



Storm Water Pollution Prevention Plan

Medical Area Total Energy Plant (MATEP) Boston, Massachusetts

PREPARED FOR:

Medical Area Total Energy Plant (MATEP)
474 Brookline Avenue
Boston, MA 02215

PREPARED BY:

ESS Group, Inc.
404 Wyman Street, Suite 375
Waltham, Massachusetts 02451

Project No. S460-007.07

January 2022
(Rev. 9)





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1.0 INTRODUCTION

1.1 Background

As required by the 1987 amendments to the Clean Water Act, in November 1990 EPA initiated the National Pollutant Discharge Elimination System (“NPDES”) stormwater-permitting program. Under the program, NPDES permits are required for all point source stormwater discharges associated with industrial activity. To provide flexibility for the regulated industries, EPA developed the group application.

The group application option allowed industrial facilities with similar activities to submit a unified application for permit coverage. Using the group application, a facility submits information regarding industrial activities, best management practices to minimize stormwater impact, potential materials exposed to stormwater and end-of-pipe stormwater sampling data. Based on the received data, US EPA developed the industry-specific Multi-Sector General Permit (“MSGP”) for Stormwater Discharges Associated with certain Industrial Activities. The MSGP was originally issued on September 29, 1995 and consequently updated on October 30, 2000, September 29, 2008, and June 4, 2015. The 2021 MSGP became effective on March 1, 2021. In developing the Multi-Sector General Permit, EPA divided the industrial activities to be covered by this permit into 29 industry sectors. Within each sector, the MSGP requires a facility to identify pollutants of concern, sources of pollutants and best management practices to be used by industry to control the potential pollutants from any applicable industrial activity.

Each facility covered by the MSGP must develop a Stormwater Pollution Prevention Plan (“SWPPP”) with the goal of eliminating, minimizing or reducing the amount of pollution in stormwater discharges from the facility. The SWPPP must include Best Management Practices (“BMP”)s that are selected, installed, implemented, and maintained in accordance with good engineering practices. The objective is to minimize pollutants in the stormwater runoffs so that the discharge will not cause or contribute to an excursion above any applicable water quality standards within receiving waters.

1.2 Facility Overview

The Medical Area Total Energy Plant (“MATEP”) facility is involved in electric, steam, and chilled water generation and uses combustion turbine combined cycle electric generation with heat recovery boilers to generate steam that is used to generate electricity in two steam turbine generators (STG) at its 474 Brookline Avenue facility. The facility provides reliable electricity, steam, and chilled water to the Longwood Medical and Academic Area (LMA), which is home to numerous hospitals and biomedical and pharmaceutical research and teaching facilities. MATEP employs the use of steam in its electric generating activities and is therefore covered under the MSGP 2021 as a Sector O facility (see section 3.1 for further explanation).

The facility is located in the Charles River Basin in Massachusetts and discharges its stormwater to the Boston Water and Sewer Commission (BWSC) stormwater pipe network that discharges to the Muddy River, which combines with the Charles River before flowing into Boston Harbor. On December 9, 2008, MATEP’s previous consultant (EBI Consulting Inc.) spoke with the EPA Region 1 Stormwater Coordinator, Thelma Murphy, regarding the impairment of waters further downstream from the initial receiving waters and was instructed to treat the initial receiving waters as the “receiving waters” for a facility’s stormwater discharge for the purposes of the MSGP 2008 and the SWPPP. This is continued in this SWPPP document.

The MATEP facility is an existing facility with an existing SWPPP under the MSGP 2015. This updated SWPPP has been prepared by ESS Group, Inc. (ESS) based on the information presented in the previous plan, a review of the facility engineering design and construction plans, an inspection of the facility, and review of the 2021 MSGP.

1.3 Summary of Plan Requirements

Compliance with the Multi-Sector General Permit requires that the permittee carry out activities that will assure that the objectives of the NPDES Permit program for stormwater discharges associated with the regulated industrial activities are achieved. One of the required activities is that a SWPPP is prepared, and its provisions carried out. The responsibility for carrying out the provisions of the SWPPP is given by MATEP to the Pollution Prevention Team (“PPT”) through a designated leader. As described in the SWPPP, the PPT is charged with executing the following tasks:

- Pollution Prevention Team Identification (“PPT”) (Section 2)
- Site Description (Section 3.0)
- Summary of Potential Pollutant Sources (Section 3.4)
- Annual Training (Section 3.9)
- Routine Inspections (Section 4.3)
- Monitoring (Section 4.5, 4.6 and 4.7)
- Annual Reports (Section 4.4)
- Release Notification, as necessary (Appendix I)

1.4 Plan Considerations

1.4.1. General Considerations

Each facility covered by the Multi-Sector General Permit must develop a SWPPP with the goal of eliminating, minimizing or reducing the amount of pollution in stormwater discharges from the facility. Each industry sector covered by the permit has industry specific SWPPP considerations. However, there are a number of general requirements that pertain to all facilities regardless of the sector designation. The general requirements to be addressed by the SWPPP are largely based on the baseline general permit requirements and are summarized below.

- Pollution Prevention Team (Section 2.0)
- Site Map (Figure 3)
- Runoff Location and Source (Figure 3)
- Industrial Activities (Section 3.1.4)
- Impervious Surface Estimates (Section 3.1.1)
- Precipitation Information (Section 3.1.2)
- Pollutant Sources (Section 3.4)
- Inventory of Significant Materials Exposed to Stormwater (Section 3.4.1)

- Spill History (Section 4.9)
- Non-Stormwater Discharge Evaluation (Section 3.4.4)
- Best Management Practices, which may include:
 - **Good Housekeeping** – good housekeeping in industrial areas exposed to stormwater
 - **Minimizing Exposure** – protection of industrial materials and activities by a storm-resistant shelter to prevent exposure to rain, snow, snowmelt or runoff
 - **Preventive Maintenance** - maintenance of stormwater controls and other facility equipment
 - **Spill Prevention and Response Procedures** - procedures used to minimize the potential for and the impact of spills
 - **Employee Training** – training of employees relative to: 1) pollution prevention measures, and 2) controls and record keeping
 - **Sedimentation/Erosion Control** – identification of areas with a high potential for erosion and the stabilization measures or structural controls to be used to limit erosion
 - **Traditional Measures and Controls** – implementation of traditional stormwater management measures (oil/water separators, limiting outdoor storage of materials, etc.) where they are appropriate for the site
 - **Other Controls** – Identification of other controls used for the minimization of stormwater runoff exposure to raw material, final or waste materials, sedimentation and airborne dust. Also, controls may include velocity dissipation devices, which may be employed at the stormwater outfalls
 - **Documentation and procedures** – for analytical monitoring as specified in the MSGP (Section 4.0)

1.4.2. Industry Specific Best Management Practices (“BMP”) Considerations

In addition to the general measures and controls discussed above, the permit includes certain SWPPP considerations that are specific to the applicable industry sector. These considerations are derived primarily from industry-specific information on sources of pollution or from BMPs that are currently in place at facilities in Sector O – Steam Electric Generating Facilities. The Industry Specific BMPs for Sector O can be found in the MSGP 2021 Section 8.O.4. The Industry-specific BMPs applicable to MATEP are summarized below:

- **Delivery Vehicles** – Minimize contamination of stormwater runoff from delivery vehicles arriving at the plant site. Follow MATEP Fuel Oil Delivery and Chemical procedures to inspect delivery vehicles arriving at the plant site and ensure overall integrity of the tanker truck and container are safe for offloading. Follow MATEP Integrated Contingency Plan (ICP) for procedures for responding to any leaks or spills from vehicles or containers.
- **Fuel Oil and Chemical Unloading Areas** – All fuel oil deliveries and unloading shall take place in the designated offloading stations inside the Truck Run per the Fuel Oil Delivery procedures. Trucks must be positioned in offloading containment areas while off-loading. Driver and MATEP trained personnel must be present during offloading at all times to communicate with Control Room to report any release or spill and implement the ICP.

- **Miscellaneous Loading and Unloading Areas** – All loading and unloading areas are located inside the Truck Run which has two (2) containment depressions for these activities. No loading or unloading is conducted outside the truck run.
- **Liquid Storage Tanks** – All liquid storage tanks are located inside the MATEP facility and are provided with secondary containment.
- **Large Bulk Fuel Storage Tanks** – Fuel oil tanks (FOT) are located inside the MATEP facility and are provided with secondary containment and leak detection. MATEP has developed and implemented a Spill Prevention, Control and Countermeasure (SPCC) Plan which is contained in the facility ICP. MATEP complies with all local, state, and federal requirements for underground storage tanks and aboveground storage tanks.
- **Spill Reduction Measures** – Minimize the potential for an oil or chemical spill, as referenced in the facility ICP. Tanks, piping, and pumps are inspected as part of MATEP’s routine facility inspection and structural integrity evaluations.
- **Oil-Bearing Equipment** – Minimize oil contamination of surface runoff areas from oil-bearing equipment on roofs and mobile equipment used outside of the facility.
- Sector O Facilities must document in the facility’s SWPPP the locations of any of the following activities or sources that may be exposed to precipitation or surface runoff: storage tanks, scrap storage, and general refuse areas; short- and long-term storage of general materials (including but not limited to supplies, construction materials, paint equipment, oils, fuels, used and unused solvents, cleaning materials, paint, water treatment chemicals, fertilizer, and pesticides); landfills and construction sites; and stock pile areas (e.g., coal or limestone piles). See Sections 3.3 and 3.4 of this plan for a detailed explanation of the activities and sources at the MATEP facility.
- **Documentation of Good Housekeeping Measures** – Sector O Facilities must document in the SWPPP good housekeeping measures implemented to meet the effluent limits in Part 8.O.5.2 of the 2021 MSGP.
- **Routine Inspections** – As part of Sector O Facility inspections, and as stated in the 2021 MSGP, the facility is required to inspect the following areas monthly: loading or unloading areas, fueling areas, bulk storage areas, maintenance areas, liquid storage tanks, and long term and short-term material storage areas. Since all of these activities occur inside the building or under cover, these activities do not come in contact with stormwater. Therefore, the routine facility inspection will be conducted quarterly as described in Section 3.1 of the 2021 MSGP.

2.0 POLLUTION PREVENTION TEAM (PPT)

The individuals that comprise the PPT are selected based on their familiarity with pollution control, pollution prevention, their day-to-day functional responsibility, and their responsibility regarding other environmental management plans in use at the facility. In addition, these individuals have the authority to define stormwater pollution prevention measures during the development of the Stormwater Pollution Prevention Plan and to implement these measures as required by the SWPPP. They are generally familiar with spill prevention, spill containment, emergency response (Integrated Contingency Plan) and pollution prevention best management practices.

The MATEP facility also maintains additional pollution prevention programs which contribute to the safety and proper environmental management of the facility. These include the Safety Manual which contributes



to the requirements for a SWPPP, and an Integrated Contingency Plan which contains procedures for both the SPCC Plan and an Emergency Response Plan. This SWPPP will identify specific individuals who are responsible for implementing and maintaining these Plans. These individuals will be familiar with spill prevention and containment, emergency response, and pollution prevention Best Management Practices in general.

The MATEP facility employs personnel trained to respond to any of the emergencies that could be expected to arise. This includes an Emergency Coordinator (EC) responsible for the control and direction of all in-plant response efforts during an emergency. The ICP plan identifies those individuals who function as the Emergency Coordinators as well as their specific responsibilities and response actions to various plant emergencies.

2.1 Team Members

POLLUTION PREVENTION TEAM

Leader: Peter Gluckler, Jr.
Title: Environmental Health & Safety Manager
Office phone: 617.598.2711
Responsibilities: Coordinates all stormwater pollution prevention activities, conducts stormwater sampling, performs inspections and oversees inspection program, coordinates record keeping activities.

Team Member: Paul Terrio
Title: Operations Manager
Phone: 617.598.2780
Responsibilities: Responsible for spill response, oversees inspection and daily operational activities, oversees good housekeeping procedures.

Team Member: Steven Reid
Title: Maintenance Manager
Phone: 617.598.2749
Responsibilities: Evaluate stormwater-related data and provide support to Operations and Maintenance Departments to develop and implement SWPPP systems. Responsible for implementing the preventative maintenance program. Supervises equipment and facility maintenance. Implements spill response procedures when the primary and backup Emergency Coordinators are off-site or unavailable.

2.2 Duties

The PPT leader, the facility designated responsible person for spill prevention, and the rest of the PPT members, are responsible for the following:

- Completing Certifications (Section 7.0)
- Identifying New Pollution Prevention Team (PPT) members (Section 2.0), as necessary
- Identifying Non-Stormwater discharges (Section 3.4.4)
- Recordkeeping (Section 4.1)
- Annual Training (Section 3.9)
- Routine Inspections (Section 4.3)

- Monitoring (Section 4.5, 4.6, and 4.7)
- Annual Reports (Section 4.4)
- Release Notification (Section 3.10.1)

3.0 FACILITY INFORMATION

1. Name of facility: Medical Area Total Energy Plant
2. Type of facility: Combination Utilities, Not Elsewhere Classified (SIC code = 4939)
3. Location of facility: 474 Brookline Avenue, Boston, Massachusetts 02215 (see Figure 1)
4. Storm Water Runoff Flow and Spill Flow Prediction (see Figure 3)
5. Receiving Water Body: Muddy River
6. Latitude/Longitude:

Latitude: 42.336892 Longitude: -71.108393

Method for determining latitude/longitude: <http://itouchmap.com/latlong.html>

Horizontal Reference Datum: NAD83

3.1 Site Description

The Medical Area Total Energy Plant (MATEP) facility is located in a limited industrial land use zone. A vicinity map showing the surrounding Boston, Massachusetts area is provided as Figure 1. A Facility Site Map showing the building roof layout and the locations of Outfalls and all drains is provided as Figure 3. The MATEP facility is located in the Charles River Basin in Massachusetts and discharges its stormwater to the Muddy River via the BWSC storm drainage systems located under Francis Street and Brookline Avenue.

The MATEP combined cycle power plant produces electric power from Combustion Turbine and Steam Turbine driven generators. The Combustion Turbine Generators (CTG) are dual fuel fired units using natural gas and Ultra Low Sulfur Diesel (ULSD) fuel oil. Waste heat from the Combustion Turbine Generator exhaust is recovered and used to produce steam in Heat Recovery Steam Generators (HRSG). The steam is then used to drive two STGs, which generate additional electricity. The North American Industry Classification System (NAICS) codes for MATEP's facility operations include 221112, Fossil Fuel Electric Power Generation and 221330, Steam and Air-Conditioning Supply. The Standard Industrial Classification (SIC) Code for MATEP's facility operations is 4939, Combination Utilities, Not Elsewhere Classified. Although the MSGP 2021 is primarily SIC Code based, for Sector O – Steam Electric Generating Facilities – the permit uses an activity code, SE (Steam Electric), instead of the facility's SIC code in order to avoid confusion with regard to various types of power generation facilities and their coverage under the MSGP 2021.

Based on the EPA's definition of Sector O facilities employing steam in electric power generation, MATEP is covered by the MSGP 2021, because it is a combined-cycle power generation facility and employs steam (via the HRSG and steam boilers) in its power generation activities.

Sector O Facilities are characterized by activity code SE, which is listed in the 2021 MSGP, Table D-1 – Sectors of Industrial Activity Covered by This Permit. Such facilities are therefore required to submit a

Notice of Intent (“NOI”) and to obtain permit coverage for their stormwater discharges. The due date of the NOI was May 30, 2021. MATEP filed the NOI upon completion of a review and revision of this SWPPP in April 2021. A copy of the NOI is included in Appendix A of this plan.

MATEP has chosen to obtain coverage for their stormwater discharges under the Multi-Sector General Permit program. A copy of MATEP’s NPDES Stormwater Multi-Sector Permit authorizing the discharge of stormwater associated with Multi-Sector activities is maintained in Appendix C of this plan. One of the requirements of permit coverage is the preparation and implementation of this Stormwater Pollution Prevention Plan (SWPPP). The MSGP has both general and industry specific requirements. Based on Activity Code SE, MATEP falls within industry Sector O, Steam Electric Generating Facilities, under the Multi-Sector General Permit. The sector specific requirements for SWPPP development for this industry sector are presented in Section 1.4.2 of this plan.

3.1.1 Impervious Surfaces Estimate

The MATEP facility drains approximately 1.876 acres (81,719 square feet), of which industrial activity occurs on the entire property, except a small portion of the roof on the Francis Street side of the facility. The entire property is impervious rooftop or paved access pathways. The rooftop and paved impervious areas have been marked in the facility Site Plan in Figure 3.

3.1.2 Precipitation Information

According to the National Weather Service, Boston, Massachusetts receives an average of about 44 inches of precipitation a year. The precipitation can fall in the form of snow or sleet from November thru March, and it can rain during any month of the year.

3.1.3 Receiving Water and Wetlands

MATEP is located in the Charles River Basin. Stormwater runoff at the facility is collected in a series of roof drains, piped through the MATEP facility, and discharged to the BWSC storm drainage system under Francis Street and Brookline Avenue via Outfalls 001, 002 (no industrial activity), 003, and 004. The BWSC storm drain system utilized by the MATEP facility drains directly into the Muddy River via BWSC storm drain outfall number 161, located less than ¼ mile to the southwest of the MATEP facility (near the intersection of Brookline Avenue and the Riverway). The Muddy River combines with the Charles River before flowing into Boston Harbor. On December 9, 2008, a representative from MATEP’s previous consultant (EBI Consulting) spoke with the EPA Region 1 Stormwater Coordinator, Thelma Murphy, regarding the impairment of waters further downstream from the initial receiving waters and was instructed to treat the initial receiving waters as the “receiving waters” for a facility’s stormwater discharge for the purposes of the MSGP 2008 and this SWPPP. Accordingly, the initial receiving waters for the MATEP stormwater discharge is the Muddy River, a waterway currently classified as an impaired water according to the Massachusetts Integrated Waters List, pursuant to Section 303(d) of the Clean Water Act.

3.1.4 Summary of Industrial Activities

The majority of industrial activities conducted at the MATEP facility take place indoors; however, the facility does have certain activities which are exposed to stormwater. The majority of these activities are related to the operation and maintenance of the plant’s cooling towers and other ancillary equipment located on the roof, as well as the storage of spare parts or parts in need of servicing.

Please refer to Section 3.3 of this plan for further delineation of activities occurring in the various drainage areas.

3.2 Management of Stormwater Runoff

The MATEP facility is designed with a series of roof drains that collect and discharge the facility's stormwater via one of three outfall points. The facility has four (4) main drainage areas, designated Drainage Areas 001, 002, 003 and 004. Water collected on the rooftop is discharged via Outfalls 001, 002 (no industrial activity), 003, and 004 to the BWSC storm drain system described in Section 3.1.3.

3.3 Drainage Areas and Outfall Descriptions (Refer to Figure 3)

3.3.1 Drainage Area 001

The total area of Drainage Area 001, located on the Binney Street side of the property, is approximately 32,198 sq. ft. Drainage Area 001 is comprised entirely of impervious rooftop and machinery surfaces. Runoff from this drainage area is collected in a series of roof drains and flows into the Francis Street storm drain via a 15" drainage pipe in the basement of the MATEP facility. The stormwater exits the building at Outfall 001 and eventually drains into the Muddy River (see Figure 3 for exact location).

3.3.2 Drainage Area 002

No industrial activity takes place within Drainage Area 002. The total area of Drainage Area 002, located in the center of the MATEP facility on the Francis Street side, is approximately 2,015 sq. ft. Drainage Area 002 is comprised entirely of impervious rooftop surfaces. Runoff from this drainage area is collected in a series of roof drains and flows into the Francis Street storm drain via a 6" drainage pipe in the basement of the MATEP facility. The stormwater exits the building at Outfall 002 and eventually drains into the Muddy River (see Figure 3 for exact location).

3.3.3 Drainage Area 003

The total area of Drainage Area 003, located on the corner of Francis Street and Brookline Avenue, is approximately 5,235 sq. ft. Drainage Area 003 is comprised entirely of impervious rooftop and machinery surfaces. Runoff from this drainage area is collected in a series of roof drains and flows into the Brookline Avenue storm drain via an 8" drainage pipe in the basement of the MATEP facility. The stormwater exits the building at Outfall 003 and eventually drains into the Muddy River (see Figure 3 for exact location).

3.3.4 Drainage Area 004

The total area of Drainage Area 004, located along Brookline Avenue, is approximately 6,779 sq. ft. Drainage Area 004 is comprised entirely of impervious rooftop and machinery surfaces. Runoff from this drainage area is collected in a series of roof drains and flows into the Brookline Avenue storm drain via a 10" drainage pipe in the basement of the MATEP facility. The stormwater exits the building at Outfall 004 and eventually drains into the Muddy River (see Figure 3 for exact location).

3.3.5 Main Cooling Tower Fan Deck

The total area of Main Cooling Tower Fan Deck, located in the center of the MATEP facility, is approximately 22,580 sq. ft. The Fan Deck is comprised entirely of impervious rooftop and machinery surfaces. Stormwater collected in this area is retained in the cooling tower basin and is used as

make-up water for cooling tower operations. There is no stormwater discharge to the environment from the Fan Deck (see Figure 3 for exact location). Blowdown from the cooling tower water system discharges to the sanitary sewer.

3.4 Inventory of Potential Pollutant Sources

3.4.1 Inventory of Significant Material Exposed to Stormwater

Drainage Area 001

The materials that could be potentially exposed to stormwater in Drainage Area 001 are metal parts and equipment, propane and nitrogen gas tanks/cylinders, occasional drummed oil and antifreeze transfers, and the potential for cooling tower process water overflow. Deaerator (DA) Venting occurs in Drainage Area 001 and could potentially allow steam from boilers to re-condense and release minor quantities of condensate onto the roof of the facility and into the stormwater drainage system. There are four (4) gas compressors located on the roof that have oil containing equipment. The compressors are enclosed in weather tight enclosures with secondary containment, but maintenance activities do require handling oil containers (drums or buckets) in this area. In addition, the plant's ventilation exhaust fans from general plant ventilation are exhausted from the roof in this drainage area and the plant has industrial processes that are exhausted from the roof in this drainage area. These vents and stacks are operating in conformance with MATEP's existing air permits, however, emissions from exhaust stacks and vents can contain particulate matter, oil and/or steam condensate that comes in contact with stormwater (see Appendix L – Industrial Activity Exposure Documentation for further explanation).

Drainage Area 001 is located above the facility's Truck Run, which is a fully enclosed street-level loading area equipped with secondary containment for chemical and fuel deliveries. Due to the enclosed nature of the Truck Run, there is no potential for stormwater exposure.

Drainage Area 002

No industrial activity takes place within Drainage Area 002. There are no raw materials, intermediate materials, or byproducts which are stored in a manner normally allowing exposure to storm water in this area. The potential exists for cooling tower process water overflow to enter Drainage Area 002.

Drainage Area 003

The materials that could be potentially exposed to stormwater in Drainage Area 003 are the occasional drummed oil transfers and filter changes on the Diesel Crank Case Ventilation Exhaust Filters, and the potential for cooling tower process water overflow. During the winter months, MATEP personnel keep a supply of Ice Melt ($MgCl_2$ 10%-NaCl 90%) in Drainage Area 003 to de-ice the roof when necessary for employee safety. In addition, the plant has industrial processes that are exhausted from the roof in this drainage area. These stacks are operating in conformance with MATEP's existing air permits; however, emissions from exhaust vents can contain particulate matter, oil and/or steam condensate that comes in contact with stormwater (see Appendix L – Industrial Activity Exposure Documentation for further explanation).

Drainage Area 004

There are no raw materials, intermediate materials, or byproducts which are stored in a manner normally allowing exposure to storm water in this area. The potential exists for cooling tower process water overflow to enter Drainage Area 004. In addition, the plant has industrial processes that are exhausted from stacks on the roof in this drainage area. These stacks are operating in conformance with MATEP’s existing air permits, however, emissions from exhaust vents can contain particulate matter and/or steam condensate that comes in contact with stormwater (see Appendix L – Industrial Activity Exposure Documentation for further explanation).

Summary

Under normal operating conditions, potential sources of stormwater contaminant discharge include cooling tower process water overflow, transfer of oils and chemicals, storage of materials on the roof, weathering of rooftop equipment, and process venting from operations occurring within the facility that are covered under MATEP’s existing air permits. The potential stormwater pollutants are described below.

Potential Pollutants	Source
Oil & Grease	Routine Maintenance
Crank Case Oil	Spill during transfer
Metal Parts and Equipment	Storage/Ongoing Maintenance
Various Chemicals	Spill during transfer
Industrial Process Water	Cooling Tower Overflow
Ice Melt (MgCl ₂ 10%-NaCl 90%)	Winter Storage/Usage
Particulate matter, oil and steam condensate	Emissions from Permitted Stacks
Iron	Weathering of Rooftop Equipment

3.4.2 Industrial Activities Exposed to Stormwater

Chemical and oil transfer and delivery activities in bulk and discrete quantities occur in a covered receiving area (“Truck Run”) within the building under the direct supervision of MATEP personnel and are completely enclosed and protected from stormwater. Two Truck Run delivery bays are equipped with secondary containment areas which drain to the South Coffey Dam under the Truck Run which has a nominal capacity of 236,000 gallons. The truck run is a fully enclosed area with capacity for two tank trucks at a time, and stormwater exposure is limited to periods when trucks are entering and exiting from the enclosed Truck Run area. Roll up doors protect both entrances of the Truck Run at all times except when trucks are actively entering or exiting.

Drainage Area 001

Drainage Area 001 includes the primary process venting systems and stacks for the MATEP facility. Specific industrial activities in Drainage Area 001 include ongoing maintenance and repair, drummed oil and antifreeze transfer, gear oil change-out activities, the venting of plant processes, the operation of cooling towers, and miscellaneous storage of propane, nitrogen and metal parts and equipment. Additionally, there are four (4) gas compressors located on the truck run roof that have oil containing equipment. The compressors are enclosed in weather-tight

enclosures with secondary containment, but maintenance activities do require handling oil containers (drums or buckets) in this area.

Drainage Area 002

There are no industrial activities occurring in Drainage Area 002.

Drainage Area 003

Industrial activities in Drainage Area 003 primarily involve the change-out of the Diesel Crank Case Ventilation Exhaust Filters and the activities associated with this process, as well as the venting of plant processes, the operation of cooling towers, and general ongoing cooling tower repair and maintenance.

Drainage Area 004

Industrial activities in Drainage Area 004 primarily involve the venting of plant processes, the operation of cooling towers, and general ongoing cooling tower repair and maintenance activities.

3.4.3 Potential Spills and Leaks

The potential for spills or leaks at the MATEP facility has been minimized since the majority of oil handling activities occur within enclosed portions of the facility and are protected from stormwater with secondary containment structures with volumes capable of handling 110% or more of the liquid being stored or transferred. The greatest potential for spills exists in Drainage Area 001 where transfer operations of gear oil, compressor oil, and antifreeze occur during gear and compressor oil change-out and intake air heat exchange coil draining activities. There is also a chance that a spill could occur in Drainage Area 003 during the Diesel Crank Case Ventilation Filter change-out. However, the chance that this activity could influence stormwater quality is minimal.

3.4.4 Non-Stormwater Discharge Background

The MSGP for stormwater discharges associated with industrial activity requires that all discharges authorized by the MSGP be composed entirely of stormwater. The MSGP also requires discharges of “material other than stormwater” be brought into compliance with another type of NPDES permit issued for that discharge.

The MSGP does allow certain “authorized non-stormwater discharges.” These are listed below. However, the authorized non-stormwater discharges must be identified in the Stormwater Pollution Prevention Plan and the Plan must describe the system of pollution prevention measures that will be used to control the quality of the discharges. The authorized non-stormwater discharges are runoff from:

- Fire-fighting activities
- Fire hydrant flushings
- Potable water sources including water line flushings
- Irrigation drainage
- Lawn watering
- Routine external building wash down (which does not use detergent or compounds)

- Pavement wash water where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material was removed) and where detergents are not used)
- Air conditioning condensate
- Springs
- Uncontaminated groundwater
- Foundation and footing drain water that is not contaminated
- Incidental windblown mist from cooling towers that collects on rooftops but not intentional discharges from cooling towers (e.g., “piped” cooling tower blowdown or drains)

3.4.5 Non-Stormwater Discharge Evaluation

In addition, the MSGP requires that the SWPPP includes a certification that the stormwater discharges authorized by the MSGP have been tested or evaluated for the presence of non-stormwater discharges (not including authorized non-stormwater discharges). The certification must include the following information for each authorized discharge:

- The identification of potential significant sources of non-stormwater at the facility
- A description of the results of any test/evaluation for the presence of non-stormwater discharges
- The testing/evaluation methods and decision criteria used
- The date the testing/evaluation took place
- A listing of the drainage points directly observed during the testing/ evaluation process
- The actions taken to eliminate unauthorized discharges

MATEP conducted the required testing/evaluation of the facility stormwater drainage system during a site inspection conducted by ESS. The drainage area characteristics and associated activities are presented in Table 1. The drainage areas and outfall locations were identified and inspected on March 9, 2021. The inspection included visual inspections of the drainage system components such as roof drains, drainage pathways, and outfall locations. The inspection did not reveal any evidence of unauthorized discharges from the facility during the site visit. Authorized non-stormwater discharges that were observed by ESS consisted of condensate from the CTG air intake cooling coils and cooling tower mist.

3.5 Existing Stormwater Sampling Data

There have been no records of significant quantities of pollutants being discharged to the stormwater system by MATEP. All sampling results are kept on file at the MATEP facility and are available on request.

3.6 Non-Structural Controls

3.6.1 Existing Controls

MATEP completed a video inspection of the facility stormwater drain lines in 2015 and again in 2017, and the Outfall 004 drains in 2020. Based on the results of these inspections, MATEP cleaned those

portions of the drain lines affected by sediment accumulation and scale. MATEP may periodically undertake additional video inspections and cleanings in the future as actual conditions warrant.

The MATEP facility practices the following controls:

Roof Drains shall be cleaned as necessary and inspected for proper operation and/or the presence of pollutants annually. Debris/Sediment is removed from the roof drains as necessary to ensure proper operation. In addition, roof drain filters are replaced periodically; typically, once every three months.

- Direct supervision of unloading operations by trained MATEP employees.
- All rooftops and roof drains are kept in good working order.
- Good housekeeping activities which call for frequent inspection of all areas with immediate clean-up of errant materials such as trash and debris.
- Supervision by MATEP personnel of all visitors, contractors, and deliveries.
- Communicating to contractors the importance of clean-up, covering construction related debris and materials, and coordinating housekeeping activities with MATEP.
- The implementation of the facility SPCC Plan (ICP).
- Posting signage near select roof drains to remind employees and contractors that the roof drains discharge into the Muddy River.
- Installation of vent discharge lines that connect to CTG air inlet heating coil vent valves and empty into 55-gallon drums, so as to capture any release due to an inadvertent movement of the vent line valve position.

A punch list is maintained in Appendix M to assist the facility in achieving the objectives of the Plan.

3.6.2 Planned Non-Structural Controls

The CTG-3 air intake and exhaust duct work installation and relocation work were completed during 2017. The roof area was cleaned following the construction to remove any debris or materials that may have remained.

3.7 Structural Controls

3.7.1 Sedimentation and Erosion Controls

Drainage Area 001

All of Drainage Area 001 consists of impervious rooftops; no additional controls are warranted.

Drainage Area 002

No industrial activity takes place within Drainage Area 002. All of Drainage Area 002 consists of impervious rooftops; no additional controls are warranted.

Drainage Area 003

All of Drainage Area 003 consists of impervious rooftops; no additional controls are warranted.

Drainage Area 004

All of Drainage Area 004 consists of impervious rooftops; no additional controls are warranted.

3.7.2 Existing Structures

Based on video surveys conducted in 2015 and again in 2017, certain sections of cast iron stormwater drainpipe were replaced with new pipe. Cast iron pipe may oxidize in the presence of water and begin to degrade or corrode over time. This is commonly exhibited by cracking and pitting.

Drainage Area 001

Structural controls for this area include roof drains and properly sloped roof angles to allow for the drainage of stormwater and minimize any accumulation or ponding.

Drainage Area 002

No industrial activity takes place within Drainage Area 002. Structural controls for this area include roof drains and properly sloped roof angles to allow for the drainage of stormwater and minimize any accumulation or ponding.

Drainage Area 003

Structural controls for this area include roof drains and properly sloped roof angles to allow for the drainage of stormwater and minimize any accumulation or ponding.

Drainage Area 004

Structural controls for this area include roof drains and properly sloped roof angles to allow for the drainage of stormwater and minimize any accumulation or ponding.

Main Cooling Tower Fan Deck

The Fan Deck contains the facility's cooling tower operations and is adequately designed to collect any stormwater that comes in contact with the cooling tower process water. The cooling towers are equipped with automated valves on the suction piping designed to prevent the overflow of cooling tower process water onto the roof and into the facility's stormwater drainage system.

3.7.3 Planned Structural Controls

There are no planned structural controls scheduled.

3.7.4 Maintenance Controls

MATEP has an active preventative maintenance program in place for plant equipment, including stormwater management structures and air pollution control equipment. All such equipment and structures are inspected periodically in accordance with the PM schedule and repaired as needed to prevent pollution from being carried away in stormwater runoff.

The MATEP facility roof holds a significant array of metal equipment and structures, which require periodic painting and repair to prevent corrosion. Metal equipment and structures currently affected by corrosion were identified in a survey conducted in 2015. The identified structures have been

painted in accordance with the survey. This also included cleaning and painting roof drain bowls and covers.

Based on video surveys conducted in 2015 and again in 2017, and of the Outfall 004 drains in 2020, certain sections of cast iron stormwater drainpipe were evaluated for cleaning or replacement with new pipe. Cast iron pipe may oxidize in the presence of water and begin to degrade or corrode over time. This is commonly exhibited by cracking and pitting. As of 2020, all sections identified in the video surveys that were affected by sediment and scale have been cleaned or replaced.

3.8 Other Controls

Other controls are those controls which are identified as minimizing the exposure of stormwater runoff to raw material, final product or waste materials, sedimentation, and airborne dust; it may also include structural controls such as velocity dissipative devices at outfalls.

MATEP employs the use of industry standard equipment to reduce pollution and protect the environment.

Implementing structural improvements, enhanced/resilient pollution prevention measures, and other mitigation measures can help to minimize impacts from stormwater discharges from major storm events such as hurricanes, storm surge, extreme/heavy precipitation, and flood events. MATEP has considered the following additional control measures and found them to not be applicable for the facility.

- Reinforce materials storage structures to withstand flooding and additional exertion of force.
- Prevent floating of semi-stationary structures by elevating to the Base Flood Elevation (BFE) level or securing with non-corrosive device.
- When a delivery of exposed materials is expected, and a storm is anticipated within 48 hours, delay delivery until after the storm or store materials as appropriate (refer to emergency procedures).
- Temporarily store materials and waste above the BFE level.
- Temporarily reduce or eliminate outdoor storage.
- Temporarily relocate any mobile vehicles and equipment to higher ground.
- Develop scenario-based emergency procedures for major storms that are complementary to regular stormwater pollution prevention planning and identify emergency contacts for staff and contractors.
- Conduct staff training for implementing your emergency procedures at regular intervals.

MATEP has considered the following additional control measures for major storm events and found them to be applicable to the facility:

- Temporarily reschedule maintenance of roof-top equipment so as to reduce or eliminate any outdoor storage of exposed materials or equipment that may be associated with those maintenance activities.

3.9 Employee Training

Trained employees are critical to achieving the objectives of the SWPPP. Therefore, Pollution Prevention Team (“PPT”) members, contractors and others as identified by the PPT, who may be working where significant materials are handled, will be given instruction that will provide information regarding:



- Environmental laws and regulations
- Pollution prevention concepts
- The goals of the SWPPP
- The content of the SWPPP
- The Pollution Prevention Systems to be utilized in all areas at the facility to minimize the pollutants in facility's stormwater discharges
- The Best Management Practices that will be used to minimize potential contamination of stormwater
- Facility spill/release Emergency Response Procedures

The SWPPP training must be provided to all PPT members and other involved personnel as of the date of this Plan. Refresher training sessions must be held at least once per year, usually following the completion of the Site Compliance Evaluation and SWPPP revisions. Records of the date and personnel receiving training must be maintained at the facility (refer to Appendix K – Training Records).

3.10 Spill Prevention and Reporting

As required by the conditions of the MSGP, all spills will be recorded and documented within the SWPPP; all spills occurring within the 3 years prior to the initial preparation of the SWPPP must be documented as well. All facility personnel who would engage in emergency spill response should be fully trained and properly equipped. Detailed reports including date and time of the incident, location, volume and contents of spill, weather conditions, response procedures, parties notified, recommended revisions to the BMP program, operating procedures, and/or equipment needed to prevent recurrence will be completed by the PPT (Section 2.0).

In the event of a minor spill of a significant material, trained facility personnel will perform specific response procedures as are outlined in the MATEP ICP Plan (Available from the Environmental Health & Safety Manager). All facility personnel who would engage in emergency spill response will be fully trained and properly equipped. Spill control equipment is outlined in the SPCC Plan.

3.10.1 SWPPP Modification

As required by the conditions of the MSGP, all spills will be recorded and documented within the SWPPP. The SWPPP must be modified in accordance with Section 4.3.2 of the MSGP to address any deficiencies that allowed the spill to occur. In order to prevent recurrence of the spills, the PPT must complete detailed reports in Appendix I (Description of Reportable Quantity (RQ) Releases).

A blank copy of the Spill Report is available in Appendix I. Completed reports shall be stored within this plan in Appendix I. Modifications of this SWPPP are maintained in a log in Appendix N.

4.0 STORMWATER MONITORING AND REPORTING

4.1 Record Keeping and Internal Reporting

It is recognized that spill and pollution prevention efforts can be enhanced by retaining records in an orderly manner in one location. The MSGP requires that records regarding stormwater pollution prevention activities be maintained at the facility for three years.

The SWPPP must be retained for at least three years from the date that the facility's coverage under this permit expires or is terminated.

The records retained must include:

- The Stormwater Pollution Prevention Plan
- Any previous Notice of Intent or Notice of Terminations previously filed
- The Notice of Intent to comply with the Multi-Sector General Permit
- All inspection reports
- All response reports related to corrective actions
- All spill reports
- All Annual Reports
- All revisions to the SWPPP
- All dike drainage logs
- All stormwater related maintenance reports
- All stormwater monitoring records
- All signed certifications

As a condition of the MSGP, the MATEP facility is required to conduct quarterly visual assessment of its stormwater discharges and indicator analytical monitoring of stormwater runoff for certain parameters/pollutants. The quarterly visual examination provides a simple, low cost means of assessing the quality of the discharge with immediate feedback. The analytical monitoring will generate water quality data that must be submitted to EPA. The Annual Report will summarize all the data from the previous year and provide a detailed report on stormwater conditions at the facility for EPA.

EPA has provided detailed guidance regarding how to collect stormwater run-off samples. Please refer to Appendix G and Section 4.6.3 of this plan. There are several variables that can greatly influence the quality of the run-off; adherence to correct procedures is critical if accurate data is desired.

4.2 Monitoring Locations and Substantially Identical Outfalls

Sampling Location Description:

- Outfall 001 – The discharge from Drainage Area 001, refer to Figure 3
- Outfall 003 – The discharge from Drainage Area 003, refer to Figure 3
- Outfall 004 – The discharge from Drainage Area 004, refer to Figure 3

Stormwater runoff samples from the MATEP facility will be collected from Outfalls 001, 003, and 004. The facility redesigned and modified the three stormwater sampling outfall ports in 2015. These changes have allowed the facility to more accurately measure pollutant levels in the facility's stormwater discharge. It is believed that sediment can accumulate in the sample line "drop legs" over time, biasing the sampling

results. These changes are intended to allow for the collection of data that is more representative of actual storm water pollutant concentrations in MATEP's discharge.

There is no industrial activity occurring in Drainage Area 002.

4.3 Routine Facility Inspections

Routine facility visual inspections designed to uncover potential spill conditions and other conditions with a potential to release pollutants into a stormwater discharge are conducted as part of the SWPPP. At least once each calendar year, the routine inspection must be conducted during a period when a stormwater discharge is occurring. Inspections must be performed by qualified personnel and with at least one member of the stormwater pollution prevention team participating. Qualified personnel are those knowledgeable in the principles and practices of industrial stormwater controls and pollution prevention, and who possesses the education and ability to assess conditions at the industrial facility that could impact stormwater quality, and the education and ability to assess the effectiveness of stormwater controls selected and installed.

The routine inspection will be scheduled using the facility Work Order (WO) tracking system called MAXIMO. Quarterly, a WO will be issued to be completed in that quarter by the Operations Department. The Operations Manager (PPT Member) is responsible for verifying that the inspections have been properly carried out and that the completed inspection form is sent to the PPT Leader for review and filing. The areas to be inspected and the inspection frequency are listed in Table 2.

During each inspection, an inspection report form must be filled out.

- Blank inspection report forms (Routine Inspection Checklist) are available in Appendix F and will be printed out with the quarterly inspection Work Order.
- The inspection form will be discussed with the Shift Supervisor, who will arrange the appropriate response to the actual or potential problems identified during the inspection and notify the PPT Leader.
- The Shift Supervisor will take immediate actions if required to prevent a stormwater release or generate a Work Order to have any non-emergency conditions corrected. WO's generated from these inspections will be given the priority "EHS" designation in MAXIMO.
- The PPT leader will prepare a report describing the actions taken in response to the identification of an actual or potential problem and a copy will be included in Appendix E.
- Completed inspection forms will be maintained in Appendix F along with any action reports.

4.4 Annual Report

The Annual Report must be submitted to EPA electronically by January 30th for each year of permit coverage containing information generated from the past calendar year. The following information must be included:

- A summary of the past year's routine facility inspection documentation.
- A summary of the past year's quarterly visual assessment documentation.

- A summary of your past year's corrective action and any required Additional Implementation Measures (AIM) documentation. If the facility has not completed required corrective action or AIM responses at the time the facility submits the annual report, the facility must describe the status of any outstanding corrective action(s) or AIM responses. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that the facility is in compliance with the permit.

The Annual Report must also include a statement, signed and certified in accordance with Appendix D, Subsection 11 of the 2021 MSGP. The Annual Report must be filed electronically by January 30th of each year. Completed annual reports will be maintained in Appendix D of this plan and completed corrective action reports will be maintained in Appendix E.

4.5 Quarterly Visual Assessment Requirements

MSGP regulations define the four quarters of the year as January 1 to March 31; April 1 to June 30; July 1 to September 30; and October 1 to December 31. At least once each calendar quarter, visual inspections must be conducted by facility personnel or their qualified subcontractors to determine the quality of the stormwater discharge. As part of the quarterly visual assessment, at least one grab sample must be taken from Outfall 001, Outfall 003, and Outfall 004 during a measurable storm event, during each quarter.

If feasible, at least one quarterly visual assessment must capture snowmelt discharge as described in Section 3.2.4.3 of the 2021 MSGP. Because of the facility's urban location and the quantity of mechanical equipment and process vents and exhaust ducting on the roof, snow does not typically accumulate on the roof except in unusual circumstances involving large storm events or lower than normal ambient temperatures. As a result, capturing snow melt at least one quarter every year is not always feasible.

The stormwater is collected in a manner to assure that the samples are representative of the stormwater discharge. Samples are collected in a clean clear glass or plastic container and examined in a well-lit area. Samples are typically collected within the first 30 minutes of an actual discharge from a storm event or as soon as practicable after the first 30 minutes. Documentation should be provided if it was not possible to take samples within the first 30 minutes. In the case of snowmelt, samples are taken during a period with a measurable discharge from the site once snow melt has occurred.

For storm events, the sample should be from a storm event in which there were no previous stormwater events in the previous 72 hours (3 days) from the previous discharge. The 72-hour (3-day) storm interval does not apply if MATEP documents that less than a 72-hour (3-day) interval is representative for local storm events during the sampling period.

Visually inspect the sample for the following water quality characteristics:

- Color
- Odor
- Clarity
- Floating solids
- Settled solids

- Suspended solids
- Foam
- Oil sheen
- Other obvious indicators of stormwater pollution

Once the visual assessment has taken place, document the results of the visual assessments and maintain this documentation in Appendix G. Do not submit visual assessment findings to the EPA or the Massachusetts Department of Environmental Protection, unless specifically requested to do so. At a minimum, documentation of the visual assessment must include:

- Sample location(s)
- Sample collection date and time, and visual assessment date and time for each sample
- Personnel collecting the sample and performing visual assessment, and their signatures
- Nature of the discharge (i.e., runoff or snowmelt)
- Results of observations of the stormwater discharge
- Probable sources of any observed stormwater contamination
- If applicable, why it was not possible to take samples within the first 30 minutes
- Any corrective action required as a result of the visual assessment

As with any other activity onsite, health and safety are of utmost importance.

Quarterly Visual Assessment Procedures and Inspection Forms are available and will be maintained in Appendix G.

4.6 Stormwater Monitoring and Reporting

In addition to the benchmark and indicator monitoring requirements detailed in this section, Sector O Facilities are also subject to Effluent Limitations based on Effluent Limitations Guidelines as defined in the MSGP for discharges from coal storage piles at Steam Electric Generating Facilities. MATEP does not employ the use of coal or store coal at the facility, and therefore, MATEP is not subject to effluent limitations based on effluent guidelines for discharges from coal storage piles.

4.6.1 Benchmark Stormwater Monitoring and Reporting for Sector O Facilities

The MSGP stipulates pollutant benchmark concentrations that may be applicable to a discharge. The benchmark concentrations are not effluent limitations. A benchmark exceedance, therefore, is not a permit violation. Benchmark monitoring data are primarily for the site's use to determine the overall effectiveness of the control measures and to assist in knowing when additional corrective action(s) may be necessary to comply with the effluent limitations.

The facility is covered under "Sector O – Steam Electric Generating Facilities" of the MSGP. As indicated in Part 8, Sector-Specific Requirements for industry Activity, of the MSGP, facilities in this sector are no longer required to perform benchmark monitoring.

4.6.2 Indicator Monitoring

This permit requires indicator monitoring of stormwater discharges for three parameters – pH, Total Suspended Solids (TSS), and Chemical Oxygen Demand (COD) – for certain sectors/subsectors and for polycyclic aromatic hydrocarbons (PAHs) for Subsector O1. Indicator monitoring data will provide the facility and EPA with a baseline and comparable understanding of industrial stormwater discharge quality and potential water quality problems. The indicator monitoring parameters are “report-only” and do not have thresholds or baseline values for comparison. Therefore, no follow-up action is triggered or required under this part. The facility may find it useful to evaluate and compare its indicator monitoring data over time to identify any fluctuating values and why they may be occurring, and to further inform any revisions to your SWPPP and stormwater control measures if necessary. Indicator monitoring is report-only and is neither benchmark monitoring nor an effluent limitation. Instead, it is a permit condition. Thus, failure to conduct indicator monitoring is a permit violation.

4.6.3 Schedule of Indicator Monitoring (pH, TSS, and COD)

The facility must conduct indicator monitoring of stormwater discharges for pH, TSS, and COD each quarter, beginning in your first full quarter of permit coverage.

4.6.4 Schedule of Indicator Monitoring (PAHs)

The facility must conduct indicator monitoring of stormwater discharges for PAHs bi-annually (i.e., sample twice per year) in the first and fourth years of permit coverage. The first year of permit coverage begins in the first full quarter of permit coverage, commencing no earlier than May 30, 2021, followed by two years of no monitoring. Bi-annual monitoring resumes in the fourth year of permit coverage for another year, after which the facility may discontinue bi-annual PAH monitoring for the remainder of your permit coverage.

4.6.5 Monitoring Periods

Refer to Section 4.2 for monitoring locations and descriptions. MATEP shall conduct indicator monitoring at Outfalls 001, 003 and 004. There is no industrial activity in Drainage Area 002.

The monitoring requirements in this permit begin in the first full quarter following either May 30, 2021 or the date of discharge authorization, whichever date comes later.

- January 1 – March 31
- April 1 – June 30
- July 1 – September 30
- October 1 – December 31

The first monitoring quarter for benchmark monitoring was July 1, 2021 – September 30, 2021 and the first monitoring year for discharges to impaired waters or discharges subject to an effluent limitation guideline was July 1, 2021 – June 30, 2022. This monitoring schedule may be modified in accordance with Part 4.1.6 of the MSGP if the facility documents the revised schedule in the SWPPP. However, the facility must indicate in Net-DMR any 3-month interval during which the facility did not take a sample.

4.6.6 Sampling Parameters

All facilities covered under the MSGP that fall into Sector O are required to conduct quarterly sampling.

4.6.7 Sampling Procedure

Stormwater discharge from an outfall does not normally begin at the same instant that the rainfall begins. The lag time between the start of rainfall and the start of discharge flow depends on many factors. Such factors include the rainfall intensity, the size of the drainage area and the types of surface area drained. For example, it will take longer for discharge to begin during a light rainfall over a flat, grassy area than during a hard rain on a steep, paved parking lot. Obviously, stormwater sampling cannot begin until after the discharge has started. Sampling team members should be at the sampling point as soon as possible after the rainfall begins. It is desirable if they are ready to begin before the rainfall starts. The first samples should be taken in relation to the start of discharge, rather than the start of rainfall.

At the sampling location, stormwater runoff can be collected directly into the sample bottle, or if preferred, into a larger container. Excess solid material that may be floating on the surface or may be deposited on the bottom of the sampling port should be avoided. Usually, such materials are not representative. Solid materials floating in the column of the stormwater outfall may be collected if they are under one-half inch in size. The grab sample must be transferred from the large collection container to the sample bottle(s) simply by pouring the sample directly into the sample bottle(s) from the larger container. The sample must be kept well mixed during the transfer process.

4.6.8 Required Sample Bottles

The samples for pH, TSS, COD, and PAH are collected in the following bottles with the proper preservation:

- pH – Plastic 60mL unpreserved
- TSS – Plastic 950 mL unpreserved
- COD – Plastic 120 mL sulfuric acid preservative
- PAH – Two VOA unpreserved

Sampling personnel should have extra bottles on hand in case one is damaged upon receipt. The plastic bottles should be preserved with the preservation indicated above, which can be provided by a contracted analytical laboratory in the form of pre-preserved bottles. Unpreserved bottles may be used, but the laboratory must be notified upon submission of the samples that the samples will need to be treated prior to analysis.

4.6.9 Sample Preservation

Once a sample is collected, the plastic bottles should be preserved with the preservation in Section 4.6.8, and steps taken to preserve the chemical and physical integrity during its storage and transport to an analytical laboratory. All samples should be immediately cooled to a temperature of 4°C (39.2°F) or less using ice (obtained before sampling). The cooled samples are then transported promptly to the designated laboratory.

As discussed above, some bottles may already contain small amounts of sulfuric acid preservative. The preservatives must be left in the containers. Pre-preserved containers should be handled with care, as the preservative is a strong acid.

Sample transfer should be kept to a minimum, as each transfer presents the potential to change the characteristics of the sample. Samples should be accompanied by an appropriate Chain of Custody form, available from the laboratory, while they are being stored or transported to a contracted analytical laboratory.

4.6.10 Sample Analysis

The facility must send the samples to a qualified laboratory for analysis. The laboratory must use an approved EPA method consistent with 40 CFR Part 136 analytical methods and use test procedures with quantitation limits at or below benchmark values for all benchmark parameters for which the facility is required to sample.

4.6.11 Sampling Waivers

The Multi-Sector General Permit allows for temporary waivers from performing sampling based on adverse climatic conditions and where a facility is both inactive and unstaffed. It also allows a waiver if a pollutant does not exist at the facility that is exposed to stormwater. Requirements for the Adverse Climatic Conditions and Inactive and Unstaffed Site can be found in Section 8.3.

4.6.12 Reporting Requirements

All monitoring data collected must be submitted to EPA using EPA's NetDMR system (available at www.epa.gov/netdmr), unless a waiver from electronic reporting has been granted (in which case a paper DMR form may be submitted) no later than 30 days after the complete laboratory results are received for all monitoring outfalls for the reporting period. The monitoring requirements (i.e., parameters required to be monitored and sample frequency) will be prepopulated on the electronic Discharge Monitoring Report (DMR) form based on the information that was reported on the NOI form (through the NDPES eReporting tool (NeT)). Accordingly, the following changes to the monitoring frequency must be reported to EPA through the submittal of a "Change NOI" form in NeT, which will trigger changes to the monitoring requirements in NetDMR:

- All indicator monitoring requirements have been fulfilled for the permit term.
- All impaired waters monitoring requirements have been fulfilled for the permit term.
- Indicator and/or impaired monitoring requirements no longer apply because the facility is inactive and unstaffed.
- Indicator and/or impaired monitoring requirements now apply because the facility has changed from inactive and unstaffed to active and staffed.
- A numeric effluent limitation guideline has been exceeded.
- A numeric effluent limitation guideline exceedance is back in compliance.

Once monitoring requirements have been completely fulfilled, the facility is no longer required to report monitoring results using NetDMR. If the facility has only partially fulfilled the indicator monitoring and/or impaired waters monitoring requirements (e.g., four quarterly average is below the

benchmark for some, but not all, parameters; did not detect some, but not all, impairment pollutants), the facility must continue to use NetDMR to report the results but must report a “no data” or “NODI” code for any monitoring parameters that have been fulfilled. Analytical laboratory report will be maintained in Appendix H and DMRs will be maintained in Appendix J.

For indicator monitoring, submit sampling results to EPA no later than 30 days after receiving the complete laboratory results for all monitored outfalls for each quarter that you are required to collect samples, per Part 6.2.1.2. If samples are collected during multiple storm events in a single quarter (e.g., due to adverse weather conditions, climates with irregular stormwater runoff, or areas subject to snow), the facility is required to submit all sampling results for each storm event to EPA within 30 days of receiving all laboratory results for the event. Or, for any of the monitored outfalls that did not have a discharge within the reporting period, using NetDMR you must report using a “no data” or “NODI” code for that outfall no later than 30 days after the end of the reporting period.

As described in Section 4.8, the results of any monitoring required by this permit must also be sent to the appropriate Regional Office of the Massachusetts Department of Environmental Protection [attention: Bureau of Waste Prevention] if there is an exceedance of the benchmark. (Note: the facility is not subject to benchmark monitoring.)

4.6.13 Data Not Exceeding Benchmarks

As indicated in Section 4.6, benchmark monitoring is no longer required for Subsector O1.

4.6.14 Data Exceeding Benchmarks

As indicated in Section 4.6, benchmark monitoring is no longer required for Subsector O1.

4.7 Monitoring and Reporting for Discharges to Impaired Waters

Monitoring is required for all direct and indirect discharges to impaired waters in addition to the monitoring discussed in the previous sections. A review of the discharge locations for each outfall at the MATEP facility indicates that MATEP’s stormwater is discharged to the Francis Street and Brookline Avenue storm drainage system via Outfalls 001, 002, 003 and 004, and the BWSC system discharges to the Muddy River via BWSC storm drain outfall number 161. The Muddy River is an “impaired water” as defined by Section 303(d) of the Clean Water Act as it applies to Massachusetts. The location code of the Muddy River is “MA72-11, Muddy River.” The Muddy River has been determined to be impaired for the following pollutants as of March 2021:

- Aesthetic
 - Odor
 - Oil & Grease
 - Turbidly
- Fish Consumption
 - Pesticides (DDT) in Fish Tissue
 - PCB in Fish Tissue
- Fish, Other Aquatic Life and Wildlife

- Bottom Deposits
- Dissolved Oxygen
- Flow Regime Modification
- Non-Native Aquatic Plants
- Oil and Grease
- Phosphorus, Total
- Physical Substrate Habitat Alterations
- Unspecified Metals in Sediment
- Primary Contact Recreation
 - Escherichia Coli (E. coli)
 - Odor
 - Oil and Grease
 - Turbidity
- Secondary Contact Recreation
 - Odor
 - Oil and Grease
 - Turbidity

Monitoring is required annually in the first year of permit coverage and again in the fourth year of permit coverage, unless there is a detection of a pollutant causing an impairment, in which case annual monitoring must continue.

Since the site discharges to an impaired water (Muddy River), monitor for all pollutants for which the water body is impaired and for which a standard analytical method exists, once at each discharge point, stormwater discharging to impaired waters without an EPA-approved or established TMDL.

If sampling results indicate the monitored pollutant is detected in the discharge, but the facility has determined that its presence is caused solely by natural background sources, the facility may discontinue monitoring for that pollutant for the duration of your permit coverage.

To support a determination that the pollutant's presence is caused solely by natural background sources, the facility must document and maintain with your SWPPP, as required by Part 6.5 in the 2021 MSGP:

- An explanation of why the facility believes that the presence of the pollutant of concern in the discharge is not related to the activities or materials at your facility.
- Data and/or studies that tie the presence of the pollutant of concern in the discharge to natural background sources in the watershed.

Natural background pollutants include those that occur naturally as a result of native soils, and vegetation, wildlife, or ground water. Natural background pollutants do not include legacy pollutants from

earlier activity on the site, or pollutants in run-on from neighboring sources that are not naturally occurring. However, the facility may be eligible to discontinue annual monitoring for pollutants that occur solely from these sources and should consult the applicable EPA Regional Office for related guidance.

4.7.1 Sampling Parameters and Requirements

Beginning in the first full quarter following May 30, 2021 or the date of EPA discharge authorization, whichever date comes later, the facility must conduct impaired waters monitoring at Outfalls 001, 003, and 004 for the pollutant(s) causing the impairment of the facility's receiving waters (Outfall 002 will not be monitored as there is no industrial activity occurring in Drainage Area 002).

Established TMDL Requirements

For receiving waters with an EPA approved TMDL, the facility is not required to monitor for the pollutant with an established TMDL unless the EPA informs the facility to do so. EPA should inform a facility as a part of the NOI review and permit issuance process. The facility will receive specifications on monitoring and frequency directly from the EPA. Of the list above, only the following pollutant has an established TMDL:

- Pathogens (Escherichia coli) – EPA Method 1103.1 and/or 1603

Non-Established TMDL Requirements

For pollutants causing an impairment without an approved TMDL, the facility is required to sample using a standard analytical method. TMDLs have not been established for the pollutants listed below. MATEP must perform sampling for the listed pollutants of concern for which a standard analytical method exists at each outfall as described in Section 4.2 of this Plan. Samples must be taken for the following pollutants and analyzed as indicated:

- Oil & Grease – There is currently no analysis required for this impairment.
- Taste and Odor – There is currently no analysis required for this impairment.
- Phosphorus (Total) – EPA Method 365.1, 365.2, 365.3, SM 4500-P-E.
- Turbidity – EPA Method 180.1.
- Oxygen, Dissolved – There is currently no analysis required for this impairment.
- PCB in Fish Tissue – There is currently no analysis required for this impairment.
- DDT in Fish Tissue – There is currently no analysis required for this impairment.

For any changes required in the SWPPP to meet the requirements of the MSGP, the facility must undertake additional monitoring within 30 days of corrective action implementation or during the next qualifying runoff event to verify that the modified BMPs are effectively protecting water quality. Only the pollutants with prior exceedances need to be monitored unless there is reason to believe that the modifications may adversely affect the other pollutants of concern.

All documentation pertaining to discharges to impaired waters monitoring shall be maintained within the SWPPP at the facility.

4.7.2 Sampling Procedure

Stormwater discharge from an outfall does not normally begin at the same instant that the rainfall begins. The lag time between the start of rainfall and the start of discharge flow depends on many factors such as the rainfall intensity, size of the drainage area, and the types of surface area drained. For example, it will take longer for discharge to begin during a light rainfall over a flat, grassy area than during a hard rain on a steep, paved parking lot. Obviously, stormwater sampling cannot begin until after the discharge has begun. Sampling team members should be at the sampling point as soon as possible after the rainfall begins, prior to the start of rainfall is preferable. The first samples should be taken in relation to the start of discharge, rather than the start of rainfall.

At the sampling location, stormwater runoff can be collected directly into the sample bottle, or if preferred, into a larger container. Excess solid material that may be floating on the surface or deposited on the bottom of the channel should be avoided. Solid materials floating in the column of the stormwater outfall may be collected if they are under one-half inch in size. The grab sample must be transferred from the large collection container to the sample bottle(s) simply by pouring the sample directly into the sample bottle(s) from the larger container. The sample must be kept well mixed during the transfer process.

4.7.3 Required Sample Bottles

The samples for Pathogens, Siltation, Metals, and Nutrients must be collected in separate sample bottles at each sampling location. Sampling personnel should have at least one spare sample bottle of each type on hand in case of damage. The following sampling containers and applicable preservatives are required:

- Pathogens (E. Coli) – 125ml sterile container, not preserved (max. sample holding time is 6 hrs.)
- Phosphorus, total – 500 mL plastic, sulfuric acid preservative
- Turbidity – 100 mL plastic

4.7.4 Sample Preservation

Once a sample is collected, steps will be taken to preserve the chemical and physical integrity during its storage and transport to an analytical laboratory. All samples should be immediately cooled to a temperature of 4°C (39.2°F) or less using ice (obtained before sampling). The cooled samples are then transported promptly to the designated laboratory.

Sample transfer should be kept to a minimum, as each transfer presents the potential to change the characteristics of the sample. Samples should be accompanied by an appropriate Chain of Custody form, available from the laboratory, while they are being stored and/or transported to the laboratory.

Sampling for E. Coli requires that the sample be taken to the Laboratory and analyzed within 6 hours of collection. The sample MUST be kept on ice from the time it is taken until analysis.

4.7.5 Sample Analysis

The facility must send the samples to a qualified laboratory for analysis. The laboratory must use an approved EPA method consistent with 40 CFR Part 136 analytical methods and use test procedures with standard quantitation limits.

4.7.6 Reporting Requirements

Reporting requirements for impaired water discharge monitoring are described in Section 4.6.8.

4.7.7 Data Not Exceeding TMDL

If the pollutant monitoring results for TMDLs, as presented in Section 4.7.1, are not detected in any of the first-year outfall samples, no further sampling is required, unless the TMDL has specific instructions to the contrary, in which case the facility must follow these instructions and requirements. The facility must keep records of this finding onsite with its SWPPP.

As noted in Section 4.7.1, the Muddy River has one established TMDL. TMDL requirements, will be provided by EPA.

4.7.8 Data Exceeding TMDL

If the pollutant monitoring results for TMDLs, as presented in Section 4.7.1, are detected in any of the first-year outfall samples, the facility must continue monitoring annually throughout the term of this permit, unless the TMDL specifies more frequent monitoring, in which case you must follow the TMDL requirements.

As noted in Section 4.7.1, the Muddy River has one established TMDL. TMDL requirements, will be provided by EPA.

4.7.9 Data Not Exceeding Natural Background Levels

If the monitoring results for the pollutant without a written TMDL, as presented in Section 4.7.1, is not detected and not expected to be present in your discharge, or it is detected but the facility has determined that its presence is caused solely by natural background sources, the facility may discontinue monitoring for that pollutant until the fourth year of the permit term. To support a determination that the pollutant's presence is caused solely by natural background sources, the facility must document and maintain with the SWPPP, as required by Part 6.5 of the 2021 MSGP:

- An explanation of why the presence of the pollutant of concern in the discharge is not related to the activities or materials at the facility.
- Data and/or studies that tie the presence of the pollutant of concern in the in the discharge to natural background sources in the watershed.

Natural background pollutants include those that occur naturally as a result of native soils, and vegetation, wildlife, or ground water. Natural background pollutants do not include legacy pollutants from earlier activity on your site, or pollutants in run-on from neighboring sources that are not naturally occurring. The facility must determine and document what the background level concentrations are for the pollutants without approved TMDLs listed in Section 4.7.1.

4.7.10 Data Exceeding Natural Background Levels

If the pollutant monitoring results for pollutants without written TMDLs, as presented in Section 4.7.1, are above the natural background levels, the facility must continue to monitor once per year at each outfall discharging stormwater to impaired waters without an EPA approved or established TMDL.

The facility must determine and document what the background level concentrations are for the pollutants without approved TMDLs listed in Section 4.7.1.

4.8 State or Tribal Monitoring Requirements

As required in Section 9.1.2.4 of the 2021 MSGP, the results of any monitoring [four samples required in the first year of the permit] required by this permit must be sent to the appropriate Regional Office of the MassDEP [attention: Bureau of Waste Prevention] if the monitoring identifies violations of any effluent limits or benchmarks for any parameter for which monitoring is required under this permit. In addition, any follow-up monitoring and a description of the corrective actions required and undertaken to meet the effluent limits or benchmarks must be sent to the appropriate MassDEP Regional Office [Attn: Bureau of Waste Prevention] (Note: the facility is no longer subject to benchmark monitoring.).

4.9 Significant Spill History

The facility must document all significant spills and leaks¹ of toxic or hazardous pollutants that actually occurred at exposed areas or that drained to a stormwater conveyance on the property within the three years prior to the preparation of this SWPPP. Relevant spills of note are described below.

On December 15, 2016 at approximately 5:30 PM, a combustion turbine generator (CTG) air inlet heating coil vent valve was accidentally opened by a contractor, which allowed approximately 120 gallons of a 41% solution of propylene glycol to be released on the roof of the building. The solution was discharged through a nearby roof drain into the facility's stormwater drain system. Facility personnel visually inspected the storm drain outlet to the Muddy River outfall that serves the area in which the facility is located and did not observe any signs of flow or other discharge. Boston Water and Sewer Commission (BWSC) was notified and responded to the incident on the same day as the release at approximately 7:15 PM. BWSC inspected the storm drain manhole potentially impacted by the release. Based on the elevation of the manhole outlet drain, it was determined that the release did not actually enter the BWSC system. As a result, any released material would have been contained in the dedicated storm drain and could not have impacted the environment. Clean Harbors responded to the release on December 16th at approximately 6:00AM and removed approximately 365 gallons from the affected stormwater manhole.

The CTG air inlet heating coil vent valves were not equipped with caps to prevent a discharge in the event a valve was to be opened inadvertently. As a corrective action, caps were initially installed on all vent lines and then replaced in 2017 with vent discharge lines that empty into 55-gallon drums, so as to prevent releases due to an inadvertent movement of the vent line valve position. Additionally, at the time of incident contractors communicated to foremen the importance of being aware of their surroundings and the need for prompt and accurate reporting of any action that may impact plant operations.

On March 29, 2017 at approximately 11:30 AM, a combustion turbine generator (CTG) air inlet heating coil vent was accidentally damaged by a contractor, which allowed approximately 90 gallons of a solution of propylene glycol to be released on the roof of the building. Approximately 50 gallons of the solution was discharged through a nearby roof drain into the facility's stormwater drain system. Facility personnel visually inspected the storm drain manhole that collects discharge from the facility and did not observe any signs of flow or other discharge. There was no precipitation immediately preceding, or at the time of,

¹ Significant spills and leaks include, but are not limited to, releases of oil or hazardous substances in excess of quantities that are reportable under CWA section 311 (see 40 CFR 110.6 and 40 CFR 117.21) or section 102 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 USC §9602.

the incident. BWSC inspected the storm drain manhole potentially impacted by the release. Based on the elevation of the manhole outlet drain, it was determined that the release did not actually enter the BWSC system. As a result, any released material would have been contained in the dedicated storm drain and could not have impacted the environment. Clean Harbors responded to the release at approximately 3 PM and removed approximately 365 gallons of water and propylene glycol from the affected stormwater manhole.

Contractors involved in the incident were retrained in Hazard Recognition and Ladder Placement and Use and reviewed Critical Safety Devices. A communications plan for area specific hazards was also developed for construction-specific tasks.

On March 15, 2019 a failed pressure relief valve on the fuel gas compressor cooling system (FGC-1, 100 and 200) was leaking well under the pressure relief set point. This caused the cooling system lag pump to auto start. Make up water was added to the system manually in response to the low pressure event but did not increase system pressure. Upon further investigation, it was observed that the 50% ethylene glycol cooling solution was discharging to the roof drain system from the relief valve discharge outlet, which is at an elevated location on the 82' Level (roof). Spill absorbent pads were used to soak up spill in the immediate vicinity of the roof drain. Clean Harbors responded to the release on March 5th at approximately 6:30PM and removed approximately 273 gallons of water and trace amounts of ethylene glycol from the affected stormwater drain manhole.

BWSC inspected the storm drain manhole potentially impacted by the release. Based on the elevation of the manhole outlet drain, it was determined that the release did not actually enter the BWSC system. As a result, any released material would have been contained in the dedicated storm drain and could not have impacted the environment.

The failed relief valve responsible for the release was isolated from the system and its discharge pipe rerouted into the building on the 64' Level. A containment drum was placed under the pipe outlet to capture any releases. The containment drum is located across from the PSG-3 economizer.

5.0 ENDANGERED SPECIES AND HISTORIC PLACES

5.1 National Historic Preservation Act Certification

Facilities with eligible industrial activities seeking coverage under the Stormwater Multi-Sector General Permit (MSGP) must certify that their industrial stormwater discharge, or the construction of Best Management Practices (BMPs) to control such discharge, either does not have the potential to affect a property that is either listed or eligible for listing on the National Register of Historic Places, or is eligible for coverage because of a previous agreement under the National Historic Preservation Act.

5.1.1 National Historic Preservation Act Eligibility Assessment

The MATEP facility has been in operation since 1980 under the direction of Advanced Energy Systems or another power provider, and neither the industrial activity onsite, nor the stormwater controls have changed significantly since that time. MATEP has been covered under the NPDES Multi-Sector General Permit since the origination of the permit in 1995 and is not expected to make any significant changes to the stormwater system at the facility.

A review of the National Register of Historic Places web site, <https://www.nps.gov/subjects/nationalregister/index.htm>, maintained by the National Register Information System on the Internet, was conducted in March 2021. Based on MATEP's coverage under a previous NPDES Industrial Multi-Sector Stormwater General Permit, and the lack of expected change to the facility's stormwater drainage system, MATEP is eligible for coverage under the MSGP 2021. Documentation of eligibility for coverage under the General Permit with regard to the National Historic Preservation Act is provided in Figure 2.

5.2 Endangered Species Act

Based on a review of data available from the National Marine Fisheries Service (NMFS) species New England map (<https://www.epa.gov/sites/production/files/2015-10/documents/new-england-map-nmfs.pdf>) and the U.S. Fish and Wildlife Service (USFWS) online mapping tool (<https://ecos.fws.gov/ipac/>), there are federally listed endangered / threatened species identified within the "action area" of the Facility. According to a review of the NMFS species New England map conducted in March 2021, the action area is located within a sturgeon-accessible watershed, which includes the shortnose sturgeon and Atlantic sturgeon. The action area is also within a subwatershed affecting coastal water quality. The ranges of leatherback, loggerhead, Kemp's ridley, hawksbill, and green sea turtles include coastal waters of Massachusetts. According to a review of the USFWS online mapping tool conducted in March 2021, the Northern Long-eared Bat is included within the action area. No critical habitats for these species have been designated in the action area. Based on the current review of the USFWS and the NMFS resources and the similar research that was conducted in July 2015, there have been no changes to the ESA-listed species, critical habitat, or action area. The NMFS species New England map and the USFWS online mapping tool report that identify the endangered / threatened species are included in Appendix B.

6.0 SWPPP AVAILABILITY

A copy of the current SWPPP must be retained as required by the MSGP at the facility in an accessible format. A complete SWPPP includes any documents incorporated by reference and all documentation supporting the facility's permit eligibility, as well as the signed and dated certification page. Regardless of the format, the SWPPP must be immediately available to facility employees, EPA, state agency, the operator of an MS4 into which the facility discharges to, and representatives of the USFWS, or the NMFS at the time of an onsite inspection. The current SWPPP must also be made available to the public (except any confidential business information (CBI) or restricted information).

A hardcopy of the SWPPP is to be maintained at the facility and an electronic copy of the SWPPP will be available to the public at the following internet URL:

- www.matep.com/chp-facility-upgrade-information/

Additionally, a sign has been posted as required at a safe, publicly accessible location in close proximity to the facility. The font is large enough to be readily viewed from a public right-of-way and the facility will perform periodic maintenance on the sign to ensure that it remains legible, visible, and factually correct. The sign conforms to the requirements detailed in the MSGP:

- The following statement: "[Name of facility] is permitted for industrial stormwater discharges under the U.S. EPA's Multi-Sector General Permit (MSGP)".
- The facility NPDES ID number.

- A contact phone number for obtaining additional facility information.
- One of the following:
 - The Uniform Resource Locator (URL) for the SWPPP (if available), and the following statement: “To report observed indicators of stormwater pollution, contact [optional: include facility point of contact and] EPA at: [include the applicable MSGP Regional Office contact information found at <https://www.epa.gov/npdes/contact-us-stormwater#regional>].
 - The following statement: “To obtain the Stormwater Pollution Prevention Plan (SWPPP) for this facility or to report observed indicators of stormwater pollution, contact [optional: include facility point of contact and] EPA at [include the applicable MSGP Regional Office contact information found at <https://www.epa.gov/npdes/contact-us-stormwater#regional>].

7.0 CORRECTIVE ACTIONS AND ADDITIONAL IMPLEMENTATION MEASURES

7.1 Corrective Actions

When any of the following conditions occur or are detected during an inspection, monitoring or other means, or EPA or the operator of the MS4 through which you discharge informs you that any of the following conditions have occurred, you must review and revise, as appropriate, your SWPPP (e.g., sources of pollution; spill and leak procedures; non-stormwater discharges; the selection, design, installation and implementation of your stormwater control measures) so that this permit’s effluent limits are met and pollutant discharges are minimized:

- An unauthorized release or discharge (e.g., spill, leak, or discharge of non-stormwater not authorized by this or another NPDES permit to a water of the United States) occurs at your facility.
- A required control measure was never installed, was installed incorrectly, or is not being properly operated or maintained.
- Whenever a visual assessment shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam).

If corrective action is needed, all reasonable steps to minimize or prevent the discharge of pollutants will be taken on the same day a condition is found if possible but no later than the following day. Document the existence of any conditions requiring corrective action within 24 hours of becoming aware of such condition. Corrective actions will be completed before the next storm event if possible and within 14 calendar days from the time of discovery (i.e., lab results). If the 14-day timeframe is not feasible, document why it is infeasible, prepare a schedule to complete the corrective action and complete within 45 days of discovery. If the completion of corrective action will exceed 45 days, EPA must be notified of the intention to exceed 45 days, the rationale for the extension and a completion date.

7.2 Additional Implementation Measures (AIM)

Note that since MATEP no longer has any benchmark monitoring requirements, the AIM requirements do not apply to MATEP. Sections 7.2 through 7.4 are included for reference only.

Generally, for facilities that are affected by AIMs, after collection of 4 quarterly benchmark samples, if the average of the 4 monitoring values for any parameter does not exceed the benchmark, the monitoring requirements for that parameter have been fulfilled until the next required monitoring year. If, after the collection of 4 quarterly samples, the average of the 4 monitoring values for any parameter exceeds the

benchmark, or if fewer than four quarterly samples are collected but a single sample or the sum of the samples exceeds the benchmark by more than four times the parameter, the Additional Implementation Measures (AIM) are triggered.

There are three AIM levels:

- AIM Level 1
- AIM Level 2
- AIM Level 3

7.3 Baseline Status

Once the facility receives discharge authorization, the facility is in a baseline status for all applicable benchmark parameters. If an AIM triggering event occurs and the facility has proceeded sequentially to AIM Level 1, 2 or 3, the facility may return directly to baseline status once the corresponding AIM-level response and conditions are met.

7.4 AIM Triggering Events

If an annual average exceeds an applicable benchmark threshold based on the following events, the AIM requirements have been triggered for that benchmark parameter. The facility must follow the corresponding AIM-level responses and deadlines described in Section 5.2 of the MSGP unless the facility qualifies for an exception as described in Section 5.2.6.

8.0 SIGNATURE REQUIREMENTS

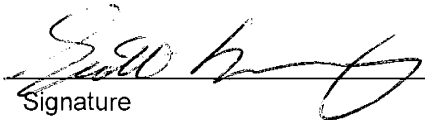
8.1 Facility Management Certification

For a corporation, Plan certifications must be signed by a responsible corporate officer. A responsible corporate officer is a president, secretary, treasurer or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation; or the manager of one or more manufacturing, production or operating facilities, provided, the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.



Facility Management Certification

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


Signature

Scott Manning

Name (printed)

Plant Manager, MATEP

Title


Date



8.2 Non-Stormwater Discharge Evaluation Certification

I certify that all discharges (i.e., outfalls) have been tested or evaluated for the presence of non-storm water. Non-storm water discharges are not authorized under the General Permit, other than the following:

- Discharges from fire-fighting activities.
- Fire hydrant flushings.
- Potable water, including water line flushings.
- Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids.
- Irrigation drainage.
- Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling.
- Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed).
- Routine external building washdown that does not use detergents.
- Uncontaminated ground water or spring water.
- Foundation or footing drains where flows are not contaminated with process materials.
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains).

Date of Test or Evaluation:	March 9, 2021
Method Used to Test or Evaluate Discharge:	Visual Inspection
Discharge Point/Drainage Area:	All Discharge Points and Drainage Areas
Describe Results from Test for the Presence of Non-Storm Water Discharge:	No Unauthorized Discharges or Connections Observed
Identify Potential Significant Sources:	Listed in Table 1
Name of Person Who Conducted the Test or Evaluation:	Roger Gosciminski, ESS Group, Inc.

Notes: 1) These results reflect only evaluations conducted by ESS personnel during site evaluations on the dates specified. All outfalls were evaluated for non-stormwater discharges. Refer to Figure 3 for the locations of these outfalls. 2) The visual inspections included observations of the discharge outfall for flow during dry weather and inspections of the outfall for visible pollutants or non-stormwater flows

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

Signature

Michael Buckman

Name (printed)

Plant Manager, MATEP

Title

4/6/2021

Date

8.3 Assessment Waivers

Waivers for Unstaffed and Inactive Sites

The Multi-Sector General Permit allows for a waiver from visual examination for facilities that are both inactive and unstaffed. The waiver is only intended to apply to these types of facilities when the ability to conduct the examination is severely hindered and results in the inability to meet the time and representative rainfall event specifications. The waiver is not intended to apply to remote facilities that are inactive and staffed, or typical logistical restraints, which may be difficult in nature. Whenever a facility is unable to perform visual examinations, a certification shall be maintained on site with the SWPPP stating that the facility is inactive and unstaffed and the ability to perform visual examinations within the required specifications is not possible. Advance approval from the EPA is not required for visual examination waivers.

Waiver for Adverse Climatic Conditions

The waiver for adverse climatic conditions is a temporary waiver and is only intended to apply to insurmountable weather conditions such as drought or dangerous conditions such as lightning, flash flooding or hurricanes. These events tend to be isolated incidents and are not to be construed as an excuse for not performing the visual examinations. The waiver is not intended to apply to difficult logistical conditions, such as remote facilities with few employees or discharge locations which are difficult to access. Whenever visual examinations cannot be performed within the specified quarterly period due to adverse climatic conditions, a substitute examination must be performed during a separate qualifying event in the next quarter, in addition to the examination already required for that quarter.

Alternate Certification for Sampling Waiver

A discharger is not subject to the analytical monitoring requirements provided the discharger makes a certification for a given outfall or on a pollutant-by-pollutant basis in lieu of monitoring reports, under penalty of law, signed in accordance with signatory requirements, that material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, industrial machinery or operations or significant materials from past industrial activity that are located in areas of the facility within the drainage area of the outfall are not presently exposed to stormwater and are not expected to be exposed to stormwater for the certification period. The Alternative Certification for Sampling Waiver is found on the last page of this document.

The certification must be retained in the SWPPP and submitted to the EPA in accordance with the permit. In the case of certifying that a pollutant is not present, the permittee must submit the certification along with the monitoring reports. If the permittee cannot certify for an entire period, they must submit the date that exposure was eliminated and any monitoring requirements up until that date. The certification option is not applicable to compliance monitoring requirements associated with effluent limitations.



Waiver for Quarterly Visual Assessment Inactive and Unstaffed Site Certification

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

Signature

Name (printed)

Title

Date



Waiver for Quarterly Visual Assessment Adverse Climatic Conditions Certification

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

Signature

Name (printed)

Title

Date



Waiver for Alternate Certification for Sampling

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

Outfall No. _____

Pollutant _____

Signature

Name (printed)

Title

Date

Tables



Table 1**Drainage Area Characteristics and Associated Activities**

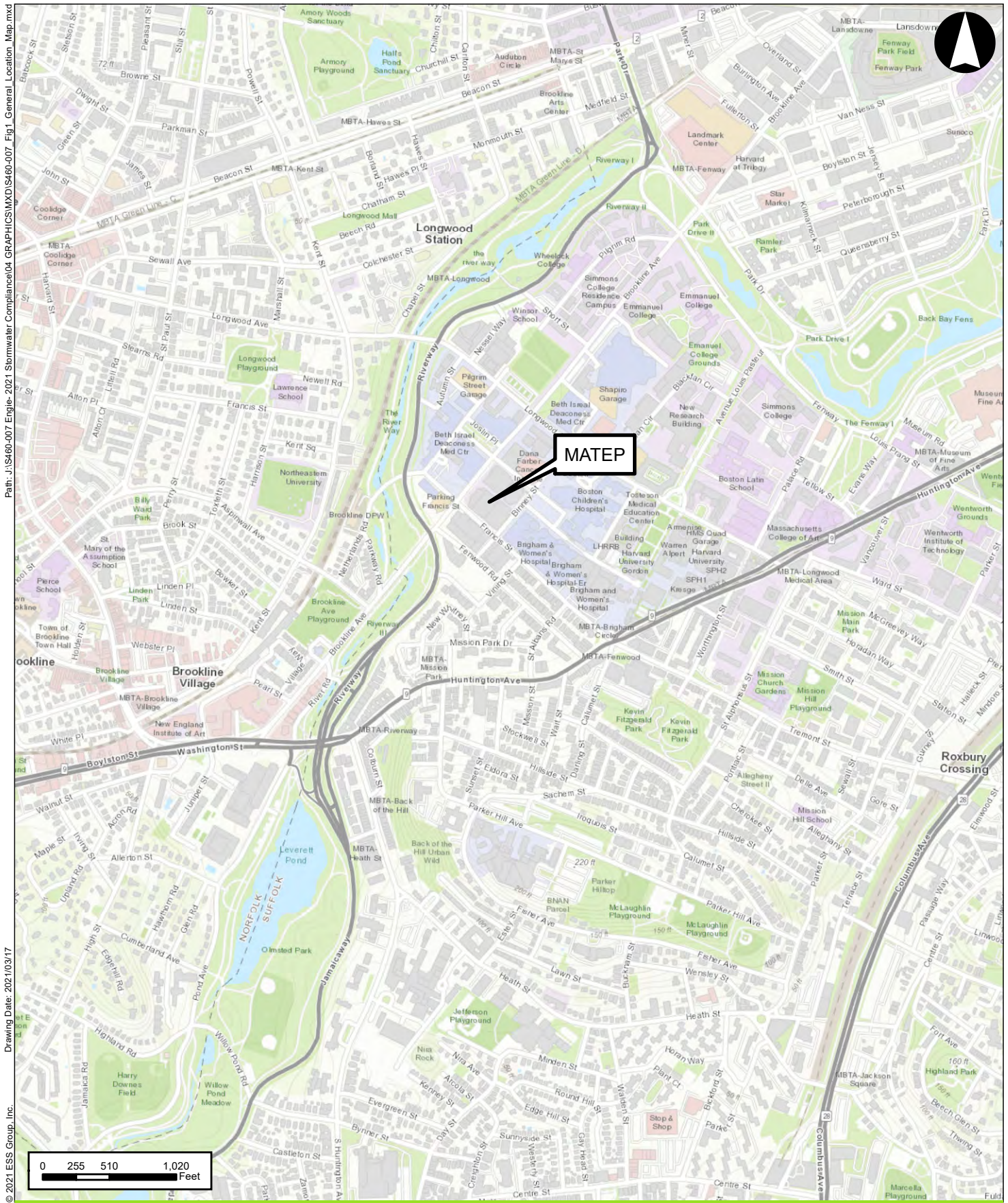
Drainage Area	Square Footage	Percent Impervious	Activities Occurring in Area
001	32,198	100%	Potential for Cooling Tower Overflow Roof Stack Venting Drummed Oil Transfer Metal Parts and Equipment Storage Antifreeze Transfer
002	2,015	100%	No Industrial Activities
003	5,235	100%	Potential for Cooling Tower Overflow Roof Stack Venting Materials Storage Diesel Crank Case Filter Change-Out
004	6,779	100%	Potential for Cooling Tower Overflow Roof Stack Venting

Table 2**Routine Site Inspections**

<i>Area of Inspection</i>	<i>Things to Look for</i>	<i>Drainage Area</i>	<i>Frequency of Inspection</i>
Roof Drains (all)	Evidence of clogging, plugging, or pollutants	001, 002, 003, 004	Quarterly
Outfall 001	Evidence of pollutants discharged, non-storm discharges	001	Quarterly
Outfall 002	Evidence of pollutants discharged, non-storm discharges	002	Quarterly
Outfall 003	Evidence of pollutants discharged, non-storm discharges	003	Quarterly
Outfall 004	Evidence of pollutants discharged, non-storm discharges	004	Quarterly
Deaerator Vent System	Evidence of pollutants discharged, non-storm discharges	001	Quarterly
Area Around Cooling Towers	Process Water Overflow/Leaks	001, 003, 004	Quarterly
Facility Roof Vents/Stacks	Evidence of pollutants	001, 003, 004	Quarterly

Figures





Medical Area Total Energy Plant (MATEP)
 Boston, Massachusetts

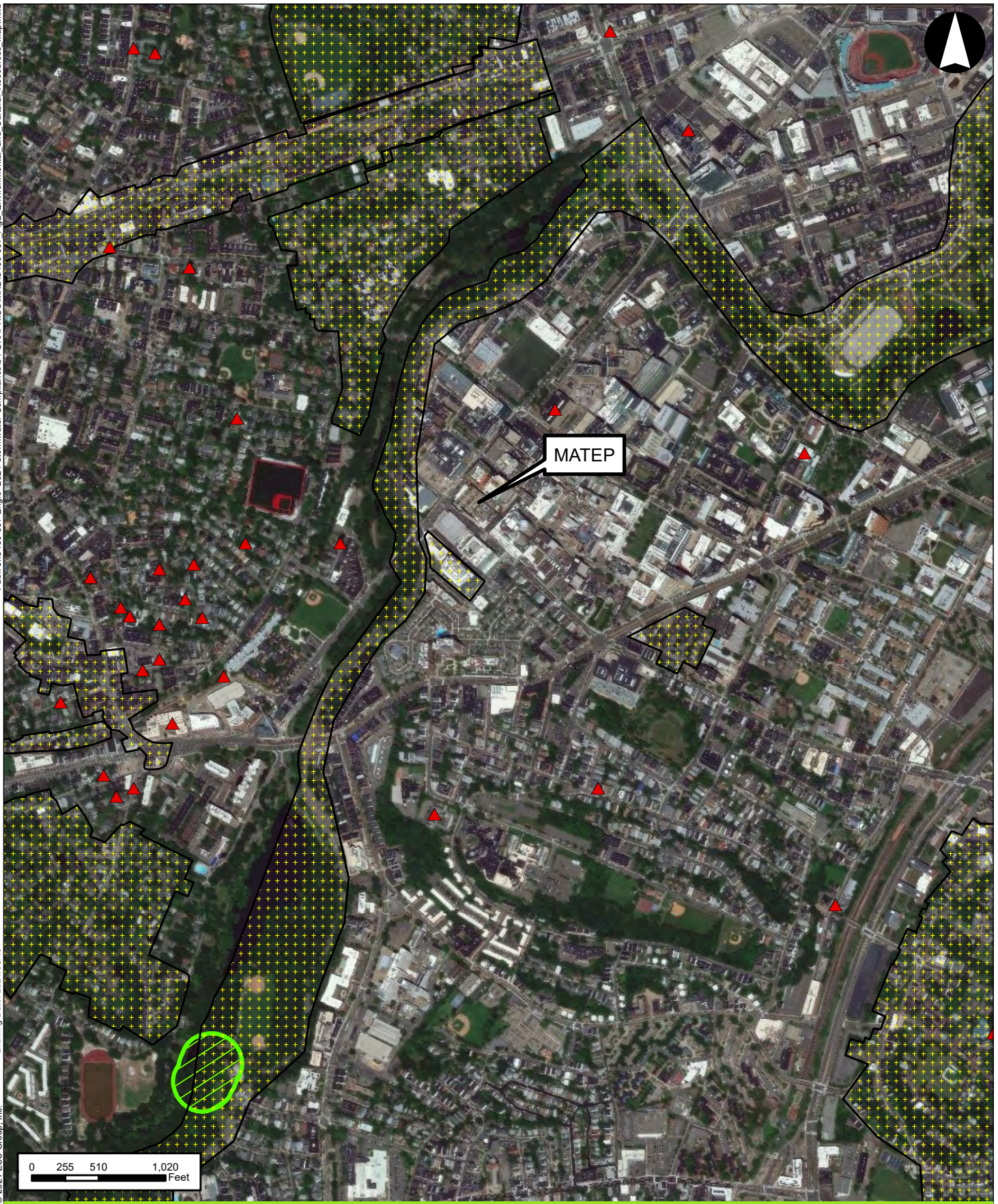
General Location Map

1 inch = 1,000 feet

Source: 1) MassGIS, Half-Meter Resolution, 2001
 2) ESS, GPS Locations, 2003



Figure 1



Medical Area Total Energy Plant (MATEP)
Boston, Massachusetts

1 inch = 1,000 feet

Source: 1) MassGIS, 2018/2019
2) MassGIS, NHESP Datalayers 2017
3) National Register of Historic Places (U.S. National Park Service)

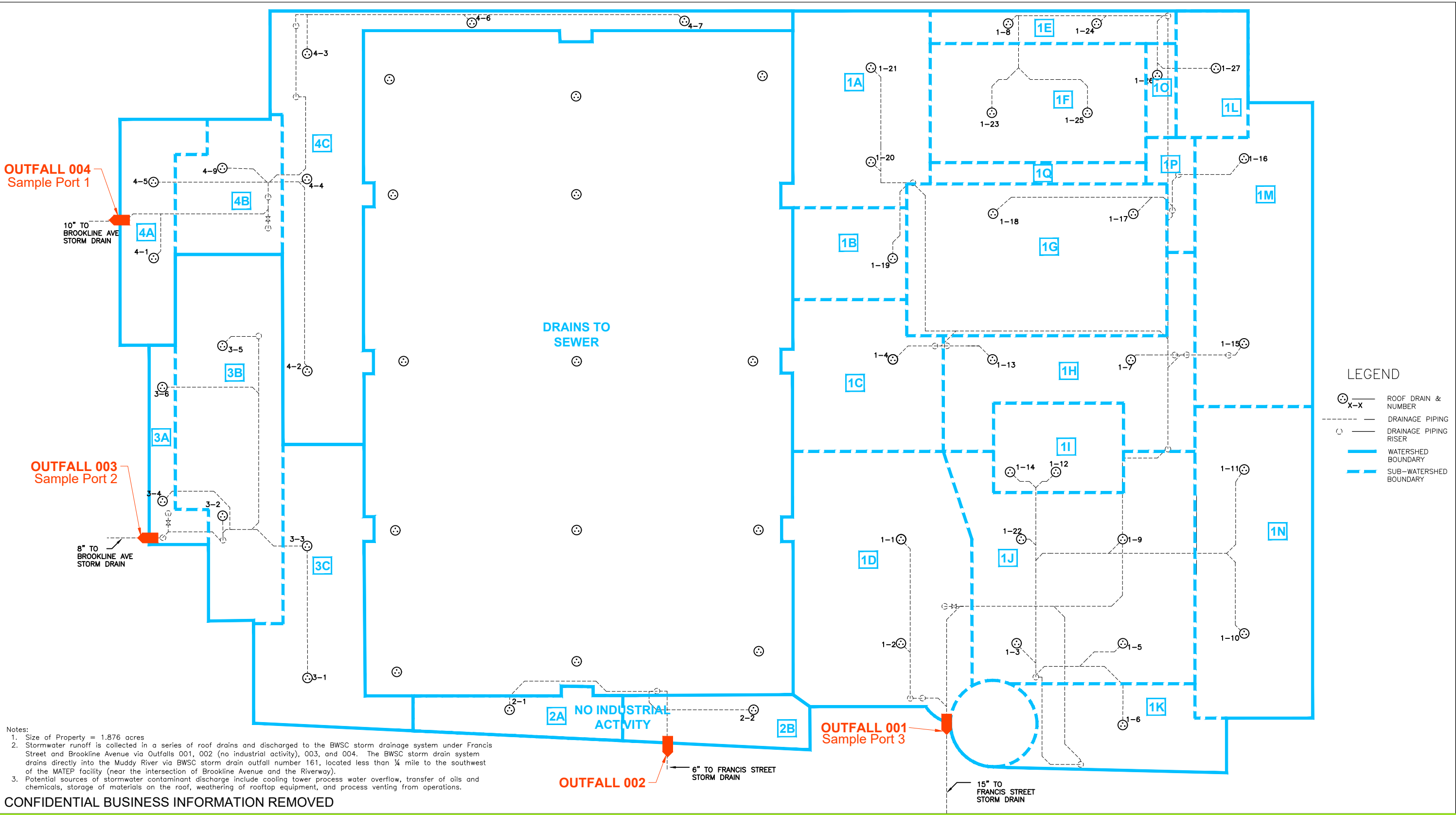
Legend

- ▲ National Register Site
- ✱ NHESP Certified Vernal Pools
- National Register District
- MassGIS NHESP Estimated Habitats of Rare Wildlife
- MassGIS NHESP Priority Habitats of Rare Species

Environmental and Cultural Resources Map



Figure 2

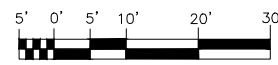


- Notes:
1. Size of Property = 1.876 acres
 2. Stormwater runoff is collected in a series of roof drains and discharged to the BWSC storm drainage system under Francis Street and Brookline Avenue via Outfalls 001, 002 (no industrial activity), 003, and 004. The BWSC storm drain system drains directly into the Muddy River via BWSC storm drain outfall number 161, located less than ¼ mile to the southwest of the MATEP facility (near the intersection of Brookline Avenue and the Riverway).
 3. Potential sources of stormwater contaminant discharge include cooling tower process water overflow, transfer of oils and chemicals, storage of materials on the roof, weathering of rooftop equipment, and process venting from operations.

CONFIDENTIAL BUSINESS INFORMATION REMOVED



MATEP
Boston, Massachusetts



Site Plan

Figure 3

Appendix A

Copy of Notice of Intent (NOI)



NPDES
FORM
3510-6
 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 WASHINGTON, DC 20460
 NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH
 INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT
FORM
Approved OMB No.
2040-0004

Permit Information

Master Permit Number: [MAR050000](#)NPDES ID: [MAR053504](#)

Eligibility Information

State/territory where your facility is discharging: [MA](#)Does your facility discharge to federally recognized Indian Country lands? [No](#)Are you a "Federal Operator" as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)? [No](#)Which type of form would you like to submit? [Notice of Intent \(NOI\)](#)

By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.2.2. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the allowable stormwater and non-stormwater discharges listed in Parts 1.2.1. and 1.2.2. will be discharged, they must be covered under another NPDES permit.

[Yes](#)Are you a new discharger or a new source as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)? [No](#)
 Have stormwater discharges from your facility been covered previously under an NPDES permit? [Yes](#)
 If yes, provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSGP or the NPDES permit number if you had coverage under an EPA individual permit:
[MAR053504](#)
 Are you discharging to any waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding National Resource water)? (See Appendix L (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_l_-_list_of_tier_3_tier_2_and_tier_2.5_waters.pdf))
[No](#)What is the legal name of the Operator as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)? [MATEP, LLC](#)What is the name of your facility or activity as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?[MEDICAL AREA TOTAL ENERGY PLANT](#)

Operator Information

Operator Information

Operator Name: [MATEP, LLC](#)

Operator Mailing Address

Address Line 1: [474 Brookline Avenue](#)

Address Line 2:

City: [Boston](#)ZIP/Postal Code: [02215](#)State: [MA](#)County or Similar Division: [Suffolk](#)

Operator Point of Contact Information

First Name Middle Initial Last Name: [Peter](#) [Gluckler, Jr.](#)Title: [EH&S Manager](#)Phone: [6175982711](#)

Ext.:

Email: Peter.Gluckler@engie.com

NOI Preparer Information

 This NOI is being prepared by someone other than the certifier.First Name Middle Initial Last Name: [Roger](#) [E](#) [Gosciminski](#)Organization: [ESS Group, Inc.](#)Phone: [401-330-1232](#)

Ext.:

Email: rgosciminski@essgroup.com

Facility Information

Facility Information

Facility Name: [MEDICAL AREA TOTAL ENERGY PLANT](#)

Facility Address

Address Line 1: [474 BROOKLINE AVENUE](#)

Address Line 2:

City: BOSTON

ZIP/Postal Code: 02215

State: MA

County or Similar Division: Suffolk

Latitude/Longitude for the Facility

Latitude/Longitude: 42.3372°N, 71.109°W

Latitude/Longitude Data Source: Map

Horizontal Reference Datum: NAD 83

General Facility Information

What is the ownership type of the facility? Privately Owned Facility

Estimated area of industrial activity at your facility exposed to stormwater (rounded to the nearest quarter acre): 2

Is your facility presently inactive and unstaffed? No

Exception for Inactive and Unstaffed Facilities: The requirement for indicator monitoring, impaired waters monitoring, and/or benchmark monitoring does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater.

If circumstances change during the permit term that affect your qualifications for this exception to monitoring requirements (i.e. industrial materials or activities exposure to stormwater or your facility's active/inactive and staffed/unstaffed status) you must submit a NOI notifying EPA of the change in circumstances.

Sector-Specific Information

Primary Sector: O

Primary Subsector: O1

Primary Activity Code: SE

Discharge Information

By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the stormwater discharges in Part 1.2.1 and the allowable non-stormwater discharges listed in Part 1.2.2. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the authorized stormwater and non-stormwater discharges listed in Parts 1.2.1 and 1.2.2 will be discharged, they must be covered under another NPDES permit.

Yes

Federal Effluent Limitation Guidelines

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Applicability
Part 423	Coal pile runoff at steam electric generating facilities	O	11/19/1982, 10/08/1974 	Does your facility have any discharges subject to this effluent limitation guideline? <u>No</u>

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Other Discharge Information

Does your facility discharge into a Municipal Separate Sewer System (MS4)? Yes

➔ If yes, provide the name of the MS4 operator: Boston Water & Sewer Commission

Receiving Waters Information

List all of the stormwater discharge points from your facility.

Discharge Point 003: Outfall 003

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

	Sector	Subsector	SIC/Activity Code
<input checked="" type="checkbox"/>	O - STEAM ELECTRIC GENERATING FACILITIES	O1 - Steam Electric Generating Facilities, including coal handling sites	SE

Latitude/Longitude: 42.3371°N, 71.1089°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:
n/a

Waterbody Name:
Muddy River (MA72-11)

Listed Water ID:
n/a

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit? No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

Cause of Impairment Group	Pollutant
OIL AND GREASE	Oil & Grease
NUTRIENTS	Phosphorus, total [as P]
TURBIDITY	Turbidity
PATHOGENS	E. coli
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]
ORGANIC ENRICHMENT/OXYGEN DEPLETION	Oxygen, dissolved percent saturation
PESTICIDES	DDT
TASTE, COLOR, AND ODOR	Odor [Threshold Number]

Has a TMDL been completed for this receiving waterbody? Yes

TMDL ID	Cause of Impairment Group	Pollutant
32383	PATHOGENS	E. coli

Discharge Point 004: Outfall 004

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

	Sector	Subsector	SIC/Activity Code
<input checked="" type="checkbox"/>	O - STEAM ELECTRIC GENERATING FACILITIES	O1 - Steam Electric Generating Facilities, including coal handling sites	SE

Latitude/Longitude: 42.3372°N, 71.1087°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name: n/a

Waterbody Name: Muddy River (MA72-11)

Listed Water ID: n/a

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit? No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

Cause of Impairment Group	Pollutant
OIL AND GREASE	Oil & Grease
NUTRIENTS	Phosphorus, total [as P]
TASTE, COLOR, AND ODOR	Odor [Threshold Number]
TURBIDITY	Turbidity
PATHOGENS	E. coli
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]
ORGANIC ENRICHMENT/OXYGEN DEPLETION	Oxygen, dissolved percent saturation
PESTICIDES	DDT

Has a TMDL been completed for this receiving waterbody? Yes

TMDL ID	Cause of Impairment Group	Pollutant
32383	PATHOGENS	E. coli

Discharge Point 001: Outfall 001

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

	Sector	Subsector	SIC/Activity Code
<input checked="" type="checkbox"/>	O - STEAM ELECTRIC GENERATING FACILITIES	O1 - Steam Electric Generating Facilities, including coal handling sites	SE

Latitude/Longitude: 42.3366°N, 71.1084°W This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

n/a

Waterbody Name:

Muddy River (MA72-11)

Listed Water ID:

n/aIs this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

NoWill you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit? No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

Cause of Impairment Group	Pollutant
OIL AND GREASE	Oil & Grease
NUTRIENTS	Phosphorus, total [as P]
TASTE, COLOR, AND ODOR	Odor [Threshold Number]
TURBIDITY	Turbidity
PATHOGENS	E. coli
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]
ORGANIC ENRICHMENT/OXYGEN DEPLETION	Oxygen, dissolved percent saturation
PESTICIDES	DDT

Has a TMDL been completed for this receiving waterbody? Yes

TMDL ID	Cause of Impairment Group	Pollutant
32383	PATHOGENS	E. coli

SWPPP Information

Has the SWPPP been prepared in advance of filing this NOI, as required? Yes

SWPPP Contact Information:

First Name Middle Initial Last Name: Peter Gluckler, Jr.Phone: 6175982711

Ext.:

Email: peter.gluckler@engie.com

SWPPP Availability:

Your current SWPPP or certain information from your SWPPP must be made available through one of the following three options. Select one of the options and provide the required information.

Note: you are not required to post any confidential business information (CBI) or restricted information (as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access. Option 1: Attach a current copy of your SWPPP to this NOI.

Option 2: Maintain a Current Copy of your SWPPP on an Internet page (Universal Resource Locator or URL).

Provide the web address URL (e.g. <http://www.example.com>): <http://www.matep.com/chp-facility-upgrade-information/>

Option 3: Provide the following information from your SWPPP:

Endangered Species Protection Worksheet: Criterion C1

The following questions will help you determine your eligibility under Part 1.1.4 of the permit with respect to protection of Endangered Species Act (ESA) species and critical habitat(s). Please refer to Appendix E (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_e_-_procedures_relating_to_endangered_species_protection.pdf) of the 2021 MSGP for important information regarding your obligations under this permit concerning ESA-protected species and critical habitat(s).

Determine ESA Eligibility Criterion

Are your industrial activities already addressed in another operator's valid certification of eligibility for your "action area" under eligibility criteria A, C, D, or E of the 2021 MSGP? No

Are your industrial activities the subject of a permit under section 10 of the ESA by the USFWS and/or NMFS, and this authorization addresses the effects of your facility's discharges and discharge-related activities on ESA-listed species and critical habitat?

No

You must determine whether species listed as either threatened or endangered under the Endangered Species Act, and/or their critical habitat are located in your facility's action area. ESA-listed species and critical habitat are under the purview of the NMFS and the USFWS.

Determine Your Action Area

Your "action area" (as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)) includes all areas to be affected directly or indirectly by the action and not merely the immediate area involved in the action, including areas beyond the footprint of the facility that are likely to be affected by stormwater discharges, discharge-related activities, and authorized non-stormwater discharges. You must select and confirm that all the following are true:

➤ In determining my "action area", I have considered that discharges of pollutants into downstream areas can expand the action area well beyond the footprint of my facility and the discharge point(s). I have taken into account the controls I will be implementing to minimize pollutants and the receiving waterbody characteristics (e.g. perennial, intermittent, ephemeral) in determining the extent of physical, chemical, and/or biotic effects of the discharges. I confirm that all receiving waterbodies that could receive pollutants from my facility are included in my action area.

True

➤ In determining my "action area", I have considered that discharge-related activities must also be accounted for in determining my action area. I understand that discharge-related activities are any activities that cause, contribute to, or result in stormwater and authorized non-stormwater point source discharges, and measures such as the siting, construction, and operation of stormwater controls to control, reduce, or prevent pollutants from being discharged. I understand that any new or modified stormwater controls that will have noise or other similar effects, and any disturbances associated with construction of controls, are part of my action area.

True

Provide a written description of your action area and explain your rationale for the extent of the action area drawn on your map. [Click here for an example.](#)

The action area for the Medical Area Total Energy Plant's stormwater discharges extends to the Muddy River approximately 400 feet west of the facility. The action area in the Muddy River extends a quarter mile north and a quarter mile south of the main outfall in the Muddy River. The size of the action area was chosen due to the expected volume of stormwater discharge from the facility relative to the amount of dilution flow likely available in the receiving water body at the storm drain outfall.

Attach a map of the action area for your facility. Mapping tool IPaC (the Information, Planning, and Consultation System) located at <http://ecos.fws.gov/ipac/> (<https://ecos.fws.gov/ipac/>) or [click here \(/net-msgp/documents/action_area_example.pdf\)](#) for an example.

Name	Uploaded Date	Size
 ActionAreaMap.pdf (attachment/704152)	03/15/2021	63.84 KB

Determine if ESA-listed species and/or critical habitat are in your facility's action area.

ESA-listed species and critical habitat are under the purview of the NMFS and the USFWS, and in many cases, you will need to acquire species and critical habitat lists from both federal agencies.

National Marine Fisheries Service (NMFS)

To obtain NMFS-listed species and critical habitat information, use the resources listed below:

General Resources:

- NOAA Fisheries, Regions Page (<https://www.fisheries.noaa.gov/regions>) 

For the Northeastern U.S.:

- NOAA Fisheries Greater Atlantic Region ESA Section 7 Mapper (<https://noaa.maps.arcgis.com/apps/webappviewer/index.html?id=1bc332edc5204e03b250ac11f9914a27>)

For Puerto Rico:

- Acropora critical habitat map (<https://www.fisheries.noaa.gov/resource/map/acropora-elkhorn-and-staghorn-coral-critical-habitat-map-and-gis-data>)
- Green turtle critical habitat map (<https://www.fisheries.noaa.gov/resource/map/green-turtle-critical-habitat-map-and-gis-data>)
- Hawksbill Turtle critical habitat map (<https://www.fisheries.noaa.gov/resource/map/hawksbill-turtle-critical-habitat-map-and-gis-data>)

Western U.S.:

- West Coast Region Protected Resources App (<https://www.webapps.nwfsc.noaa.gov/portal/apps/webappviewer/index.html?id=7514c715b8594944a6e468dd25aaacc9>)

Pacific Islands:

- Contact the Pacific Islands Regional Office at (808) 725-5000 or pirohonolulu@noaa.gov (<mailto:pirohonolulu@noaa.gov>)

I have checked the webpages listed above and confirmed that: There are no NMFS-listed species and/or critical habitat in my action area.

U.S. Fish and Wildlife Service (USFWS)

To obtain FWS-listed species and critical habitat information, use the resources listed below:

- IPaC (the Information, Planning, and Consultation System) (<https://ecos.fws.gov/ipac/>)
- For instructions for using IPaC, [click here.](#)

I have checked the webpages listed above and confirmed that: There are FWS-listed species and/or critical habitat in my action area.

For FWS species, include the full printout from your IPaC query/Official Species List.

Name	Uploaded Date	Size
 Species List_ New England Ecological Services Field Office.pdf (attachment/704156)	03/15/2021	191.08 KB

You may be eligible under **Criterion C**. You must assess whether your discharges and discharge-related activities are likely to adversely affect ESA-listed species or critical habitat, and whether any additional measures are necessary to ensure no likely adverse effects. In order to make a determination of your facility's likelihood of adverse effects, you must complete the Criterion C Eligibility fields below.

Criterion C Eligibility

Select which applies:

Criterion C1: Facility eligible for Criterion C in the 2015 MSGP with no change to ESA-listed species, critical habitat, or action area.

Your facility was eligible for Criterion C in the 2015 MSGP and there has been no change in your facility's action area and you have confirmed that there are no additional ESA-listed species or critical habitat under the jurisdiction of USFWS and/or NMFS in your action area since your certification under Criterion C in the 2015 MSGP. You must provide a description of the basis of this criterion selected on your NOI form and provide documentation supporting your eligibility determination in your SWPPP.

Select which applies:

I am seeking coverage under the MSGP as an existing discharger and there are no modifications to my facility.

Provide a basis statement providing the USFWS and/or NMFS resources consulted that helped you determine that there are no additional ESA-listed species and/or critical habitat have been listed by under the jurisdiction of the Services in your action area.

According to a review of the NMFS species New England map conducted in March 2021, the action area is located within a sturgeon-accessible watershed, which includes the shortnose sturgeon and Atlantic sturgeon. The action area is also within a sub watershed affecting coastal water quality. The ranges of leatherback, loggerhead, Kemp's ridley, hawksbill, and green sea turtles include coastal waters of Massachusetts. According to a review of the U.S. Fish & Wildlife Service online mapping tool conducted in March 2021, the Northern Long-eared Bat is included within the action area. No critical habitats for these species have been designated in the action area. Based on the current review of the USFWS and the NMFS resources and the similar research that was conducted in July 2015, there have been no changes to the ESA-listed species, critical habitat, or action area.

Note: Any missing or incomplete information in this section may result in a delay of your coverage under the permit.

Historic Preservation: Criterion A

The following questions will help you determine your eligibility under Part 1.1.5 of the permit with respect to preservation of historic properties. You may still use the paper instructions in Appendix F (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_f_-_procedures_relating_to_historic_properties_preservation.pdf) of the MSGP in advance or in conjunction with answering the questions in this section of the form. For more information about your State Historic Preservation Office (SHPO) or Tribal Historic Preservation Office (THPO), please visit the National Park Service (NPS) websites at:

- State Historic Preservation Office (SHPO) (<https://www.nps.gov/subjects/nationalregister/state-historic-preservation-offices.htm>)
- Tribal Historic Preservation Office (THPO) (https://www.nps.gov/history/tribes/Tribal_Historic_Preservation_Officers_Program.htm)

Are you an existing facility that is resubmitting for certification under the 2021 MSGP? Yes

➔ If you are an existing facility you should have already addressed National Historic Preservation Act (NHPA) issues. To gain coverage under the 2015 MSGP, you were required to certify that you were either not affecting historic properties or had obtained written agreement from the relevant SHPO or THPO regarding methods of mitigating potential impacts.

Will you be constructing or installing any new stormwater control measures? No

You are eligible under **Criterion A**.

Certification Information

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

Certified By: Michael Buckman

Certifier Title: Plant Manager

Certifier Email: michael.buckman@engie.com

Certified On: 04/07/2021 8:40 AM ET

Appendix B

Endangered Species Determination





United States Department of the Interior



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

In Reply Refer To:

March 12, 2021

Consultation Code: 05E1NE00-2021-SLI-1801

Event Code: 05E1NE00-2021-E-05710

Project Name: Medical Area Total Energy Plant (MATEP)

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

To Whom It May Concern:

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

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

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

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

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

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

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

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>;

<http://www.towerkill.com>; and

<http://>

www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

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

Attachment(s):

- Official Species List

Official Species List

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

This species list is provided by:

New England Ecological Services Field Office

70 Commercial Street, Suite 300

Concord, NH 03301-5094

(603) 223-2541

Project Summary

Consultation Code: 05E1NE00-2021-SLI-1801

Event Code: 05E1NE00-2021-E-05710

Project Name: Medical Area Total Energy Plant (MATEP)

Project Type: ** OTHER **

Project Description: The facility is located on 1.876 acres of land and is located in a limited industrial land use zone in the Charles River Basin. The facility is involved in electric, steam, and chilled water generation and uses combined cycle electric generation with heat recovery boilers to generate steam which is used to generate electricity in two steam turbine generators. The facility is completing the Endangered Species eligibility determination as required by the Multi-Sector General Permit (MSGP).

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@42.3360363,-71.11112760449188,14z>



Counties: Norfolk and Suffolk counties, Massachusetts

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

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

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

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

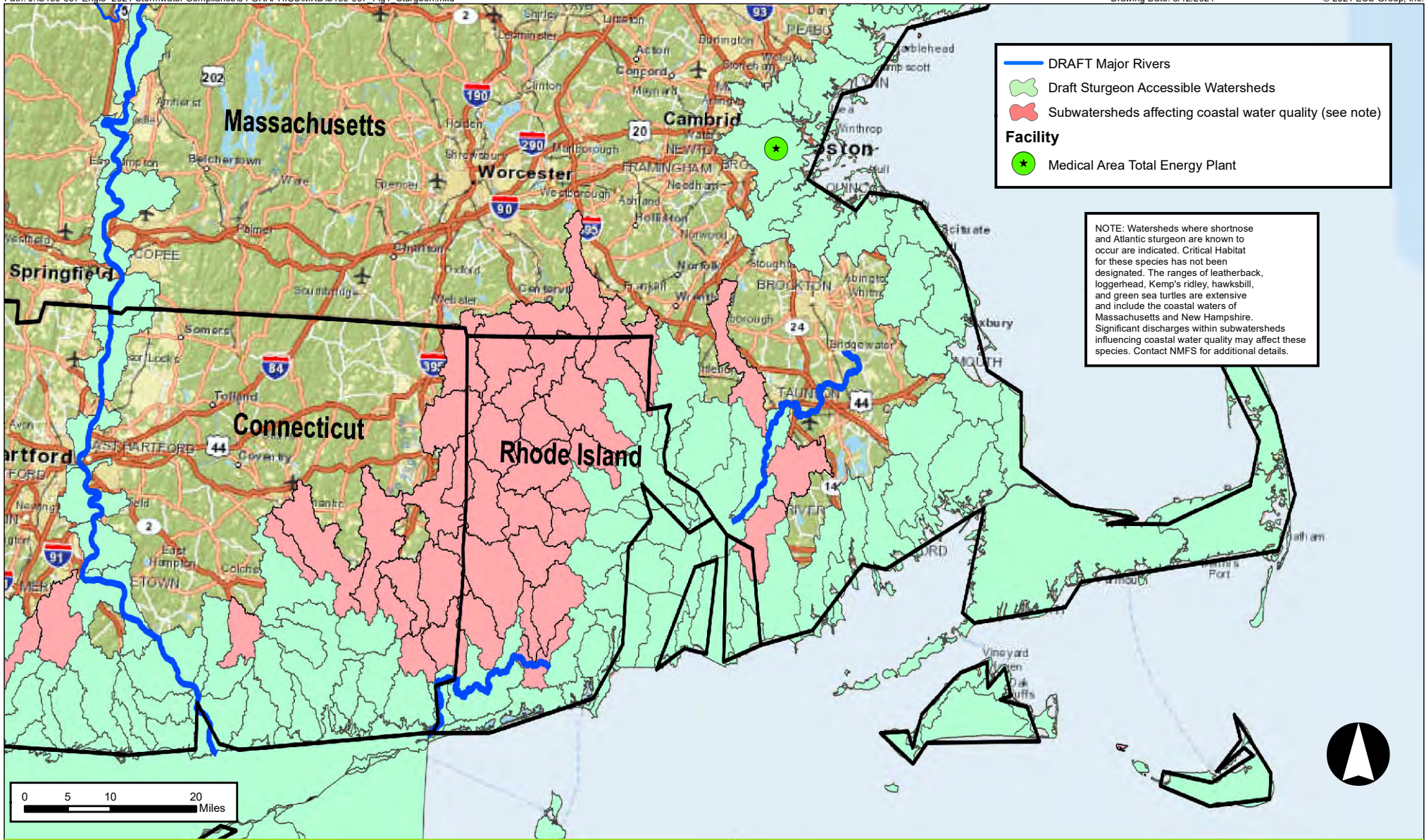
-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

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

Critical habitats

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



Medical Area Total Energy Plant

Boston, Massachusetts

1 inch = 16 miles

Source: 1) Map derived from the following document titled: New England Rivers and subwatersheds where ESA-listed shortnose and Atlantic sturgeon under NMFS jurisdiction occur (<https://www.epa.gov/sites/production/files/2015-10/documents/new-england-map-nmfs.pdf>)

NMFS Species Map



Appendix C

Multi-Sector General Permit



The 2021 Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP) may be viewed at the following:
<https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-epas-2021-msgp>

Appendix D

Annual Reports





Permit Information

Report Year: 2021

Reporting Period: 1/1/2021 to 12/31/2021

NPDES ID: MAR053504

Facility Information

Facility Name: MEDICAL AREA TOTAL ENERGY PLANT

Facility Point of Contact

First Name Middle Initial Last Name: Scott . Manning

Phone: 617-598-2352 Ext.:

Email: scott.manning@engie.com

Facility Mailing Address

Address Line 1: 474 BROOKLINE AVENUE

Address Line 2:

City: BOSTON

ZIP/Postal Code: 02215

State: MA

County or Similar Division: Suffolk

General Findings

Provide a summary of your past year's routine facility inspection documentation, including dates (see Part 3.1.6 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.9 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2021." (Note: Operators of airport facilities that are complying with Part 8.S.9 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)

The facility conducted and documented facility inspections on March 18, 2021 (1st Quarter), June 25, 2021 (2nd Quarter), September 20, 2021 (3rd Quarter), and December 20, 2021 (4th Quarter). The areas that were inspected included secondary containment areas/bulk storage tanks, roof drains, roof vents/stacks, cooling tower basin/area around the cooling towers, outfalls, and rooftops/equipment/deaerator vent system. Actions taken included the removal of accumulated trash and debris, removal and replacement of drain filters, and removal of oil absorbent pads on roof near CTG-100/200 lube oil vapor extractor vents.

Provide a summary of your past year's quarterly visual assessment documentation, including dates (see Part 3.2.3 of the permit).

The facility conducted stormwater sample visual assessments of Outfall 001, Outfall 003, and Outfall 004 on March 18, 2021 (1st Quarter), June 22, 2021 (2nd Quarter), August 19, 2021 (3rd Quarter), and November 11, 2021 (4th Quarter). The samples were visually inspected for color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution. Some visual assessments indicated minimal amounts of settled solids and floating solids. A sample collected at Outfall 004 in the 1st Quarter exhibited a light brown color. A sample collected at Outfall 001 in the 3rd Quarter exhibited foam.

The facility was unable to collect snowmelt samples in 2021.

Provide a summary of your past year's corrective action and/or additional implementation measures (AIM) documentation (See Part 5.3 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Note that you must modify your SWPPP based on the corrective actions and deadlines required under Part 5. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

Quarterly benchmark samples were collected from Outfall 004 for total iron during the first and second quarters of 2021 (March 18, 2021 and June 22, 2021). The sample did not exceed the benchmark concentration of 1.0 mg/L as required in Section 9.1.2.4 of the 2015 MSGP. The facility is no longer required to perform benchmark sampling under Sector O of the 2021 MSGP.

As required by the 2021 MSGP, indicator monitoring samples for pH, COD, and TSS were collected from Outfalls 001, 003, and 004 during the third and fourth quarters of 2021 (August 19, 2021 and November 12, 2021). Indicator monitoring samples for PAH were collected from Outfalls 001, 003, and 004 in the third quarter (August 19, 2021). Under the 2021 MSGP, the facility must conduct indicator monitoring of stormwater discharges for PAHs bi-annually in the first and fourth years of permit coverage. The permit coverage for this facility began on May 30, 2021. Indicator monitoring parameters are "report-only" and do not have thresholds or baseline values for comparison.

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

Certified By: Scott Manning

Certifier Title: Plant Manager

Certifier Email: scott.manning@engie.com

Certified On: 01/26/2022 10:37 AM ET

Appendix E

Corrective Actions

Medical Area Total Energy Plant (MATEP) Corrective Action Report

Date of Corrective Action:		Personnel Prepared Form:	
Identify the condition:			
<input type="checkbox"/> Average benchmark value exceedance		<input type="checkbox"/> Control measures not properly operated or maintained	
<input type="checkbox"/> Unauthorized release or discharge		<input type="checkbox"/> Other (describe): _____	
Description of the incident/problem identified:			
Date of the condition was identified:			
Benchmark Exceedance (if Applicable)			
Parameter/Pollutant of Concern Exceeded:			
Outfall No.:		Date of Exceedance:	
Benchmark Concentration:		Reported Concentration:	
Spill/Release Description (if Applicable)			
Date and Time of Spill/Release:		Material Spill/Release:	
Location of Spill/Release:		Amount of Material Spill/Release:	
Reason for Spill/Release:			
Discharge to Waters of U.S.:			
Description of Notifications (if Applicable)			
Date/Time of Notification:		Notifications Made:	
Description:			
Description of Spill/Release Immediate Actions (if Applicable)			
Date/Time Clean-Up Completed:		Personnel/Contractor Involved:	
Actions Taken to Clean-Up Spill/Release:			
Immediate and Corrective Actions			
Description of Immediate and Corrective Actions Taken (within 14 days):			
14-Day Infeasibility (Document why it is infeasible to complete necessary installations or repairs within 14-day timeframe and describe schedule):			
Extension Notification (Document rationale sent to USEPA for extension of timeframe if more than 45 days required to implement corrective actions):			
Date Extension sent to USEPA:			
Did/will this corrective action require modification of the SWPPP?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
If modification required, SWPPP revised within 14 days of completing corrective actions?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Date Corrective Action Initiated:			
Date Corrective Action Completed:		Or Expected to be Completed:	

Authorized Representative

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

Position: _____

Signature: _____

Date: _____

Appendix F

Routine Facility Inspections



Medical Area Total Energy Plant Routine Inspection Checklist

Date/Time: September 20, 2021, 8:45 AM	Personnel Involved: Peter Gluckler Jr., Bob St. Sauveur and Tom Watson (Frontline)
Weather: Sunny	Temperature: 65 deg. F
Any discharges occurring at time of inspection: No.	
Areas to be Inspected:	
Secondary Containment Areas/Bulk Storage Tanks <input checked="" type="checkbox"/>	Cooling Tower Basin/Area Around Cooling Towers <input checked="" type="checkbox"/>
Roof Drains <input checked="" type="checkbox"/>	Outfalls 001, 002, 003, and 004 <input checked="" type="checkbox"/>
Roof Vents/Stacks <input checked="" type="checkbox"/>	Rooftops/Equipment/Deaerator Vent System <input checked="" type="checkbox"/>
Evaluation Checklist:	
Do facility grounds show signs of poor housekeeping? No.	
Are drums and other containers stored on the roof? No.	
Are there any repairs or maintenance needed? No.	
Is any cleanup of spills, leaks or refuse needed? See below.	
Is there any evidence of pollutants entering the stormwater drainage system? No	
Are there any potential problems that may cause stormwater pollution? See discussion in SWPPP	
Comments: Oil absorbent pads on roof near CTG-100/200 lube oil vapor extractor vents need to be disposed of. Some debris and refuse on roof need to be cleaned up and removed. Drain filter inserts need to be replaced. (Attach additional sheet if necessary)	
Actions Taken (to be completed by the PPT Leader): Discussed items above with MATEP's industrial cleaning contractor, Frontline, Inc. and will schedule date to arrange clean-up.	
Follow-up Inspection Date (14 Days):	Check here if additional sheets attached <input type="checkbox"/>
PPT Leader Signature: <u>Peter E. Gluckler Jr.</u>	Date: <u>9/20/2021</u>

Authorized Representative

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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: PETER E. GLUCKLER JR Position: EHS MANAGER
 Signature: Peter E. Gluckler Jr. Date: 9/20/2021

Medical Area Total Energy Plant Routine Inspection Checklist

Date/Time: 12/20/2021, 0900	Personnel Involved: Peter Gluckler Jr. (MATEP) and Heidi Fisher (ESS Group, Inc.)
Weather: Sunny	Temperature: 23 deg. F
Any discharges occurring at time of inspection: No	
Areas to be Inspected:	
Secondary Containment Areas/Bulk Storage Tanks <input checked="" type="checkbox"/>	Cooling Tower Basin/Area Around Cooling Towers <input checked="" type="checkbox"/>
Roof Drains <input checked="" type="checkbox"/>	Outfalls 001, 002, 003, and 004 <input checked="" type="checkbox"/>
Roof Vents/Stacks <input checked="" type="checkbox"/>	Rooftops/Equipment/Deaerator Vent System <input checked="" type="checkbox"/>
Evaluation Checklist:	
Do facility grounds show signs of poor housekeeping? No	
Are drums and other containers stored on the roof? No	
Are there any repairs or maintenance needed? No	
Is any cleanup of spills, leaks or refuse needed? No	
Is there any evidence of pollutants entering the stormwater drainage system? No	
Are there any potential problems that may cause stormwater pollution? See discussion in SWPPP	
Comments: <i>Some uncovered materials observed on roof; Peter to follow up with covering items, i.e., with a tarp.</i>	
<i>(Attach additional sheet if necessary)</i>	
Actions Taken (to be completed by the PPT Leader): None	
Follow-up Inspection Date (14 Days):	Check here if additional sheets attached <input type="checkbox"/>
PPT Leader Signature: <i>Peter E Gluckler Jr</i>	Date: <i>12/23/21</i>

Authorized Representative

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

Position: EHS MANAGER

Signature: *Peter E Gluckler Jr*

Date: 12/23/21

Medical Area Total Energy Plant Routine Inspection Checklist

Date/Time:		Personnel Involved:	
Weather:		Temperature:	
Any discharges occurring at time of inspection:			
Areas to be Inspected:			
Secondary Containment Areas/Bulk Storage Tanks <input type="checkbox"/>	Cooling Tower Basin/Area Around Cooling Towers <input type="checkbox"/>		
Roof Drains <input type="checkbox"/>	Outfalls 001, 002, 003, and 004 <input type="checkbox"/>		
Roof Vents/Stacks <input type="checkbox"/>	Rooftops/Equipment/Deaerator Vent System <input type="checkbox"/>		
Evaluation Checklist:			
Do facility grounds show signs of poor housekeeping?			
Are drums and other containers stored on the roof?			
Are there any repairs or maintenance needed?			
Is any cleanup of spills, leaks or refuse needed?			
Is there any evidence of pollutants entering the stormwater drainage system?			
Are there any potential problems that may cause stormwater pollution?			
Comments:			
<i>(Attach additional sheet if necessary)</i>			
Actions Taken (to be completed by the PPT Leader):			
Follow-up Inspection Date (14 Days):		Check here if additional sheets attached <input type="checkbox"/>	
PPT Leader Signature:		Date:	

Authorized Representative

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

Position: _____

Signature: _____

Date: _____

Appendix G

Quarterly Visual Assessment Forms



Medical Area Total Energy Plant Quarterly Visual Monitoring Report

Date/Time: 08/19/2021 0836	Personnel: Heidi Fisher, ESS Group, Inc.
Outfall: 001	Date of storm event sampled: 08/19/2021
Nature of the discharge (i.e., runoff or snow melt): Runoff	Duration (hours)*: 5
Rainfall measurements (inches) of storm event sampled (storm depth)*: 1.14	Date of Last Rainfall*: 08/14/2021

* Source of data obtained from the Logan International Airport Boston, Massachusetts (KBOS) at the National Weather Service

Observations:

Record your visual observations of the sample quality in the space provided below.

Color: CLEAR	Settled Solids: NO
Odor: NO	Foam: YES
Clarity: YES	Sheen: NO
Floating Solids: NO	Other: NA
Any Other Pollutants (Describe): NO	

Source of Pollution/Follow-Up Inspections:


Identify potential sources of the pollution identified above and results of follow up inspections
(follow up inspections must be performed to trace any sources of pollution identified here)

Authorized Representative

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

Position: EHS MANAGER

Signature: 

Date: 9/10/21

File Completed Forms in Appendix E

Medical Area Total Energy Plant Quarterly Visual Monitoring Report

Date/Time: 08/19/2021 0825	Personnel: Heidi Fisher, ESS Group, Inc.
Outfall: 003	Date of storm event sampled: 08/19/2021
Nature of the discharge (i.e., runoff or snow melt): Runoff	Duration (hours)*: 5
Rainfall measurements (inches) of storm event sampled (storm depth)*: 1.14	Date of Last Rainfall*: 08/14/2021
* Source of data obtained from the Logan International Airport Boston, Massachusetts (KBOS) at the National Weather Service	
Observations:	
Record your visual observations of the sample quality in the space provided below.	
Color: CLEAR	Settled Solids: YES
Odor: NO	Foam: NO
Clarity: YES	Sheen: NO
Floating Solids: YES	Other: NA
Any Other Pollutants (Describe): NO	
Source of Pollution/Follow-Up Inspections:	
Identify potential sources of the pollution identified above and results of follow up inspections (follow up inspections must be performed to trace any sources of pollution identified here)	
Moderate amounts of floating solids	

Authorized Representative

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

Position: EHS MANAGER

Signature: Peter E Gluckler

Date: 9/10/21

File Completed Forms in Appendix E

Medical Area Total Energy Plant Quarterly Visual Monitoring Report


Date/Time: 08/19/2021 1005	Personnel: Heidi Fisher, ESS Group, Inc.
Outfall: 004	Date of storm event sampled: 08/19/2021
Nature of the discharge (i.e., runoff or snow melt): Runoff	Duration (hours)*: 5
Rainfall measurements (inches) of storm event sampled (storm depth)*: 1.14	Date of Last Rainfall*: 08/14/2021
* Source of data obtained from the Logan International Airport Boston, Massachusetts (KBOS) at the National Weather Service	
Observations:	
Record your visual observations of the sample quality in the space provided below.	
Color: CLEAR	Settled Solids: NO
Odor: NO	Foam: NO
Clarity: YES	Sheen: NO
Floating Solids: NO	Other: NA
Any Other Pollutants (Describe): NO	
Source of Pollution/Follow-Up Inspections:	
Identify potential sources of the pollution identified above and results of follow up inspections (follow up inspections must be performed to trace any sources of pollution identified here)	

Authorized Representative

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

Position: EHS MANAGER

Signature: 

Date: 9/10/21

File Completed Forms in Appendix E

Medical Area Total Energy Plant Quarterly Visual Monitoring Report

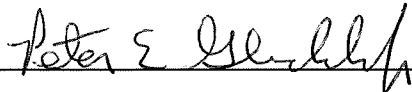
Date/Time: 11/12/2021 1530	Personnel: Mike Ernsting, ESS Group, Inc.
Outfall: 001	Date of storm event sampled: 11/12/2021
Nature of the discharge (i.e., runoff or snow melt): Runoff	Duration (hours)*: 8
Rainfall measurements (inches) of storm event sampled (storm depth)*: 0.53	Date of Last Rainfall*: 10/31/2021
* Source of data obtained from the Logan International Airport Boston, Massachusetts (KBOS) at the National Weather Service	
Observations: Record your visual observations of the sample quality in the space provided below.	
Color: CLEAR	Settled Solids: YES
Odor: NO	Foam: NO
Clarity: YES	Sheen: NO
Floating Solids: NO	Other: NA
Any Other Pollutants (Describe): NO	
Source of Pollution/Follow-Up Inspections: Identify potential sources of the pollution identified above and results of follow up inspections (follow up inspections must be performed to trace any sources of pollution identified here)	

Authorized Representative

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

Position: EHS MANAGER

Signature: 

Date: 12/1/21

File Completed Forms in Appendix E

Medical Area Total Energy Plant Quarterly Visual Monitoring Report

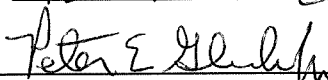
Date/Time: 11/12/2021 1520	Personnel: Mike Ernsting, ESS Group, Inc.
Outfall: 003	Date of storm event sampled: 11/12/2021
Nature of the discharge (i.e., runoff or snow melt): Runoff	Duration (hours)*: 8
Rainfall measurements (inches) of storm event sampled (storm depth)*: 0.53	Date of Last Rainfall*: 10/31/2021
* Source of data obtained from the Logan International Airport Boston, Massachusetts (KBOS) at the National Weather Service	
Observations:	
Record your visual observations of the sample quality in the space provided below.	
Color: CLEAR	Settled Solids: NO
Odor: NO	Foam: NO
Clarity: YES	Sheen: NO
Floating Solids: NO	Other: NA
Any Other Pollutants (Describe): NO	
Source of Pollution/Follow-Up Inspections:	
Identify potential sources of the pollution identified above and results of follow up inspections (follow up inspections must be performed to trace any sources of pollution identified here) Moderate amounts of floating solids	

Authorized Representative

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

Position: EHS MANAGER

Signature: 

Date: 12/1/2021

File Completed Forms in Appendix E

Medical Area Total Energy Plant Quarterly Visual Monitoring Report

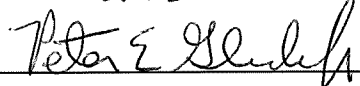
Date/Time: 11/12/2021 1510	Personnel: Mike Ernsting, ESS Group, Inc.
Outfall: 004	Date of storm event sampled: 11/12/2021
Nature of the discharge (i.e., runoff or snow melt): Runoff	Duration (hours)*: 8
Rainfall measurements (inches) of storm event sampled (storm depth)*: 0.53	Date of Last Rainfall*: 10/31/2021
* Source of data obtained from the Logan International Airport Boston, Massachusetts (KBOS) at the National Weather Service	
Observations: Record your visual observations of the sample quality in the space provided below.	
Color: CLEAR	Settled Solids: NO
Odor: NO	Foam: NO
Clarity: YES	Sheen: NO
Floating Solids: NO	Other: NA
Any Other Pollutants (Describe): NO	
Source of Pollution/Follow-Up Inspections: Identify potential sources of the pollution identified above and results of follow up inspections (follow up inspections must be performed to trace any sources of pollution identified here)	

Authorized Representative

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

Position: EHS MANAGER

Signature: 

Date: 12/1/21

File Completed Forms in Appendix E

**Medical Area Total Energy Plant
474 Brookline Avenue, Boston, Massachusetts**

**QUARTERLY VISUAL ASSESSMENT
PROCEDURE**

Title: Visual Examination of Stormwater Discharges

Objective: To identify sources of stormwater pollution and optimize SWPP Plan effectiveness

Frequency: Quarterly

Personnel: Pollution Prevention Team member

Records: Visual examination assessment forms

1. Obtain several clear glass one-liter jars prior to the sampling event. Label the jars prior to the sampling event, if multiple samples are to be obtained or if more than one outfall is to be sampled.
2. Within thirty minutes after stormwater runoff begins discharging from the facility outfalls, collect one full sample jar from each outfall required to be monitored. (Note: there is generally a lag time between the start of rainfall and the start of discharge, depending on site conditions).
3. Bring the collected samples to a well-lit area and perform the visual examination as soon as is practical.
4. Using the Visual Examination Form included with this Procedure, record your observations of the quality of the stormwater in each sample. Use a separate form for each sample, and record any observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oily sheen or other indicators of pollution.
5. In the appropriate location on the Form, record your opinion of the probable source of any pollution observed in each sample.
6. Make arrangements to conduct inspections of each area of the facility thought to be a potential source of any observed pollution in each sample.
7. As soon as practical, perform inspections of the areas identified in steps 5 and 6.
8. Record the results of the inspections in the appropriate location on the Form. Attach additional sheets, as necessary.
9. If the results of the visual examinations and the subsequent facility inspections indicate deficiencies in the facility SWPP Plan, make provisions to update the SWPP Plan as soon as possible.
10. File the Visual Examination Report in Appendix G of this SWPP Plan.

Medical Area Total Energy Plant Quarterly Visual Assessment Forms

Medical Area Total Energy Plant Quarterly Visual Assessment Forms	
Date/Time:	Personnel:
Outfall:	Date of storm event sampled:
Nature of the discharge (i.e., runoff or snow melt):	Duration (in hours):
Rainfall measurements (in inches) of storm event sampled (storm depth):	Date of Last Rainfall:
Observations:	
Observations: Record your visual observations of the sample quality in the space provided below.	
Color:	Settled Solids:
Odor:	Foam:
Clarity:	Sheen:
Floating Solids:	Other:
Any Other Pollutants (Describe):	
Source of Pollution/Follow-Up Inspections: Identify potential sources of the pollution identified above and results of follow up inspections (follow up inspections must be performed to trace any sources of pollution identified here)	

Authorized Representative

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

Position: _____

Signature: _____

Date: _____

File Completed Forms in Appendix G

Appendix H

Stormwater Analytical Data





ANALYTICAL REPORT

Lab Number:	L2144674
Client:	ESS Group Incorporated 10 Hemingway Dr. 2nd Fl East Providence, RI 02915
ATTN:	Roger Gosciminski
Phone:	(401) 434-5560
Project Name:	MATEP
Project Number:	5460-007.01
Report Date:	08/26/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2144674-01	OUTFALL 001	WATER	BOSTON, MA	08/19/21 08:36	08/19/21
L2144674-02	OUTFALL 003	WATER	BOSTON, MA	08/19/21 08:25	08/19/21
L2144674-03	OUTFALL 004	WATER	BOSTON, MA	08/19/21 10:05	08/19/21

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

Case Narrative (continued)

Sample Receipt

L2144674-03: The collection date and time on the chain of custody was 19-AUG-21 10:05; however, the collection date/time on the container label was 19-AUG-21 08:48. At the client's request, the collection date/time is reported as 19-AUG-21 10:05.

E. Coli (MF)

L2144674-01 and -02 were analyzed with the method required holding time exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Melissa Sturgis

Title: Technical Director/Representative

Date: 08/26/21

ORGANICS

SEMIVOLATILES

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144674-01
 Client ID: OUTFALL 001
 Sample Location: BOSTON, MA

Date Collected: 08/19/21 08:36
 Date Received: 08/19/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/25/21 16:47
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 08/23/21 15:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	--	1
2-Chloronaphthalene	ND		ug/l	0.20	--	1
Fluoranthene	ND		ug/l	0.10	--	1
Naphthalene	ND		ug/l	0.10	--	1
Benzo(a)anthracene	ND		ug/l	0.10	--	1
Benzo(a)pyrene	ND		ug/l	0.10	--	1
Benzo(b)fluoranthene	ND		ug/l	0.10	--	1
Benzo(k)fluoranthene	ND		ug/l	0.10	--	1
Chrysene	ND		ug/l	0.10	--	1
Acenaphthylene	ND		ug/l	0.10	--	1
Anthracene	ND		ug/l	0.10	--	1
Benzo(ghi)perylene	ND		ug/l	0.10	--	1
Fluorene	ND		ug/l	0.10	--	1
Phenanthrene	ND		ug/l	0.10	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	--	1
Pyrene	ND		ug/l	0.10	--	1
1-Methylnaphthalene	ND		ug/l	0.10	--	1
2-Methylnaphthalene	ND		ug/l	0.10	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	70		15-120
4-Terphenyl-d14	70		41-149

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144674-02
 Client ID: OUTFALL 003
 Sample Location: BOSTON, MA

Date Collected: 08/19/21 08:25
 Date Received: 08/19/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/25/21 17:07
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 08/23/21 15:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	--	1
2-Chloronaphthalene	ND		ug/l	0.20	--	1
Fluoranthene	ND		ug/l	0.10	--	1
Naphthalene	ND		ug/l	0.10	--	1
Benzo(a)anthracene	ND		ug/l	0.10	--	1
Benzo(a)pyrene	ND		ug/l	0.10	--	1
Benzo(b)fluoranthene	ND		ug/l	0.10	--	1
Benzo(k)fluoranthene	ND		ug/l	0.10	--	1
Chrysene	ND		ug/l	0.10	--	1
Acenaphthylene	ND		ug/l	0.10	--	1
Anthracene	ND		ug/l	0.10	--	1
Benzo(ghi)perylene	ND		ug/l	0.10	--	1
Fluorene	ND		ug/l	0.10	--	1
Phenanthrene	ND		ug/l	0.10	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	--	1
Pyrene	ND		ug/l	0.10	--	1
1-Methylnaphthalene	ND		ug/l	0.10	--	1
2-Methylnaphthalene	ND		ug/l	0.10	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	62		15-120
4-Terphenyl-d14	66		41-149

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144674-03
 Client ID: OUTFALL 004
 Sample Location: BOSTON, MA

Date Collected: 08/19/21 10:05
 Date Received: 08/19/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/25/21 17:26
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 08/23/21 15:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	--	1
2-Chloronaphthalene	ND		ug/l	0.20	--	1
Fluoranthene	ND		ug/l	0.10	--	1
Naphthalene	ND		ug/l	0.10	--	1
Benzo(a)anthracene	ND		ug/l	0.10	--	1
Benzo(a)pyrene	ND		ug/l	0.10	--	1
Benzo(b)fluoranthene	ND		ug/l	0.10	--	1
Benzo(k)fluoranthene	ND		ug/l	0.10	--	1
Chrysene	ND		ug/l	0.10	--	1
Acenaphthylene	ND		ug/l	0.10	--	1
Anthracene	ND		ug/l	0.10	--	1
Benzo(ghi)perylene	ND		ug/l	0.10	--	1
Fluorene	ND		ug/l	0.10	--	1
Phenanthrene	ND		ug/l	0.10	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	--	1
Pyrene	ND		ug/l	0.10	--	1
1-Methylnaphthalene	ND		ug/l	0.10	--	1
2-Methylnaphthalene	ND		ug/l	0.10	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	62		15-120
4-Terphenyl-d14	66		41-149

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D-SIM
Analytical Date: 08/25/21 19:03
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 15:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1538143-1					
Acenaphthene	ND		ug/l	0.10	--
2-Chloronaphthalene	ND		ug/l	0.20	--
Fluoranthene	ND		ug/l	0.10	--
Naphthalene	ND		ug/l	0.10	--
Benzo(a)anthracene	ND		ug/l	0.10	--
Benzo(a)pyrene	ND		ug/l	0.10	--
Benzo(b)fluoranthene	ND		ug/l	0.10	--
Benzo(k)fluoranthene	ND		ug/l	0.10	--
Chrysene	ND		ug/l	0.10	--
Acenaphthylene	ND		ug/l	0.10	--
Anthracene	ND		ug/l	0.10	--
Benzo(ghi)perylene	ND		ug/l	0.10	--
Fluorene	ND		ug/l	0.10	--
Phenanthrene	ND		ug/l	0.10	--
Dibenzo(a,h)anthracene	ND		ug/l	0.10	--
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	--
Pyrene	ND		ug/l	0.10	--
1-Methylnaphthalene	ND		ug/l	0.10	--
2-Methylnaphthalene	ND		ug/l	0.10	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	42		15-120
4-Terphenyl-d14	37	Q	41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1538143-2 WG1538143-3								
Acenaphthene	50		54		40-140	8		40
2-Chloronaphthalene	54		57		40-140	5		40
Fluoranthene	52		57		40-140	9		40
Naphthalene	52		55		40-140	6		40
Benzo(a)anthracene	46		49		40-140	6		40
Benzo(a)pyrene	52		56		40-140	7		40
Benzo(b)fluoranthene	56		59		40-140	5		40
Benzo(k)fluoranthene	52		56		40-140	7		40
Chrysene	51		55		40-140	8		40
Acenaphthylene	54		56		40-140	4		40
Anthracene	49		53		40-140	8		40
Benzo(ghi)perylene	47		50		40-140	6		40
Fluorene	52		55		40-140	6		40
Phenanthrene	48		51		40-140	6		40
Dibenzo(a,h)anthracene	50		53		40-140	6		40
Indeno(1,2,3-cd)pyrene	48		51		40-140	6		40
Pyrene	51		56		40-140	9		40
1-Methylnaphthalene	55		59		40-140	7		40
2-Methylnaphthalene	54		57		40-140	5		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1538143-2 WG1538143-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Nitrobenzene-d5	75		78		23-120
2-Fluorobiphenyl	54		56		15-120
4-Terphenyl-d14	57		61		41-149

INORGANICS & MISCELLANEOUS

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144674-01
Client ID: OUTFALL 001
Sample Location: BOSTON, MA

Date Collected: 08/19/21 08:36
Date Received: 08/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
E. Coli (MF)	78		col/100ml	2.0	NA	2	-	08/19/21 16:59	121,9213D	JW
General Chemistry - Westborough Lab										
Turbidity	12		NTU	0.20	--	1	-	08/19/21 17:42	44,180.1	AS
Solids, Total Suspended	12.		mg/l	5.0	NA	1	-	08/23/21 14:20	121,2540D	AC
pH (H)	9.3		SU	-	NA	1	-	08/19/21 19:09	1,9040C	AS
Chemical Oxygen Demand	110		mg/l	20	--	1	08/24/21 18:00	08/24/21 20:30	44,410.4	TL



Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144674-02
Client ID: OUTFALL 003
Sample Location: BOSTON, MA

Date Collected: 08/19/21 08:25
Date Received: 08/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
E. Coli (MF)	68		col/100ml	2.0	NA	2	-	08/19/21 16:59	121,9213D	JW
General Chemistry - Westborough Lab										
Turbidity	7.8		NTU	0.20	--	1	-	08/19/21 17:42	44,180.1	AS
Solids, Total Suspended	31.		mg/l	5.0	NA	1	-	08/23/21 14:20	121,2540D	AC
pH (H)	9.2		SU	-	NA	1	-	08/19/21 19:09	1,9040C	AS
Chemical Oxygen Demand	110		mg/l	20	--	1	08/24/21 18:00	08/24/21 20:30	44,410.4	TL



Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144674-03
Client ID: OUTFALL 004
Sample Location: BOSTON, MA

Date Collected: 08/19/21 10:05
Date Received: 08/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
E. Coli (MF)	21000		col/100ml	100	NA	100	-	08/19/21 16:59	121,9213D	JW
General Chemistry - Westborough Lab										
Turbidity	13		NTU	0.20	--	1	-	08/19/21 17:42	44,180.1	AS
Solids, Total Suspended	28.		mg/l	5.0	NA	1	-	08/23/21 14:20	121,2540D	AC
pH (H)	8.2		SU	-	NA	1	-	08/19/21 19:09	1,9040C	AS
Chemical Oxygen Demand	45.		mg/l	20	--	1	08/24/21 18:00	08/24/21 20:34	44,410.4	TL



Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab for sample(s): 01-03 Batch: WG1537111-1									
E. Coli (MF)	ND	col/100ml	1.0	NA	1	-	08/19/21 16:59	121,9213D	JW
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1537119-1									
Turbidity	ND	NTU	0.20	--	1	-	08/19/21 17:42	44,180.1	AS
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1538104-1									
Solids, Total Suspended	ND	mg/l	5.0	NA	1	-	08/23/21 14:20	121,2540D	AC
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1538202-1									
Chemical Oxygen Demand	ND	mg/l	20	--	1	08/24/21 18:00	08/24/21 20:29	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1538667-1									
Chemical Oxygen Demand	ND	mg/l	20	--	1	08/24/21 18:00	08/24/21 20:29	44,410.4	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1537119-2								
Turbidity	104		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1537138-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1538104-2								
Solids, Total Suspended	99		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1538202-2								
Chemical Oxygen Demand	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1538667-2								
Chemical Oxygen Demand	92		-		90-110	-		

Matrix Spike Analysis Batch Quality Control

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1538202-3 QC Sample: L2144528-01 Client ID: MS Sample												
Chemical Oxygen Demand	27	238	250	93	-	-	-	-	90-110	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1538667-3 QC Sample: L2144876-01 Client ID: MS Sample												
Chemical Oxygen Demand	160	238	380	94	-	-	-	-	90-110	-	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1537119-3 QC Sample: L2144674-03 Client ID: OUTFALL 004						
Turbidity	13	13	NTU	0		13
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1537138-2 QC Sample: L2144357-02 Client ID: DUP Sample						
pH	12.4	12.4	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1538104-3 QC Sample: L2145052-01 Client ID: DUP Sample						
Solids, Total Suspended	120	120	mg/l	0		29
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1538202-4 QC Sample: L2144528-01 Client ID: DUP Sample						
Chemical Oxygen Demand	27	31	mg/l	14		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1538667-4 QC Sample: L2144876-01 Client ID: DUP Sample						
Chemical Oxygen Demand	160	160	mg/l	0		20

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2144674-01A	Bacteria Cup Na2S2O3 preserved	A	NA		4.2	Y	Absent		E-COLI-MF(.33)
L2144674-01B	Plastic 60ml unpreserved	A	9	9	4.2	Y	Absent		PH-9040(1),TURB-180(2)
L2144674-01C	Plastic 120ml H2SO4 preserved	A	<2	<2	4.2	Y	Absent		COD-410(28)
L2144674-01D	Amber 250ml unpreserved	A	9	9	4.2	Y	Absent		PAHTCL-SIM-LVI(7)
L2144674-01E	Plastic 950ml unpreserved	A	9	9	4.2	Y	Absent		TSS-2540(7)
L2144674-02A	Bacteria Cup Na2S2O3 preserved	A	NA		4.2	Y	Absent		E-COLI-MF(.33)
L2144674-02B	Plastic 60ml unpreserved	A	9	9	4.2	Y	Absent		PH-9040(1),TURB-180(2)
L2144674-02C	Plastic 120ml H2SO4 preserved	A	<2	<2	4.2	Y	Absent		COD-410(28)
L2144674-02D	Amber 250ml unpreserved	A	9	9	4.2	Y	Absent		PAHTCL-SIM-LVI(7)
L2144674-02E	Plastic 950ml unpreserved	A	9	9	4.2	Y	Absent		TSS-2540(7)
L2144674-03A	Bacteria Cup Na2S2O3 preserved	A	NA		4.2	Y	Absent		E-COLI-MF(.33)
L2144674-03B	Plastic 60ml unpreserved	A	7	7	4.2	Y	Absent		PH-9040(1),TURB-180(2)
L2144674-03C	Plastic 120ml H2SO4 preserved	A	<2	<2	4.2	Y	Absent		COD-410(28)
L2144674-03D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		PAHTCL-SIM-LVI(7)
L2144674-03E	Plastic 950ml unpreserved	A	7	7	4.2	Y	Absent		TSS-2540(7)

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: MATEP
Project Number: 5460-007.01

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Report Date: 08/26/21

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: MATEP
Project Number: 5460-007.01

Lab Number: L2144674
Report Date: 08/26/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 1

8 Walkup Drive Westboro, MA 01581 Tel: 508-998-9220
 320 Forbes Blvd Mansfield, MA 02048 Tel: 508-822-9300

Date Rec'd in Lab: 8/19/21

ALPHA Job #: L2144674

Client Information

Client: ESS Group, Inc.
 Address: 10 Hemingway Drive, 2nd Fl. East Providence, RI 02915
 Phone: (401) 330-1232
 Email: r.goswami.nski@essgroup.com

Project Information

Project Name: MATEP
 Project Location: Boston, MA
 Project #: 5460-007-01
 Project Manager: Roger Goswami
 ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program Criteria

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due:

Additional Project Information:

ANALYSIS	VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> MCP 15	METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8	EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> PPI3	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	PCB: <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	PH	TSS	LOD	PAH	e-will 9/21/30	SAMPLE INFO
														Filtration <input type="checkbox"/> Field <input type="checkbox"/> Lab to do
														Preservation <input type="checkbox"/> Lab to do
														Sample Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
44674-01	Outfall 001	08/19/21	0836	SW	MF
-02	Outfall 003	08/19/21	0825	SW	MF
-03	Outfall 004	08/19/21	1005	SW	MF

Container Type
 P= Plastic
 A= Amber glass
 V= Vial
 G= Glass
 B= Bacteria cup
 C= Cube
 O= Other
 E= Encore
 D= BOD Bottle

Preservative
 A= None
 B= HCl
 C= HNO₃
 D= H₂SO₄
 E= NaOH
 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₃
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type

Preservative

Relinquished By:

Date/Time

Heidi Fisher

08/19/21 1430

Received By:

Date/Time

[Signature]
 08/19/21 11:50

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number:	L2162722
Client:	ESS Group Incorporated 10 Hemingway Dr. 2nd Fl East Providence, RI 02915
ATTN:	Roger Gosciminski
Phone:	(401) 434-5560
Project Name:	MATEP
Project Number:	S460-007.01
Report Date:	11/30/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: MATEP
Project Number: S460-007.01

Lab Number: L2162722
Report Date: 11/30/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2162722-01	OUTFALL 001	WATER	BOSTON, MA	11/12/21 15:30	11/15/21
L2162722-02	OUTFALL 003	WATER	BOSTON, MA	11/12/21 15:20	11/15/21
L2162722-03	OUTFALL 004	WATER	BOSTON, MA	11/12/21 15:10	11/15/21

Project Name: MATEP
Project Number: S460-007.01

Lab Number: L2162722
Report Date: 11/30/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: MATEP
Project Number: S460-007.01

Lab Number: L2162722
Report Date: 11/30/21

Case Narrative (continued)

Chemical Oxygen Demand

The WG1576795-4 Laboratory Duplicate RPD for chemical oxygen demand (23%), performed on L2162722-01, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Sebastian Corbin

Title: Technical Director/Representative

Date: 11/30/21

INORGANICS & MISCELLANEOUS

Project Name: MATEP
Project Number: S460-007.01

Lab Number: L2162722
Report Date: 11/30/21

SAMPLE RESULTS

Lab ID: L2162722-01
Client ID: OUTFALL 001
Sample Location: BOSTON, MA

Date Collected: 11/12/21 15:30
Date Received: 11/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	16.		mg/l	5.0	NA	1	-	11/18/21 15:30	121,2540D	MD
pH (H)	6.7		SU	-	NA	1	-	11/17/21 23:53	1,9040C	AS
Phosphorus, Total	0.205		mg/l	0.010	--	1	11/19/21 11:15	11/19/21 15:40	121,4500P-E	SD
Chemical Oxygen Demand	71.		mg/l	20	--	1	11/29/21 17:15	11/29/21 20:12	44,410.4	TL



Project Name: MATEP
Project Number: S460-007.01

Lab Number: L2162722
Report Date: 11/30/21

SAMPLE RESULTS

Lab ID: L2162722-02
Client ID: OUTFALL 003
Sample Location: BOSTON, MA

Date Collected: 11/12/21 15:20
Date Received: 11/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	88.		mg/l	5.0	NA	1	-	11/18/21 15:30	121,2540D	MD
pH (H)	7.4		SU	-	NA	1	-	11/17/21 23:53	1,9040C	AS
Phosphorus, Total	0.658		mg/l	0.010	--	1	11/19/21 11:15	11/19/21 15:41	121,4500P-E	SD
Chemical Oxygen Demand	60.		mg/l	20	--	1	11/29/21 17:15	11/29/21 20:12	44,410.4	TL



Project Name: MATEP
Project Number: S460-007.01

Lab Number: L2162722
Report Date: 11/30/21

SAMPLE RESULTS

Lab ID: L2162722-03
Client ID: OUTFALL 004
Sample Location: BOSTON, MA

Date Collected: 11/12/21 15:10
Date Received: 11/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	22.		mg/l	5.0	NA	1	-	11/18/21 15:30	121,2540D	MD
pH (H)	7.2		SU	-	NA	1	-	11/17/21 23:53	1,9040C	AS
Phosphorus, Total	0.184		mg/l	0.010	--	1	11/19/21 11:15	11/19/21 15:42	121,4500P-E	SD
Chemical Oxygen Demand	ND		mg/l	20	--	1	11/29/21 17:15	11/29/21 20:12	44,410.4	TL



Project Name: MATEP
Project Number: S460-007.01

Lab Number: L2162722
Report Date: 11/30/21

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1573203-1									
Solids, Total Suspended	ND	mg/l	5.0	NA	1	-	11/18/21 15:30	121,2540D	MD
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1573552-1									
Phosphorus, Total	ND	mg/l	0.010	--	1	11/19/21 11:15	11/19/21 15:16	121,4500P-E	SD
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1576795-1									
Chemical Oxygen Demand	ND	mg/l	20	--	1	11/29/21 17:15	11/29/21 20:10	44,410.4	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: MATEP
Project Number: S460-007.01

Lab Number: L2162722
Report Date: 11/30/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1572739-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1573203-2								
Solids, Total Suspended	99		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1573552-2								
Phosphorus, Total	104		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1576795-2								
Chemical Oxygen Demand	99		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: MATEP
Project Number: S460-007.01

Lab Number: L2162722
Report Date: 11/30/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1573552-3 QC Sample: L2162574-05 Client ID: MS Sample												
Phosphorus, Total	0.207	0.5	0.692	97	-	-	-	-	75-125	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1576795-3 QC Sample: L2162722-01 Client ID: OUTFALL 001												
Chemical Oxygen Demand	71	238	310	100	-	-	-	-	90-110	-	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: MATEP
Project Number: S460-007.01

Lab Number: L2162722
Report Date: 11/30/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1572739-2 QC Sample: L2163211-01 Client ID: DUP Sample						
pH	7.0	6.9	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1573203-3 QC Sample: L2162704-03 Client ID: DUP Sample						
Solids, Total Suspended	140	140	mg/l	0		29
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1573552-4 QC Sample: L2162574-05 Client ID: DUP Sample						
Phosphorus, Total	0.207	0.197	mg/l	5		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1576795-4 QC Sample: L2162722-01 Client ID: OUTFALL 001						
Chemical Oxygen Demand	71	89	mg/l	23	Q	20

Project Name: MATEP
Project Number: S460-007.01

Lab Number: L2162722
Report Date: 11/30/21

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2162722-01A	Plastic 60ml unpreserved	A	7	7	5.7	Y	Absent		PH-9040(1)
L2162722-01B	Plastic 120ml unpreserved	A	7	7	5.7	Y	Absent		PH-9040(1)
L2162722-01C	Plastic 120ml H2SO4 preserved	A	<2	<2	5.7	Y	Absent		COD-410(28),TPHOS-4500(28)
L2162722-01D	Plastic 250ml H2SO4 preserved	A	<2	<2	5.7	Y	Absent		COD-410(28),TPHOS-4500(28)
L2162722-01E	Plastic 950ml unpreserved	A	7	7	5.7	Y	Absent		TSS-2540(7)
L2162722-02A	Plastic 60ml unpreserved	A	7	7	5.7	Y	Absent		PH-9040(1)
L2162722-02B	Plastic 120ml unpreserved	A	7	7	5.7	Y	Absent		PH-9040(1)
L2162722-02C	Plastic 120ml H2SO4 preserved	A	<2	<2	5.7	Y	Absent		TPHOS-4500(28),COD-410(28)
L2162722-02D	Plastic 250ml H2SO4 preserved	A	<2	<2	5.7	Y	Absent		TPHOS-4500(28),COD-410(28)
L2162722-02E	Plastic 950ml unpreserved	A	7	7	5.7	Y	Absent		TSS-2540(7)
L2162722-03A	Plastic 60ml unpreserved	A	7	7	5.7	Y	Absent		PH-9040(1)
L2162722-03B	Plastic 120ml unpreserved	A	7	7	5.7	Y	Absent		PH-9040(1)
L2162722-03C	Plastic 120ml H2SO4 preserved	A	<2	<2	5.7	Y	Absent		COD-410(28),TPHOS-4500(28)
L2162722-03D	Plastic 250ml H2SO4 preserved	A	<2	<2	5.7	Y	Absent		COD-410(28),TPHOS-4500(28)
L2162722-03E	Plastic 950ml unpreserved	A	7	7	5.7	Y	Absent		TSS-2540(7)

Project Name: MATEP
Project Number: S460-007.01

Lab Number: L2162722
Report Date: 11/30/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: MATEP
Project Number: S460-007.01

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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: MATEP
Project Number: S460-007.01

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Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: MATEP
Project Number: S460-007.01

Lab Number: L2162722
Report Date: 11/30/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 2

Project Information

Project Name: MATEP

Project Location: Boston, MA

Project #: S460-007.01

Project Manager: Roger Gosciminski

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: ESS Group, Inc.

Address: 10 Hemingway Drive, 2nd Floor

East Providence, RI 02915

Phone: (401) 330-1232

Fax:

Email: rgosciminski@essgroup.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Please report e. coli in MPN/100 mL.

Date Rec'd in Lab: 11/15/21

ALPHA Job #: L2162722

Report Information Data Deliverables Billing Information

FAX EMAIL
 ADEx Add'l Deliverables

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

PH	TSS	COD	PAH	Turbidity	Total Phosphorus	E. Coli 9213D	Other Parameters												
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
62722-01	Outfall 001	11/12/21	1530	SW	ME
-02	Outfall 003	↓	1520	SW	↓
-03	Outfall 004	↓	1500	SW	↓

Container Type	P	P	P	A	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By: <i>[Signature]</i>	Date/Time: 11/15/21 1335	Received By: <i>[Signature]</i>	Date/Time: 11/15/21 1222
<i>[Signature]</i>	11/15/21 1910	<i>[Signature]</i>	11/15/21 1910

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms

FORM NO. 01-01 (1-01)
 rev. 5-08-12

Appendix I

Description of Reportable Quantity (RQ) Releases



Description of Reportable Quantity (RQ) Releases

The facility must document all significant spills and leaks of oil or toxic or hazardous pollutants that actually occurred at exposed areas, or that drained to a stormwater conveyance, in the three (3) years prior to the date of preparation or amendment of the SWPP Plan.

Significant spills and leaks include, but are not limited to, releases of oil or hazardous substances in excess of quantities that are reportable under CWA Section 311 (see 40 CFR 110.6 and 40 CFR 117.21) or Section 102 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 USC § 9602.

This permit does not relieve the facility of the reporting requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 relating to spills or other releases of oils or hazardous substances.

**Medical Area Total Energy Plant
474 Brookline Ave, Boston, MA**

Verbal Notification Record

Mass DEP **Within 2 hours of Release**
 (888) 304 - 1133

NRC **Within 24 hours of Release**
 (800) 424 - 8802

Other Agencies Notified:

Notification Criteria:

Facility and Contact Information

Reporter Name and Phone Number:

Reporter Title:

Facility Contact Name and Phone Number:

Facility Contact Title:

Owner Name:

Owner Phone Number:

Spill Information

Date and Time:

Weather Conditions:

Location:

Source:

Name of Substance:

Volume:

Description of Incident and Release:

Immediate Response Actions

Comments/Response from Authorities

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--	--

**Medical Area Total Energy Plant
474 Brookline Ave, Boston, MA**

Spill Report

Facility and Contact Information

Facility Contact Name and Phone Number: Facility Contact Title:

Owner Name: Owner Phone Number:

Spill Information

Date and Time: Weather Conditions:

Location: Source:

Name of Substance: Volume:

Description of Incident and Release:

Immediate Response Actions and Procedure

Parties Notified

Comments/Response from Authorities

Revisions to Stormwater Pollution Prevention Program

Report Prepared By:

PPT Leader Signature:

**Medical Area Total Energy Plant
474 Brookline Ave, Boston, MA**

Spill Report

Additional Notes:

Appendix J

Discharge Monitoring Reports



DMR Copy of Record

Permit	
Permit #: MAR053504	Permittee: MATEP, LLC
Major: No	Permittee Address: 474 Brookline Avenue Boston, MA 02215
Facility: MEDICAL AREA TOTAL ENERGY PLANT	Facility Location: 474 BROOKLINE AVENUE BOSTON, MA 02215
Permitted Feature: 001 External Outfall	Discharge: 001-O1 Steam Electric Generating Facilities: Indicator Monitoring (ph,TSS,COD)

Report Dates & Status

Monitoring Period: From 07/01/21 to 09/30/21	DMR Due Date: 11/30/21	Status: NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name: Michael	Title: Plant Manager	Telephone: 617-598-2352
Last Name: Buckman		

No Data Indicator (NODI)

Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading			Quality or Concentration			# of Ex.	Frequency of Analysis	Sample Type						
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1				Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units
00400	pH	1 - Effluent Gross	0	--	Sample												01/90 - Quarterly	GR - GRAB		
					Permit Req.														01/90 - Quarterly	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample												01/90 - Quarterly	GR - GRAB		
					Permit Req.														01/90 - Quarterly	GR - GRAB
					Value NODI															
81017	Chemical Oxygen Demand [COD]	1 - Effluent Gross	0	--	Sample												01/90 - Quarterly	GR - GRAB		
					Permit Req.														01/90 - Quarterly	GR - GRAB
					Value NODI															

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

MATEP, LLC

User: rgosciminski
 Name: Roger Gosciminski
 E-Mail: rgosciminski@essgroup.com
 Date/Time: 2021-09-07 16:21 (Time Zone: -04:00)

Report Last Signed By

User: UM9314N47H
 Name: Michael Buckman
 E-Mail: michael.buckman@na.engie.com
 Date/Time: 2021-09-10 11:52 (Time Zone: -04:00)

DMR Copy of Record

Permit					
Permit #:	MAR053504	Permittee:	MATEP, LLC	Facility:	MEDICAL AREA TOTAL ENERGY PLANT
Major:	No	Permittee Address:	474 Brookline Avenue Boston, MA 02215	Facility Location:	474 BROOKLINE AVENUE BOSTON, MA 02215
Permitted Feature:	001 External Outfall	Discharge:	001-PX Indicator Monitoring for PAHs		

Report Dates & Status					
Monitoring Period:	From 07/01/21 to 12/31/21	DMR Due Date:	02/28/22	Status:	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer					
First Name:	Michael	Title:	Plant Manager	Telephone:	617-598-2352
Last Name:	Buckman				

No Data Indicator (NODI)
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration				# of Ex.	Frequency of Analysis	Sample Type	
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2				Qualifier 3
34200	Acenaphthylene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34205	Acenaphthene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34220	Anthracene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34230	Benzo[b]fluoranthene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34242	Benzo[k]fluoranthene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34247	Benzo[a]pyrene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34320	Chrysene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34376	Fluoranthene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34381	Fluorene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34403	Indeno[1,2,3-cd]pyrene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34461	Phenanthrene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34469	Pyrene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34521	Benzo[ghi]perylene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												

34526	Benzo[a]anthracene	1 - Effluent Gross	0	--	Sample												<	0.1	28 - ug/L	02/YR - Twice Per Year	GR - GRAB					
					Permit Req.																Req Mon MAXIMUM	28 - ug/L	02/YR - Twice Per Year	GR - GRAB		
					Value NODI																					
34556	Dibenz[a,h]anthracene	1 - Effluent Gross	0	--	Sample														0.1	28 - ug/L	02/YR - Twice Per Year	GR - GRAB				
					Permit Req.																	Req Mon MAXIMUM	28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Value NODI																					
34696	Naphthalene	1 - Effluent Gross	0	--	Sample															0.1	28 - ug/L	02/YR - Twice Per Year	GR - GRAB			
					Permit Req.																		Req Mon MAXIMUM	28 - ug/L	02/YR - Twice Per Year	GR - GRAB
					Value NODI																					

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

MATEP, LLC

User: rgosciminski
 Name: Roger Gosciminski
 E-Mail: rgosciminski@essgroup.com
 Date/Time: 2021-09-07 15:25 (Time Zone: -04:00)

Report Last Signed By

User: UM9314N47H
 Name: Michael Buckman
 E-Mail: michael.buckman@na.engie.com
 Date/Time: 2021-09-10 11:52 (Time Zone: -04:00)

DMR Copy of Record

Permit

Permit #:	MAR053504	Permittee:	MATEP, LLC	Facility:	MEDICAL AREA TOTAL ENERGY PLANT
Major:	No	Permittee Address:	474 Brookline Avenue Boston, MA 02215	Facility Location:	474 BROOKLINE AVENUE BOSTON, MA 02215
Permitted Feature:	003 External Outfall	Discharge:	003-O1 Steam Electric Generating Facilities: Indicator Monitoring (ph,TSS,COD)		

Report Dates & Status

Monitoring Period:	From 07/01/21 to 09/30/21	DMR Due Date:	11/30/21	Status:	NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name:	Michael	Title:	Plant Manager	Telephone:	617-598-2352
Last Name:	Buckman				

No Data Indicator (NODI)

Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type	
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3
00400	pH	1 - Effluent Gross	0	--	Sample					=	9.2				=	9.2	12 - SU	01/90 - Quarterly	GR - GRAB
					Permit Req.					Req Mon MINIMUM				Req Mon MAXIMUM	12 - SU	01/90 - Quarterly	GR - GRAB		
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample									=	31.0	19 - mg/L	01/90 - Quarterly	GR - GRAB	
					Permit Req.									Req Mon MAXIMUM	19 - mg/L	01/90 - Quarterly	GR - GRAB		
					Value NODI														
81017	Chemical Oxygen Demand [COD]	1 - Effluent Gross	0	--	Sample									=	110.0	19 - mg/L	01/90 - Quarterly	GR - GRAB	
					Permit Req.									Req Mon MAXIMUM	19 - mg/L	01/90 - Quarterly	GR - GRAB		
					Value NODI														

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

MATEP, LLC

User: rgosciminski
 Name: Roger Gosciminski
 E-Mail: rgosciminski@essgroup.com
 Date/Time: 2021-09-07 16:23 (Time Zone: -04:00)

Report Last Signed By

User: UM9314N47H
 Name: Michael Buckman
 E-Mail: michael.buckman@na.engie.com
 Date/Time: 2021-09-10 11:52 (Time Zone: -04:00)

DMR Copy of Record

Permit					
Permit #:	MAR053504	Permittee:	MATEP, LLC	Facility:	MEDICAL AREA TOTAL ENERGY PLANT
Major:	No	Permittee Address:	474 Brookline Avenue Boston, MA 02215	Facility Location:	474 BROOKLINE AVENUE BOSTON, MA 02215
Permitted Feature:	003 External Outfall	Discharge:	003-PX Indicator Monitoring for PAHs		

Report Dates & Status					
Monitoring Period:	From 07/01/21 to 12/31/21	DMR Due Date:	02/28/22	Status:	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer					
First Name:	Michael	Title:	Plant Manager	Telephone:	617-598-2352
Last Name:	Buckman				

No Data Indicator (NODI)
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration				# of Ex.	Frequency of Analysis	Sample Type	
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2				Qualifier 3
34200	Acenaphthylene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34205	Acenaphthene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34220	Anthracene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34230	Benzo[b]fluoranthene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34242	Benzo[k]fluoranthene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34247	Benzo[a]pyrene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34320	Chrysene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34376	Fluoranthene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34381	Fluorene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34403	Indeno[1,2,3-cd]pyrene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34461	Phenanthrene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34469	Pyrene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34521	Benzo[ghi]perylene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												

34526	Benzo[a]anthracene	1 - Effluent Gross	0	--	Sample													<	0.1	28 - ug/L	02/YR - Twice Per Year	GR - GRAB				
					Permit Req.																	Req Mon MAXIMUM	28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Value NODI																					
34556	Dibenz[a,h]anthracene	1 - Effluent Gross	0	--	Sample															<	0.1	28 - ug/L	02/YR - Twice Per Year	GR - GRAB		
					Permit Req.																		Req Mon MAXIMUM	28 - ug/L	02/YR - Twice Per Year	GR - GRAB
					Value NODI																					
34696	Naphthalene	1 - Effluent Gross	0	--	Sample															<	0.1	28 - ug/L	02/YR - Twice Per Year	GR - GRAB		
					Permit Req.																		Req Mon MAXIMUM	28 - ug/L	02/YR - Twice Per Year	GR - GRAB
					Value NODI																					

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

MATEP, LLC

User: rgosciminski
 Name: Roger Gosciminski
 E-Mail: rgosciminski@essgroup.com
 Date/Time: 2021-09-07 15:24 (Time Zone: -04:00)

Report Last Signed By

User: UM9314N47H
 Name: Michael Buckman
 E-Mail: michael.buckman@na.engie.com
 Date/Time: 2021-09-10 11:52 (Time Zone: -04:00)

DMR Copy of Record

Permit		Permittee:		Facility:	
Permit #:	MAR053504	MATEP, LLC		MEDICAL AREA TOTAL ENERGY PLANT	
Major:	No	Permittee Address:	474 Brookline Avenue Boston, MA 02215	Facility Location:	474 BROOKLINE AVENUE BOSTON, MA 02215
Permitted Feature:	004 External Outfall	Discharge:	004-O1 Steam Electric Generating Facilities: Indicator Monitoring (ph,TSS,COD)		

Report Dates & Status

Monitoring Period:	From 07/01/21 to 09/30/21	DMR Due Date:	11/30/21	Status:	NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name:	Michael	Title:	Plant Manager	Telephone:	617-598-2352
Last Name:	Buckman				

No Data Indicator (NODI)

Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units
00400	pH	1 - Effluent Gross	0	--	Sample					=	8.2				=	8.2	12 - SU	01/90 - Quarterly	GR - GRAB
					Permit Req.					Req Mon MINIMUM				Req Mon MAXIMUM	12 - SU	01/90 - Quarterly	GR - GRAB		
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample					=					28.0	19 - mg/L	01/90 - Quarterly	GR - GRAB	
					Permit Req.									Req Mon MAXIMUM	19 - mg/L	01/90 - Quarterly	GR - GRAB		
					Value NODI														
81017	Chemical Oxygen Demand [COD]	1 - Effluent Gross	0	--	Sample					=					45.0	19 - mg/L	01/90 - Quarterly	GR - GRAB	
					Permit Req.									Req Mon MAXIMUM	19 - mg/L	01/90 - Quarterly	GR - GRAB		
					Value NODI														

Submission Note

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

Edit Check Errors

No errors.

Comments

Since the DMRs for the 2015 MSGP were no longer available to report analytical data for the monitoring period of 04/01/21 to 06/30/21, the data will be reported on this DMR. For this monitoring period, a sample for total iron was collected for Outfall 004. The analytical result for total iron was 0.223 mg/L.

Attachments

No attachments.

Report Last Saved By

MATEP, LLC

User: rgosciminski
 Name: Roger Gosciminski
 E-Mail: rgosciminski@essgroup.com
 Date/Time: 2021-09-07 16:31 (Time Zone: -04:00)

Report Last Signed By

User: UM9314N47H
 Name: Michael Buckman
 E-Mail: michael.buckman@na.engie.com
 Date/Time: 2021-09-10 11:52 (Time Zone: -04:00)

DMR Copy of Record

Permit					
Permit #:	MAR053504	Permittee:	MATEP, LLC	Facility:	MEDICAL AREA TOTAL ENERGY PLANT
Major:	No	Permittee Address:	474 Brookline Avenue Boston, MA 02215	Facility Location:	474 BROOKLINE AVENUE BOSTON, MA 02215
Permitted Feature:	004 External Outfall	Discharge:	004-PX Indicator Monitoring for PAHs		

Report Dates & Status					
Monitoring Period:	From 07/01/21 to 12/31/21	DMR Due Date:	02/28/22	Status:	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer					
First Name:	Michael	Title:	Plant Manager	Telephone:	617-598-2352
Last Name:	Buckman				

No Data Indicator (NODI)
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration				# of Ex.	Frequency of Analysis	Sample Type	
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2				Qualifier 3
34200	Acenaphthylene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34205	Acenaphthene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34220	Anthracene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34230	Benzo[b]fluoranthene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34242	Benzo[k]fluoranthene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34247	Benzo[a]pyrene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34320	Chrysene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34376	Fluoranthene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34381	Fluorene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34403	Indeno[1,2,3-cd]pyrene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34461	Phenanthrene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34469	Pyrene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												
34521	Benzo[ghi]perylene	1 - Effluent Gross	0	--	Sample						<	0.1		28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.						Req Mon MAXIMUM	28 - ug/L		02/YR - Twice Per Year			GR - GRAB
					Value NODI												

34526	Benzo[a]anthracene	1 - Effluent Gross	0	--	Sample												<	0.1	28 - ug/L	02/YR - Twice Per Year	GR - GRAB				
					Permit Req.																Req Mon MAXIMUM	28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Value NODI																				
34556	Dibenz[a,h]anthracene	1 - Effluent Gross	0	--	Sample													<	0.1	28 - ug/L	02/YR - Twice Per Year	GR - GRAB			
					Permit Req.																Req Mon MAXIMUM	28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Value NODI																				
34696	Naphthalene	1 - Effluent Gross	0	--	Sample														<	0.1	28 - ug/L	02/YR - Twice Per Year	GR - GRAB		
					Permit Req.																	Req Mon MAXIMUM	28 - ug/L	02/YR - Twice Per Year	GR - GRAB
					Value NODI																				

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

MATEP, LLC

User: rgosciminski
 Name: Roger Gosciminski
 E-Mail: rgosciminski@essgroup.com
 Date/Time: 2021-09-07 15:38 (Time Zone: -04:00)

Report Last Signed By

User: UM9314N47H
 Name: Michael Buckman
 E-Mail: michael.buckman@na.engie.com
 Date/Time: 2021-09-10 11:52 (Time Zone: -04:00)

DMR Copy of Record

Permit																			
Permit #:	MAR053504			Permittee:	MATEP, LLC					Facility:	MEDICAL AREA TOTAL ENERGY PLANT								
Major:	No			Permittee Address:	474 Brookline Avenue Boston, MA 02215					Facility Location:	474 BROOKLINE AVENUE BOSTON, MA 02215								
Permitted Feature:	001 External Outfall			Discharge:	001-O1 Steam Electric Generating Facilities: Indicator Monitoring (ph,TSS,COD)														
Report Dates & Status																			
Monitoring Period:	From 10/01/21 to 12/31/21			DMR Due Date:	02/28/22					Status:	NetDMR Validated								
Considerations for Form Completion																			
Principal Executive Officer																			
First Name:	Michael			Title:	Plant Manager					Telephone:	617-598-2352								
Last Name:	Buckman																		
No Data Indicator (NODI)																			
Form NODI:	--																		
Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00400	pH	1 - Effluent Gross	0	--	Sample				=	6.7				=	6.7	12 - SU		01/90 - Quarterly	GR - GRAB
					Permit Req.					Req Mon MINIMUM					Req Mon MAXIMUM	12 - SU		01/90 - Quarterly	GR - GRAB
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample									=	16.0	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Permit Req.										Req Mon MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI														
81017	Chemical Oxygen Demand [COD]	1 - Effluent Gross	0	--	Sample									=	71.0	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Permit Req.										Req Mon MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI														
Submission Note																			
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																			
Edit Check Errors																			
No errors.																			
Comments																			
Attachments																			
No attachments.																			
Report Last Saved By																			
MATEP, LLC																			
User:	rgosciminski																		
Name:	Roger Gosciminski																		
E-Mail:	rgosciminski@essgroup.com																		
Date/Time:	2021-12-03 09:26 (Time Zone: -05:00)																		
Report Last Signed By																			
User:	UM9314N47H																		
Name:	Michael Buckman																		
E-Mail:	michael.buckman@na.engie.com																		
Date/Time:	2021-12-06 08:38 (Time Zone: -05:00)																		

DMR Copy of Record

Permit					
Permit #:	MAR053504	Permittee:	MATEP, LLC	Facility:	MEDICAL AREA TOTAL ENERGY PLANT
Major:	No	Permittee Address:	474 Brookline Avenue Boston, MA 02215	Facility Location:	474 BROOKLINE AVENUE BOSTON, MA 02215
Permitted Feature:	001 External Outfall	Discharge:	001-IW Impaired Water		

Report Dates & Status					
Monitoring Period:	From 07/01/21 to 06/30/22	DMR Due Date:	08/31/22	Status:	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer					
First Name:	Michael	Title:	Plant Manager	Telephone:	617-598-2352
Last Name:	Buckman				

No Data Indicator (NODI)
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Sample	Quantity or Loading				Quality or Concentration			# of Ex.	Frequency of Analysis	Sample Type				
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1				Qualifier 2	Value 2	Qualifier 3	Value 3
00070	Turbidity	1 - Effluent Gross	0	--	Sample								=	12.0	43 - NTU	01/YR - Annual	GR - GRAB		
					Permit Req.													Req Mon MAXIMUM	43 - NTU
					Value NODI														
00085	Odor [Threshold Number]	1 - Effluent Gross	0	--	Sample											01/YR - Annual	GR - GRAB		
					Permit Req.													Req Mon MAXIMUM	31 - threshold #
					Value NODI													A - General Permit Exemption	
00301	Oxygen, dissolved percent saturation	1 - Effluent Gross	0	--	Sample											01/YR - Annual	GR - GRAB		
					Permit Req.													Req Mon MAXIMUM	23 - %
					Value NODI													A - General Permit Exemption	
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample											01/YR - Annual	GR - GRAB		
					Permit Req.													Req Mon MAXIMUM	19 - mg/L
					Value NODI													A - General Permit Exemption	
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample								=	0.205	19 - mg/L	01/YR - Annual	GR - GRAB		
					Permit Req.													Req Mon MAXIMUM	19 - mg/L
					Value NODI														
39370	DDT	1 - Effluent Gross	0	--	Sample											01/YR - Annual	GR - GRAB		
					Permit Req.													Req Mon MAXIMUM	19 - mg/L
					Value NODI													A - General Permit Exemption	
39516	Polychlorinated biphenyls [PCBs]	1 - Effluent Gross	0	--	Sample											01/YR - Annual	GR - GRAB		
					Permit Req.													Req Mon MAXIMUM	19 - mg/L
					Value NODI													A - General Permit Exemption	
X 51040	E. coli	1 - Effluent Gross	0	--	Sample								=	78.0	3Z - CFU/100mL	01/YR - Annual	GR - GRAB		
					Permit Req.													Req Mon MAXIMUM	30 - MPN/100mL
					Value NODI														

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

Edit Check Errors

Parameter Code	Name	Monitoring Location	Field	Type	Description	Acknowledge
51040	E. coli	1 - Effluent Gross	Units	Soft	You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units.	Yes

Comments
MSGP annual impaired water monitoring. Samples have not been collected or analyzed for odor, oxygen, oil & grease, DDT or PCBs, which are listed above as parameters, in accordance with guidance provided by the USEPA entitled "U.S. EPA 2008 MSGP Guidance for Discharges into Impaired Waters (Part 6.2.4) - Parameters and Methods for Operators Discharging into Massachusetts Waters that File an NOI on/after 5/4/2010." The analytical laboratory does not offer e-coli by MPN/100mL. Therefore, CFU/100mL was selected.

Attachments
No attachments.

Report Last Saved By

MATEP, LLC

User: rgosciminski
Name: Roger Gosciminski
E-Mail: rgosciminski@essgroup.com
Date/Time: 2021-12-03 09:36 (Time Zone: -05:00)

Report Last Signed By

User: UM9314N47H
Name: Michael Buckman
E-Mail: michael.buckman@na.engie.com
Date/Time: 2021-12-06 08:38 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:	MAR053504	Permittee:	MATEP, LLC	Facility:	MEDICAL AREA TOTAL ENERGY PLANT
Major:	No	Permittee Address:	474 Brookline Avenue Boston, MA 02215	Facility Location:	474 BROOKLINE AVENUE BOSTON, MA 02215
Permitted Feature:	003 External Outfall	Discharge:	003-O1 Steam Electric Generating Facilities: Indicator Monitoring (ph,TSS,COD)		

Report Dates & Status

Monitoring Period:	From 10/01/21 to 12/31/21	DMR Due Date:	02/28/22	Status:	NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name:	Michael	Title:	Plant Manager	Telephone:	617-598-2352
Last Name:	Buckman				

No Data Indicator (NODI)

Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type	
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3
00400	pH	1 - Effluent Gross	0	--	Sample					=	7.4				=	7.4	12 - SU	01/90 - Quarterly	GR - GRAB
					Permit Req.					Req Mon MINIMUM				Req Mon MAXIMUM	12 - SU	01/90 - Quarterly	GR - GRAB		
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample					=					88.0	19 - mg/L	01/90 - Quarterly	GR - GRAB	
					Permit Req.									Req Mon MAXIMUM	19 - mg/L	01/90 - Quarterly	GR - GRAB		
					Value NODI														
81017	Chemical Oxygen Demand [COD]	1 - Effluent Gross	0	--	Sample					=					60.0	19 - mg/L	01/90 - Quarterly	GR - GRAB	
					Permit Req.									Req Mon MAXIMUM	19 - mg/L	01/90 - Quarterly	GR - GRAB		
					Value NODI														

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

MATEP, LLC

User: rgosciminski
 Name: Roger Gosciminski
 E-Mail: rgosciminski@essgroup.com
 Date/Time: 2021-12-03 09:29 (Time Zone: -05:00)

Report Last Signed By

User: UM9314N47H
 Name: Michael Buckman
 E-Mail: michael.buckman@na.engie.com
 Date/Time: 2021-12-06 08:38 (Time Zone: -05:00)

DMR Copy of Record

Permit					
Permit #:	MAR053504	Permittee:	MATEP, LLC	Facility:	MEDICAL AREA TOTAL ENERGY PLANT
Major:	No	Permittee Address:	474 Brookline Avenue Boston, MA 02215	Facility Location:	474 BROOKLINE AVENUE BOSTON, MA 02215
Permitted Feature:	003 External Outfall	Discharge:	003-IW Impaired Water		

Report Dates & Status					
Monitoring Period:	From 07/01/21 to 06/30/22	DMR Due Date:	08/31/22	Status:	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer					
First Name:	Michael	Title:	Plant Manager	Telephone:	617-598-2352
Last Name:	Buckman				

No Data Indicator (NODI)
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration			# of Ex.	Frequency of Analysis	Sample Type			
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2				Value 2	Qualifier 3	Value 3
00070	Turbidity	1 - Effluent Gross	0	--	Sample								=	7.8	43 - NTU	01/YR - Annual	GR - GRAB	
					Permit Req.										Req Mon MAXIMUM	43 - NTU	01/YR - Annual	GR - GRAB
					Value NODI													
00085	Odor [Threshold Number]	1 - Effluent Gross	0	--	Sample											01/YR - Annual	GR - GRAB	
					Permit Req.										Req Mon MAXIMUM	31 - threshold #		
					Value NODI										A - General Permit Exemption			
00301	Oxygen, dissolved percent saturation	1 - Effluent Gross	0	--	Sample											01/YR - Annual	GR - GRAB	
					Permit Req.										Req Mon MAXIMUM	23 - %		
					Value NODI										A - General Permit Exemption			
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample											01/YR - Annual	GR - GRAB	
					Permit Req.										Req Mon MAXIMUM	19 - mg/L		
					Value NODI										A - General Permit Exemption			
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample								=	0.658	19 - mg/L	01/YR - Annual	GR - GRAB	
					Permit Req.										Req Mon MAXIMUM	19 - mg/L	01/YR - Annual	GR - GRAB
					Value NODI													
39370	DDT	1 - Effluent Gross	0	--	Sample											01/YR - Annual	GR - GRAB	
					Permit Req.										Req Mon MAXIMUM	19 - mg/L		
					Value NODI										A - General Permit Exemption			
39516	Polychlorinated biphenyls [PCBs]	1 - Effluent Gross	0	--	Sample											01/YR - Annual	GR - GRAB	
					Permit Req.										Req Mon MAXIMUM	19 - mg/L		
					Value NODI										A - General Permit Exemption			
X 51040	E. coli	1 - Effluent Gross	0	--	Sample								=	68.0	3Z - CFU/100mL	01/YR - Annual	GR - GRAB	
					Permit Req.										Req Mon MAXIMUM	30 - MPN/100mL	01/YR - Annual	GR - GRAB
					Value NODI													

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

Edit Check Errors

Parameter Code	Name	Monitoring Location	Field	Type	Description	Acknowledge
51040	E. coli	1 - Effluent Gross	Units	Soft	You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units.	Yes

Comments
MSGP annual impaired water monitoring. Samples have not been collected or analyzed for odor, oxygen, oil & grease, DDT or PCBs, which are listed above as parameters, in accordance with guidance provided by the USEPA entitled "U.S. EPA 2008 MSGP Guidance for Discharges into Impaired Waters (Part 6.2.4) - Parameters and Methods for Operators Discharging into Massachusetts Waters that File an NOI on/after 5/4/2010." The analytical laboratory does not offer e-coli by MPN/100mL. Therefore, CFU/100mL was selected.

Attachments
No attachments.
Report Last Saved By

MATEP, LLC

User: rgosciminski
Name: Roger Gosciminski
E-Mail: rgosciminski@essgroup.com
Date/Time: 2021-12-03 09:38 (Time Zone: -05:00)

Report Last Signed By

User: UM9314N47H
Name: Michael Buckman
E-Mail: michael.buckman@na.engie.com
Date/Time: 2021-12-06 08:38 (Time Zone: -05:00)

DMR Copy of Record

Permit					
Permit #:	MAR053504	Permittee:	MATEP, LLC	Facility:	MEDICAL AREA TOTAL ENERGY PLANT
Major:	No	Permittee Address:	474 Brookline Avenue Boston, MA 02215	Facility Location:	474 BROOKLINE AVENUE BOSTON, MA 02215
Permitted Feature:	004 External Outfall	Discharge:	004-O1 Steam Electric Generating Facilities: Indicator Monitoring (ph,TSS,COD)		

Report Dates & Status

Monitoring Period:	From 10/01/21 to 12/31/21	DMR Due Date:	02/28/22	Status:	NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name:	Michael	Title:	Plant Manager	Telephone:	617-598-2352
Last Name:	Buckman				

No Data Indicator (NODI)

Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type	
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3
00400	pH	1 - Effluent Gross	0	--	Sample					=	7.2				=	7.2	12 - SU	01/90 - Quarterly	GR - GRAB
					Permit Req.					Req Mon MINIMUM				Req Mon MAXIMUM	12 - SU	01/90 - Quarterly	GR - GRAB		
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample										=	22.0	19 - mg/L	01/90 - Quarterly	GR - GRAB
					Permit Req.									Req Mon MAXIMUM	19 - mg/L	01/90 - Quarterly	GR - GRAB		
					Value NODI														
81017	Chemical Oxygen Demand [COD]	1 - Effluent Gross	0	--	Sample										<	20.0	19 - mg/L	01/90 - Quarterly	GR - GRAB
					Permit Req.									Req Mon MAXIMUM	19 - mg/L	01/90 - Quarterly	GR - GRAB		
					Value NODI														

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

MATEP, LLC

User: rgosciminski
 Name: Roger Gosciminski
 E-Mail: rgosciminski@essgroup.com
 Date/Time: 2021-12-03 09:31 (Time Zone: -05:00)

Report Last Signed By

User: UM9314N47H
 Name: Michael Buckman
 E-Mail: michael.buckman@na.engie.com
 Date/Time: 2021-12-06 08:38 (Time Zone: -05:00)

DMR Copy of Record

Permit					
Permit #:	MAR053504	Permittee:	MATEP, LLC	Facility:	MEDICAL AREA TOTAL ENERGY PLANT
Major:	No	Permittee Address:	474 Brookline Avenue Boston, MA 02215	Facility Location:	474 BROOKLINE AVENUE BOSTON, MA 02215
Permitted Feature:	004 External Outfall	Discharge:	004-IW Impaired Water		

Report Dates & Status					
Monitoring Period:	From 07/01/21 to 06/30/22	DMR Due Date:	08/31/22	Status:	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer					
First Name:	Michael	Title:	Plant Manager	Telephone:	617-598-2352
Last Name:	Buckman				

No Data Indicator (NODI)
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Sample Permit Req.	Quantity or Loading				Quality or Concentration			# of Ex.	Frequency of Analysis	Sample Type			
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1				Qualifier 2	Value 2	Qualifier 3
00070	Turbidity	1 - Effluent Gross	0	--	Sample									=	13.0	43 - NTU	01/YR - Annual	GR - GRAB
					Permit Req.										Req Mon MAXIMUM	43 - NTU	01/YR - Annual	GR - GRAB
					Value NODI													
00085	Odor [Threshold Number]	1 - Effluent Gross	0	--	Sample										Req Mon MAXIMUM	31 - threshold #	01/YR - Annual	GR - GRAB
					Permit Req.										A - General Permit Exemption			
					Value NODI													
00301	Oxygen, dissolved percent saturation	1 - Effluent Gross	0	--	Sample										Req Mon MAXIMUM	23 - %	01/YR - Annual	GR - GRAB
					Permit Req.										A - General Permit Exemption			
					Value NODI													
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample										Req Mon MAXIMUM	19 - mg/L	01/YR - Annual	GR - GRAB
					Permit Req.										A - General Permit Exemption			
					Value NODI													
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample									=	0.184	19 - mg/L	01/YR - Annual	GR - GRAB
					Permit Req.										Req Mon MAXIMUM	19 - mg/L	01/YR - Annual	GR - GRAB
					Value NODI													
39370	DDT	1 - Effluent Gross	0	--	Sample										Req Mon MAXIMUM	19 - mg/L	01/YR - Annual	GR - GRAB
					Permit Req.										A - General Permit Exemption			
					Value NODI													
39516	Polychlorinated biphenyls [PCBs]	1 - Effluent Gross	0	--	Sample										Req Mon MAXIMUM	19 - mg/L	01/YR - Annual	GR - GRAB
					Permit Req.										A - General Permit Exemption			
					Value NODI													
X 51040	E. coli	1 - Effluent Gross	0	--	Sample									=	21000.0	3Z - CFU/100mL	01/YR - Annual	GR - GRAB
					Permit Req.										Req Mon MAXIMUM	30 - MPN/100mL	01/YR - Annual	GR - GRAB
					Value NODI													

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

Edit Check Errors

Parameter Code	Name	Monitoring Location	Field	Type	Description	Acknowledge
51040	E. coli	1 - Effluent Gross	Units	Soft	You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units.	Yes

Comments
MSGP annual impaired water monitoring. Samples have not been collected or analyzed for odor, oxygen, oil & grease, DDT or PCBs, which are listed above as parameters, in accordance with guidance provided by the USEPA entitled "U.S. EPA 2008 MSGP Guidance for Discharges into Impaired Waters (Part 6.2.4) - Parameters and Methods for Operators Discharging into Massachusetts Waters that File an NOI on/after 5/4/2010." The analytical laboratory does not offer e-coli by MPN/100mL. Therefore, CFU/100mL was selected.

Attachments
No attachments.

Report Last Saved By

MATEP, LLC

User: rgosciminski
Name: Roger Gosciminski
E-Mail: rgosciminski@essgroup.com
Date/Time: 2021-12-03 09:45 (Time Zone: -05:00)

Report Last Signed By

User: UM9314N47H
Name: Michael Buckman
E-Mail: michael.buckman@na.engie.com
Date/Time: 2021-12-06 08:38 (Time Zone: -05:00)

Appendix K

Training Records





MATEP Facility Training Log

Date: 5-23-21

Time: 2100

Topic: **Stormwater Pollution Prevention Training (May/June 2021)**

Supervisor / Trainer: Peter Gluckler, MATEP

Print Name	Signature
Kevin Kelly	
Kevin Warner	
Eugene Signori	
Ken Boutin	
Chris O'Brien	
Jim O'Han	
Zachary Margardo	



MATEP Facility Training Log

Date: 5/25/21

Time: 18¹⁵

Topic: **Stormwater Pollution Prevention Training (May/June 2021)**

Supervisor / Trainer: Peter Gluckler, MATEP

Print Name	Signature
Joel Flaherty	Joel Flaherty
Matt Greig	Matt Greig
ROBERT ATKINSON	Robert Atkinson
Michael Tylesia	Michael Tylesia
Leo Boucher Jr	Leo Boucher Jr
Behnam Tirandazi	Behnam Tirandazi
Mark W. Houser	Mark W. Houser
Garret Watkins	Garret Watkins
Michael A McCormick	Michael A McCormick
TIMOTHY CLARK	Timothy Clark
Richard Chagnon	Richard Chagnon



MATEP Facility Training Log

Date: 26 MAY 21

Time: 9:30 AM

Topic: **Oil SPCC Training (May/June 2021)**

Supervisor / Trainer: Peter Gluckler, MATEP

Print Name	Signature
<u>TOM BRESNAHAN</u>	
<u>Michael Upham</u>	
<u>Tom Gately</u>	
<u>Jon Little</u>	
<u>JOE DRONGIO</u>	
<u>NEIL McLaughlin</u>	
<u>Brian Kanuse</u>	
<u>Jim Shedd</u>	
<u>Jacob Brennan</u>	
<u>THOMAS HUWTEE</u>	



MATEP Facility Training Log

Date: 5/27/21

Time: 9:30 AM

Topic: **Stormwater Pollution Prevention Training (May/June 2021)**

Supervisor / Trainer: Peter Gluckler, MATEP

Print Name	Signature
Paul Terrio	
Richard Kosers	
Dominic Stevens	
Paul Adams	
Ken Ohlund	
John Maher	
Bob LeBoeuf	
Tyler Burge	
Steven Devane	
SEAN P. McARTHUR	
EDWARD M. LYNCH	
Peter Amado	



MATEP Facility Training Log

Date: 5/28/21

Time: 9:30 AM

Topic: **Stormwater Pollution Prevention Training (May/June 2021)**

Supervisor / Trainer: Peter Gluckler, MATEP

Print Name	Signature
DAVID HILLIER	
MATT MARCHANT	
Tim Foley	
RYAN NOONAN	
RICK CATINO	
John Mahoney	
William Donahue	



MATEP Facility Training Log

Date: 6/1/21

Time: 9:30 AM

Topic: **Stormwater Pollution Prevention Training (May/June 2021)**

Supervisor / Trainer: Peter Gluckler, MATEP

Print Name	Signature
Fred Petrillo	
Steven Densmore	
Mike Burke	
Ed Dumas	
Craig Coggin	
STEVEN REID	
Terry Lacuzio	
Jeff Ghilardi	



MATEP Facility Training Log

Date: _____

Time: _____

Topic: **Stormwater Pollution Prevention Training (May/June 2021)**

Supervisor / Trainer: Peter Gluckler, MATEP

Print Name	Signature
Michael Buckman	
Edward Graves	
GERARDO ACUNA	
Daniel O'Brien	
Bruce Rose	
Jaime Miranda	
Chico Iglesias	
Andrew Burke	
Paul Huxley	
Rick Phelan	
Robert L St. Sauveur	

Appendix L

Industrial Activity Exposure Documentation



Appendix M

Punch List



Punch List

Contained in this "Punch List" are the additional items that MATEP will incorporate into its pollution prevention system in order to assure that the objectives of the Plan are achieved. Specific actions include:

- Prevent the spread of industrial materials on the rooftop by minimizing steel and non-functioning equipment storage. For those items stored on the roof attempt to contain them in the Exhaust Fan Enclosure area.
- Utilize magnetic/sticky mats over nearby roof drains when conducting maintenance activities on rooftop machinery containing oil or other hazardous materials.

Appendix N

SWPPP Modification Log



**SWPPP Modification Log
MATEP
474 Brookline Avenue
Boston, Massachusetts**

Amendment Number	Description of Revision	Date	Amendment Prepared by	Facility Person approving change
NA	Original Document	March 2009	EBI Consulting, Burlington, MA	John Hanlon
1	The following revisions were completed to the following sections: Added Chemical Loading and Unloading as an industry-specific BMP (Section 1.4.2) Updated pollution prevention team (Section 2.1), industrial activities exposed to stormwater (Section 3.4.2), monitoring locations and substantially identical outfalls (Section 4.2), routine facility inspections (Section 4.3), monitoring and reporting for discharges to impaired waters (Section 4.7)	July 2012	EBI Consulting, Burlington, MA	Patrick Gillooly, General Manager
2	Update entire SWPPP to include 2015 MSGP references	August 2015	ESS Group, Inc., Waltham, MA	Patrick Gillooly, Vice President of Operations
3	Annual review and update documentation in appendices Added text to indicate that routine inspections will be conducted quarterly (Section 1.4.2) Updated text for authorized non-stormwater discharges (Section 3.4.5), non-structural controls (Section 3.6), structural control existing structures (Section 3.7.2), maintenance controls (Section 3.7.4), routine facility inspections (Section 4.3), data not exceeding natural background levels (Section 4.7.9), significant spill history (Section 4.9)	January 2017	ESS Group, Inc., Waltham, MA	Patrick Gillooly, Vice President of Operations
4	Annual review and update documentation in appendices Added text for installation of vent discharge lines in non-structural control, existing controls (Section 3.6.1) Updated text in significant spill history (Section 4.9) Updated Rooftop Draining Plan (Figure 3) to include CTG-3 air intake and exhaust duct work installation and relocation work	January 2018	ESS Group, Inc., Waltham, MA	Patrick Gillooly, Vice President of Operations
5	Annual review and update documentation in appendices	January 2019	ESS Group, Inc., Waltham, MA	Mike Buckman, Plant Manager
6	Annual review and update documentation in appendices Update Pollution Prevention Team contacts	January 2020	Wood MA, Inc., Chelmsford, MA	Mike Buckman, Plant Manager
7	Annual review and update documentation in appendices	January 2021	ESS Group, Inc., Waltham, MA	Mike Buckman, Plant Manager

Amendment Number	Description of Revision	Date	Amendment Prepared by	Facility Person approving change
8	Update entire SWPPP to reference and incorporate the requirements of the 2021 MSGP	March 2021	ESS Group, Inc., Waltham, MA	Mike Buckman, Plant Manager
9	Annual review and update documentation in appendices	January 2022	ESS Group, Inc., Waltham, MA	Scott Manning, Plant Manager