

Stormwater Pollution Prevention Plan

for:

Wastewater Treatment Facility
End of Brook Street
Ayer, MA, 01432
(978) 772-8240

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SECTION 1: FACILITY DESCRIPTION AND CONTACT INFORMATION

1.1 Facility Information.

Facility Information

Facility Name: Wastewater Treatment Facility

Street/Location: End of Brook Street

City: Ayer State: MA ZIP Code: 01432

County or Similar Government Subdivision: Middlesex

NPDES ID (i.e., permit tracking number): MAR053429 (if covered under a previous permit)

Primary Industrial Activity SIC code, and Sector and Subsector (2021 MSGP, Appendix D and Part 8):
TW, Sector T: Treatment Works and T1

Co-located Industrial Activity(s) SIC code(s), Sector(s) and Subsector(s) (2021 MSGP, Appendix D):

Is your facility presently inactive and unstaffed and are there no industrial materials or activities exposed to stormwater? Yes No

Latitude/Longitude

Latitude:
42. 5 6 3 1 ° N (decimal degrees)

Longitude:
7 1. 5 9 3 4 ° W (decimal degrees)

Method for determining latitude/longitude (check one):

Maps (If USGS topographic map used, specify scale: _____) GPS

Other (please specify):

Horizontal Reference Datum (check one):

NAD 27 NAD 83 WGS 84

Is the facility located in Indian country? Yes No

If yes, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable). _____

Are you considered a "federal operator" of the facility?

Federal Operator – an entity that meets the definition of "operator" in [the 2021 MSGP] and is either any department, agency or instrumentality of the executive, legislative, and judicial branches of the Federal government of the United States, or another entity, such as a private contractor, operating for any such department, agency, or instrumentality. Yes No

Estimated area of industrial activity at your facility exposed to stormwater: 3.5
(to the nearest quarter acre)

Discharge Information

Does this facility discharge stormwater into a municipal separate storm sewer system (MS4)?

Yes No

If yes, name of MS4 operator: Not Applicable.

Name(s) of surface water(s) that receive stormwater from your facility: Nonacoicus Brook

Does this facility discharge industrial stormwater directly into any segment of an "impaired water" (see definition in 2021 MSGP, Appendix A)? Yes No

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

Nonacoicus Brook

Identify the pollutant(s) causing the impairment(s):

Dissolved Oxygen (Impairment)

Which of the identified pollutants may be present in industrial stormwater discharges from this facility?

Not Applicable

Has a Total Maximum Daily Load (TMDL) been completed for any of the identified pollutants? If yes, please list the TMDL pollutants: _____

Does this facility discharge industrial stormwater into a receiving water designated as a Tier 2, Tier 2.5 or Tier 3 water (see definitions in 2021 MSGP, Appendix A)? Yes No

Are any of your stormwater discharges subject to effluent limitation guidelines (ELGs) (2021 MSGP Table 1-1)? Yes No

If Yes, which guidelines apply?

1.2 Contact Information/Responsible Parties.

Facility Operator(s):

Name: Rick Hudson, Ayer Wastewater Foreman
Address: 25 Brook Street
City, State, Zip Code: Ayer, MA, 01432
Telephone Number: (978) 772-8240
Email address: rhudson@ayer.ma.us
Fax number: (978) 772-8244

Facility Owner(s):

Name: Town of Ayer – Department of Public Works
Address: 25 Brook Street
City, State, Zip Code: Ayer, MA, 01432
Telephone Number: (978) 772-8240
Email address: DPW@ayer.ma.us
Fax number: (978) 772-8244

SWPPP Contact(s):

SWPPP Contact Name (Primary): Dan Van Schalkwyk, P.E., Town Engineer
Telephone number: (978) 772-8240
Email address: dvanschalkwyk@ayer.ma.us
Fax number: (978) 772-8244
SWPPP Contact Name (Backup): Robert Pontbriand, Town Manager
Telephone number: (978) 772-8220
Email address: tm@ayer.ma.us
Fax number: N/A

1.3 Stormwater Pollution Prevention Team.

The stormwater pollution prevention team (SPPT) is responsible for the implementation, maintenance, recordkeeping and revision of the SWPPP. In addition, the SPPT is responsible for maintaining control measures and taking corrective actions where required. The team members and their assigned responsibilities are listed below.

Staff Names	Individual Responsibilities
Rick Hudson	Oversees (SPPT) and assure compliance with MSGP
Tim Lahtinen	Assist with implementation of (SPPT) issues and recommendations
Carl Johnson	Assist with implementation of (SPPT) issues and recommendations
John Loomer	Assist with implementation of (SPPT) issues and recommendations
David Nelson, Jr	Assist with implementation of (SPPT) issues and recommendations
Dan Van Schalkwyk, P.E.	Assist with implementation of (SPPT) issues and recommendations

1.4 Site Description.

Ayer's Wastewater Treatment Facility is located at the end of Brook Street, in the Town of Ayer, Massachusetts adjacent to the Department of Public Works (DPW) office at 25 Brook Street. A General Location Map is provided in Attachment A. The Facility's treatment capacity is 1.79 MGD. The average annual wastewater flow to the treatment plant is approximately 1.3 MGD. The Facility provides secondary and tertiary wastewater treatment. The secondary treatment processes at the facility include grit removal, primary settling, aeration, activated sludge, secondary sedimentation, secondary clarification, disinfection, and solids dewatering. The tertiary treatment processes consist of filtration and ultraviolet (UV) disinfectant. The filtration and UV disinfectant systems are located inside the Process and Maintenance Building. There is a backup system for dichlorination in the event the UV disinfectant fails. Septic system pumps out waste from outside haulers was previously accepted at the facility but was discounted in 2010. Administrative offices and a small testing laboratory are located on the premises.

Industrial activities at the Facility include the wastewater treatment operational area; loading, unloading, and bulk transfer of individual and waste materials associated with treatment activities; and vehicle parking and storage. The Facility layout is found in Attachment B and depicts the locations of these activities and site features.

Material is loaded and unloaded to/from the Facility via a hydraulic lift at the entrance on the south side of the Process and Maintenance Building. Materials transferred via drum are limited to virgin and waste oils associated with light equipment maintenance activities, as well as the sodium bisulfate drums which are stored inside the electric switch gear building located in the northern portion of the Facility. Materials transferred in bulk by a hose connection include diesel fuel, heating oil, sludge, and alum. Sludge is stored in two 15,000-gallon ASTs located east of the Process and Maintenance Building and transferred by tanker on a daily basis. Grit is transferred to a truck via a loader and unloaded into an outside metal container where it is stored prior to being emptied on an annual basis. The locations where these transfer operations occur are shown on Attachment B and potential pollutant sources are described in Section 2.1.

The Facility has a maintenance bay in the Process and Maintenance Building. An oil/water separator which is connected to the on-site treatment system is located outside to the north of the building. The oil/water separator receives liquid from the drains that are located inside the building. The treated material eventually

discharges to the wastewater outfall located in the northern portion of the Facility. The oil/water separator is inspected every six months and cleaned out when needed, but at a minimum once every two years.

A chlorine gas storage building is located north of the Process and Maintenance Building where 100-pound chlorine gas cylinders are stored.

1.5 General Location Map.

The general location map for this facility can be found in Attachment A.

1.6 Site Map.

The site map for this facility can be found in Attachment B.

SECTION 2: POTENTIAL POLLUTANT SOURCES

Section 2 will describe all areas at your facility where industrial materials or activities are exposed to stormwater or from which authorized non-stormwater discharges originate. Industrial materials or activities include, but are not limited to: material handling equipment or activities; industrial machinery; raw materials; intermediate products, by-products, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product or waste product. For structures located in areas of industrial activity, you must be aware that the structures themselves are potential sources of pollutants. This could occur, for example, when metals such as aluminum or copper are leached from the structures as a result of acid rain.

For each area identified, the SWPPP must include industrial activities in the area, potential pollutants or pollutant constituents for each identified activity, documentation of where potential spills and leaks could contribute pollutants to stormwater discharges, evaluation of unauthorized non-stormwater discharges, salt storage location, stormwater discharge sampling data and descriptions of stormwater control measures.

2.1 Potential Pollutants Associated with Industrial Activity.

Potential stormwater pollutant sources are industrial materials and activities that are exposed or could be exposed to stormwater. Areas where industrial materials and activities have been exposed to stormwater within the last three years must be documented. The summary of the industrial materials and activities is provided below. The locations of each industrial activity are noted on Attachment B as numbered below.

Industrial Activity	Associated Pollutants
1. Alum Loading Area	Alum product for wastewater treatment
2. Sludge Tanker Loading Area	Wastewater sludge for off-site disposal
3. Grit/screenings Container	Wastewater solids
4. Maintenance Bay inside Process and Maintenance Building	Virgin and waste oils
5. Heating Oil Underground Storage Tanks	No. 2 fuel oil
6. Primary Scum Tank	Wastewater sludge and solids from clari-thickeners
7. Pad Mounted Electric Transformer	Dielectric fluid (petroleum)
8. Back-up Electric Generator	Diesel fuel
9. Electric Switch Gear and Sodium Bisulfate Drum Storage	Sodium bisulfate

If you are a Sector S (Air Transportation) facility, do you anticipate using more than 100,000 gallons of pure glycol in glycol-based deicing fluids and/or 100 tons or more of urea on an average annual basis?

Yes No

If you are a Sector G (Metal Mining) facility, do you have discharges from waste rock and overburden piles?

Yes No

2.2 Spills and Leaks.

For most materials at the Facility, there is a low likelihood that exposure will occur under normal operations. However, for some, a spill or leak could occur during delivery or transfer operations. Other sources, such as oil-filled electrical equipment, are located outdoors but enclosed. The Facility provides Best Management Practices (BMPs) for stormwater for each potential pollutant source. No spills or leaks have occurred within the three years prior to the preparation date of this SWPPP.

Areas of Site Where Potential Spills/Leaks Could Occur

Location	Discharge Points
1. Alum Loading Area	a) Wastewater Treatment Headworks.
2. Sludge Tanker Loading Area	a) Wastewater Treatment Headworks.
3. Grit/screenings Container	a) Material handling is minimized during rain events. b) As well as it is covered by a tarp when not in use.
4. Maintenance Bay	a) Material handling is minimized during rain events. b) Drums are stored on spill pallets. c) Spill cleanup materials are available nearby.
5. Heating Oil Underground Storage Tanks	a) On-Site employees are present during deliveries. b) Delivery is limited to daytime only.
6. Primary Scum Tank	a) Good housekeeping practices are employed to keep the area free of debris and spills.
7. Pad-mounted Electric Transformer	a) Transformer is inspected for leaks and deterioration.
8. Self-Contained Back-up Electric Generator Aboveground Tank	a) On-site employees are present during deliveries. b) Tank is inspected for leaks and deterioration.
9. Electric Switch Gear and Sodium Bisulfate Drum Storage Building	a) Drums stored indoors and on a spill pallet. b) Drums are for emergency disinfection only.

2.3 Unauthorized Non-stormwater Discharges Evaluation.

Description of this facility's unauthorized non-stormwater discharge evaluation:

- Date of evaluation: [May 20, 2021](#)
- Description of the evaluation criteria used: [Site visit, discussion with staff, review of building plans](#)
- List of the discharge points or onsite drainage points that were directly observed during the evaluation: [Outfall-01 and upstream drainage](#)
- Action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), or documentation that a separate NPDES permit was obtained. For example, a floor drain was sealed, a sink drain was re-routed to sanitary or an NPDES permit application was submitted for an unauthorized cooling water discharge: [No unauthorized stormwater discharges were apparent as part of the evaluation.](#)

2.4 Salt Storage.

There is no salt storage at the Wastewater Treatment Facility. Road salt, sand, sand/salt mixes are located at the Highway Maintenance Garage are stored in salt shed located at 25 Brook Street. This salt shed is

covered the materials are fully contained within the building. The good housekeeping measure used to minimize the exposure resulting from adding to or removing stored materials include sweeping the loading, unloading, and mixing area regularly or when salt has accumulated on the paved surface.

2.5 Sampling Data Summary.

Quarterly visual assessments indicate, generally, there are no visual cues of stormwater contamination. Previous annual reports submitted indicate similar results and are available at the DPW Engineering department.

SECTION 3: STORMWATER CONTROL MEASURES (SCM)

3.1 *Non-numeric Technology-based Effluent Limits (BPT/BAT/BCT)*

You must comply with the following non-numeric effluent limits as well as any sector-specific non-numeric effluent limits in Part 8, except where otherwise specified.

3.1.1 Minimize Exposure.

The BMPs that the Facility uses to minimize the exposure of potential pollutants to stormwater are described as follows:

- All chemicals and oils are stored indoors or within enclosed equipment, including the underground fuel tanks that are located outside of the Process and Maintenance Building, the pad-mounted transformer and the electric diesel fuel backup generator located near the Electric Switch Gear Building.
- The metal grate at the alum receiving and sludge tanker loading areas collect any spills which are contained and returned to the plant headworks for treatment.
- Sludge processing is located indoors and not exposed to stormwater. There is no potential for stormwater to contact the aeration basins, sedimentation tanks, and clari-thickener tanks due to the walls of these structures and the associated closed-loop treatment process.
- Vehicle washing occurs indoors and wash waters discharge to the on-site oil/water separator that discharges to the treatment headworks.
- The grit/screenings container has a cover to prevent contact with precipitation when not in use. Material handling is minimized during rain events.

3.1.2 Good Housekeeping.

Good housekeeping BMPs are designed to maintain a clean and orderly Facility to minimize the exposure of potential pollutants to stormwater. The following measures are used at the Facility:

- Regular sweeping of all paved areas;
- Monitoring by operator of tanker truck waste sludge loading;
- Oversight of No. 2 fuel oil and diesel fuel deliveries;
- Indoor storage of both empty and full drums;
- Proper labeling of all containers in the loading and unloading areas;
- Trash storage inside the building in sturdy plastic containers and bags. Trash and related solid waste are disposed at the Town of Ayer Transfer Station located at Groton-Harvard Road;
- Offsite storage of sand and salt; and
- Routine inspection and cleanup of the Facility.

3.1.3 Maintenance.

Preventive maintenance involves the regular inspection and maintenance of stormwater controls. It also includes inspection, testing, and maintenance of Facility equipment to prevent breakdowns or failures that could release pollutants into the storm drain system.

Maintenance of stormwater controls at the Facility consists of:

- Catch basins and pipes are inspected and cleaned annually or as needed to ensure that accumulated sediments do not reach the invert of the outfall pipe. Removed sediments are managed off-site by the Ayer DPW.
- The oil/water separator located outside of the Process and Maintenance Building is visually inspected every six months and cleaned on an as needed basis, and at least every two years. Residuals are properly disposed by a qualified licensed contractor.

Maintenance and upkeep of other equipment focuses on the following:

- Chemical fill pipes, lines and connections;
- Hydraulic equipment on sludge container;
- Outdoor electrical equipment such as transformers; and
- Generator diesel tank.

Any leaks from vehicles or equipment will be repaired immediately, or the equipment will be replaced.

3.1.4 Spill Prevention and Response Procedures.

The potential is low for Facility spills that could contaminate stormwater. Most of the chemicals and other materials are loaded and unloaded indoors. The following BMPs are used for the outdoor material handling areas:

- Any spills that occur at the alum receiving area and sludge tanker loading areas are directed to a metal grate that is connected to the plant headworks for treatment.
- The waste oil storage drums in the Process and Maintenance Building and the sodium bisulfate in the Electric Switch Gear and Dichlorination Building are located on spill pallets to contain 110% of the entire capacity. Spill response materials are located at both locations.
- The backup electric generator and underground storage fuel oil storage tanks are filled by an outside contractor. On-site staff oversee the delivery and limit deliveries to daylight hours to detect any spills that may occur. Any small spills would be contained on-site using the available spill response materials.

All employees at the Facility are trained to notify the Stormwater Pollution Prevention Team Leader or the DPW spill coordinator immediately of all spills of hazardous materials or regulated materials regardless of quantity. Spills will be evaluated to determine the necessary response and notifications of quantity. Spills will be evaluated to determine the necessary response and notifications requirements. Emergency personnel (911) will be contacted if there is a health hazard, fire or explosion potential. Local, state or federal emergency response agencies will be notified in the event of a large spill or if a spill threatens surface waters. Small leaks and Spills may be handles by the facility operators.

Note: The Ayer Department of Public Works (DPW) does not maintain a HAZWOPER Response Team. DPW personnel are not trained to conduct any offensive measures for oil or chemical spill response. They will contact an off-site responder or contractor for HAZMAT spill response.

Notifications Procedures

Initial notification – Discovery

All personnel are trained to notify the Stormwater Pollution Prevention Team Leader upon incident discovery. Personnel are trained to notify outside local responders in instances where health of employees or the public may be threatened.

Hazard Assessment

The PPT Leader will immediately conduct a hazard assessment for the following:

1. Health and Safety
 - a. Is anybody injured?
 - b. Can anybody be injured in the future?
 - c. How to maintain a safe environment for employees and the public?
2. Environmental Factors
 - a. Are there any environmental impacts?
 - b. Will there be future environmental impacts?
 - c. How to prevent or minimize future environmental impacts?
3. Available Resources
 - a. Are DPW personnel adequate?
 - b. Is on-site spill equipment adequate?
 - c. When will outside assistance arrive?

The SPPT Leader will rely upon the notification procedures and emergency contact list in the Spill Prevention, Control and Countermeasure Plan for the Ayer DPW Facility.

3.1.5 Erosion and Sediment Controls.

There are few sources of possible erosion and sedimentation at the Facility since there are designated paved areas for equipment travel and site activities. Additionally, the stormwater collection areas for equipment travel and site activities. Additionally, the stormwater collection areas are stabilized with pavement and the discharge location for Outfall-01 is stabilizing with rip-rap to prevent scouring. However, if soil is exposed during maintenance or facility operations, then BMPs for erosion and sediment control will be used. These include:

- Covering stockpiled soils when not in use for extended periods of time;
- Installing silt fences or stalked hay bales downgradient of exposed soils;
- Placing filter boxes or catch basins inserts over downgradient catch basins; and
- Reseeding disturbed soils as soon as possible.

Any future construction work at the Facility will incorporate these BMPs in the contract documents. Additionally, if construction and related land disturbance activities will exceed one acre, the Facility and/or contractor must prepare a Stormwater Pollution Prevention Plan and obtain coverage under the *NPDES General Permit for Storm Water Discharges from Construction Activities*.

3.1.6 Management of Stormwater.

Stormwater runoff from paved areas and the building roof is captured by a series of catch basins that discharge to Outfall-01, as shown on Attachment B. The stormwater outfall has some rip-rap present to provide scour protection. Additional riprap was added following the same September 2013 SWPPP Update to provide additional scour protection at the outfall.

Good housekeeping practices reduce the possibility of pollution in runoff from the Facility. Runoff from unpaved areas of the Facility flows over grass and wooded areas where it infiltrates naturally or continues overland to the adjacent wetland area. The majority of the pavement around the aeration basins, anoxic tanks, sedimentation tanks and clari-thickener tanks were previously removed and replaced with stone and gravel. This minimizes the potential for erosion and promotes infiltration of stormwater runoff. Pavement is limited to that which is essential to the Facility's operation. No additional runoff management practices are needed at this time.

In accordance with Part 2.1.1.8, the facility will consider enhanced stormwater control measures to minimize the impact from major storms. The SPPT will inspect the system during a major storm to identify areas for improvement/consideration.

3.1.7 Salt Storage Piles or Piles Containing Salt.

There are no salt storage piles or piles containing salt located at the WWTP. Road salt, sand, sand/salt mixes are located at the Highway and Maintenance Garage at 25 Brook Street and are stored in the salt shed. The salt shed is covered, and the materials are fully contained within the building. The good housekeeping measures used to minimize the exposure resulting for adding to or removing stored materials including sweeping the loading, unloading, and mixing area regularly or when salt has accumulated on the paved surface.

3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials.

Material handling operations located indoors minimize the off-site tracking of materials and the generation of dust. The tracking of materials from unexposed areas to areas of exposure is likewise minimized due to designated Facility operation and traffic areas.

3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines (ELGs).

The WWTP is Sector T, therefore none of the below activities are applicable.

Regulated Activity	40 CFR Part/Subpart	Effluent Limit
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	Part 429, Subpart I	See Part 8.A.8
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	Part 418, Subpart A	See Part 8.C.5
Runoff from asphalt emulsion facilities	Part 443, Subpart A	See Part 8.D.5
Runoff from material storage piles at cement manufacturing facilities	Part 411, Subpart C	See Part 8.E.6
Mine dewatering discharges at crushed stone, construction sand and gravel, or industrial sand mining facilities	Part 436, Subparts B, C, or D	See Part 8.J.10
Runoff from hazardous waste landfills	Part 445, Subpart A	See Part 8.K.7
Runoff from non-hazardous waste landfills	Part 445, Subpart B	See Part 8.L.11
Runoff from coal storage piles at steam electric generating facilities	Part 423	See Part 8.O.8
Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	Part 449	See Part 8.S.9

3.3 Water Quality-based Effluent Limitations and Water Quality Standards.

The measures outlined in this SWPPP will be implemented to control industrial stormwater discharge to meet applicable water quality standards. Corrective action will be taken if the measures are not effective at meeting applicable water quality standards.

3.4 Sector-Specific Non-Numeric Effluent Limits.

The site has sector-specific non-numeric effluent limits, as detailed in Part 8, Subpart T.

Control Measures identified in Part 8.T.4.1 that may be used where feasible include (list not exclusive)

- Routing stormwater to the treatment works
- Covering exposed materials

The only exposed materials are the grit screenings container which is covered.

At this time, the routing of piped stormwater onsite to the treatment works is not being considered. The WWTP has high I/I flows and adding more stormwater is best avoided when possible. The control measures outlined in this SWPPP will be used and, if they prove unsatisfactory, control measures will be revisited.

SECTION 4: SCHEDULES AND PROCEDURES

4.1 *Good Housekeeping.*

Good housekeeping practices are activities, often conducted daily, that help maintain a clean facility and prevent stormwater pollution problems. The following is a list of good housekeeping measures that are practiced at the facility:

- All washing of vehicles is performed within the designated vehicle wash bay.
- All fluid products and wastes are kept indoors.
- Fueling of small equipment is completed indoors.
- All floor drains present within garage bays drain to an oil/water separator.
- Spill materials and cleanup kits are maintained at all locations where oil materials are used, stored, or may be present, including at Fuel Islands.
- Used spill cleanup materials are disposed of properly.
- Materials are stored indoors or in covered areas to minimize exposure to stormwater.
- No fertilizers, herbicides, or pesticides are stored or used at the facility.
- Lead-acid batteries are stored indoors and within secondary containment.
- Hazardous materials storage lockers with spill containment are used. Storage areas are located away from vehicle and equipment paths to reduce the potential of accident related leaks and spills.
- Storage drums and containers are not located close to storm drain inlets.
- All hazardous material storage areas and containers have proper signage, labels, restricted access, locks, inventory control, overhead coverage, and secondary containment.
- All materials, waste oil storage containers, and gas cans are properly labeled.
- Oil/water separators and catch basins are maintained regularly and properly.
- Speedi Dri (or similar absorbent) is readily available and used for appropriate spills.
- Spill kits are located in areas where fluids are stored or where activities may result in a spill.
- Tools and materials are returned to designated storage areas after use.
- Waste materials are properly collected and disposed of.
- Different types of wastes are separated as appropriate.
- Regular waste disposal is arranged.
- Work areas are clean and organized.
- Work areas are regularly swept or vacuumed to collect metal, wood, and other particulates and materials.
- Obtain only the amount of materials required to complete a job.
- Materials are recycled when possible.
- Staff is familiar with manufacturer directions for proper use of materials and associated Safety Data Sheets (SDSs).
- Staff is familiar with proper use of equipment.
- Bollards, berms, and containment features are in place around areas and structures where fluids are stored.
- Drip pans are used for maintenance operations involving fluids and under leaking vehicles and equipment waiting repair.

The facility maintains a supply of spill cleanup materials at many buildings on site and will maintain this inventory.

4.2 Maintenance.

Preventative Maintenance can minimize the occurrence of stormwater pollution by addressing issues before they become problems. Vehicles and equipment should be regularly inspected to prevent leaks of fuel, oil, and other liquids. Structural stormwater controls should be regularly maintained to prevent inadequate performance during storm events.

The following is a list of preventative maintenance procedures practiced at the facility

- All staff members are aware of spill prevention and response procedures.
- All staff members have received formal spill prevention and response procedure training.
- All equipment fueling procedures are completed by qualified personnel trained in spill response procedures.
- Hydraulic equipment is kept in good repair to prevent leaks.
- Vehicle storage areas are inspected frequently for evidence of leaking oil.
- Material storage tanks and containers are regularly inspected for leaks.
- All material and bulk deliveries are monitored by facility employees.
- All waste oil is fully contained, and the containers are inspected regularly.

4.3 Spill Prevention and Response Procedures.

The following procedures apply to the facility:

- All personnel are instructed in location, use, and disposal of spill response equipment and supplies maintained at the site such as oil absorbent materials.
- The Pollution Prevention Team leader will be advised immediately of all spills of hazardous materials or regulated materials, regardless of quantity.
- Spills will be evaluated to determine the necessary response. If there is a health hazard, fire or explosion potential, 911 will be called. If a spill exceeds five gallons or threatens surface waters, including the storm drain system, state or federal emergency response agencies will be called.
- Spills will be contained as close to the source as possible with oil-absorbent materials. Additional materials or oil-absorbent socks will be utilized to protect adjacent catch basins.

4.4 Erosion and Sediment Control.

Polymers and chemicals are not used for erosion and sediment control.

4.5 Employee Training.

Annual training is required for staff involved in the development and implementation of the SWPPP and the training session will address the following topics:

- SWPPP contents and modifications;

- Control measures to achieve stormwater discharge limitations;
- Inspections: routine, quarterly and comprehensive (annual);
- Corrective actions and reporting;
- Stormwater discharge monitoring procedures and follow-up actions; and
- Additional reporting and recordkeeping
- Items outlined in Part 8.T.4.2

The purpose of the training program is to teach personnel the components and goals of the SWPPP. The Town and/or its consultants will conduct a basic training session that includes a PowerPoint presentation and hard copy handouts of relevant sections of the SWPPP. A site walkthrough will be conducted after the classroom session to review the requirements of the SWPPP and answer questions. Copies of the training materials and records of the attendance will be maintained in Attachment F.

4.6 Inspections and Assessments.

4.6.1 Routine Facility Inspections.

The MSGP requires that personnel be designated to routinely inspect the Facility and that tracking and record keeping procedures be established. Inspections must be performed by at least one member of the SPPT identified in **Section 1.3** and at least one of the inspections must be performed during wet weather annually.

At a minimum, quarterly stormwater inspections will be performed by at least one member of the SPPT. The inspector should reference the Drainage Site Plan (Attachment B) and the Inventory of Potential Pollutants (**Section 2.1**). The following provides an example of the equipment and areas to be inspected:

- Drainage System – Are catch basins free of debris and sediments? Are there any signs of stains or spills in the rest of the system? If there is dry-weather flow, what is the source and is it allowed?
- Loading/Unloading – Are there any signs of leaks or spills in the areas where chemical and other materials are transported and handled? Is cleanup equipment readily available? Are personnel properly trained in spill prevention and response procedures?
- Grit and screenings dumpster shall be monitored for capacity to contain material and any accumulated stormwater. This dumpster shall be maintained to prevent leaks and discharge of pollutants. Material shall be covered at all times when not in use and the cover shall be maintained.
- Good Housekeeping – is any debris present? Is the Facility well maintained? Are outdoor containers covered?

The results of the quarterly stormwater inspections will be documented and maintained on site with the SWPPP using the checklist contained in Attachment F. The minimum documentation will include the inspection date and time, the name and signature of the inspectors, and weather information and description of any discharges. In addition, any conditions requiring corrective action will be documented within 24 hours. The documentation will include the identification of the condition triggering the need for corrective action, description of the problem identified, and date the problem was identified. Any corrective

actions will be taken no later than 14 days from the discovery and the documentation will include the summary of corrective actions taken, notice of whether the SWPPP needs to be updated, the date that the corrective action initiated, and the date the corrective action was completed.

Other Routine Facility Inspections

It is important to note that other routine inspection is conducted at the Facility and assist with SWPPP compliance. The Foreman conducts regular informal inspections of the Facility. Sweeping of the Facility's paved areas is performed as needed.

No spills or leaks have occurred in the past three years. Refer to Section 3 for information regarding the control measures present.

4.6.2 Quarterly Visual Assessment of Stormwater Discharges.

The MSGP requires that the Facility conduct stormwater visual assessments during storm events on a quarterly basis. Samples must be collected in a clear glass or plastic container and examined in a well-lit area for the following characteristics:

- Color;
- Odor;
- Clarity;
- Floating solids;
- Settled solids;
- Suspended Solids;
- Foam;
- Oil sheen; and Other obvious indicators of stormwater pollution

When possible, a stormwater sample should be collected within the first 30 minutes after stormwater runoff begins and from a discharge that occurs at least 72 hours from the previous discharge. When adverse weather conditions prevent the collection of a sample, a substitute sample must be collected during the next qualifying event and an explanation for no visual must be documented. Attachment F contains a quarterly visual monitoring inspection report form. The quarterly stormwater discharge visual assessment may be combined with the routine (quarterly) facility inspections.

A member of the SPPT will perform the above assessment. A sample must be collected from Outfall-01.

4.6.3 Exception to Routine Facility Inspections and Quarterly Visual Assessments for Inactive and Unstaffed Sites.

- This site is inactive and unstaffed, and has no industrial materials or activities exposed to stormwater, in accordance with the substantive requirements in 40 CFR 122.26(g)(4)(iii) as signed and certified in Section 7 below.**

If you are invoking the exception for inactive and unstaffed sites for your routine facility inspections and/or quarterly visual assessments, include information to support this claim.

Not applicable.

4.7 Monitoring.

Check the following monitoring activities applicable to your facility:

- Indicator monitoring
- Benchmark monitoring
- Effluent limitations guidelines monitoring
- State- or tribal-specific monitoring
- Impaired waters monitoring
- Other monitoring required by EPA

For each type of monitoring checked above, your SWPPP must include the following information:

Indicator Monitoring

1. **Sample location(s).** Outfall-01
2. **Pollutants to be sampled.** Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), pH
3. **Monitoring Schedules.** Quarterly
4. **Numeric Limitations.** N/A – Report Only
5. **Procedures.** The STTP Member will collect a sample during a viable storm event and bring the sample to a certified laboratory for analysis.

Impaired waters monitoring

1. **Sample location(s).** Outfall-01
2. **Pollutants to be sampled.** Dissolved Oxygen (Note: In accordance with 4.2.5.1.a.i., dissolved oxygen is an indicator or surrogate pollutant and must be monitored.)
3. **Monitoring Schedules.** Required in Year 1 and Year 4 of permit coverage, unless a pollutant causing impairment is detected outside the acceptable numeric limitation below, then annual monitoring must continue.
4. **Numeric Limitations.** In accordance with 314 CMR 4.06, the Nashua River Basin is a Class B water and, in accordance with 314 CMR 4.05(3)(b), Dissolved Oxygen shall not be less than 5.0 mg/L.
5. **Procedures.** The STTP Member will collect a sample during a viable storm event and bring the sample to a certified laboratory for analysis.

SECTION 5: DOCUMENTATION TO SUPPORT ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS

5.1 *Documentation Regarding Endangered Species Act (ESA) Listed Species and Critical Habitat Protection.*

The MSGP requires that all stormwater discharges from the Facility do not adversely affect any species that are federally-listed as endangered or threatened under the Endangered Species Act (ESA). Information was submitted to the U.S. Fish and Wildlife Service (FWS) to request a review of federally-listed endangered or threatened species that could be adversely affected by stormwater discharges from the Facility. The U.S. FWS responded that there is one threatened species on the list, consisting of the “northern long-eared bat (*Myotis septentrionalis*)”: There are no critical habitats within the project area. A copy of the report is provided in Attachment D. In accordance with Appendix E of the MSGP, the IPaC website confirms that the same threatened species are present, please see Attachment D. Therefore, the facility is eligible under Criterion C1.

The Facility abuts the Oxbow Wildlife Refuge, a Natural Heritage and Endangered Species Program (NHESP) Estimated Habitats of Rare Wildlife and a National Wildlife Refuge, as shown on Attachment C. According to FWS, there are no federal listed species within the refuge and that the Facility would not have to undertake any further action/review related to stormwater discharges.

5.2 *Documentation Regarding National Historic Preservation Act (NHPA)-Protected Properties.*

The MSGP requires that stormwater discharges be in compliance with the National Historic Preservation Act. This means that stormwater discharges either: (1) do not affect properties that are listed on the National Register of Historic Places or (2) are in compliance with an agreement with the Massachusetts Historical Commission prevent adverse effects on historic properties. Being an existing facility, a review of the National Register of Historic Places at <http://www.nps.gov/nr/research/> was performed with the previous NOI. There are no properties or places in the vicinity of the Facility. The facility is/has not constructed any new stormwater control measures, therefore, the stormwater discharges and allowable non-stormwater discharges do not have the potential to impact historic properties and the Facility meets the MSGP eligibility Criterion A with respect to Historic Properties.

SECTION 6: CORRECTIVE ACTIONS AND ADDITIONAL IMPLEMENTATION MEASURES

1. Conditions Requiring SWPPP Review and Revision to Ensure Effluent Limits are Met

When any of the conditions listed in Part 5.1.1 of the permit 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:

- Part 5.1.1.1 - 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
- Part 5.1.1.2 - A discharge violates a numeric effluent limit listed in Table 2-1 and/or in your Part 8 sector-specific requirements.
- Part 5.1.1.3 - Your stormwater control measures are not stringent enough for your stormwater discharge to be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards or to meet the non-numeric effluent limits in this permit.
- Part 5.1.1.4 - A required control measure was never installed, was installed incorrectly, or not in accordance with Parts 2 and/or 8 or is not being properly operated or maintained.
- Part 5.1.1.5 - Whenever a visual assessment shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam).

2. Conditions Requiring SWPPP Review to Determine if Modifications Are Necessary

If construction or a change in design, operation, or maintenance at the facility occurs that significantly changes the nature of pollutants discharged via stormwater from the facility, or significantly increases the quantity of pollutants discharged, SWPPP must be reviewed (e.g., sources of pollution, spill and leak procedures, non-stormwater discharges, selection, design, installation and implementation of your stormwater control measures) to determine if modifications are necessary to meet the effluent limits in this permit.

3. Deadlines for Corrective Actions

Refer to Part 5.1.3 of the MSGP

4. Additional Implementation Measures (AIM)

AIM must be utilized if any of the triggering events occur. If an annual average exceeds an applicable benchmark threshold based on the following events, the AIM requirements have been triggered for that benchmark parameter. An annual average exceedance for a parameter can occur if:

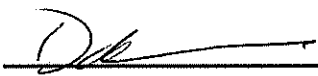
- Part 5.2.2.1 - The four-quarterly annual average for a parameter exceeds the benchmark threshold, or
- Part 5.2.2.2 - Fewer than four quarterly samples are collected, but a single sample or the sum of any sample results within the sampling year exceeds the benchmark threshold by more than four

times for a parameter. This result indicates an exceedance is mathematically certain (i.e., the sum of quarterly sample results to date is already more than four times the benchmark threshold).

If AIM is triggered then a response in accordance with the AIM Levels outlined in Parts 5.2.3, 5.2.4, and 5.2.5, must be implemented accordingly.

SECTION 7: SWPPP CERTIFICATION

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

Name: Dan Van Schalkwyk Title: Town Engineer
Signature:  Date: 05/20/2021



SECTION 8: SWPPP MODIFICATIONS

This section reserved for modifications.

SECTION 9: SWPPP AVAILABILITY

The SWPPP has been made available on the Town's webpage at the following url:

<https://www.ayer.ma.us/stormwater-department/pages/swppp-ayer-wastewater-treatment-plant>

SWPPP ATTACHMENTS

Attach the following documentation to the SWPPP:

Attachment A – General Location Map

Attachment B – Site Map

Attachment C – NHESP

Include a copy of your Natural Heritage & Endangered Species Program (NHESP) Estimated Habitats of Rare Wildlife Map(s) in Attachment C.

Attachment D – Criterion C Eligibility Form and Agency Correspondence

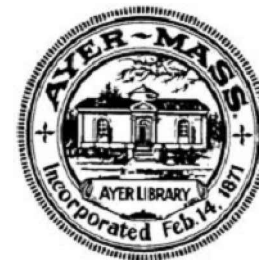
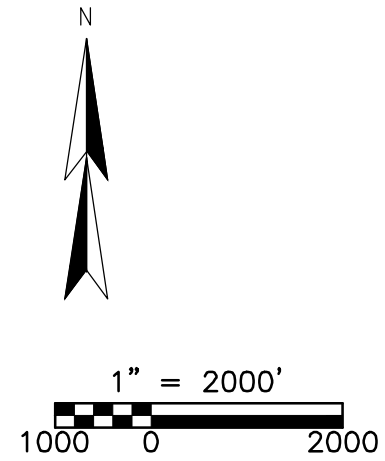
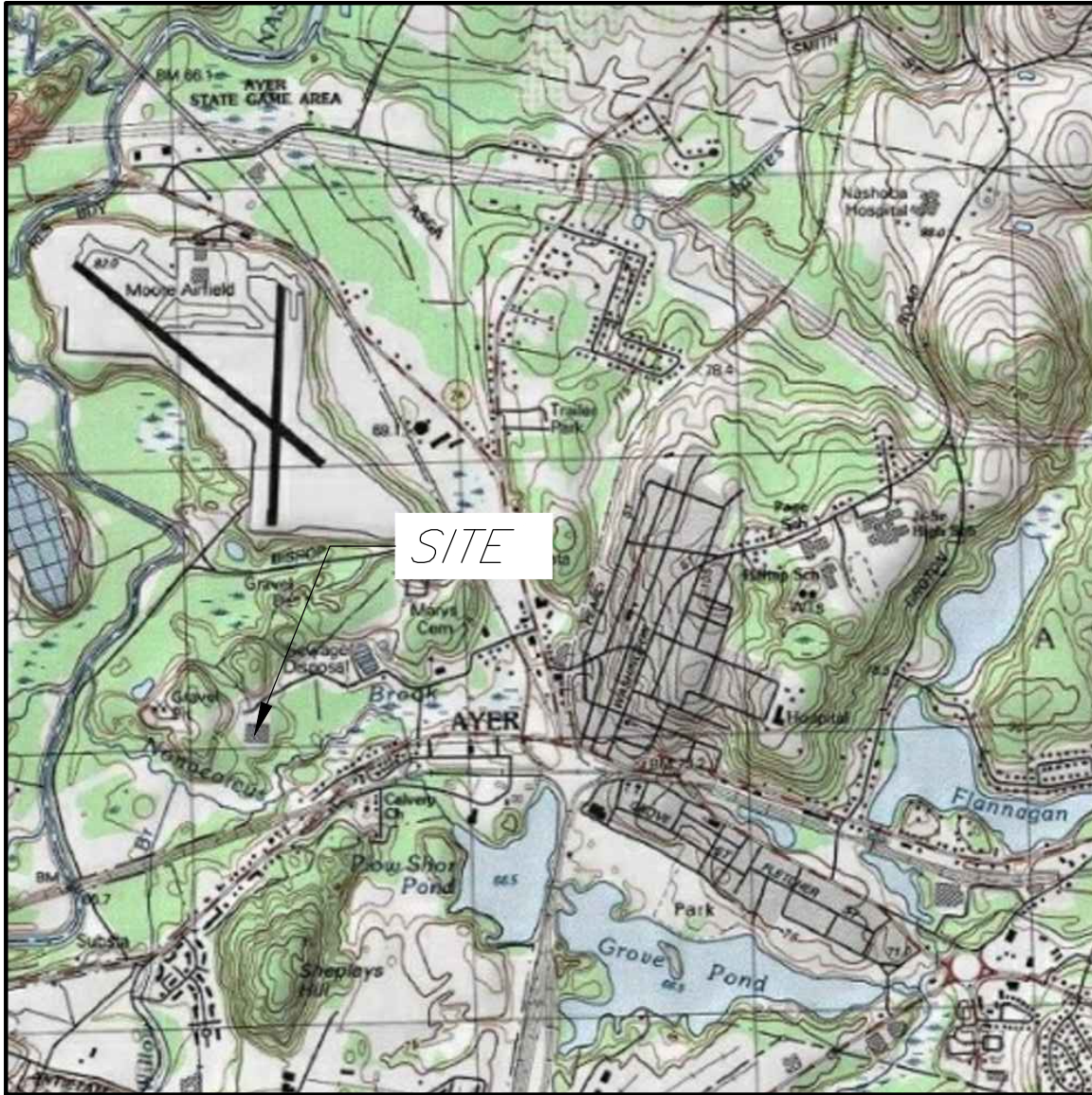
Attachment E –2021 MSGP

Attachment F – Additional 2021 MSGP Documentation

Contents:

- A Employee Training***
- B Maintenance***
- C Routine Facility Inspection Reports***
 - i. Stormwater Control Measures***
 - ii. Areas of Industrial Materials or Activities Exposed to Stormwater***
- D Visual Assessment Documentation***
- E Monitoring Results***
- F Deviations from Visual Assessment and/or Monitoring Schedule***
- G Corrective Action and AIM Documentation***
- H Benchmark Threshold Exceedances***
- I Impaired Waters Monitoring: Documentation of Natural Background Sources Or Non-Presence/Acceptable Range of Impairment Pollutant***
- J Active/Inactive Status Change***
- K SWPPP Amendment Log***
- L Miscellaneous Documentation***

Attachment A – General Location Map



AYER DPW
 25 BROOK STREET
 AYER, MASSACHUSETTS

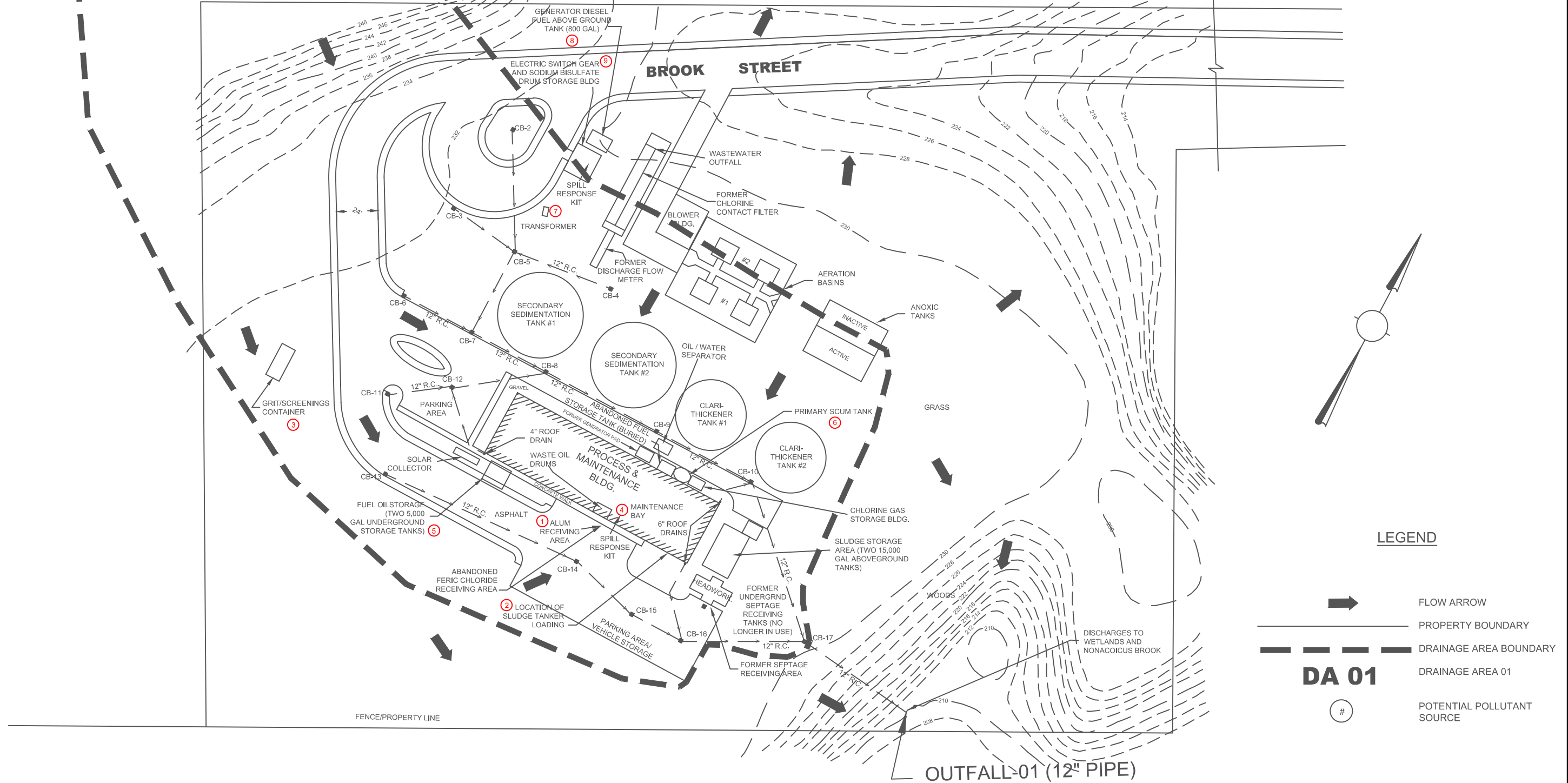
FIGURE 1

TOWN OF AYER WASTEWATER TREATMENT FACILITY
 25 BROOK STREET
 AYER, MA

SITE LOCATION
 MAP

Attachment B – Site Map

DA 01
2.9 AC



DRAINAGE SITE PLAN

STORMWATER POLLUTION PREVENTION PLAN
WASTEWATER TREATMENT PLANT
AYER, MASSACHUSETTS

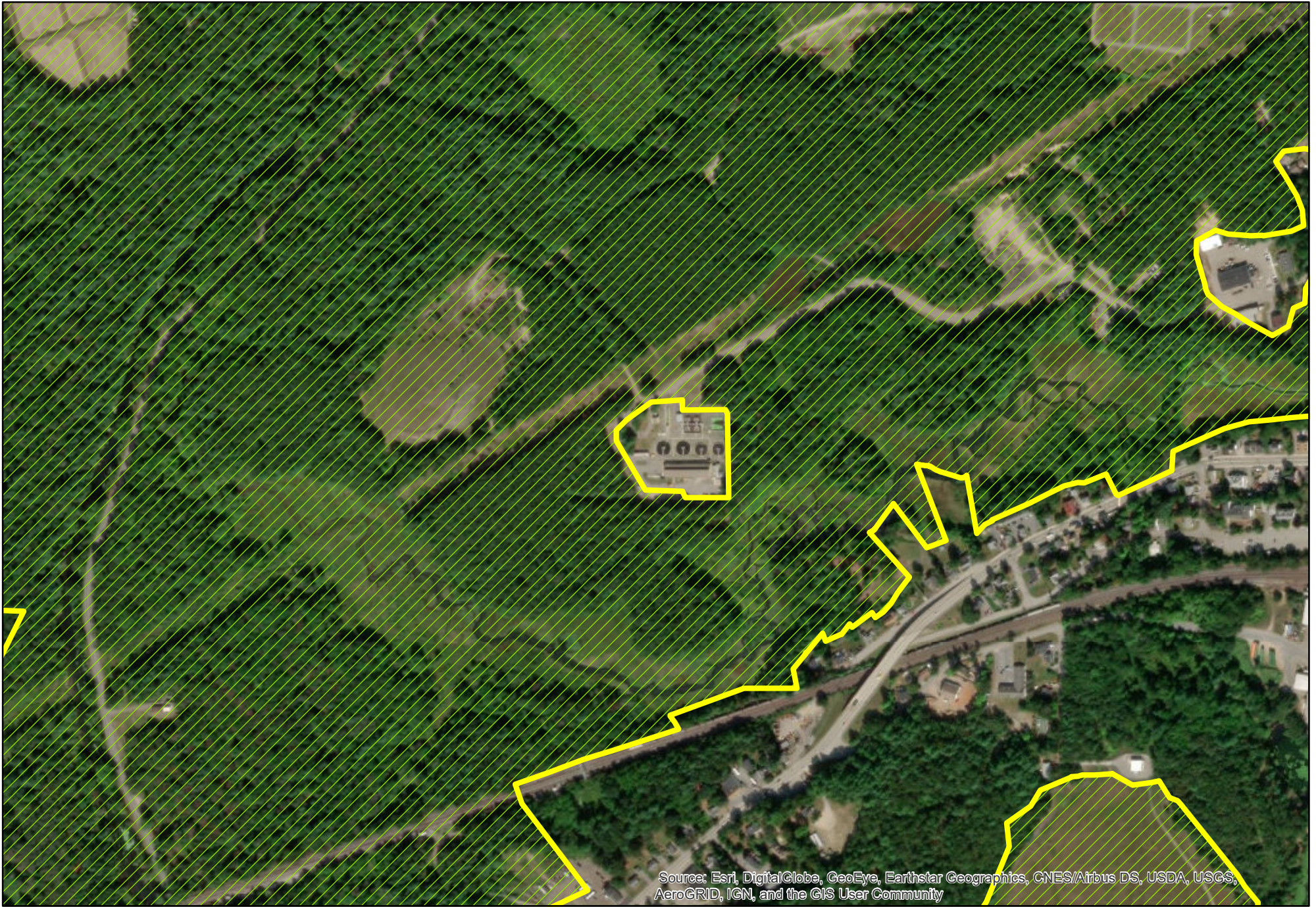
APPROX SCALE: 1" = 60'

SITE MAP - FIGURE 2



AYER DPW
25 BROOK STREET
AYER, MASSACHUSETTS

Attachment C – NHESP

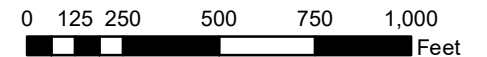


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**NHESP ESTIMATED HABITATS OF RARE WILDLIFE
AYER WWTP SWPPP**



Data Layer Source: NHESP Estimated Habitats of Rare Wildlife datalayer published by MassGIS, August 1, 2017



**Attachment D – Criterion C Eligibility Form and
Agency Correspondence**

Criterion C Eligibility Form

Instructions:

In order to be eligible for coverage under criterion C, you must complete the following form and you must submit it to EPA following the instructions in Section VII a **minimum of 30 days prior to filing your NOI for permit coverage.** After you submit your form, you may be contacted by EPA with additional measures (e.g., additional stormwater controls or modifications to your discharge-related activities) that you must implement in order to ensure your eligibility under criterion C.

If after completing this worksheet you cannot make a determination that your discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or designated critical habitat, you must submit this completed worksheet to EPA, and you may not file your NOI for permit coverage until you receive a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Note: Much of the information needed for this form can be obtained from your draft SWPPP which will be needed when you file your NOI.

SECTION I. OPERATOR, FACILITY, AND SITE LOCATION INFORMATION.

1) Operator Information

a) **Operator Name:** _____

b) **Point of Contact**

First Name: _____ **Last Name:** _____

Phone Number: _____

E-mail: _____

2) Facility Information

a) **Facility Name:** _____

b) **Check which of the following applies:**

I am seeking coverage under the MSGP as a new discharger or as a new source

I am seeking coverage under the MSGP as an existing discharger and my facility has modifications to its discharge characteristics (e.g., changes in discharge flow or area drained, different pollutants) and/or discharge-related activities (e.g., stormwater controls)

Indicate the number of years the facility has been in operation: _____ years

Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage: _____

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

Indicate the number of year the facility has been in operation: _____ years

Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage: _____

c) Facility Address:

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip Code: _____

d) Identify the primary industrial sector to be covered under the 2015 MSGP:

SIC Code _____ or Primary Activity Code _____

Sector _____ and Subsector _____

e) Identify the sectors of any co-located activities to be covered under the 201r MSGP:

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

f) Estimated area of industrial activity exposed to stormwater: _____ acres

g) Provide a general description of the industrial activities that are taking place at this facility:

3) Receiving Waters Information

List all the stormwater outfalls from your facility.				For each outfall, provide the following receiving water information:	
Outfall ID	Design Capacity (if known)	Latitude (decimal degrees)	Longitude (decimal degrees)	Name of the receiving water that receives stormwater from the outfall and/or from the MS4 that the outfall discharges to	Type of Waterbody (e.g., lake, pond, river/stream/creek, estuarine/marine water)
		____.____	____.____		
		____.____	____.____		
		____.____	____.____		
		____.____	____.____		
		____.____	____.____		
		____.____	____.____		
		____.____	____.____		
		____.____	____.____		

SECTION II. ACTION AREA

Ensure that your action area is described in [Attachment 1](#), as required in [Step 2](#).

SECTION III. LISTED SPECIES AND CRITICAL HABITAT LIST

Ensure that the listed species and critical habitat list is included in [Attachment 2](#), as required in [Step 3](#).

Review your species list in Attachment 2, choose one of the following three statements, and follow the corresponding instructions:

The species list includes only terrestrial species and/or their designated critical habitat. No aquatic or aquatic-dependent species or their critical habitat are present in the action area. **You may skip to [Section IV](#) of this form. You are not required to fill out [Section V](#).**

The species list includes only aquatic and/or aquatic-dependent species and/or their designated critical habitat. No terrestrial species or their critical habitat are present in the action area. **You may skip to [Section V](#) of this form and are not required to fill out [Section IV](#).**

The species list includes both terrestrial and aquatic or aquatic-dependent species and/or their designated critical habitat. **You must fill out both [Sections IV](#) and [V](#) of this form.**

Note: For the purposes of this permit, "terrestrial species" would not include animal or plant species that 1) spends any portion of its life cycle in a waterbody or wetland, or 2) if an animal, depends on prey or habitat that occurs in a waterbody or wetland. For example, shorebirds, wading birds, amphibians, and certain reptiles would not be considered terrestrial species under this definition. Please also be aware that some terrestrial animals (e.g., certain insects, amphibians) may have an aquatic egg or larval/juvenile phase.

SECTION IV. EVALUATION OF DISCHARGE-RELATED ACTIVITIES EFFECTS

Note: You are only required to fill out this section if your facility's action area contains terrestrial species and/or their designated critical habitat. If your action area only contains aquatic and/or aquatic-dependent species and/or their designated critical habitat, you can skip directly to [Section V](#).

Most of the potential effects related to coverage under the MSGP are assumed to occur to aquatic and/or aquatic-dependent species. However, in some cases, potential effects to terrestrial species and/or their critical habitat should be considered as well from any discharge-related activities that occur during coverage under the MSGP. Examples of discharge-related activities that could have potential effects on listed terrestrial species or their critical habitat include the storage of materials and land disturbances associated with stormwater management-related activities (e.g., the installation or placement of stormwater control measures).

A. Select the applicable statement(s) below and follow the corresponding instructions:

There are no discharge-related activities that are planned to occur during my coverage under the MSGP. You can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or their critical habitat in your action area, you must skip to [Section V, Evaluation of Discharge Effects](#), below.
- If there are no aquatic or aquatic-dependent species you may skip to [Section VI](#) and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in [Section VII](#) of this form. You may select criterion C on your NOI form and may submit your NOI for permit coverage 30 days after you have submitted this *Criterion C Eligibility Form*. You must also provide a description of the basis for the criterion you selected on your NOI form, **including the species and critical habitat list(s) in your action area**, as well as any other documentation supporting your eligibility. You must also include this completed *Criterion C Eligibility Form* in your SWPPP.

There are discharge-related activities planned as part of the proposal. Describe your discharge-related activities in the following box and continue to (b) below.

Describe discharge-related activities:

B. In order to ensure any discharge-related activities will have no likely adverse effects on listed species and/or their designated critical habitat, you must certify that all the following are true:

- Discharge-related activities will occur:
- on previously cleared/developed areas of the site where maintenance and operation of the facility are currently occurring or where existing conditions of the area(s) in which the discharge-related activities will occur precludes its use by listed species (e.g., work on existing impervious surfaces, work occurring inside buildings, area is not used by species), and
 - if discharge-related activities will include the establishment of structures (including, but not limited to, infiltration ponds and other controls) or any related disturbances, these structures and/or disturbances will be sited in areas that will not result in isolation or degradation of nesting, breeding, or foraging habitat or other habitat functions for listed animal species (or their designated critical habitat), and will avoid the destruction of native vegetation (including listed plant species).

If vegetation removal (e.g., brush clearing) or other similar activities will occur, no terrestrial listed species that use these areas for habitat would be expected to be present during vegetation removal.

If all the above are true, you can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or critical habitat in your action area, you must skip to [Section V](#), *Evaluation of Discharge Effects*, below.
- If there are no aquatic or aquatic-dependent species you may skip to [Section VI](#) and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in [Section VII](#) of this form. You may select criterion C on your NOI and may submit your NOI for permit coverage 30 days after you have submitted this completed form. You must also provide a description of the basis for the criterion you selected on your NOI form, **including the species and critical habitat list(s)**, and any other documentation supporting your eligibility. You must also include this completed *Criterion C Eligibility Form* in your SWPPP.
- **If any of the above are not true**, you cannot conclude that your discharge-related activities will have no likely adverse effects. You must complete the rest of this form (if applicable), and must submit the form to EPA for assistance in determining your eligibility for coverage.

SECTION V. EVALUATION OF DISCHARGE EFFECTS

Note: You are only required to fill out this section if your facility's action area includes aquatic and/or aquatic-dependent species and/or their critical habitat.

In this section, you will evaluate the likelihood of adverse effects from your facility's discharges. The scope of effects to consider will vary with each facility and species/critical habitat characteristics. The following are examples of discharge effects you should consider:

- **Hydrological Effects.** Stormwater discharges may adversely affect receiving waters from pollutant parameters such as turbidity, temperature, salinity, or pH. These effects will vary with the amount of stormwater discharged and the volume and condition of the receiving water. Where a stormwater discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely.
- **Toxicity of Pollutants.** Pollutants in stormwater may have toxic effects on listed species and may adversely affect critical habitat. Exceedances of benchmarks, effluent limitation guidelines, or state or tribal water quality requirements may be indicative of potential adverse effects on listed species or critical habitat. However, some listed species may be adversely affected at pollutant concentrations below benchmarks, effluent limitation guidelines, and state or tribal water quality standards. In addition, stormwater pollutants identified in Part 5.2.3.2 of your SWPPP, but not monitored as benchmarks or effluent limitation guidelines, may also adversely affect listed species and critical habitat.

As these effects are difficult to analyze for listed species, their prey, habitat, and designated critical habitat, this form helps you to analyze your discharges and make a determination of whether your discharges will have likely adverse effects and whether there are any additional controls you can implement to ensure no likely adverse effects.

A. Evaluation of Pollutants and Controls to Avoid Adverse Effects. In this section, you must document all of your pollutant sources and pollutants expected to be discharged in stormwater. You must also document the controls you will implement to avoid adverse effects on listed aquatic and aquatic-dependent species. You must include specific details about the expected effectiveness of the controls in avoiding adverse effects to the listed aquatic-and aquatic-dependent species. Attach additional pages if needed.

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species. Include information supporting why the control(s) will ensure no adverse effects, including any data you have about the effectiveness of the control(s) in reducing pollutant concentrations. You may also attach photos of your controls to this form.
<p>e.g., vehicle and equipment fueling</p>	<p>e.g.,</p> <ul style="list-style-type: none"> • Oil & grease • Diesel • Gasoline • TSS • Antifreeze 	<p>e.g.,</p> <ul style="list-style-type: none"> • Fueling operators (including the transfer of fuel from tank trucks) will be conducted on an impervious or contained pad or under cover • Drip pans will be used where leaks or spills of fuel can occur and where making and breaking hose connections • Spill kit will be kept on-site in close proximity to potential spill areas • Any spills will be cleaned-up immediately using dry clean up methods • Stormwater runoff will be diverted around fueling areas using diversion dikes and curbing

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.

Check if you are not able to make a preliminary determination that any of your pollutants will be controlled to a level necessary to avoid adverse effects on aquatic and/or aquatic-dependent listed species and their designated critical habitat. You must check in [Section VI](#) that you are unable to make a determination of no likely adverse effects, and must complete the rest of the form. You must submit your completed form to EPA for assistance in determining your eligibility for coverage.

B. Analysis of Effects Based on Past Monitoring Data. Select which of the following applies to your facility:

- I have no previous monitoring data for my facility because there are no applicable monitoring requirements for my facility's sector(s).
- I have no previous monitoring data for my facility because I am a new discharger or a new source, but I am subject to monitoring under the 2015 MSGP. You must provide information to support a conclusion that your facility's discharges are not expected to result in benchmark or numeric effluent limit exceedances that will adversely affect listed species or their critical habitat:
- My facility has not had any exceedances under the 2008 MSGP of any required benchmark(s) or numeric effluent limits.
- My facility has had exceedances of one or more benchmark(s) or numeric effluent limits under the 2008 MSGP, but I have addressed them during my coverage under the 2008 MSGP, or in my evaluation of controls to avoid adverse effects in (A) above. Describe all actions (including specific controls) that you will implement to ensure that the pollutants in your discharge(s) will not result in likely adverse effects from future exceedances.
- Check if your facility has had exceedances of one or more benchmarks or numeric effluent limits under the 2008 MSGP and you have not been able to address them to avoid adverse effects from future exceedances, or if you are a new discharger or a new source but you are not sure if you can avoid adverse effects from possible exceedances. You must check in [Section VI](#) that you are unable to make a determination of no likely adverse effects. You must submit your completed form to EPA for assistance in determining your eligibility for coverage. You may not file your NOI for permit coverage until you are able to make a determination that your discharges will avoid adverse effects on listed species and designated critical habitat.

SECTION VI VERIFICATION OF PRELIMINARY EFFECTS DETERMINATION

Based on Steps I – V of this form, you must verify your preliminary determination of effects on listed species and designated critical habitat from your discharges and/or discharge-related activities :

- Following the applicable Steps in I – V above, I have made a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.
- Following the applicable Steps in I – V above, I am **not** able to make a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.

Certification Information

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

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name:

Title:

Signature: _____ Date: / /

E-mail:

SECTION VII CRITERION C ELIGIBILITY FORM SUBMISSION INSTRUCTIONS

You must submit this completed form to EPA at msgpesa@epa.gov, including any attachments and any additional information that demonstrates how you will avoid or eliminate adverse effects to listed species or critical habitat (e.g., specific controls you will implement to avoid or eliminate adverse effects). **Any missing or incomplete information may result in a delay of your coverage under the permit.**

If you have made a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this form must be submitted a minimum of 30 days prior to submitting your NOI for permit coverage under criterion C. Please note that during either the 30-day *Criterion C Eligibility Form* review period prior to your NOI submission, or within 30 days after your NOI submission and before you have been authorized for permit coverage, EPA may advise you that additional information is needed, or that there are additional measures you must implement to avoid likely adverse effects.

If you are unable to make a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this worksheet must be submitted to EPA, but you may not file your NOI for permit coverage until you have received a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Attachment 1

Include a map **and a written description** of the action area of your facility, as required in [Step 2](#). You may choose to include the map that is generated from the FWS' on-line mapping tool IPaC (the *Information, Planning, and Consultation System*) located at <http://ecos.fws.gov/ipac/>.

The written description of your action area that accompanies your action area map must explain your rationale for the extent of the action area drawn on your map. For example, your action area written description may look something like this:

The action area for the (name of your facility)'s stormwater discharges extends downstream from the outfall(s) in (name of receiving waterbody) (# of meters/feet/kilometers/miles). The downstream limit of the action area reflects the approximate distance at which the discharge waters and any pollutants would be expected to cause potential adverse effects to listed species and/or critical habitat because (insert rationale). The action area does/does not extend to the (name of receiving waterbody)'s confluence with (name of confluence waterbody) because (insert rationale).

Note that your action area written description will be highly site-specific, depending on the expected effects of your facility's discharges and discharge-related activities, receiving waterbody characteristics, etc.

Attachment 2

List or attach the listed species and critical habitat in your action area on this sheet, as required in [Step 3](#). You must include a list for applicable listed NMFS and FWS species and critical habitat. If there are listed species and/or critical habitat for only one Service, you must include a statement confirming there are no listed species and/or critical habitat for the other Service. For FWS species, include the full printout from your IPaC query. *Note: If your Official Species List from the USFWS indicated no species or critical habitat were present in your action area, include the full consultation tracking code at the top of your Official Species List in your NOI submittal in the question "Provide a brief summary of the basis for the criterion selected in Appendix E." If an Official Species List was not available on IPaC, list the contact date and name of the Service staff with whom you corresponded to identify the existence of any USFWS species or critical habitat present in your action area.*



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 03301
PHONE: (603)223-2541 FAX: (603)223-0104
URL: www.fws.gov/newengland

Consultation Code: 05E1NE00-2015-SLI-1295

July 31, 2015

Event Code: 05E1NE00-2015-E-01716

Project Name: Ayer Wastewater Treatment Plant

Subject: List of threatened and endangered species that may occur in your proposed project location, and/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



United States Department of Interior
Fish and Wildlife Service

Project name: Ayer Wastewater Treatment Plant

Official Species List

Provided by:

New England Ecological Services Field Office

70 COMMERCIAL STREET, SUITE 300

CONCORD, NH 03301

(603) 223-2541

<http://www.fws.gov/newengland>

Consultation Code: 05E1NE00-2015-SLI-1295

Event Code: 05E1NE00-2015-E-01716

Project Type: WATER QUALITY MODIFICATION

Project Name: Ayer Wastewater Treatment Plant

Project Description: 25 Brook Street, Ayer, MA. Existing developed and permitted municipal wastewater treatment plant for the Town of Ayer. The facility is seeking renewal of the US EPA NPDES Multi-Sector General Permit (MSGP) for industrial stormwater discharges, effective June 4, 2015. Stormwater discharges to wetlands abutting Nonacoicus Brook.

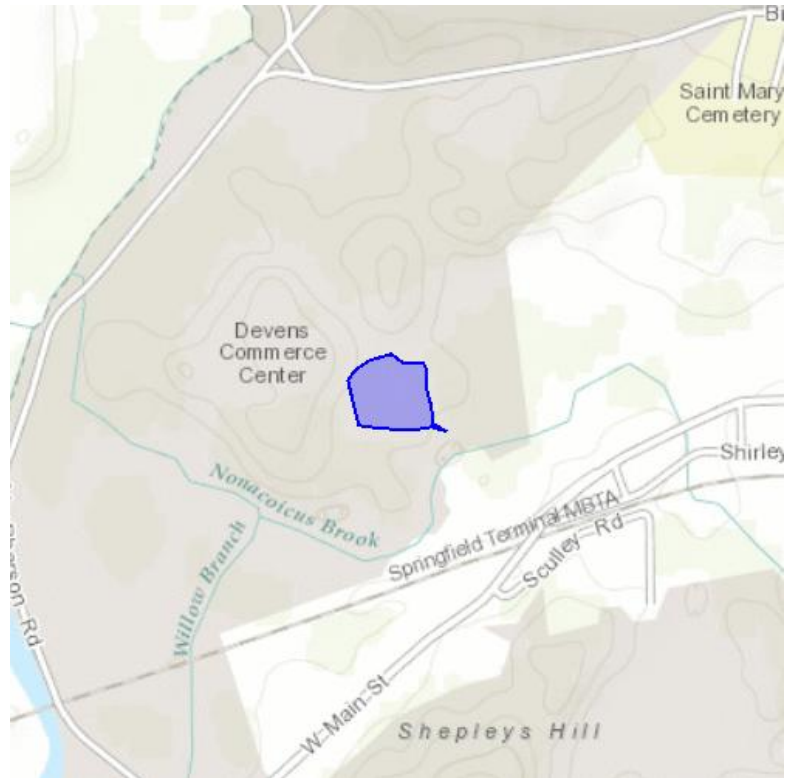
Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior
Fish and Wildlife Service

Project name: Ayer Wastewater Treatment Plant

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-71.60357058048248 42.56108513868108, -71.60405123220698 42.56097134406996, -71.60437309745248 42.560806973703, -71.60451900952467 42.560658407804134, -71.60427010056083 42.55992189518293, -71.60380232340685 42.5598681578444, -71.60304701308633 42.559839708731545, -71.60267794119136 42.559883962941676, -71.60233890990638 42.55981758143383, -71.60263931731606 42.559944022202465, -71.60266077498817 42.56020954703084, -71.6027594804109 42.56049719767321, -71.60275518894196 42.560816456595056, -71.60283243636513 42.56092709057077, -71.603287339276 42.56093025154896, -71.60357058048248 42.56108513868108)))

Project Counties: Middlesex, MA



United States Department of Interior
Fish and Wildlife Service

Project name: Ayer Wastewater Treatment Plant

Endangered Species Act Species List

There are a total of 1 threatened or endangered species on your 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. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Mammals	Status	Has Critical Habitat	Condition(s)
Northern long-eared Bat (<i>Myotis septentrionalis</i>)	Threatened		



United States Department of Interior
Fish and Wildlife Service

Project name: Ayer Wastewater Treatment Plant

Critical habitats that lie within your project area

There are no critical habitats within your project area.

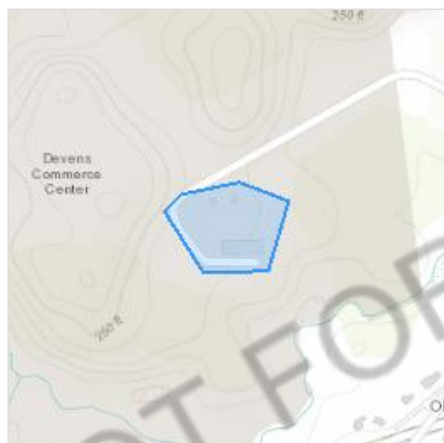
IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Middlesex County, Massachusetts



Local office

New England Ecological Services Field Office

☎ (603) 223-2541

📅 (603) 223-0104

70 Commercial Street, Suite 300
Concord, NH 03301-5094

<http://www.fws.gov/newengland>

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [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.

The following species are potentially affected by activities in this location:

Mammals

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

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE

RANGE. "BREEDS ELSEWHERE"
INDICATES THAT THE BIRD DOES NOT
LIKELY BREED IN YOUR PROJECT
AREA.)

<p>Bald Eagle <i>Haliaeetus leucocephalus</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p>https://ecos.fws.gov/ecp/species/1626</p>	Breeds Oct 15 to Aug 31
<p>Black-billed Cuckoo <i>Coccyzus erythrophthalmus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p>https://ecos.fws.gov/ecp/species/9399</p>	Breeds May 15 to Oct 10
<p>Bobolink <i>Dolichonyx oryzivorus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds May 20 to Jul 31
<p>Canada Warbler <i>Cardellina canadensis</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds May 20 to Aug 10
<p>Prairie Warbler <i>Dendroica discolor</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds May 1 to Jul 31
<p>Red-headed Woodpecker <i>Melanerpes erythrocephalus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds May 10 to Sep 10
<p>Rusty Blackbird <i>Euphagus carolinus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds elsewhere
<p>Wood Thrush <i>Hylocichla mustelina</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds May 10 to Aug 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a

level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

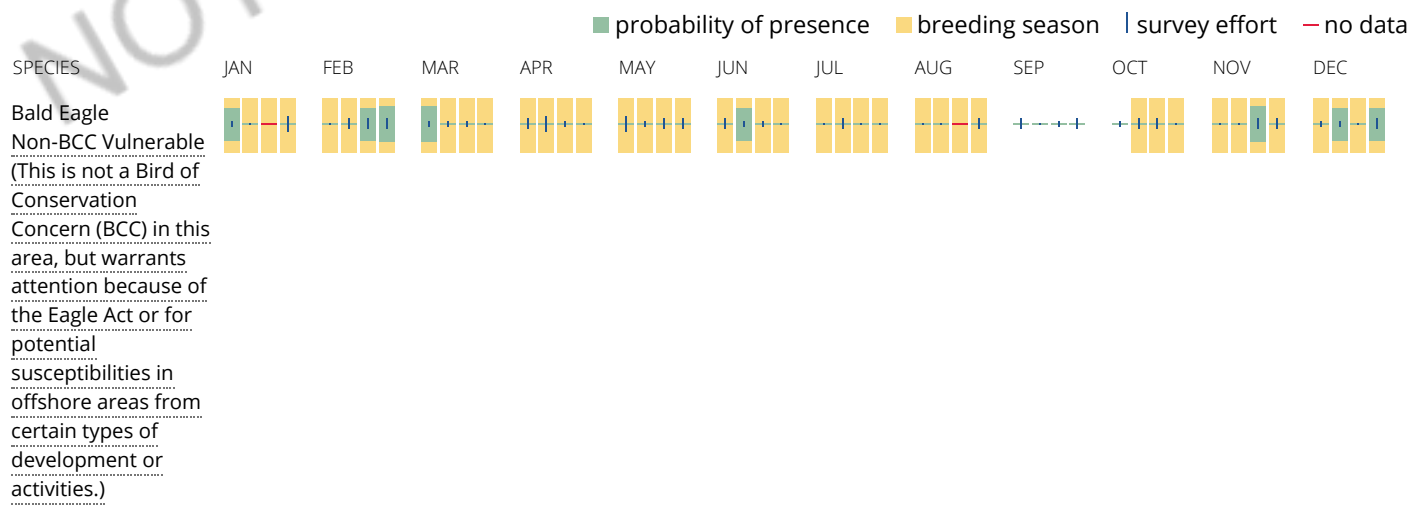
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

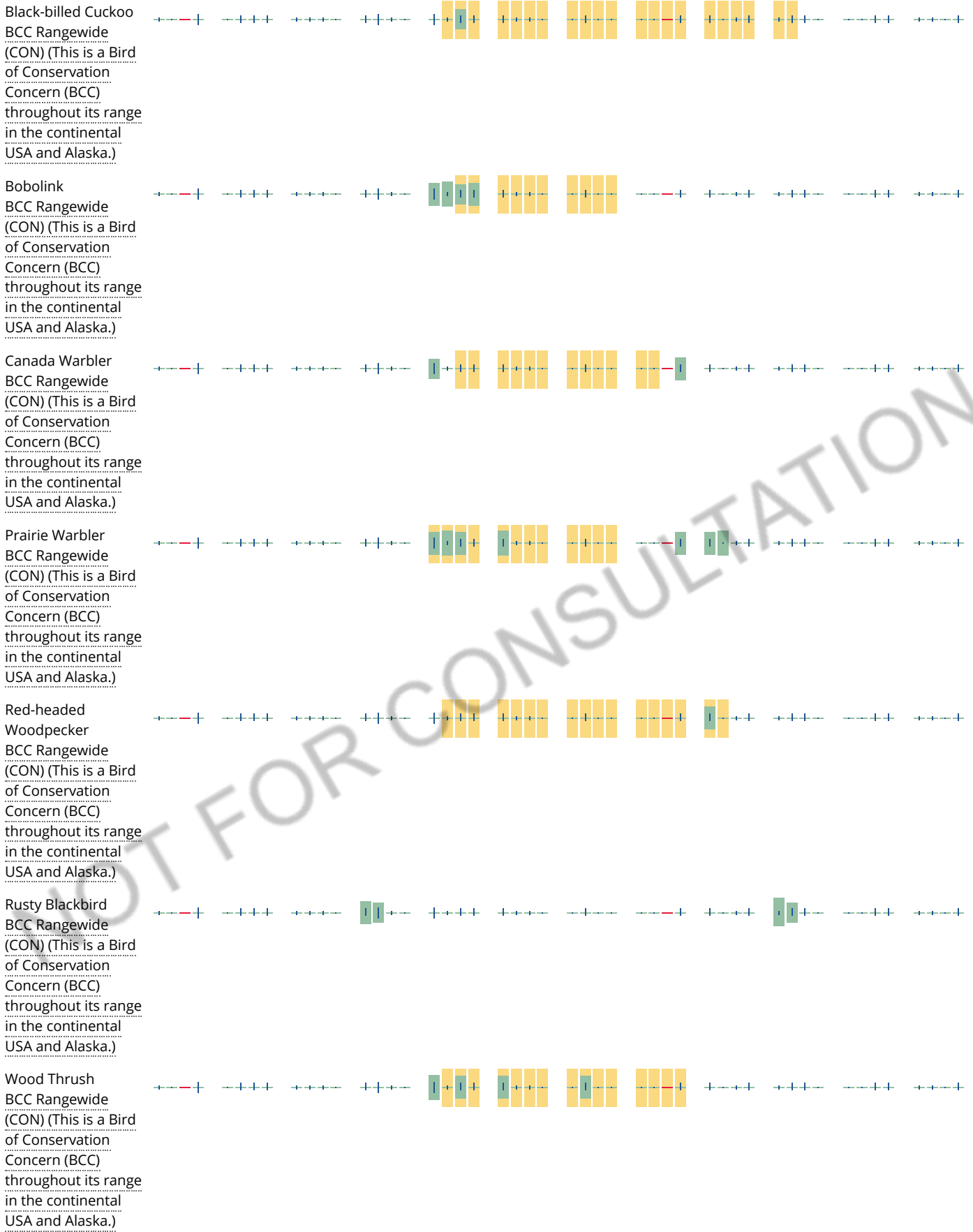
No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

Wildlife refuges and fish hatcheries

REFUGE AND FISH HATCHERY INFORMATION IS NOT AVAILABLE AT THIS TIME

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

WETLAND INFORMATION IS NOT AVAILABLE AT THIS TIME

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Attachment E – 2021 MSGP

**Attachment F – Additional 2021 MSGP
Documentation**

Additional MSGP Documentation

for:

Wastewater Treatment Facility
End of Brook Street
Ayer, MA, 01432
(978) 772-8240
MAR053429

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A. EMPLOYEE TRAINING

Training Date: Insert Date of Training	
Training Description: Insert Description of Training	
Trainer(s): Insert Trainer Name(s)	
Employee(s) Trained:	Employee Signature
Insert Name	
Insert Name	
Insert Name	
Insert Name	
Insert Name	
Insert Name	

Training Date: Insert Date of Training	
Training Description: Insert Description of Training	
Trainer(s): Insert Trainer Name(s)	
Employee(s) Trained:	Employee Signature
Insert Name	
Insert Name	
Insert Name	
Insert Name	
Insert Name	
Insert Name	

Training Date: Insert Date of Training	
Training Description: Insert Description of Training	
Trainer(s): Insert Trainer Name(s)	
Employee(s) Trained:	Employee Signature
Insert Name	
Insert Name	
Insert Name	
Insert Name	
Insert Name	
Insert Name	

B. MAINTENANCE

Stormwater Control Measure Maintenance Records (copy information below for each stormwater control measure)

Stormwater Control Measure: Grit Dumpster Cover

Regular Maintenance Activities: Inspect for defects, ways stormwater can enter

Regular Maintenance Schedule: Quarterly

Date of Maintenance Action: Insert Date of Action

Reason for Action: Regular Maintenance Discovery of Problem

If Problem,

- **Description of Action Required:** Describe Actions Taken in Response to Problem
- **Date Control Measure Returned to Full Function:** Insert Date
- **Justification for Extended Schedule, if applicable:** Insert Justification (if applicable)

Notes: Insert Notes (if applicable)

Stormwater Control Measure: Catch Basin Inspections and Cleaning, Riprap at Outfall

Regular Maintenance Activities: Inspect for sediment buildup, missing riprap

Regular Maintenance Schedule: Annually

Date of Maintenance Action: Insert Date of Action

Reason for Action: Regular Maintenance Discovery of Problem

If Problem,

- **Description of Action Required:** Describe Actions Taken in Response to Problem
- **Date Control Measure Returned to Full Function:** Insert Date
- **Justification for Extended Schedule, if applicable:** Insert Justification (if applicable)

Notes: Insert Notes (if applicable)

Stormwater Control Measure: Oil/Water Separator

Regular Maintenance Activities: Inspect for oil level, clean as required

Regular Maintenance Schedule: Semi-Annually

Date of Maintenance Action: Insert Date of Action

Reason for Action: Regular Maintenance Discovery of Problem

If Problem,

- **Description of Action Required:** Describe Actions Taken in Response to Problem
- **Date Control Measure Returned to Full Function:** Insert Date
- **Justification for Extended Schedule, if applicable:** Insert Justification (if applicable)

Notes: Insert Notes (if applicable)

Industrial Equipment and Systems Maintenance Records (copy information below for each industrial equipment/system)

Industrial Equipment/System: Chemical Fill Pipes, Lines and Connections

Regular Maintenance Activities: Inspect for leaks

Regular Maintenance Schedule: Quarterly, during facility assessment

Date of Maintenance Action: [Insert Date of Action](#)

Reason for Action: Regular Maintenance Discovery of Problem

If Problem,

- Description of Action Required: [Describe Actions Taken in Response to Problem](#)
- Date Industrial Equipment Returned to Full Function: [Insert Date](#)
- Justification for Extended Schedule, if applicable: [Insert Justification \(if applicable\)](#)

Notes: [Insert Notes \(if applicable\)](#)

Industrial Equipment/System: [Hydraulic Equipment on Sludge Container](#)

Regular Maintenance Activities: [Inspect for leaks](#)

Regular Maintenance Schedule: [Quarterly, during facility assessment](#)

Date of Maintenance Action: [Insert Date of Action](#)

Reason for Action: Regular Maintenance Discovery of Problem

If Problem,

- Description of Action Required: [Describe Actions Taken in Response to Problem](#)
- Date Industrial Equipment Returned to Full Function: [Insert Date](#)
- Justification for Extended Schedule, if applicable: [Insert Justification \(if applicable\)](#)

Notes: [Insert Notes \(if applicable\)](#)

Industrial Equipment/System: [Outdoor Electrical Equipment \(e.g. transformers\)](#)

Regular Maintenance Activities: [Inspect for leaks](#)

Regular Maintenance Schedule: [Quarterly, during facility assessment](#)

Date of Maintenance Action: [Insert Date of Action](#)

Reason for Action: Regular Maintenance Discovery of Problem

If Problem,

- Description of Action Required: [Describe Actions Taken in Response to Problem](#)
- Date Industrial Equipment Returned to Full Function: [Insert Date](#)
- Justification for Extended Schedule, if applicable: [Insert Justification \(if applicable\)](#)

Notes: [Insert Notes \(if applicable\)](#)

Industrial Equipment/System: [Diesel Generator](#)

Regular Maintenance Activities: [Inspect for leaks](#)

Regular Maintenance Schedule: [Quarterly, during facility assessment](#)

Date of Maintenance Action: [Insert Date of Action](#)

Reason for Action: Regular Maintenance Discovery of Problem

If Problem,

- Description of Action Required: [Describe Actions Taken in Response to Problem](#)
- Date Industrial Equipment Returned to Full Function: [Insert Date](#)
- Justification for Extended Schedule, if applicable: [Insert Justification \(if applicable\)](#)

Notes: [Insert Notes \(if applicable\)](#)

C. ROUTINE FACILITY INSPECTION REPORTS

Stormwater Industrial Routine Facility Inspection Report

General Information			
Facility Name	Ayer WWTP		
NPDES ID.	MAR04-1179		
Date of Inspection	Insert Date	Start/End Time	Insert Start/End Time
Inspector Name(s)	Insert Name(s)		
Inspector Title(s)	Insert Title(s)		
Inspector Contact Information	Insert Contact Information		
Inspector Qualifications	Insert Qualifications or Add Reference to the SWPPP		
Weather Information			
Weather at time of this inspection?			
<input type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Fog <input type="checkbox"/> Snow <input type="checkbox"/> High Winds <input type="checkbox"/> Other: _____ Temperature: _____			
Observations			
Have any previously unidentified discharges of pollutants occurred since the last inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: Describe			
Are there any discharges occurring at the time of inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: Describe			

Stormwater Control Measures

- Number the structural stormwater control measures identified in your SWPPP on your site map and list them below (add as many control measures as are implemented on-site). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required control measures at your facility.
- Identify if maintenance or corrective action is needed.
 - If maintenance is needed, fill out section B of this template
 - If corrective action is needed, fill out section G of this template

	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Maintenance or Corrective Action Needed and Notes
1	Grit Dumpster Cover	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Describe Maintenance and/or Corrective Actions Needed
2	Catch Basins	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Describe Maintenance and/or Corrective Actions Needed
3	Riprap at Outfall	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Describe Maintenance and/or Corrective Actions Needed
4	Insert Control Measure Name	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Describe Maintenance and/or Corrective Actions Needed

	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Maintenance or Corrective Action Needed and Notes
5	Insert Control Measure Name	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Describe Maintenance and/or Corrective Actions Needed
6	Insert Control Measure Name	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Describe Maintenance and/or Corrective Actions Needed
7	Insert Control Measure Name	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Describe Maintenance and/or Corrective Actions Needed
8	Insert Control Measure Name	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Describe Maintenance and/or Corrective Actions Needed
9	Insert Control Measure Name	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Describe Maintenance and/or Corrective Actions Needed
10	Insert Control Measure Name	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Describe Maintenance and/or Corrective Actions Needed

Areas of Industrial Materials or Activities Exposed to Stormwater

Below are some general areas that should be assessed during routine inspections. Customize this list as needed for the specific types of industrial materials or activities at your facility that are potential pollutant sources. Identify if maintenance or corrective action is needed. If maintenance is needed, fill out section B of this template. If corrective action is needed, fill out section G of this template.

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective and operating)?	Maintenance or Corrective Action Needed and Notes
1	Material loading/unloading and storage areas	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
2	Equipment operations and maintenance areas	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
3	Fueling areas	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
4	Outdoor vehicle and equipment washing areas	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
5	Waste handling and disposal areas	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
6	Erodible areas/construction	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
7	Non-stormwater/illicit connections	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective and operating)?	Maintenance or Corrective Action Needed and Notes
8	Salt storage piles or pile containing salt	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
9	Dust generation and vehicle tracking	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
10	Processing areas	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
11	Areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
12	Immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
13	Chemical Fill Pipes, connections	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
14	Hydraulic equipment on sludge container	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
15	Outdoor electrical equipment	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed
16	Diesel Generator	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Maintenance and/or Corrective Actions Needed

Discharge Points

At discharge points, describe any evidence of, or the potential for, pollutants entering the stormwater drainage system. Also describe observations regarding the physical condition of and around all stormwater discharge points, including any flow dissipation devices, and evidence of pollutants in discharges and/or the receiving water. Identify if any corrective action is needed.

[Describe Discharge Point Observations](#)

Discharges/Pollutants

Describe any previously unidentified stormwater discharges from and/or pollutants:
[Describe Discharges and/or Pollutants](#)

Non-Compliance

Describe any incidents of non-compliance observed and not described above:
[Describe Non-compliance](#)

Additional Control Measures

Describe any additional control measures needed to comply with the permit requirements:
[Describe Additional Controls Needed](#)

Notes

Use this space for any additional notes or observations from the inspection:
[Additional Notes](#)

CERTIFICATION STATEMENT

“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 and Title: _____

Signature: _____ **Date Signed:** _____

D. VISUAL ASSESSMENT DOCUMENTATION

MSGP Visual Assessment Form

(Complete a separate form for each discharge point you assess)

Name of Facility: Ayer WWTP NPDES ID. MAR04-1179

Sample Location: Outfall-01 "Substantially Identical Discharge Point" (SIDP)? Yes (identify SIDPs): No

Person(s)/Title(s) Collecting Sample: Enter Name(s)/Title(s)

Signature(s) of Person(s) Collecting Sample: _____

Person(s)/Title(s) Examining Sample: Enter Name(s)/Title(s)

Signature(s) of Person(s) Examining Sample: _____

Date & Time Discharge Began: Enter Date and Time Date & Time Sample Collected: Enter Date and Time. If sample not taken within first 30 minutes, explain why. Date & Time Sample Examined: Enter Date and Time

Substitute Sample? No Yes* (identify quarter/year when sample was originally scheduled to be collected): _____

Is this a substitute sample for quarterly visual assessments distributed during seasons when precipitation more regularly occurs? No Yes* (identify the quarter/year when the sample was originally scheduled to be collected): _____

Nature of Discharge: Rainfall Snowmelt

If Rainfall: Rainfall Amount: Number of inches Previous Storm Ended > 72 hours (three days) Before Start of This Storm? Yes No**
(describe): _____

Pollutants Observed

Color None Other (describe): _____

Odor None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe): _____

Clarity Clear Slightly Cloudy Cloudy Opaque Other

Floating Solids No Yes (describe): _____

Settled Solids*** No Yes (describe): _____

Suspended Solids No Yes (describe): _____

Foam (gently shake sample) No Yes (describe): _____

Oil Sheen None Flecks Globs Sheen Slick Other (describe): _____

Other Obvious Indicators of Stormwater Pollution No Yes (describe): _____

* Your facility must be located in an area where limited rainfall occurs during many parts of the year (e.g., arid or semi-arid climate) or in an area where freezing conditions exist that prevent discharges from occurring for extended periods. Identify the quarter/year when the sample was originally scheduled to be collected.

** The 72-hour (three day) interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour (three day) interval is representative of local storm events during the sampling period.

*** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No Yes (explain): _____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
 No Yes (explain): _____

Identify probable sources of any observed stormwater contamination. Also, include any additional comments, descriptions of pictures taken, and any corrective actions necessary below (attach additional sheets as necessary). [Insert details](#)

Certification Statement (Refer to MSGP Appendix B, Part B.11 for Signatory Requirements)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information 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.

A. Name: _____

B. Title: _____

C. Signature: _____

D. Date Signed: _____

E. MONITORING RESULTS

F. DEVIATIONS FROM VISUAL ASSESSMENT AND/OR MONITORING SCHEDULE

Date: [Insert Date](#)

Visual Assessments Monitoring

Describe Deviation from Schedule: [Describe Deviation](#)

Reason for deviation: [Describe Reason](#)

Date: [Insert Date](#)

Visual Assessments Monitoring

Describe Deviation from Schedule: [Describe Deviation](#)

Reason for Deviation: [Describe Reason](#)

Date: [Insert Date](#)

Visual Assessments Monitoring

Describe Deviation from Schedule: [Describe Deviation](#)

Reason for Deviation: [Describe Reason](#)

Date: [Insert Date](#)

Visual Assessments Monitoring

Describe Deviation from Schedule: [Describe Deviation](#)

Reason for Deviation: [Describe Reason](#)

G. CORRECTIVE ACTION AND AIM DOCUMENTATION

Description of Condition: Insert Description of Condition or Event Triggering Need for Corrective Action Review and/or AIM Response

For Spills and Leaks:

Description of Incident: Insert Description

Material: Insert Description of Material

Date/Time: Insert Date/Time

Amount: Insert Amount of Spill/Leak

Location: Insert Location of Spill/Leak

Reason for Spill: Insert Reason for Spill/Leak

Discharge to Waters of U.S.: Insert Whether Spill/Leak/Other Release Discharged to a Water of the U.S.

Date: Insert Date Condition/Triggering Event was Identified

Immediate Actions: Insert Description of Immediate Actions Taken

Actions Taken within 14 Days: Insert Description of Corrective Actions and/or AIM Responses Taken Within 14 days of Discovery of Condition/Triggering Event

14 Day Infeasibility: If Applicable, Document Why It Is Infeasible to Complete Necessary Corrective Actions and/or AIM Responses Within 14 Day Timeframe and Describe Schedule

45 Day Extension: If Applicable, Document Rationale Provided to EPA for Extension of 45 Day Timeframe

Description of Condition: Insert Description of Condition or Event Triggering Need for Corrective Action Review and/or AIM Response

For Spills and Leaks:

Description of Incident: Insert Description

Material: Insert Description of Material

Date/Time: Insert Date/Time

Amount: Insert Amount of Spill/Leak

Location: Insert Location of Spill/Leak

Reason for Spill: Insert Reason for Spill/Leak

Discharge to Waters of U.S.: Insert Whether Spill/Leak/Other Release Discharged to a Water of the U.S.

Date: Insert Date Condition/Triggering Event was Identified

Immediate Actions: Insert Description of Immediate Actions Taken

Actions Taken within 14 Days: Insert Description of Corrective Actions and/or AIM Responses Taken Within 14 days of Discovery of Condition/Triggering Event

14 Day Infeasibility: If Applicable, Document Why It Is Infeasible to Complete Necessary Corrective Actions and/or AIM Responses Within 14 Day Timeframe and Describe Schedule

45 Day Extension: If Applicable, Document Rationale Provided to EPA for Extension of 45 Day Timeframe

H. BENCHMARK THRESHOLD EXCEEDANCES

Date: [Insert Date](#)

Pollutant Exceeded and Results: [Insert Pollutant Name](#)

Sample 1 (Sample date: [Insert Sample Date](#)) Result: [Insert Sample Result](#)

Sample 2 (Sample date: [Insert Sample Date](#)) Result: [Insert Sample Result](#)

Sample 3 (Sample date: [Insert Sample Date](#)) Result: [Insert Sample Result](#)

Sample 4 (Sample date: [Insert Sample Date](#)) Result: [Insert Sample Result](#)

Average Result: [Insert Value](#)

Benchmark Value: [Insert Benchmark Value from 2021 MSGP](#)

AIM Level Triggered (select one)

[AIM Level 1](#) (quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred)

[AIM Level 2](#) (continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred)

[AIM Level 3](#) (continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred)

AIM Response Taken: Document AIM response taken in section G of this Template

Do You Qualify for an Exception from AIM Requirements and Continued Benchmark Monitoring?

Yes (indicate the exception below) No

Exception(s): (if applicable)

Solely Attributable to Natural Background Pollutant Levels

Pollutant(s): [Insert Pollutant](#)

Maintain supporting rationale and applicable data as required in Part 5.2.6.1

Due to Run-On

Pollutant(s): [Insert Pollutant](#)

Attach documentation and concurrence from EPA Regional Office required in Part 5.2.6.2

Due to An Abnormal Event

Pollutant(s): [Insert Pollutant](#)

Attach documentation required in Part 5.2.6.3

Demonstrated to Not Result in An Exceedance of Facility-Specific Value Using National Recommended Water Quality Criteria in Lieu of Applicable MSGP Benchmark Threshold (For Aluminum and Copper Benchmark Parameters Only)

Pollutant(s): [Insert Pollutant](#)

Attach documentation and concurrence from EPA Regional Office required in Part 5.2.6.4

Demonstrated Not to Result in Any Exceedance of Water Quality Standards

Pollutant(s): [Insert Pollutant](#)

Attach documentation and concurrence from EPA Regional Office required in Part 5.2.6.5

I. IMPAIRED WATERS MONITORING: DOCUMENTATION OF NATURAL BACKGROUND SOURCES OR NON-PRESENCE/ACCEPTABLE RANGE OF IMPAIRMENT POLLUTANT

Date: [Insert Date](#)

Check one of the boxes below and complete the additional documentation:

1 – Pollutant(s) for which the water is impaired is not present in your discharge or is within the acceptable range for a given parameter for the waterbody to meet its designated use.

Attach documentation that the impairment pollutant(s) was not detected in your discharge sample(s) or was detected within an acceptable range.

2 – Pollutant(s) for which the water is impaired is present, but you have determined its presence is caused solely by natural background sources.

Attach the following documentation:

- An explanation of why you believe that the presence of the pollutant(s) causing the impairment in your discharge is not related to the activities at your facility; and
Data and/or studies that tie the presence of the pollutant(s) causing the impairment in your discharge to natural background sources in the watershed.

J. ACTIVE/INACTIVE STATUS CHANGE

Date: [Insert Date of Change in Status](#)

New Facility Status: Inactive and Unstaffed Active

Reason for Change in Status: [Describe Reason](#)

K. SWPPP AMENDMENT LOG

Amend. No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title(s)]
1	Insert Description of Amendment	Insert Date	Insert Name(s)/Title(s)
2	Insert Description of Amendment	Insert Date	Insert Name(s)/Title(s)
3	Insert Description of Amendment	Insert Date	Insert Name(s)/Title(s)
4	Insert Description of Amendment	Insert Date	Insert Name(s)/Title(s)
5	Insert Description of Amendment	Insert Date	Insert Name(s)/Title(s)
6	Insert Description of Amendment	Insert Date	Insert Name(s)/Title(s)
7	Insert Description of Amendment	Insert Date	Insert Name(s)/Title(s)
8	Insert Description of Amendment	Insert Date	Insert Name(s)/Title(s)
9	Insert Description of Amendment	Insert Date	Insert Name(s)/Title(s)
10	Insert Description of Amendment	Insert Date	Insert Name(s)/Title(s)

L. MISCELLANEOUS DOCUMENTATION