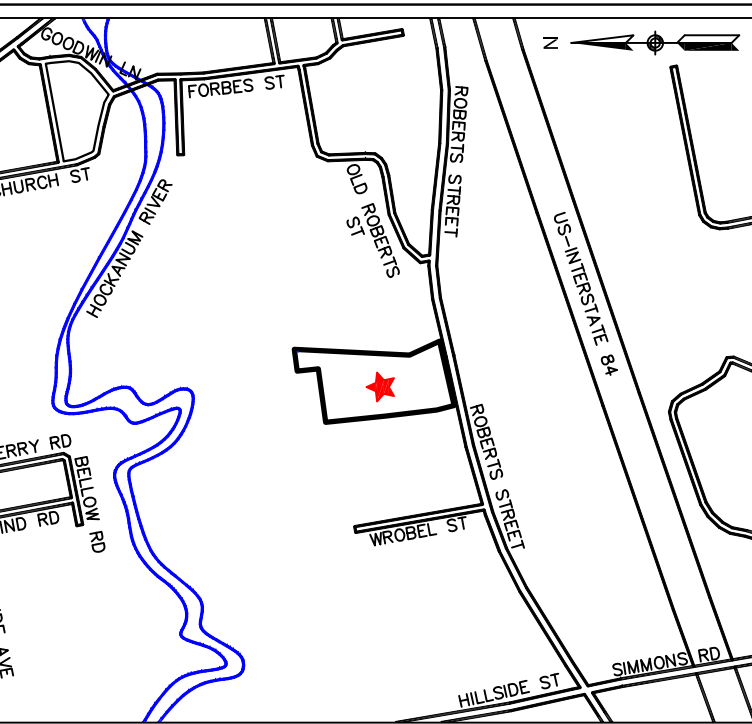


NOTES

1. TOTAL SITE AREA = 7.2 ACRES
2. TOTAL IMPERVIOUS AREA = 3.9 ACRES
3. SUBWATERSHED #1 AREA = 3.0 ACRES
IMPERVIOUS AREA WITHIN SW #1 = 2.6 ACRES
4. SUBWATERSHED #2 AREA = 1.8 ACRES
IMPERVIOUS AREA WITHIN SW #2 = 1.3 ACRES
5. HOCKANUM RIVER IS LOCATED 600 FEET NORTH OF THE NORTHERN PROPERTY BOUNDARY.

INDUSTRIAL ACTIVITY AREAS

1. DUMPSTER WITH FENCE SCREENING & CONCRETE PAD
2. 10,000 GALLON DIESEL ABOVE GROUND STORAGE TANK. DOUBLE WALLED SECONDARY CONTAINMENT & CONCRETE PAD
3. EMERGENCY GENERATOR - 600 GALLON DIESEL ABOVE GROUND STORAGE TANK. DOUBLE WALLED SECONDARY CONTAINMENT & CONCRETE PAD
4. TRANSFORMER
5. VEHICLE STORAGE AND GENERAL OPERATIONS
6. LOADING AREA



NOTE: Parcel boundaries obtained from East Hartford GIS Resources. Actual locations are approximate.

0 500 1000 2000
Scale 1" = 1000'

LEGEND

--- PROPERTY BOUNDARY	BUILDINGS	INDUSTRIAL ACTIVITY
--- EDGE OF PAVEMENT	REGULATED AREAS	SPILL KIT
--- CHAIN LINK FENCE	PERVIOUS PAVEMENT	FLOW DIRECTION
--- PARKING LOT MARKINGS	LANDSCAPED AREA	CATCH BASIN
--- CONTOURS	TREE LINE	DRAINAGE MANHOLE
--- SUBWATERSHED	CONCRETE BOLLARDS	SEWER MANHOLE
--- DRAINAGE LINES		
--- SEWER LINES		

**GHTD OPERATIONS AND
MAINTENANCE FACILITY**
148 ROBERTS STREET
EAST HARTFORD, CT

**FIGURE 3:
FACILITY DIAGRAM**



**COMPREHENSIVE
ENVIRONMENTAL
INCORPORATED**

GATEWAY CROSSING
1 HARTFORD SQUARE-EAST, SUITE 227
NEW BRITAIN, CT 06052

0 80 160
Scale 1" = 80'

Appendix A

Spill and Leak Reporting Log



GHTD Operations and Maintenance Facility

148 Roberts Street, East Hartford CT

List of Significant (> 5 gallons) Spills and Leaks (3 years prior to date of certification of the Plan)

Date	Name of Person Recording the Incident	(check one)		Location (see map)	Type of Material	Estimated Quantity	Description		Response Procedures	Corrective Actions Taken
		Spill	Leak				Source, If Known	Reason for Spill/Leak		

Appendix B

Non-Stormwater Discharge Certification



Non-Stormwater Discharge Certification

I certify that in my professional judgment, the stormwater discharge from the site consists only of stormwater, or of stormwater combined with wastewater authorized by an effective permit issued under section 22a-430 or section 22a-430b of the Connecticut General Statutes, including the provisions of this general permit, or of stormwater combined with any of the following discharges provided they do not contribute to a violation of water quality standards:

- landscape irrigation or lawn watering;
- uncontaminated groundwater discharges such as pumped groundwater, foundation drains, water from crawl space pumps and footing drains;
- discharges of uncontaminated air conditioner or refrigeration condensate;
- water sprayed for dust control or at a truck load wet-down station;
- naturally occurring discharges such as rising groundwaters, uncontaminated groundwater infiltration (as defined at 40 CFR 35.2005(20)), springs, and flows from riparian habitats and wetlands.

This certification is based on testing and/or evaluation of the stormwater discharge from the site. I further certify that all potential sources of non-stormwater at the site, a description of the results of any test and/or evaluation for the presence of non-stormwater discharges, the evaluation criteria or testing method used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test have been described in detail in the Stormwater Pollution Prevention Plan prepared for the site. I further certify that no interior building floor drains exist unless such floor drain connection has been approved and permitted by the commissioner or otherwise authorized by a local authority for discharge as domestic sewage to sanitary sewer. I am aware that there may be significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements.

Site: Greater Hartford Transit District (GHTD) Operations and Maintenance Facility

Name: Sebastian A. Amenta Title: P.E., Regional Program Director, CEI

Signature:  Date: April 25, 2017



Appendix C

Permit for the Discharge of Vehicle Maintenance Wastewater to a Sanitary Sewer





The Metropolitan District
water supply • environmental services • geographic information

VIA EMAIL

October 14, 2015

Amenta Sebastian, P.E.
Comprehensive Environmental, Inc.
1 Hartford Square, Suite 227
New Britain, CT 06052

Subject: Discharge Approval
General Permit for the Discharge of Vehicle Maintenance Wastewater to a Sanitary Sewer
Greater Hartford Transit District Paratransit Operation Facility

Dear Mr. Sebastian,

The Metropolitan District (MDC) has reviewed the information in the application for the General Permit for the Discharge of Vehicle Maintenance Wastewater to a Sanitary Sewer as provided on September 22, 2015. Attached please find the MDC authorization and signed Attachment C for the discharge of a maximum of 7,425 gallons per day to the MDC's East Hartford Water Pollution Control Facility from the Greater Hartford Transit District Paratransit Operation Facility located at 148 Roberts Street, East Hartford.

If you have any questions please feel free to contact me at (860) 278-7850, extension 3451 or by email at cscott@themdc.com.

Sincerely,
THE METROPOLITAN DISTRICT

Craig E. Scott, PE
Facility Engineer 3
Environment, Health & Safety

Attachments

c: Sally Keating, Manager of Environment, Health & Safety
Jim Miller, EHWPCF Superintendent
Alvin Tan, Utility Services

File: WW Permits to MDC\ VMGP Greater Hartford Transit District, 170 Tolland Street EH



The Metropolitan District
water supply • environmental services • geographic information

POTW Certification for Wastewater Discharges Applicant Information

1. Fill in name of Registrant/Applicant on Permit Application Transmittal Form

Name: Greater Hartford Transit District

Mailing Address: One Union Place

City/Town: Hartford

State: CT

Zip: 06103

Business Phone: (860)247-5329

ext: 3004

Fax: () -

Contact Person: Sandra Sheehan

Title: Dir. Grants and Contracts Admin.

2. Facility Information

Facility Name: Greater Hartford Transit District Paratransit Operations Facility

Mailing Address: 148 Roberts Street

City or Town of Activity: East Hartford

3. Description of Wastewater (include: quantity and type of permit applying for)

The vehicle maintenance wastewater discharge will be a maximum of 7,425 gallons per day to the MDC's East Hartford Water Pollution Control Facility from the Greater Hartford Transit District Paratransit Operations facility located at 148 Roberts Street, East Hartford. The facility has a 1,000 gallon oil/water separator that will be certified by Sebastian Amenta, P.E. of Comprehensive Environmental, Inc., 860-224-0442. The information was provided by the facility application on September 22, 2015.

4. Wastewater discharge will be via (check one):


☒ Sanitary Sewer Connection

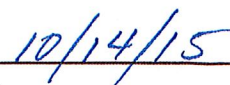
☐ Hauled by tanker truck

Municipal Information (Municipality completes this section)

City/Town/Borough of: The Metropolitan District
Department/Office of: Environment, Health & Safety Department
Address: 555 Main Street
P.O. Box 800
Hartford, CT 06142-0800

Based on the information provided by the applicant, The Metropolitan District hereby certifies the discharge to The Metropolitan District's sanitary sewer system. All requirements of the Connecticut Department of Environmental Protection must be met and sustained in order for this discharge to be accepted by The Metropolitan District.


Signature of Duly Authorized Municipal Official
Craig E. Scott, P.E.


Date
Facility Engineer 3, Environment, Health & Safety

S:\Environmental Health\ENVIRONMENTAL\WW Permits to MDC\VMGP Greater Hartford Transit District 148 Robert St EH\Approval VMGP Greater Hartford Transit District 10-14-15.docx

Attachment C: Approval for Connection to a Sanitary Sewer

The registrant and a responsible official from the POTW receiving the discharge must sign this approval. Where a local sewer commission acts independently of the POTW (i.e. facilities that receive sewage from more than one town), both the local sewer commission and POTW authority must sign the approval.

The below referenced facility is seeking Authority from the Department of Environmental Protection to discharge wastewater to the sanitary sewer for a period of _____ (check one)

☐ <30 days

☐ >30 days to one year

☒ >1 year

Discharge volume will not exceed **7,425 to the O/W** gallons per day.

The discharge shall consist of: **Vehicle Wash Down, Vehicle Service and Repair**

Discharge Site: **GHTD Paratransit Operations Facility**

Site Address: **148 Roberts Street**

City/Town: **East Hartford**

State: **CT**

Zip Code: **06108**

9 21 15

Date

Signature of Registrant _____

To be completed by receiving POTW:

Name of Receiving POTW: **MDC East Hartford Water Pollution Control Facility**

Address of POTW: **65 PITKIN ST.**

City/Town: **East Hartford**

State: **CT**

Zip Code: **06118**

Approved by: _____

Signature

Date

10/14/15

Craig E. Scott, P.E.
Name (please print)

Facility Engineer 3, EHWS
Title

To be completed by Commission:

Local Sewer Commission:

(if different than receiving POTW)

Address:

City/Town:

State:

Zip Code:

Approved by: _____

Signature

Date

Name (please print)

Title

Comments:

Appendix D

ADS EnviroHood Oil/Water Separator Hood Detail



ENVIROHOOD STRUCTURE

The Nyloplast® EnviroHood™ is an innovative stormwater management device attached to the inside of a catch basin or manhole designed to prevent the outflow of floating debris and oil.

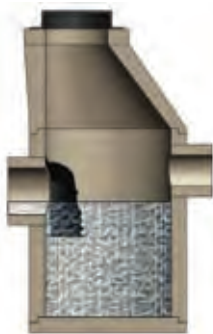
The need for cleaner stormwater has caused municipal leaders to demand forward-thinking solutions to improve their overall water quality. The EnviroHood offers lower installed costs and less intrusive installations than competitive devices.

ENGINEERED FOR OPTIMAL PERFORMANCE

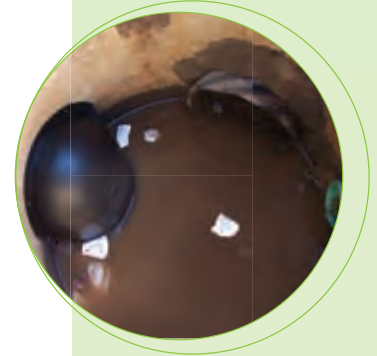
The innovative design incorporates the same proven corrugation technology used on ADS N-12® pipe products. This delivers maximum strength to weight ratio and ensures the structure is capable of supporting the hydraulic forces of a rainfall event.

FEATURES & BENEFITS:

- Molded from High Density Polyethylene (HDPE) for lightweight and sturdy design
- Corrugated design eliminates flat surfaces and provides increased structural capacity
- Effective low-cost solution for storm water treatment
- Easy to clean
- Highly corrosion-resistant for long service life



ADS Service: ADS representatives are committed to providing you with the answers to all your questions, including specifications, installation and more.



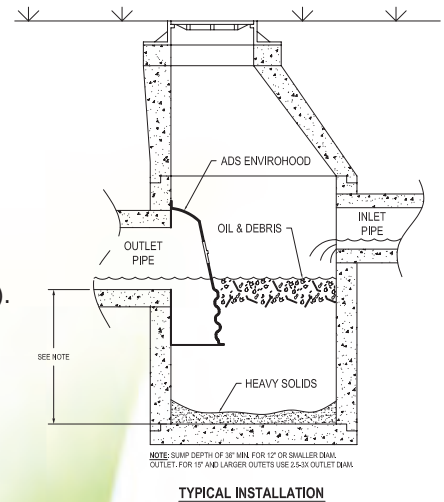
NYLOPLAST ENVIROHOOD SPECIFICATION

SCOPE

This specification describes the EnviroHood for use in stormwater conveyance systems.

REQUIREMENTS

- All hoods shall be constructed of polyethylene.
- The size and position of the hood shall be determined by the outlet pipe size as per manufacturer's recommendation.
- The bottom of the hood shall extend downward a minimum distance of 6" (15 cm) for pipes < 12" (30 cm).
- Installation hardware and instructions shall be provided by manufacturer.
- Installation shall be in accordance with Nyloplast installation procedures and those issues by local building/construction regulations.



STRUCTURE TYPE	OUTLET COVERED	PART NUMBER*	GENERAL DIMENSIONS in. (cm)			
			A	B	C	D
48" (120 cm) Round Concrete	up to 18" (45 cm)	5818AGR	30.2 (75)	14.9 (35)	17.2 (45)	20.5 (50)
48"-54" (120-135 cm) Round Concrete	up to 24" (60 cm)	5824AGR	41.7 (105)	18.0 (45)	26.9 (70)	26.9 (70)
54"-60" (135-150 cm) Round Concrete	up to 30" (75 cm)	5830AGR	48.7 (120)	20.5 (50)	30.5 (75)	33.1 (85)
Flat Concrete	up to 18" (45 cm)	5818AGF	30.2 (75)	11.8 (30)	17.2 (45)	20.4 (50)
Flat Concrete	up to 24" (60 cm)	5824AGF	41.8 (105)	15.3 (40)	26.9 (70)	27.0 (70)
Flat Concrete	up to 30" (75 cm)	5830AGF	48.8 (120)	18.3 (45)	30.5 (75)	34.0 (85)
18" (45 cm) Nyloplast	up to 12" (30 cm)	5818AG0412	19.4 (50)	9.8 (25)	12.3 (30)	13.8 (35)
24" (60 cm) Nyloplast	up to 15" (40 cm)	5824AG0415	26.5 (65)	12.8 (30)	14.5 (35)	20.0 (50)
30" (75 cm) Nyloplast	up to 18" (45 cm)	5830AG0418	32.8 (85)	15.4 (40)	18.7 (45)	26.0 (65)

*Includes installation hardware

For more information on EnviroHood and other ADS products, please contact our Customer Service Representatives at 1-800-821-6710

ADS "Terms and Conditions of Sale" are available on the ADS website, www.ads-pipe.com

The ADS logo, the Green Stripe, EnviroHood™ and N-12™ are registered trademarks of Advanced Drainage Systems, Inc. Nyloplast® is a registered trademark of Nyloplast.

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BRO 10853 07/12



Advanced Drainage Systems, Inc.
4640 Trueman Blvd., Hilliard, OH 43026
1-800-821-6710 www.ads-pipe.com



Appendix E

Annual Training Log Attendance Roster



Annual Training Log Attendance Roster

GHTD Operations and Maintenance Facility
148 Roberts Street, East Hartford CT

Location_____

Date_____

Trainer Name(s)_____

Name	Signature





Appendix F

Semiannual Comprehensive Site Compliance Evaluation Report



Semiannual Comprehensive Site Compliance Evaluation Report

Perform Inspections on the Following Areas:		Yes	No	N/A
Has the Stormwater Pollution Prevention Plan (SWPPP) and Facility Diagram (Figure 3) been reviewed for accuracy?				
Has annual training been conducted for Pollution Prevention Team (Figure 2) and maintenance personnel?				
Have all reportable spills been documented in the Spills and Leak Reporting Log in Appendix A of the SWPPP?				
Area #1 - Solid Waste Storage Area	Are all solid waste dumpsters equipped with a lid and closed at all times?			
	Are the solid waste dumpsters free of any signs of leaks?			
	Is the surrounding area free of oil staining?			
	Have the BMPs listed in the SWPPP been implemented at the solid waste storage area?			
Area #2 and #3 - Diesel Storage Areas	Are diesel storage areas free of any signs of oil staining?			
	Are all tanks free of leaks and properly sealed?			
	Are all tanks properly labeled as to contents and volume, when applicable?			
	Are alarms and alarm panels readings normal and functioning properly?			
	Have the BMPs listed in the SWPPP been implemented at these material storage areas?			
Area #4 - Transformer	Is transformer area free of any signs of oil staining			
	Is transformer free of leaks and properly sealed?			
	Have the BMPs listed in the SWPPP been implemented at this material storage area?			
Area #5 - Vehicle and Equipment Storage Area	Are the parking and equipment storage areas free of significant oil staining?			
	Are parked vehicles free of leaking automotive fluids?			
	Are drip pans placed under leaking vehicles awaiting maintenance parked outside?			
	Are all maintenance activities conducted indoors/under cover (i.e. not in this area)?			
	Have the Best Management Practices (BMPs) listed in the SWPPP been implemented in the vehicle/equipment maintenance areas?			
Area #6 - Loading & Unloading Areas	Are material loading/unloading areas free of any evidence of oil staining?			
	Have the BMPs listed in the SWPPP been implemented for all loading and unloading areas?			
Stormwater Infrastructure	Are property boundaries and outfalls free of any evidence that oil or other pollutants from the facility is being carried off-site?			
	Are storm water outfalls and immediate areas in good physical condition (i.e., not in need of repairs)?			
	Are all catch basins in good condition with sumps less than 50% full of sediment?			
	Is the forebay and detention pond free of any evidence of oil staining?			
	Are impervious areas largely free of excess sediment and sand accumulation?			
	Are pervious pavement areas free of sand and debris?			
	Have the BMPs listed in the SWPPP been implemented for all stormwater infrastructure?			

(continued) Perform Inspections on the Following Areas:		Yes	No	N/A
Fueling Areas (under cover)	Is fueling area free of significant oil staining and/or oil sheens?			
	Is the fuel dispensing equipment operating correctly (i.e., there no drips)?			
	Are floor drains free of standing oil products?			
	Have the BMPs listed in the SWPPP been implemented in the fueling area?			
Vehicle and Equipment Washing Areas (indoors)	Is all vehicle washing being performed indoors within the dedicated Wash Area?			
	Is all vehicle washing wastewater captured or discharged to drains connected to the sanitary sewer or to a holding tank?			
	Is the vehicle washing area free of any oil staining?			
	Have the BMPs listed in the SWPPP been implemented in the vehicle/equipment washing areas?			
Vehicle Maintenance Areas (indoors)	Is all maintenance being performed indoors within dedicated maintenance areas?			
	In the event of a spill in the area, is a spill control station easily accessible to employees?			
	Are floor drains free of standing oil products?			

Note: the following areas are not applicable at this facility: 1) sensitive areas subject to erosion; 2) rooftop areas; 3) areas subject to dust and particulate accumulation; and 4) salt storage areas.

Semi-Annual Inspection Report
Inspect the facility's outfalls and note any evidence of, or the potential for, pollutants entering the drainage system and evidence of pollutants discharging to surface waters (during a rainfall event if possible).
Inspect the facility's structural stormwater management measures, erosion control measures, control measures, and other pollution prevention measures to ensure they are being properly maintained or are in need of repair (during a rainfall event if possible).
Perform a visual inspection of equipment used to respond to a spill.
If necessary, what corrective actions or SWPPP changes will be taken to correct any non-compliance or problems/issues identified during the inspection?
Certification of Semiannual Comprehensive Site Compliance Evaluation Report Based on the comprehensive site compliance evaluation, this facility is in compliance with the General Permit for the Discharge of Storm Water Associated with Industrial Activity and the provision of its Storm Water Pollution Prevention Plan. I certify under penalty of law that this document and all attachments were prepared under my direction or 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.

Print Name: _____

Title: _____

Signature: _____

Date: _____

Appendix G

Monthly Site Inspection Checklist



GHTD Operations and Maintenance Facility – Monthly Site Inspection Checklist (conducted twelve times per year)		Name: _____ Date: _____ Time: _____ Weather: _____		
Note: Existing control measures must be evaluated for whether they are adequate or if additional measures are needed. Complete both pages monthly and retain all records.		YES	NO	Comments for those marked as “Yes”
1	Is the facility generally clean, orderly, and free of debris and litter?			
2	Are all material handling and storage areas and areas exposed to precipitation free of sources of pollution (e.g. drips, leaks, etc.)?			
3	Are solid waste materials regularly picked up and transported offsite (Area #1)?			
4	Are areas near diesel ASTs free of leaks and are tanks in good condition (Area #2 and #3)?			
5	Is the transformer in generally good condition without any obvious issues (Area #4)?			
6	Do vehicle storage areas appear in good condition and free of leaks (Area #5)?			
7	Is the loading area free of debris and other potential pollutant sources (Area #6)?			
8	Are impervious parking areas generally free of excessive sand accumulation and pervious areas free of sand?			
9	Are all alarms and alarm panel readings normal and functioning properly?			
10	Are all catch basins in good condition with sumps less than 50% full of sediment?			
11	Is the sediment forebay, detention basin, and underground storage vault in good condition, free of erosion, and free of sediment accumulation?			
12	Are all outfalls in good condition free of erosion, and free of sediment accumulation?			
13	Is emergency equipment such as fire extinguishers and spill response equipment available, in good condition, and in the proper locations?			
14	Is the facility free from any incidents of non-compliance or required revisions to the SWPPP or control measures?			



Appendix H

Quarterly Visual Stormwater Assessment



GHTD Operations and Maintenance Facility - Quarterly Visual Stormwater Assessment

Instructions

The Maintenance Manager must perform quarterly visual examination of stormwater discharges at each of two outfalls. Samples shall be collected from discharges resulting from a storm event that occurs at least 72 hours after any previous storm event generating a stormwater discharge. Samples shall begin during the first 30 minutes of a storm event. See Section 6.1 of the facility's SWPPP for additional information. Fill in the following information:

Weather Conditions: _____

Nature of Discharge (Runoff / Snowmelt / Other): _____

Time Since Previous Storm Event (days): _____

Duration of the Storm Event (hours): _____

Rainfall Total (inches): _____

Location	Sample Collection Date & Time	Person Collecting the Sample	Sample Color	Sample Odor	Sample Clarity	Floating Solids	Settled Solids	Suspended Solids	Other
Outfall #1. Flow Observations (collect sample at outlet of detention basin)	Date	Name	___ Clear	___ None	___ Clear	___ None	___ None	___ None	___ Other Indicators of Pollution*
			___ Gray/green	___ Chemical	___ Cloudy/Milky	___ Grease/Oil	___ Sediment	___ Grease/Oil	
			___ Red/orange	___ Petroleum	___ Opaque	___ Paper/Trash	___ Other *	___ Paper/Trash	
			___ Brown	___ Sulfur	___ Other *	___ Foam		___ Foam	
			___ Yellow	___ Sewage		___ Other *		___ Other *	
	Time	Signature	___ Other *	___ Other *					
Outfall #2. Flow Observations (collect sample at outlet pipe)	Date	Name	___ Clear	___ None	___ Clear	___ None	___ None	___ None	___ Other Indicators of Pollution*
			___ Gray/green	___ Chemical	___ Cloudy/Milky	___ Grease/Oil	___ Sediment	___ Grease/Oil	
			___ Red/orange	___ Petroleum	___ Opaque	___ Paper/Trash	___ Other *	___ Paper/Trash	
			___ Brown	___ Sulfur	___ Other *	___ Foam		___ Foam	
			___ Yellow	___ Sewage		___ Other *		___ Other *	
	Time	Signature	___ Other *	___ Other *					

Notes

1. Refer to Figure 3 - Facility Diagram in the GHTD Operations and Maintenance Facility Stormwater Pollution Prevention Plan for outfall locations

Location	Expected Source of Any Observed Contamination, Additional Sampling Observations, and/or Comments
Outfall #1.	
Outfall #2	

Appendix I

Stormwater Monitoring Procedures and Monitoring Report



General Procedures

Samples will be collected directly from the discharge of the outfall during wet weather starting within the first thirty (30) minutes of flow at the sampling location during a storm event that occurs at least 72 hours after any previous storm event that generated a stormwater discharge. Staff should check one of the following websites via the National Oceanic and Atmospheric Administration (NOAA) (primary source) or Weather Underground (backup source) to monitor recent rainfall data:

- Primary: <http://w1.weather.gov/data/obhistory/KHFD.html>
- Secondary: <https://www.wunderground.com/personal-weather-station/dashboard?ID=KCTEASTH39#history>

Samples shall be collected as follows:

- Spring: April 1 through June 30
- Fall: October 1 through December 31

See Figure 2 for outfall locations, and note that for Outfall 1 which discharges through a detention basin, the sample shall be taken at the discharge from the basin.

Equipment

At a minimum, the following equipment should be available when performing outfall monitoring:

- Sampling bottles
- Cooler with fresh ice
- Chain of custody
- Latex or nitrile gloves
- Pen or pencil(s)
- Clipboard

All sampling should follow the procedures below.

Pre-Sampling

1. Monitor general weather trends and forecasts at least 3 days in advance to schedule wet weather sampling during optimal times (i.e. during weekday business hours). Note that this may not always be possible.
2. If needed, contact the laboratory at least 2 days in advance to order bottles.
3. Collect the materials and equipment outlined in the **Equipment** section at least 1 day before the event.
4. On the day of sampling, verify that sufficient rainfall has fallen to generate adequate runoff by checking the websites listed in the **General Procedures** section.



Sampling

5. Put on clean latex or nitrile gloves and replace gloves between each sample.
6. Sample bottle cap should only be removed just prior to collecting or receiving a sample and should be immediately recapped once bottles are filled. Never touch the inside of a sample container, even with gloved hands
7. Slowly lower the bottle into the water and collect the sample from the outfall discharge point or from the well-mixed center of flow facing upstream, ideally below the surface if flow depth is great enough. Take care not to disturb accumulated sediments or contact the side/bottom of the pipe/outfall with the mouth of the bottle.
8. Each bottle should be filled from a single grab. Do not overfill sample containers, and do not dump out any liquids, as sample bottles may contain preservatives added by the laboratory.
9. Replace and tighten sample container lids immediately after sample collection and accurately label sample bottles using a waterproof pen or marker with the time and location. Immediately place on ice in a designated cooler.
10. Fill out the laboratory chain of custody form(s) and deliver all samples to laboratory for analysis.

Post-Sampling

11. Upon receipt of laboratory results, complete the Stormwater Monitoring Report (SMR) in this appendix.
12. Retain all documentation for a period of at least three (3) years.

Laboratory

Samples shall be tested by approved methods prescribed in Title 40, CFR Part 136. Samples will be sent to the following lab, or other state certified laboratory:

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(800) 827-5426





**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Stormwater Monitoring Report Form**

General Requirements and Sector G Transportation Facilities Only
(Do not submit if you have other sector specific requirements)

Facility Information

Permittee Name: _____	Site Name: _____
Mailing Address: _____	
Contact Person: _____	Title: _____
Business Phone: _____	ext.: _____ Email: _____
Site Address: _____	
Receiving Water (name/basin): _____	
Permit #: GSI _____	Primary SIC: _____
Discharges into an Impaired Waterbody: Yes <input type="checkbox"/> No <input type="checkbox"/> (If yes, complete the table on page 3 of this form)	

Sample Information

Sample Location: _____	Person Collecting Sample: _____
Date/Time Collected: _____	Date of Previous Storm Event: _____
This report is for samples required: Semi-annually <input type="checkbox"/> Annually <input type="checkbox"/> Other <input type="checkbox"/>	
Check here if the sample contains snow or ice melt : <input type="checkbox"/>	
Check here if a benchmark exceedance is solely due to background or off site sources <input type="checkbox"/> see note below	

Monitoring Results

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Oil & Grease	Semi-annual		5.0 mg/L	<input type="checkbox"/>		
Rainfall pH	Semi-annual		n/a			
Sample pH	Semi-annual		5-9 SU	<input type="checkbox"/>		
COD	Semi-annual		75 mg/L	<input type="checkbox"/>		
TSS	Semi-annual		90 mg/L	<input type="checkbox"/>		
TP	Semi-annual		0.40 mg/L	<input type="checkbox"/>		
TKN	Semi-annual		2.30 mg/L	<input type="checkbox"/>		
NO ₃ -N	Semi-annual		1.10 mg/L	<input type="checkbox"/>		
Total Copper	Semi-annual		0.059 mg/L	<input type="checkbox"/>		
Total Zinc	Semi-annual		0.160 mg/L	<input type="checkbox"/>		
Total Lead	Semi-annual		0.076 mg/L	<input type="checkbox"/>		
24 Hr. LC ₅₀	Annual-Year 1&2		n/a			
48 Hr. LC ₅₀	Annual-Year 1&2		n/a			

Exemptions

List here any parameter(s) that will not be sampled for the remainder of the permit term: see note below

NOTE: Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name:	
Date/Time Begin:	Date/Time End:
Sample Hardness:	Sample Conductivity:
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness:

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
Hour	00	24	48	00	24	48	00	24	48	00	24	48	
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>				

Additional Monitoring for Discharges to Impaired Waters (if applicable):

Parameter	Frequency	Results (units)	Test Method	Laboratory Name

Statement of Certification

<p>"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute."</p>	
Signature of Permittee	Date
Name of Permittee (print or type)	Title (if applicable)
Signature of Preparer (if different than above)	Date
Name of Preparer (print or type)	Title (if applicable)

Please send all completed forms to:

WATER TOXICS PROGRAM COORDINATOR
BUREAU OF WATER PROTECTION AND LAND REUSE
CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011**

Data Tracking Sheet

**General and Sector G Transportation Facilities Only
Monitoring Requirements**

Permittee Name: _____	Permit #: GSI _____
Site Name: _____	
Site Address: _____	
Sample Location: _____	

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location into the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4. ***Only monitoring collected under the current permit (effective 10/1/11,) can be used to earn the monitoring exemption.***

$$\text{Average} = \frac{(\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4})}{4}$$

Parameter	Sample Result				Average	Benchmark*	Qualify for exemption?
	1	2	3	4			
Sample Date							
O&G						5.0 mg/L	
Sample pH						5-9 S.U.	
COD						75 mg/L	
TSS						90 mg/L	
TP						0.40 mg/L	
TKN						2.30 mg/L	
NO ₃ -N						1.10 mg/L	
Total Copper						0.059 mg/L	
Total Zinc						0.160 mg/L	
Total Lead						0.076 mg/L	

*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit.

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)B(iii) of the General Permit for a more detailed explanation.

Appendix J

SWPPP Certification Form



SWPPP Certification Form

I certify that I have thoroughly and completely reviewed the Stormwater Pollution Prevention Plan prepared for this site. I further certify, based on such review and site visit by myself or my agent, and on my professional judgment, that the Stormwater Pollution Prevention Plan meets the criteria set forth in the General Permit for the Discharge of Stormwater Associated with Industrial Activity effective on October 1, 2011. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements.

Site: Greater Hartford Transit District (GHTD) Operations and Maintenance Facility

Name: Sebastian A. Amenta Title: P.E., Regional Program Director, CEI

Signature:  Date: April 25, 2017



Appendix K

Registration Form





Connecticut Department of Energy & Environmental Protection

Bureau of Materials Management & Compliance
Assurance
Water Permitting & Enforcement Division

General Permit Registration Form for the Discharge of Stormwater Associated with Industrial Activity

Prior to completing this form, you must read the instructions for the subject general permit at: [DEP-PED-INST-14](#). This form must be filled out electronically before being printed. You must submit the registration fee along with this form.

The [status of your registration](#) can be checked on the DEEP website. Please note that DEEP will no longer mail certificates of registration.

CPPU USE ONLY

App#:

Doc #:

Check #:

Program: Stormwater

Part I: Registration Types and Timelines

Note: All yellow fields are required

Select the appropriate boxes identifying the registration type and registration timeline.

Registration Types	
<input type="checkbox"/>	<u>New Registration (of an expired permit)</u> Previous Permit No. GSI <input type="text"/>
<input checked="" type="checkbox"/>	<u>New Registration</u> Are you on a site where industrial activity has been previously located? <input type="text" value="NO"/> Are you proposing a new industrial activity on a site where industrial activity has not been previously located? <input type="text" value="YES"/> To determine if you qualify to file this registration please go to Part IV?
<input type="checkbox"/>	<u>Replacement of NPDES</u> If selected, please provide in the space provided the permit #'s for previously authorized discharge(s) <input type="text"/>
<input type="checkbox"/>	<u>Modification</u> (new or modified discharges) Existing Permit No. GSI <input type="text"/>

Registration Timelines	
<input type="checkbox"/>	For new registrants, without an electronically available Pollution Prevention Plan: Ninety (90) days prior to the initiation of the industrial activity
<input checked="" type="checkbox"/>	With an electronically available Pollution Prevention Plan: Sixty (60) days prior to the initiation of the industrial activity

If there are any changes or corrections to your company/facility or individual name, mailing address or billing address or contact information, please complete and submit the [Change Request Information Form](#) (Request to Change Company/Individual Information) to the address indicated on the form. For any other changes, you must contact the specific program from which you hold a DEEP permit. If there is a change in ownership, please contact the Permit Assistance Office for questions concerning permit transfers at 860-424-3003.

Part II: Fee Information

Note: All yellow fields are required

☐ A fee of \$250.00 applies to:

- Municipalities (50% discount of \$500 fee per CGS 22a-6)

☒ A fee of \$500.00 applies to:

- Companies that employ fewer than fifty (50) employees statewide (excluding seasonal employees employed no more than 120 days in a year) or have gross annual sales of less than five (5) million dollars
- Federal or state operated industrial activities
- Small scale compositing facilities.

☐ A fee of \$1,000.00 applies to:

- Companies that employ fifty (50) or more employees statewide (excluding seasonal employees employed no more than 120 days in a year) and have gross annual sales of greater than five (5) million dollars

The registration will not be processed without the fee. The registration fee is non-refundable and shall be paid by check or money order payable to the Department of Energy and Environmental Protection.

Part III: Registrant Information

- If a registrant or consultant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, registrant's name shall be stated **exactly** as it is registered with the Secretary of the State. The information can be accessed at
- If a registrant is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).

1. Registrant /Client Name:

Registrant Type:

If a business type, list type (e.g., corporation, limited partnership, etc.):

Secretary of the State Business ID #:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

Ext.:

Fax:

Contact Person:

Title:

Email:

Additional Phone Number (if applicable):

Ext:

2. Registrant's interest in property or facility at which the proposed activity is to be located: (Industrial activity operators are required to register for this permit).
(Select all that apply)



Site Owner



Lessee



Operator



Other (specify)

Part III: Registrant Information (Continued)

Note: All yellow fields are required

3. Billing contact, if different than the registrant.

☐ Same as registrant

Contact Person: Nhan Vo-Le Title: Director of Fiscal and Admin Services

Mailing Address: 1 Union Place

City/Town: Hartford State: CT Zip Code: 06103

Business Phone: (860) 247-5329 Ext.: 3009 Fax: Email: nhvole@ghtd.org

Primary contact for departmental correspondence and inquiries, if different than the registrant.

4a.

☐ Same as registrant

Contact Person: DJ Gonzalez Title: Operations Administrator

Mailing Address: 1 Union Place

City/Town: Hartford State: CT Zip Code: 06103

Business Phone: (860) 247-5329 Ext.: 3080 Fax: Email: djgonzalez@ghtd.org

4b. Onsite contact if registrant is out of state.

☒ Not Applicable ☐ Same as registrant

Contact Person: Title:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: Ext.: Fax: Email:

5. List engineering consultant, attorney or other representative employed or retained to assist in preparing the registration or maintaining permit compliance.

Consultant/Firm Name: Comprehensive Environmental Consultant Type: Consultant

Mailing Address: 1 Hartford Square East, Suite 227

City/Town: New Britain State: CT Zip Code: 06052

Business Phone: (860) 224-0442 Ext.: Fax: Email: samenta@ceiengineers.com

Contact Person: Sebastian Amenta Title: P.E., Regional Program Director

Service Provided: SWPPP preparation

Secretary of the State Business ID #:

Part IV: Site Information

1. Please provide the name of your site and address below:

Site Name: Operations and Maintenance Facility

Street Address Location Description: 148 Roberts Street

City/Town: East Hartford

State: CT

Zip Code: 06108

2. Primary four digit Standard Industrial Classification (SIC) Code for industrial activities:

9199

a. Primary SIC description: Public Works Garages

b. For activities **without** a specific SIC code, provide a description:

3. Are you a small scale composting facility composting horse manure and/or bedding?

☐ Yes ☒ No

Note: If Yes, then you are required to submit a Pollution Prevention Plan with your registration.

4. a. Is the site located in a 100 yr floodplain, as defined and mapped under 44 CFR 59.

☐ Yes ☒ No

b. Is the site within 250 feet of a well utilized for potable drinking water supply or within a Level A aquifer protection area as defined by mapping pursuant to section 22a-354c of the Connecticut General Statutes.

☐ Yes ☒ No

c. Are you proposing to authorize a stormwater discharge from a **new** road salt or de-icing materials storage facilities at the site in question?

☐ Yes ☒ No

Note: If you answered Yes to questions 4c and 4a and/or 4b, you are **not** eligible to register under this permit. Call DEEP staff at 860-424-3018 to discuss other permitting options.

5. a. Is there exposure or the potential for exposure of your stormwater discharge to mercury?

☐ Yes ☒ No

b. Is there exposure or the potential for exposure of your stormwater discharge to Polychlorinated biphenyls (PCBs)?

☐ Yes ☒ No

If you answered Yes to 5a. or 5b, you may be required to conduct additional monitoring. Refer to [Impaired Waters Monitoring Requirements Table](#) for specific monitoring information for your site. Monitoring requirements are listed by Watershed ID # or 305 B ID #, refer to Part V, section 3 of the Registration Instructions [DEP-PED-INST-14](#) for information on how to find your ID #.

6. Do you have any stormwater point source discharges to the ground?

☐ Yes ☒ No

If Yes, then fill out Table 4. in Part V of this form.

7. **INDIAN LANDS:** Is or will the facility be located on federally recognized Indian lands?

☐ Yes ☒ No

Part IV: Site Information (continued)

8. **COASTAL BOUNDARY:** Is the activity which is the subject of this registration located within the coastal boundary as delineated on DEEP approved coastal boundary maps? ☐ Yes ☒ No

The coastal boundaries fall within the following towns: Branford, Bridgeport, Chester, Clinton, Darien, Deep River, East Haven, East Lyme, Essex, Fairfield, Greenwich, Groton (City and Town of) Old Lyme, Guilford, Hamden, Ledyard, Lyme, Madison, Milford, Montville, New London, New Haven, North Haven, Norwalk, Norwich, Old Saybrook, Orange, Preston, Shelton, Stamford, Stonington (Borough and Town of), Stratford, Waterford, West Haven, Westbrook and Westport.

If Yes, and this registration is for a new authorization, you must submit a Coastal Consistency Review Form (DEP-APP-004) with your registration as Attachment B. Information on the coastal boundary is available at the local town hall or on the [Coastal Boundary Map](#). Additional DEEP Maps and Publications are available at 860-424-3555.

9. **ENDANGERED OR THREATENED SPECIES:** Is the project site located within an area identified as a habitat for endangered, threatened or special concern species as identified on the "State and Federal Listed Species and Natural Communities Map"? ☒ Yes ☐ No

Date of Map Used for Determination:

If Yes, complete and submit a Request for NDDB State Listed Species Review Form (DEP-APP-007) to the address specified on the form.

Note: NDDB review generally takes 4 to 6 weeks and may require additional documentation from the registrant. DEEP strongly recommends that registrants complete this process before submitting the subject registration.

The CT NDDB response **must** be submitted with this completed registration as Attachment C. For more information visit the DEEP website at [Natural Diversity Data](#) or call the NDDB at 860-424-3011.

10. **AQUIFER PROTECTION AREAS:** Is the site located within a town required to establish Aquifer Protection Areas, as defined in section 22a-354a through 354bb of the General Statutes (CGS)? ☐ Yes ☒ No

If **yes**, is the site within an area identified on a Level A or Level B map? ☐ Yes ☐ No

To view the applicable list of towns and maps visit the DEEP website at [Aquifer Protection Areas](#).

For more information about the Aquifer Protection Areas, call 860-424-3020.

11. **CONSERVATION OR PRESERVATION RESTRICTION:** Is the property subject to a conservation or preservation restriction? ☐ Yes ☒ No

Part V: Stormwater Discharge Information

Table 1

1. Identify the type, material, size and location of conveyances, outfalls, or channelized flows that convey your discharges:						
Outfall #	a) Type	b) Pipe Material	c) Pipe Size In Inches	d) Note: To find lat/long, go to: CT ECO . Directions on how to find Lat./Long on CT Eco can be found in Part V, section d. of the instructions DEP-PED-INST-14 .		e) What method was used to obtain your latitude and longitude information?
				Longitude	Latitude	
1	pipe	concrete	18	-72.61247	41.77354	CT ECO
2	pipe	concrete	18	-72.61233	41.77203	CT ECO

Table 2

2. Identify discharges which drain to non fresh-tidal wetlands.		
Outfall #	a) Is stormwater discharge within 500' of a non fresh tidal wetland?	b) If the stormwater discharge is within 500' of a non fresh tidal wetland, is the volume of runoff from 1" rainfall retained on site to meet the requirements of section 5(a)(1) of the subject permit?
1	NO	
2	NO	

Confirm that runoff (to non-fresh tidal wetlands) from 1" of rainfall is NOT retained for any discharges listed above ☐ YES

Part V: Stormwater Discharge Information (Continued)**Table 3**

3. Provide the following information about the receiving water(s)/wetland(s) that receive stormwater runoff from your site, either directly and/or through the Municipal Separate Storm Sewer System (MS4):				
Outfall #	a) To what system or receiving water does your stormwater runoff discharge? Select either "MS4" or "wetlands/waterbody". (If you select MS4, columns c.1&2 of this table are not required to be completed)	b) What is your watershed ID (Freshwater) or 305b ID (Estuary)? (Section 3.b., of the instructions DEP-PED-INST-14 explains how to find this information)	c.1) Is your receiving water identified as an impaired water?	If you answered yes to question c.1., then answer the question below. c.2) Has any Total Maximum Daily Load (TMDL) been approved for your receiving waterbody ?
1	Wetlands/Waterbody	CT4500-00_01	YES	Yes
2	Wetlands/Waterbody	CT4500-00_01	YES	Yes

Table 4

4. The following table must be filled out ONLY if you have a discharge to the ground. Provide information of any stormwater discharge(s) to the ground through Class V injection wells. Note that this permit does not authorize discharges to the ground. This information is for informational purposes only. For additional information visit EPA Groundwater Class V .					
a) Well Identifier	b) Description of Discharge	c) Discharge Volume (average flow/gallons per day)	d) Latitude/Longitude Note: To find lat/long, go to: CT ECO . Directions on how to use CT Eco to find Lat/Long are found in Part V, section d of DEP-PED-INST-14 .		e) What method was used to obtain your latitude and longitude information?
			Longitude	Latitude	

Part VI: Pollution Prevention Plan Availability

Note: All yellow fields are required

If available, provide an internet address (URL) where the Plan required by Section 5(c) of the subject general permit is accessible for public review.

- ☒ Check here for facilities that will be making an electronic Plan available pursuant to Section 4(c)(2)(H) & (D) of the subject general permit. Provide an email address of the contact person from which to obtain the plan.

Email Address:

URL:

Internet Address (URL) where the Plan will be electronically available.

- ☐ Check here for facilities that will not be making an electronic Plan available pursuant to Section 4(c)(2)(H) & (D) of the subject general permit.

Part VII: Confidential Information in the Pollution Prevention Plan

If the registrant claims that certain elements of their Plan constitute a trade secret or are otherwise exempt from the disclosure requirements of the state Freedom of Information Act (FOIA), they shall follow the procedure below regarding information subject to FOIA requirements:

Does your plan withhold certain confidential information from the public?

☒ Yes ☐ No

Please see directions below regarding withholding information.

Instructions for plan confidentiality:

Under the Connecticut Freedom of Information Act (FOIA), a Registrant may have reason to withhold from public disclosure certain information in a plan or document prepared and maintained pursuant to a requirement of the general permit. Such information in a plan or document may be redacted provided the Registrant makes specific notation on the registration form filed with the Department: (1) that such claim is being made with a brief explanation of the type of information being withheld or redacted and the reason(s) therefore; and (2) of the location within the plan or document where such information has been redacted or removed. A plan or document that is being made available for public review either on a website or provided directly to a member of the public as a hardcopy may be in its redacted form. However, when the Department requests such plan or document be submitted for Department review, the Department will require that it be submitted in its unredacted form, in which case the Registrant must specify the information within such plan or document that is claimed to be confidential with the specific notations described above. The Department will not release any such information to the public which the Registrant claims must be withheld unless a determination has been made by the Department and any subsequent appeal of such determination filed with the Connecticut Freedom of Information Commission results in a determination that such information shall not be withheld from the public. If the Registrant seeks a determination regarding such claim of confidentiality from the Connecticut Freedom of Information Commission without obtaining a prior determination from the Department, the Registrant shall notify the Department in writing of such pending determination, at which time the Department will not release such information to the public unless otherwise determined by the Connecticut Freedom of Information Commission.

Part VIII: Registrant Certification

The registrant and the individual(s) responsible for actually preparing the registration must sign this part. A registration will be considered incomplete unless all required signatures are provided.

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in the submitted information may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.

I certify that this permit application is on complete and accurate forms as prescribed by the commissioner without alteration of the text.

I also certify under penalty of law that I have read and understand all conditions of the General Permit for the Discharge of Stormwater from Industrial Activity issued on August 23, 2010(effective date of October 1, 2011), that all conditions for eligibility for authorization under the general permit are met, all terms and conditions of the general permit are being met for all discharges which have been initiated and are the subject of this registration, and that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowingly making false statements."

Signature of Registrant

Date

Vicki L. Shotland

Executive Secretary

Name of Registrant (print or type)

Title (if applicable)



April 26, 2017

Signature of Preparer (if different than above)

Date

Sebastian Amenta

P.E., Regional Program Director

Name of Preparer (print or type)

Title (if applicable)

Part IX: Summary page / Supporting Documentation

Note: All yellow fields are required

The list below identifies each attachment required to be submitted with this registration form. When submitting any supporting documents, please label the documents as indicated below (e.g., Attachment A, etc.) and be sure to include the registrant's name as indicated on this registration form.

- ☒ **Attachment A:** An 8 ½" X 11" copy of the relevant portion of a USGS Quadrangle Map with a scale of 1:24,000, showing the exact location of the facility needs to be submitted with this registration. Indicate the quadrangle name on the map, and be sure to include the registrant's name. (To obtain a copy of the relevant USGS Quadrangle Map, call your town hall or DEEP Maps and Publications Sales at 860-424-3555)
- ☐ **Attachment B:** Coastal Consistency Review Form (DEP-APP-004), if applicable.
- ☒ **Attachment C:** Request for NDDDB State Listed Species Review Form (DEP-APP-007) and additional documentation, if applicable.
- ☐ **Attachment D:** Conservation or Preservation Restriction Information, if applicable.
- ☐ **Attachment E:** Documentation regarding discharges within 500 feet of a tidal wetland that is not a fresh-tidal wetland, needs to be submitted with this registration, if applicable.
- ☐ **Attachment F:** Small scale composting facilities (composting horse manure and bedding only) are automatically required to submit a pollution prevention plan.
- ☐ **A payment in the amount of \$250.00**
- ☒ **A payment in the amount of \$500.00**
- ☐ **A payment in the amount of \$1,000.00**

Note: Please submit the fee along with a completed, printed and signed Registration Form and all additional supporting documents to:

**CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127**

Additional Representatives - Include This Page Only If Needed. All yellow fields are required

List engineering consultant, attorney or other representative employed or retained to assist in preparing the registration or maintaining permit compliance.

Consultant/Firm Name: Consultant Type:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: Ext.: Fax:

Email:

Service Provided:

List engineering consultant, attorney or other representative employed or retained to assist in preparing the registration or maintaining permit compliance.

Consultant/Firm Name: Consultant Type:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: Ext.: Fax:

Email:

Service Provided:

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List engineering consultant, attorney or other representative employed or retained to assist in preparing the registration or maintaining permit compliance.

Consultant/Firm Name: Consultant Type:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: Ext.: Fax:

Email:

Service Provided:

Appendix L

Regulatory Correspondence



Appendix M

Maintenance Records



Appendix N

Corrective Action Records

