

**Storm Water
Pollution Prevention Plan**

MARTHA'S VINEYARD SHIPYARD

**MARTHA'S VINEYARD SHIPYARD
164 Beach Road, P. O. Box 1119
Vineyard Haven, MA 02568-1119
508-693-0400**

SIC Code 3732 & 4493

EPA ID# MAD001026574

March 2021

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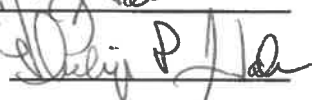
CERTIFICATIONS & SIGNATURES MARTHA'S VINEYARD SHIPYARD

Part 6.2.7 of the EPA Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity requires that the plan be signed by a "responsible corporate officer" or a duly authorized representative for the above named facility must be identified and must sign the following certification statement:

OPERATOR'S SIGNATORY CERTIFICATION

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 the qualified personnel properly gathered and evaluated the information contained therein. Based upon 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."

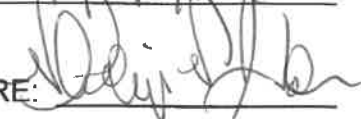
NAME: Philip P. Hale TITLE: President
SIGNATURE:  DATE: 3/25/2021

NON-STORM WATER DISCHARGES

EPA Multi-Sector General Permit requires that the plan includes the following certification with respect to non-storm water discharges.

Certification Statement:

"I certify to the best of my abilities that the discharge from the areas of the site involved in industrial activities consists only of stormwater. This certification is based on my knowledge of the facility, discussions with facility personnel and my personal inspection of the site, including my evaluation of the storm water discharge at the site."

NAME: Philip P. Hale TITLE: President
SIGNATURE:  EVALUATION DATE: 3/25/2021

**REVISIONS TO THE
STORM WATER POLLUTION PREVENTION PLAN**

Date	Description of Revision	Authorized Signature

MARTHA'S VINEYARD SHIPYARD
164 Beach Road, P. O. Box 1119
Vineyard Haven, MA 02568-1119
Tel. 508-693-0400

I. GENERAL INFORMATION

A. PURPOSE OF STORM WATER POLLUTION PREVENTION PLAN

The purpose of the storm water pollution prevention plan (SWPPP) is to identify potential sources of pollution or contamination that originate at Martha's Vineyard Shipyard, and to select and implement actions which prevent or minimize the release of pollutants into the storm water. The storm water management controls included in this SWPPP focus on providing adequate control of pollutant discharges with practical approaches that utilize readily available techniques, expertise, material and equipment.

This SWPPP should be a living document, it is intended to be a flexible, active operations plan to allow incorporation of changes and management practices. As this plan is implemented and methods to improve the plan are found, or as regulations change, this plan must be revised. Revisions to this plan must be approved by management and recorded in all copies of this plan in order to keep up to date and meet the requirements of the Storm Water Permit. A table summarizing the revisions is located in the front of this document. The revision form has a place for the authorized signature.

B. PROCEDURAL REQUIREMENTS

The operator must comply with the following requirements of the Multi-sector General Permit:

- a. A signed copy of the SWPPP must be retained at the facility.
- b. The operator must conduct inspections of the facility to assure compliance with this storm water pollution prevention plan. Based on inspection results, the pollution prevention control techniques may be modified as necessary to assure that storm water or the authorized and identified non-storm water discharges are the only discharges leaving the facility.
- c. This SWPPP will be updated whenever there is a change in design, construction, operation or maintenance, which has an effect on the potential for pollutants to enter the storm water discharge. Modifications

to this plan must be made within 14 days if notified that the plan does not meet the minimum requirements.

- d. Any corrective action warranting repairs or modifications at the facility will be added to the plan if needed. Corrective actions are to be documented immediately and within a 14-day response period. This information is to be kept with the plan and also summarized in the annual report.
- e. This SWPPP and inspection reports must be retained for at least three years from the date that the permit expires.
- f. A sign must be posted stating our permit coverage at a safe, publicly accessible location in close proximity to our facility.

C. FACILITY OWNER / OPERATOR / SITE INFORMATION

Martha's Vineyard Shipyard is in the business of boat building and repair, engine repair, fuel sales, storage and dockage. In connection with this activity, the operations conducted at this facility are minor painting and fiberglass repair, welding, engine and pump winterizing, engine repair and lubrication, pressure washing, sandblasting, launching and dockage of boats, and the hauling in of boats.

In addition, the facility also has a hazardous waste storage area, materials unloading areas (from trucks), and employee parking areas.

The operator:

Martha's Vineyard Shipyard
164 Beach Road
Vineyard Haven, MA 02568-1119
Tel. 508-693-0400

The owner is:

Martha's Vineyard Shipyard
164 Beach Road, P. O. Box 1119
Vineyard Haven, MA 02568-1119
Tel. 508-693-0400

Facility SIC Code: 3732 & 4493
EPA ID # MAD001026574
NPDES ID # MAR052016

Location: Latitude: N 41° 27.2"
 Longitude: W 70° 35.5"

Receiving Water Body: Lagoon Pond (TMDL #64583, #64584)
*(Impaired with Nitrogen (Total), Dissolved Oxygen,
Estuarine Bioassessments,
Nutrient/Eutrophication Biological Indicators)*

Martha's Vineyard Shipyard sits on approximately two (2.0) acres of land.

There are three buildings on the property.

The buildings total approx. 46,528 sq. ft. of roof coverage.

All the buildings have gutters.

There is 380' of water frontage.

The paved area covers approximately 8,000 sq. ft.

The sewer lines are hooked into the town's system.

Hazardous waste containment area is in a special purposed building.

During the past couple years, we have re-built foundations, installed new roofs and re-wired many of the boat storage buildings.

We shall have a Permit Coverage sign posted: On the street entering our property.

II. POLLUTION PREVENTION TEAM

The Pollution Prevention Team is responsible for assisting the facility or yard manager in the implementation, maintenance, and revision of the storm water pollution prevention plan.

The Pollution Prevention Team for Martha's Vineyard Shipyard includes:

Team Leader

James Hale

Tel. 508-889-3821

Supervise and direct team during season. Perform any duties relating to improvements in BMP practices at the yard. Also overseeing monitoring, controlling, sampling, inspections and problem solving. Implement, check and enforce BMP's and make reports.

Team Members

Philip P. Hale, President

508-733-4890

Assist in the absence of Team Leader. Responsible for the implementation of plan and revisions. Responsible for preventative maintenance, monitoring and sampling.

III. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES

A. Drainage

The storm water discharges from this facility to the outfalls are as delineated on the facility site map (see **Attachment 1**). The site map shows information on drainage areas, structural controls, surface water bodies and material exposure locations of the facility.

There are three (3) outfalls that are located on the property. Two outfalls (#001 and #002) are at the two storm drains situated near the roadway going through the property. One is near the roadway in front of the office. The other is near the roadway in front of the Boat Storage Building. Both discharge to Lagoon Pond. The third outfall (#003) is on the east side of the property and discharges at the launching ramp to Lagoon Pond.

Also, we have added to the concrete boat ramps on the east side of the property.

The drainage area is 25% impervious. (concrete)

The estimated runoff coefficient is .3 for this location.

The industrial activity within the drainage area includes:

- Near the railways – sandblasting; painting; welding
- Near the travel lift – bottom washing
- Fueling areas – fueling of yard equipment and vessels (6 gal. Fuel container only)

The types of pollutants with a reasonable potential for discharge occurring in storm water in significant amounts include:

<u>Type of Pollutant</u>	<u>Location in Facility</u>	<u>Direction of Flow</u>
Lubricating Fluids	Main Yard, Parts Dept., Mechanic Shop	Southeast
Diesel Fuel	Yard Equipment & Boats	Southeast
Unleaded Gasoline	Vehicle and Yard Equip.	Southeast
Paint	Railway	Southeast
Sulfuric Acid (Batteries)	" , Battery Storage Area, Parts Dept., Boats	Southeast

Mineral Spirits	“ , Mechanic Shop	Southeast
Metals	Main Yard, Railways, Mechanic	Southeast
<i>Steel, Tin, Lead,</i>	Shop	
<i>Aluminum, Copper, Zinc</i>		

B. Inventory of Exposed Materials

An inventory of the types of materials handled at the site that potentially may be exposed to precipitation are located in **Attachment 2**. This inventory includes a description of significant materials that have been handled, treated, stored, or disposed in a manner to allow exposure to storm water within the last three years. It also includes the method and location of on-site storage or disposal and materials management practices employed to minimize contact of materials with storm water runoff within the last three years.

C. Spills and Leaks

There have been no spills or significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at Martha's Vineyard Shipyard within the last three years as shown in **Attachment 3**. This list shall be updated as appropriate during the term of the permit.

The potential for spills or releases are in our areas of drum and tank storage, fueling areas, piping and pumps.

D. Risk Identification

A narrative description of the potential pollutant sources from various activities conducted at Martha's Vineyard Shipyard is found in **Attachment 5**. The description specifically lists any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g., biochemical oxygen demand, etc.) of concern is identified.

IV. MEASURES AND CONTROLS

A. Good Housekeeping

Good housekeeping practices are utilized at Martha's Vineyard Shipyard. These practices include maintaining a clean and orderly work environment. All storage and work areas are kept in a clean and well-organized manner.

1. Waste Oil: Waste oil will be stored in a non-leaking container clearly marked "waste oil" on an impermeable surface and covered in a manner that will prevent rainwater from entering the container. Oil spills will be prevented from leaving the area by means of a berm or retaining structure. Waste oil will be removed from the site by a licensed waste oil transporter, if not burnt on site.
2. Waste Anti-freeze, Gasoline, Diesel, Kerosene and Mineral Spirits: These will be stored in a clearly marked, non-leaking containers, and on an impermeable surface, and covered in a manner that will prevent rainwater from entering the container.
3. New oil: New oil will be kept in non-leaking containers on an impervious surface covered in a manner that will prevent rainwater from entering the container.
4. Sanding: Sanding dust will be contained or swept up daily and disposed of or recycled properly and not intentionally discharged into a storm drain or onto surface waters.
5. Engine Parts Washing: Parts washing will not be done over open water or uncovered land.
6. Engine and Parts Storage: Engines and engine parts will be stored on a covered, impervious surface.
7. Solid Waste: Leak proof containers will be provided for solid waste and garbage.
8. Oil Spills on Land: Spilled fluids will be placed in the waste containers and residual will be collected with absorbent materials. To be disposed of as a hazardous waste.
9. Oil, Diesel, and Gasoline Filters: These waste filters will be drained into the appropriate waste container and held in non-leaking containers for pick-up by a licensed waste hauler.
10. Used Lead-Acid Batteries: These will be stored on a non-conductive impervious surface, under cover for disposal by a recycler.

For a list of Best Management Practices (BMP) for industrial activities conducted at Boat Building and Repair Facilities, see **Attachment 6**.

B. Preventive Maintenance

A preventive maintenance program will involve timely inspection and maintenance of storm water management devices as well as inspecting and testing facility equipment and systems to uncover conditions that could cause breakdowns or failures in discharges of pollutants to surface waters and ensuring appropriate maintenance of such equipment and systems. For a preventive maintenance schedule, see **Attachment 7**.

C. Spill Prevention and Response Procedures

We have a Spill Prevention Control and Countermeasure Plan in place.

All applicable personnel - including members of the pollution prevention team - are familiar with emergency response provisions.

All applicable workers and supervisors shall be trained in hazard recognition and response procedures (HAZWOPER First Responder Operations Level).

In case of an incident, absorbent materials (pads, booms, socks, plugs, plastic, etc.) are stored in the main workshop.

Team Members shall be trained in HAZWOPER, First Responder Operations Level, emergency response for this industry.

D. Non-Storm Water Discharges

This facility was evaluated for non-storm water discharges by visually observing the outfalls and finding no indications of dry weather discharges.

An inventory of authorized non-storm water discharges is located in **Attachment 10**.

E. Sediment and Erosion Prevention

Attachment 11 contains a control log that identifies areas, which, due to topography, activities, or other factors, have a high potential for significant sediment runoff, and identifies structural, vegetative, and/or stabilization measures to be used to limit future sediment runoff or erosion.

We have no noticeable erosion but have realized a sea-level rise.

F. Dust Generation and Vehicle Tracking of Materials

Facilities are required to control the generation of dust and off-site tracking of materials to minimize pollutant discharges.

Dust control practices can reduce activities and air movement that cause dust to be generated. Control measures that help minimize the generation of dust include:

Vegetative cover, mulch, wind breaks (barriers either natural or constructed), Stone, and spray-on chemical soil treatments (palliatives).

Vehicle tracking of materials can be controlled by management of traffic patterns within our yard. Keep work areas, stored materials or materials that could be spilled away from all roads within our site.

G. Management of Runoff

Storm water management practices to limit the contact between significant materials, storm water, and precipitation include berms and crushed stone (and Best Management Practices). In addition:

Do not plow or dump snow into the harbor.

Maintain steel structures with paint to prevent rusting (boat stands, moorings, anchors, propane tanks, metal doors, dumpsters, and all yard equipment, etc.).

Utilize tarp under boats when doing prep work and painting.

Utilize filter media for the storm drains and inspect and replace periodically.

Contain and properly dispose of debris from boat washing. Do not discharge wash water, utilize recently replaced entire bottom wash station (new pit and new water recycling system).

Parking lots and paved areas will be swept and kept clean to prevent materials / contaminants from draining to any storm drains or discharging to any surface waters.

H. Major Storm Control Measures

General measures to consider during such events include but are not limited to:

- Reinforce materials storage structures to withstand flooding and additional exertion of force;
- Prevent floating of semi-stationary structures by elevating to the Base Flood

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

Additional measures specific for our facility are to:

- Check / double up dock lines on boats in the water;
- Shut off emergency fuel dock manual shut offs;
- Check and lock underground fuel tank fill lids;
- Shut power off to dock power pedestals that are prone to go under water;
- Relocate trash receptacles;
- Relocate flower buckets;
- Walk water side of property and pick up blocking;
- Lift equipment and shop supplies off floor in first floor shops and workshops;
- Move smaller boats on land to higher ground.

V. SCHEDULES AND PROCEDURES

A. Monitoring / Sampling Data

It is required that we do benchmark monitoring/sampling once each quarter, during the first and fourth year of the permit. Sampling must be analyzed by a certified lab. These lab results will be sent to the EPA after each quarter during each permit year. The same Pollution Team Member will do the sampling each time throughout the duration of this permit, if at all possible.

Sampling will commence following either May 30, 2021 or our date of discharge authorization, whichever date comes later.

The sampling will be for the following parameters:

<u>Parameter</u>	<u>Benchmark Monitoring Concentration</u>
pH	6.0 -9.0 s.u.
Chemical Oxygen Demand	120 mg/L
Total Suspended Solids (TSS)	100 mg/L

The above three parameters will be done every quarter throughout the entire five-year permit. This is our required "Indicator Sampling".

PAH 16 individual PAHs
The above parameter will be done bi-annually during the first and fourth year of the permit.

Total Recoverable Aluminum	1,100 ug/L
Total Recoverable Lead	210 ug/L (saltwater)
Total Recoverable Copper	4.8 ug/L (saltwater)
Total Recoverable Zinc	90 ug/L (saltwater)

In addition, we discharge to Lagoon Pond which is an impaired water with an EPA-approved or established TMDL and therefore does NOT require monitoring. The Segment ID is MA97-11 with an EPA TMDL No. 64583 and No. 64584.

Samples must be analyzed consistent with 40 CFR Part 136 analytical methods and using test procedures with quantitation limits at or below benchmark values for all benchmark parameters for which sampling is required. With the first sampling analytical report to EPA a hardness value should be included.

All samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The sample shall be taken during the first 30 minutes of the discharge. If the collection of a sample during the first 30 minutes is impracticable, a sample can be taken during the first hour of the discharge, and the discharger must submit with the monitoring report a description of why a sample during the first 30 minutes was impracticable.

After collection of 4 quarterly samples, if the values for any parameter does not exceed the benchmark, our monitoring requirements have been fulfilled for that parameter for the next two years. But then we must sample again in the fourth year of the permit. The State of Massachusetts requirements for this sampling requirement are different. If our results go over the benchmark for even one quarter, we have to keep sampling for that parameter till we get four samples in a row that do not exceed. And there are reporting requirements to Massachusetts also when we have had exceedances.

Sample results are to be submitted to EPA electronically on their Discharge Monitoring Report (DMR) within 30 days of receiving lab report back. Past reports should be kept with current SWPPP.

Conversely if any parameter exceeds the benchmark, control measures have to be reviewed to determine any necessary modifications. Then an additional 4 quarters of sampling has to be done for that parameter until the value is at or below the benchmark.

Natural background pollutant levels should also be considered whenever there is an exceedance of the benchmark.

A summary of existing discharge sampling data describing pollutants in storm water discharges from Martha's Vineyard Shipyard can be found in **Attachment 4**. Also included will be all sampling data collected during the term of this permit.

Sampling results must be submitted to EPA no later than 30 days after receiving laboratory results for each quarter that benchmark samples are required to be collected. For any of monitored outfalls that did not have a discharge within the reporting period, we must report using NetDMR that there was "no data" for that outfall no later than 30 days after the end of the reporting period.

B. Inspections

Routine Inspections: These should be done at least quarterly and can be more frequently (monthly). Qualified facility personnel shall be identified to do routine inspections of designated equipment and areas of the facility (with at least one member of our SWPPP Team). Material handling, material storage, pressure washing, blasting/sanding, painting, engine repair and maintenance, dry dock and general yard areas must be inspected for evidence of, or the potential for, pollutants entering the drainage system. Each discharge point (outfall) should be inspected. A set of tracking or follow up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained on site for a minimum of five (5) years. **Attachment 8** contains a chart of designated equipment / areas that will be inspected as well as an inspection report. At least one inspection should be done during a storm event.

Quarterly Visual Examinations: Visual examinations must also be conducted on a **discharge sample**. All grab samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The sample shall be taken during the first 30 minutes of the discharge. If the collection of a sample during the first 30 minutes is impracticable, a sample can be taken during the first hour of the discharge, and the discharger should note on his report a description of why a sample during the first 30 minutes was impracticable. The examination shall include any observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, or other obvious indications of storm water pollution. The same member of the SWPPP Team will do these QVE's each time.

Copies of the Visual Examination Reports will be kept with this plan. See **Attachment 8** for copy of report.

The same Pollution Prevention Team Member will do the collection and examination of discharges for the entire permit term, if possible.

Annual Report (Part 7.4): In the 2021 MSGP, EPA is retaining the requirement to submit electronically an annual report. The annual report must include a summary of the routine site inspection and visual assessment findings, corrective action documentation and any noncompliance observed and, when applicable, the rationale for why it is believed that no further pollutant reductions are achievable when a four-quarter average benchmark is exceeded. Annual reports must be submitted electronically by January 30th for each year of permit coverage. See **Attachment 8** for copy of report.

C. Employee Training

Employee training programs shall inform personnel responsible for implementing activities identified in the storm water pollution prevention plan. And anyone otherwise responsible for storm water management, at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training will address such topics as spill prevention and response, good housekeeping practices, material management practices, used oil management, spent solvent management, disposal of spent abrasives, disposal of vessel waste waters, fueling procedures, painting and sanding procedures, and used battery management. These trainings are to be held at a minimum annually, and at any time a change in operations may affect the Storm Water Permit. A list of all trained personnel is found in **Attachment 9**.

D. Record Keeping and Internal Reporting Procedures

A description of incidents, such as spills, or other discharges, along with other information describing the quality and quantity of storm water discharges shall be included in the pollution prevention plan. Inspections and maintenance activities shall be documented, and records of such activities shall be incorporated into the plan.

E. Corrective Actions

A corrective action is any action taken, or required to be taken, to (1) repair, modify, or replace any stormwater control used at the site; (2) clean up and dispose of spills, releases, or other deposits found on the site; and (3) remedy a permit violation. There are a variety of issues that can trigger the needing of a corrective action, some of those include, but are not limited to:

An unauthorized release or discharge;

Control measures not being affective, never installed, installed incorrectly;
Visual assessment shows evidence of stormwater pollution;
Construction or design change that affects the nature of the pollutants
discharged in the stormwater;
The average of our four quarterly sampling results exceeds the applicable
Benchmark. This is considered a benchmark exceedance and
triggers this review.

When any of these conditions exist that trigger a corrective action, we must take immediate action (immediate means same day) to minimize or prevent pollutant discharges until a permanent solution is implemented. A permanent solution must be put in place no later than 14 days, or if for some reason the time framework is not feasible the corrective action should be completed as soon as practicable after the 14 days.

If the event requiring the corrective action is a permit violation, completing the corrective action does not eliminate the permit violation. In addition, failing to complete a corrective action is a violation of the permit.

Documentation of the Corrective Action is required. A report documenting the basic information describing the triggering event and our response to that event is required. Date of the event and of the corrective action, and any follow up to the event is to be listed. This information is to be kept with the plan and in some cases included in the reports provided to EPA. See **Attachment 8** for report.

F. Additional Implementation Measures

Tiered Additional Implementation Measures are triggered by benchmark monitoring exceedances. Based on the nature and magnitude of the benchmark threshold exceedance it determines different AIM levels with increasingly robust control measures. There are 3 Tiers of corrective responses in an effort to curb the exceedances. Based on having any exceedances, we will then progress thru the Tiers (1 thru 3) accordingly. See **Attachment 13** for complete description of Tiers and requirements to follow.

VI. ELIGIBILITY CONSIDERATIONS

A. Endangered Species or Critical Habitat Located Within Discharge Area

There are endangered or threatened species on or in the immediate vicinity of Martha's Vineyard Shipyard property. This was confirmed by requesting an environmental review of the most current information available with USFWS and NMFS during the 2015 Permitting process. See **Attachment 12** as

documentation of this.

These species were again determined/verified in 2021 through IPac and NMFS.

The following listed rare species have been found in the vicinity of our site:

ESA –

Northern long-eared Bat, threatened (No critical habitat listed for these)
Red Knot, threatened (No critical habitat listed for these)
Roseate Tern, endangered (No critical habitat listed for these)

Aquatic species -

Shortnose & Atlantic Sturgeon
Atlantic Large Whales
Sea Turtles

Presently there are no projects or activities at our site that would cause any concern for harm to the above listed rare species.

Therefore, we qualify under Criterion C1. See **Attachment 12** as documentation of this, shown in our original 2015 submittal.

B. Historic Properties Located Within Discharge Area

The property is not located on or near any Historic Properties. This was confirmed by reviewing the Massachusetts Register of Historic Places.

Therefore, we qualify under Criterion A.

SITE PLANS

Attachment 1

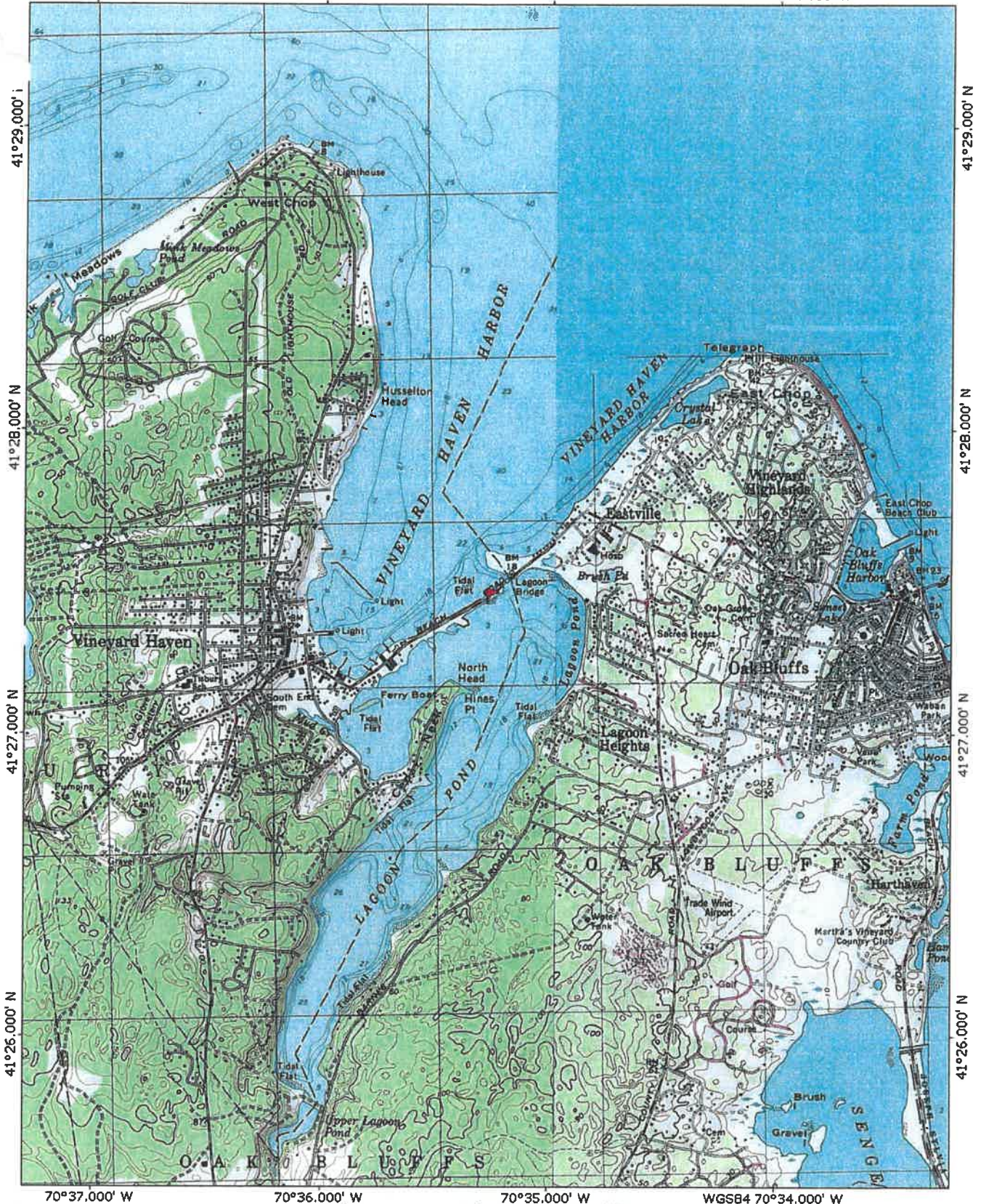
MVS - 164 Beach Road, Vineyard Haven, MA 02568 - 41°27.455' N, 70°35.268' W

70°37.000' W

70°36.000' W

70°35.000' W

WGS84 70°34.000' W



70°37.000' W

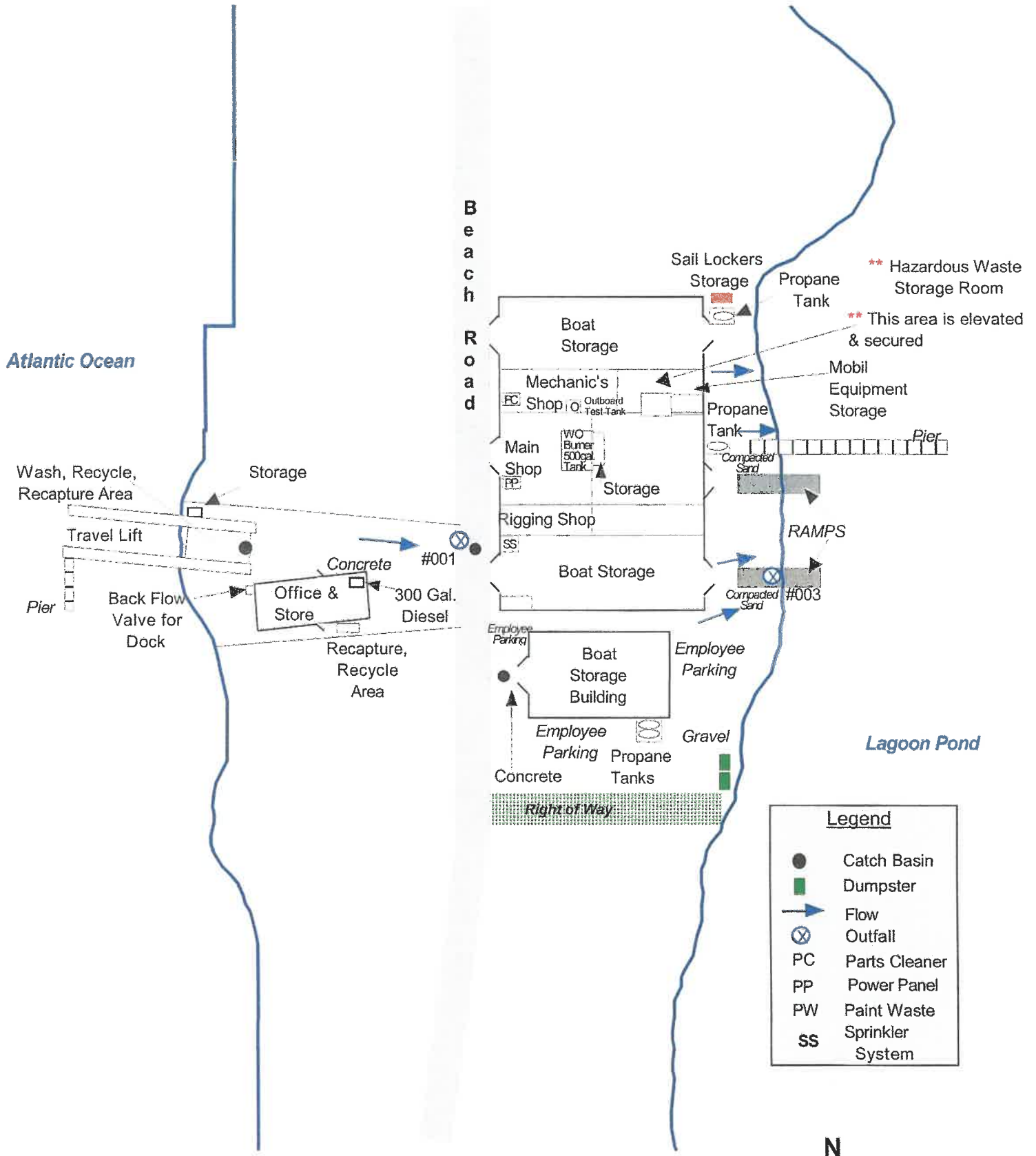
70°36.000' W

70°35.000' W

WGS84 70°34.000' W



Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)



Martha's Vineyard Shipyard
P.O. Box 1119 164 Beach Road
Vineyard Haven, MA 02568
508-693-0400

INVENTORY OF EXPOSED MATERIALS

The following chart includes the current and *previous three years* management practices for handling, treating, storing, and disposal of significant materials at the facility site.

INVENTORY OF EXPOSED MATERIALS

Exposed Materials	Location	Method of Storage/Disposal	Material Management Practice
Paints, Solvents, All Metals, Fiberglass Dust	Main Yard	Dumpster, Drums	Tarps, Curtains
Paints, Solvents, All Metals, Fiberglass Dust	Workshop	Dumpster, Drums	Sweeping Daily
Metals	Mechanic Shop	Dumpster, Drums	Sweeping Daily
Fuel, Engine Oil, Hydraulic Oil, Solvents	Mechanic Shop Unload Area	Dumpster, Drums	Dispose of Greasy Rags, Oil, Antifreeze, Filters, Air Filters, Batteries, Used Oil
Antifreeze, Metals	Mechanic Shop Unload Area	Holding Tanks	Dispose of Greasy Rags, Oil, Antifreeze, Filters, Air Filters, Batteries, Used Oil
Diesel, Gasoline	Fueling Areas	Diesel (6 Gal. Containers only) Gasoline (6 Gal. Containers only) Drums, Absorbents	Do not top off tanks, clean up spills with absorbents
All Material	Shipboard Process, Water Handling		Keep Process Water, Cooling Water, Sanitary Wastes, Fuels, Solvent, Paint Separate

RECORD OF SIGNIFICANT SPILLS AND LEAKS

No spill of toxics or hazardous pollutants has occurred in an appreciable amount and none has been discharged to the waters of the U.S. within the last three years, unless it is listed below.

RECORD OF SIGNIFICANT SPILLS OR LEAKS

Date	Location of Spill	Material Involved	Quantity of Material Spilled	Source of Spill	Cause of Spill	Cleanup Response

SAMPLING DATA



A. Approval to Use Paper DMR Form

1. Have you been granted a waiver from electronic reporting from the EPA Regional Office*? YES NO

If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:

- Waiver granted: The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission.
- The owner/operator has issues regarding available computer access or computer capability.

Name of EPA staff person that granted the waiver:

Date approval obtained: / /

* Note: You are required to obtain approval from the applicable EPA Regional Office prior to using this paper DMR form. If you have not obtained a waiver, you must file this form electronically using the NetDMR at <http://www.epa.gov/netdmr/>

B. Permit Information

1. NPDES ID:

2. Reason(s) for Submission (Check all that apply):

- Submitting monitoring data (Fill in all Sections).
- Reporting no discharge for all outfalls for this monitoring period (Fill in Sections A, B, C, D, E.1, and G).
- Reporting that your site status has changed to inactive and unstaffed (Fill in Sections A, B, C, D, and F and include date of status change in comment field in Section F.4).
- Reporting that your site status has changed to active (Fill in all Sections and include date of status change in comment field in Section F.4).
- Reporting that no further pollutant reductions are achievable for all outfalls and for all pollutants via Part 6.2.1.2 of the MSGP (Fill in Sections A, B, C, D, and G).

C. Facility Operator Information

1. Operator Information

Operator Name:

Mailing Address:

Street:

City: State: ZIP Code: -

Phone: - - Ext.

E-mail:

2. DMR Preparer (Complete if DMR was prepared by someone other than the certifier):

First Name, Middle Initial, Last Name:

Organization:

Phone: - - Ext.

E-mail:



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460
MSGP INDUSTRIAL DISCHARGE MONITORING REPORT (DMR)

Form Approved. OMB No. 2040-0004

F. Monitoring Information

Note: Make additional copies of this form as necessary.

1. Nature of Discharge: Rainfall (Complete line items 2.a., 2.b., & 2.c.) Snowmelt

2.a. Duration of the rainfall event (hours):

2.b. Rainfall amount (inches):

2.c. Time since previous measurable storm event (days):

3.a. Outfall ID (list the same 3-digit outfalls identified on the NOI form)	3.b. Check if Any Outfalls are Substantially Identical to Other Outfalls Listed	3.c. Check if No Discharge	3.d. Monitoring Type QBM, ELG, S/T, I, O*	3.e. Parameter	3.f. Quality or Concentration	3.g. Units	3.h. Results Description	3.i. Collection Date	3.j. Exceedance due to natural background pollutant levels	3.k. No further pollutant reductions achievable?
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Substantially identical to outfall: _____	<input type="checkbox"/>							<input type="checkbox"/>	<input type="checkbox"/>

* [QBM] - Quarterly benchmark monitoring; (ELG) - Annual effluent limitations guidelines monitoring; (S/T) - State- or tribal-specific monitoring; (I) - Impaired waters monitoring; (O) - Other monitoring as required by EPA

4. Comment and/or Explanation of Any Violations (Reference all attachments here)

G. Certification

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

First Name, Middle Initial, Last

Name:

Title:

Signature:

Date:

E-mail:

Instructions for Completing EPA Form 6100-29

**Discharge Monitoring Report (DMR) for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit**

NPDES Form Date (06/15)

Form Approved OMB No. 2040-0004

Who Must Submit A Discharge Monitoring Report to EPA?

Facilities covered under the Multi-Sector General Permit (MSGP or permit) that are required to monitor pursuant to Parts 6.2 and 8 of the permit must submit Discharge Monitoring Reports (DMRs) consistent with the reporting requirements specified in Part 7.1 of the permit.

Completing the Form

Obtain and read a copy of the 2015 MSGP, viewable at <http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm>. To complete this form, type or print, using uppercase letters, in the appropriate areas only. Please place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use only one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response. Please submit original document with signature in ink - do not send a photocopied signature. **Photocopy your DMR form for your records before you send the completed original form to the appropriate address.**

Section A. Approval to Use Paper DMR Form

You must indicate whether you have been granted a waiver from electronic reporting from the EPA Regional Office. Note that you are not authorized to use this paper DMR form unless the EPA Regional Office has approved its use. Where you have obtained approval to use this form, indicate the waiver that you have been granted, the name of the EPA staff person who granted the waiver, and the date that approval was provided. See <http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm> for a list of EPA Regional Office contacts.

Section B. Permit Information

Provide the NPDES ID (i.e., NOI tracking number) assigned to the facility for which this DMR is being submitted.

Indicate your reason(s) for submitting this DMR by checking all boxes that apply. The reasons for submission are defined as follows:

- **Submitting monitoring data:** For each storm sampled, submit one DMR form with data for all outfalls sampled. Select this reason even if you only have monitoring data for some of your outfalls (i.e., some outfalls did not discharge). If you select this reason you are required to complete all Sections of the form.
- **Reporting no discharge for all outfalls for this monitoring period:** Indicates that there were no discharges from all outfalls during this monitoring period. If you select this reason you are only required to complete Sections A, B, C, D, E.1, and G.
- **Reporting that your site status has changed to inactive and unstaffed:** Indicates that your facility is currently inactive and unstaffed (See Part 6.2.1.3 of the permit for more information). If you select this reason you are only required to complete Sections A, B, C, D, and F and include date of status change in comment field in Section F.4
- **Reporting that your site status has changed from inactive to active:** Indicates that your facility is currently active (See Part 6.2.1.3 of the permit for more information). If you select this reason you are required to complete all Sections of the form and include date of status change in the comment field in Section F.4.

- **Reporting that no further reductions are achievable for all outfalls and for all pollutants via Part 6.2.1.2 of the permit:** Indicates that you have determined that no further pollutant reductions are technologically and economically practicable in light of best industry practice to meet the technology-based effluent limits or are necessary to meet the water-quality-based effluent limitations in Parts 2 of the permit (See Part 6.2.1.2 of the permit for more information). If you select this reason you are required to complete Sections A, B, C, D and G. However, if you can make this finding for some outfalls and pollutants, but not for others, you cannot select this reason; you will instead be able to identify which outfalls and which pollutants you can make this finding for in Section F.

Section C. Facility Operator Information.

Provide the legal name of the person, firm, public organization, or any other entity that operates the facility for which this DMR is being submitted. An operator of a facility is the legal entity that controls the operation of the facility. Refer to Appendix A of the permit for the definition of "operator". Provide the operator's mailing address, phone number, and e-mail. The operator information in this Section should match the operator information provided on your NOI form.

Provide the name, organization, phone number, an email address for the person who prepared this DMR form.

Section D. Facility Information

Enter the official or legal name and complete street address, including city, state, ZIP code, and county or similar government subdivision of the facility. If the facility lacks a street address, indicate the general location of the facility (e.g., intersection of State Highways 61 and 34). Complete facility information must be provided for permit coverage to be granted. The facility information in this Section should match the facility information provided on your NOI form.

Section E. Discharge Information.

Indicate the appropriate monitoring period (Quarter 1, 2, 3, or 4) covered by the DMR. "Alternative" monitoring periods can apply to facilities located in arid and semi-arid climates, or in areas subject to snow or prolonged freezing. To use alternative monitoring periods, you must provide a revised monitoring schedule here. If using alternative monitoring periods, identify the first day of the monitoring period through the last day of the monitoring period for each of the four periods. The dates should be displayed as month (Mo) / day (Day). See Parts 6.1.6 and 6.1.7 of the permit for more information.

If you are submitting benchmark monitoring data, identify if your facility is required to collect benchmark samples for one or more hardness-dependent metals (i.e., cadmium, copper, lead, nickel, silver, and zinc). If you select "yes" to this question provide the hardness level of the receiving water (in mg/L). If you select "no" to this question, you must identify if your facility discharges into any saltwater receiving waters.

**Discharge Monitoring Report (DMR) for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit**

NPDES Form Date (06/15)

Form Approved OMB No. 2040-0004

F. Monitoring Information

For the reported monitoring event indicate whether the discharge was from a rainfall or snowmelt event. If you select "rainfall" then indicate the duration (in hours) of the rainfall event, rainfall total (in inches) for that rainfall event, and time (in days) since the previous measurable storm event in line items 2.a-c. For both rainfall and snowmelt monitoring, you must identify the date of collection for the monitoring event in column 3.i. of the table. If the discharge occurs during a period of both rainfall and snowmelt, check both the rainfall and snowmelt boxes and report the appropriate rainfall information in item 2.a-c. To report multiple monitoring events in the same reporting period, copy this form and enter each monitoring event separately with data for all outfalls sampled.

Identify all the outfalls from your facility that discharge stormwater. Each outfall must be assigned a unique 3-digit number (e.g., 001, 002, 003), and should match the outfalls identified on your NOI form.

If any outfalls are substantially identical, check the box in 3.b and identify the outfall that the outfall in 3.a is substantially identical to. In 3.d - k, you only need to provide benchmark monitoring data for one of the outfalls.

For any outfall for which there was no discharge during the monitoring period, check the box in 3.

In 3.d, identify the type of monitoring using the specified codes, in parentheses, below:

- (QBM) – Quarterly benchmark monitoring
- (ELG) – Annual effluent limitations guidelines monitoring;
- (S/T) – State- or Tribal-specific monitoring;
- (I) – Impaired waters monitoring; or
- (O) – Other monitoring as required by EPA.

In 3.e, enter each "parameter" (or "pollutant") monitored. For QBM and ELG monitoring, use the same parameter name as in Part 8 of the permit.

In 3.f., enter a sample measurement value for each parameter analyzed and required to be reported. Enter "ND" (i.e., not detected) for any sample results below the method detection limit or "BQL" (i.e., below quantitation limit) for sample results above the detection limit but below the quantitation limit.

In 3.g., enter the units for sample measurement values (i.e., "mg/L" for milligrams per liter) for each parameter analyzed and required to be reported. For monitoring results reported as ND or BQL this space will be left blank and the units will be reported in Column 3.f.

3.h. must be completed for any monitoring results reported as ND or BQL in the "Quality or Concentration" column. For ND, report the laboratory detection level and units in this column. For BQL, report the laboratory quantitation limit and units in this column.

In 3.i. identify the sampling date for each parameter monitoring result reported on this form.

3.h. *Exceedance due to natural background pollutant levels:* Check box if following the first 4 quarters of benchmark monitoring (or sooner if the exceedance is triggered by less than 4 quarters of data) you have determined that the exceedance of the

benchmark is attributable solely to the presence of that pollutant in the natural background for that outfall and any substantially identical outfalls, or for impaired waters monitoring, the presence of the pollutant is caused solely by natural background. See Part 6.2.1.2 and 6.2.4.1 of the permit for more information.

In 3.j. check the box if after collection of 4 quarterly samples (or sooner if the exceedance is triggered by less than 4 quarters of data), the average of the 4 monitoring values for any parameter exceeds the benchmark and you have made the determination that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to meet the technology-based effluent limits or are necessary to meet the water-quality-based effluent

Where violations of the permit requirements are reported, include a brief explanation to describe the cause and corrective actions taken, and reference each violation by date. Also, this section should include any additional comments such as are required when changing site status from inactive and unstaffed to active or vice versa. Attach additional pages if you need more space.

Attach additional copies of Section F as necessary to address all outfalls and parameters.

Section G. Certification Information

DMRs must be signed by a person described below, or by a duly authorized representative of that person.

For a corporation: By a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means:

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

For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this Part, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA). Include the name and title of the person signing the form and the date of signing.

Instructions for Completing EPA Form 6100-29

**Discharge Monitoring Report (DMR) for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit**

NPDES Form Date (06/15)

Form Approved OMB No. 2040-0004

A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above;
2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) and
3. The written authorization is submitted to the Director.

An unsigned or undated DMR form be considered incomplete.

Paperwork Reduction Act Notice

Public reporting burden for this form is estimated to average 7.25 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number of this form on any correspondence. Do not send the completed DMR form to this address.

Submitting Your Form

If you have been granted a waiver from your Regional Office to submit a paper DMR form, you must send your DMR form by mail to one of the following addresses:

Region 1

MSGP Discharge Monitoring Reports (OES4-SMR)
EPA New England, Region 1
5 Post Office Square - Suite 100
Boston, MA 02109-3912

Region 2

MSGP Discharge Monitoring Reports
290 Broadway
DECA/CAPBS/DMT
21st Floor
New York, NY, 10007-1866

Region 3

Nancy Ford
U.S. EPA Region 3
1650 Arch Street
Mail Code #3WP60
Philadelphia, PA 19103

Region 5

U.S. Environmental Protection Agency Region 5
77 West Jackson Boulevard (WN-16J)
Chicago, Illinois 60604
Attn: Brian Bell - Storm Water Coordinator

Region 6

U.S. EPA, Region 6 MSGP DMRs
Water Enforcement Branch (6EN-WC)
1445 Ross Avenue
Dallas, TX 75202

Region 7

Neal Gilbert
U.S. Environmental Protection Agency, Region 7
Enforcement Coordination Office
11201 Renner Blvd
Lenexa, KS 66219

Region 8

U.S. EPA, Region 8 (ENF-PJ)
Attention: DMR Coordinator
1595 Wynkoop Street
Denver, CO 80202-1129

Region 9

Sandra Chew
U.S. EPA Region 9
Information Management Section, ENF-4-1
75 Hawthorne Street
San Francisco, CA 94105

Region 10

U.S. EPA Region 10
Attn: NPDES Data Manager, OCE-101
1200 Sixth Avenue, Suite 900
Seattle, WA 98101

Visit this website for instructions on how to submit electronically:
<http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOL-System-for-EPAs-MultiSector-General-Permit.cfm>

RISK IDENTIFICATION

RISK IDENTIFICATION

This Boat Building and Repair facility includes the following activities or operations: Fiberglass repairs, sandblasting, welding, painting, engine repair and lubrication. In addition, the facility does have a hazardous waste storage area. Also, materials unloading area (from trucks) and employee parking area.

Sandblasting is done in the main yard (concrete surface) and swept daily. The materials are periodically, as well as on completion, removed from the area, tested, containerized and disposed of as required under Federal and State laws.

Pressure washing is done in the travel lift area. (Concrete surface) Water is contained and recycled.

Metal fabrications are done in the Mechanic Shop.

Welding and torch cutting is done on board vessels, and main yard.

Small jobs of paint application is done by brush and roller. Typically all regular paint and fiberglass jobs are now being subcontracted to outside facilities.

The facility has a hazardous waste storage containment area (see site map).

Fueling is done to yard equipment and vessels by portable containers.

RISK IDENTIFICATION CHART

Activities	Significant Source of Pollutants	Pollutant Parameters
A. Pressure Washing	Wash Water	Paints solids, heavy metals, suspended solids
B. Surface Preparation Paint Removal Sanding	Sanding; mechanical grinding; abrasive blasting; paint stripping.	Spent abrasives, paint solids, heavy metals, solvents, dust
C. Painting	Paint and paint thinner spills; spray painting; paint stripping; sanding; paint cleanup	Paint solids, spent solvents, heavy metals, dust
D. Engine Maintenance and Repairs	Parts cleaning; waste disposal of greasy rags, used fluids, and batteries; use of cleaners & degreasers; fluid leaks; fluid replacement.	Spent solvents, oil, heavy metals, ethylene glycol, acid/alkaline wastes, detergents, diesel, and gasoline.
E. Material Handling: Transfer, Storage, Disposal	Fueling; spills, leaks; and hosing area..... Liquid Storage in Portable Containers: spills and overfills; external corrosion; failure of piping systems. Waste Material Storage and Disposal: paint solids; solvents; trash; spent abrasives, petroleum products	Fuel, oil, heavy metals Fuel, oil, heavy metals, material being stored. Paint solids, heavy metals, spent solvents, oil.
F. Shipboard Processes improperly discharged to storm sewer or into receiving water.	Process & cooling water; sanitary waste; bilge & ballast water.	Biochemical oxygen demand (BOD), bacteria, suspended solids, oil, fuel.

BEST MANAGEMENT PRACTICES

ACTIVITY

BEST MANAGEMENT PRACTICES

Pressure Washing

Collect discharge water or recycle water. Have all collected water and filter media tested before disposal.

Perform pressure washing only in designated areas where wash water containment can be effectively achieved.

Use no detergents or additives in the pressure wash water.

Direct deck drainage to a collection system sump for settling and/or additional treatment.

Implement diagonal trenches or berms and sumps to contain and collect wash water at marine railways or recycle.

Use solid decking, gutters, and sumps at lift platforms to contain and collect wash water for reuse.

Surface preparation, sanding, and paint removal

Enclose, cover, or contain blasting and sanding activities to prevent abrasives, dust, and paint chips from reaching storm sewers or receiving water.

Cover drains, trenches, and drainage channels to prevent entry of blasting debris.

Prohibit uncontained blasting or sanding activities performed over open water.

Prohibit blasting or sanding activities performed during windy conditions which render containment ineffective.

Inspect and clean sediment traps to ensure the interception and retention of solids prior to entering the drainage system.

Collect spent abrasives routinely and store under a cover to await proper disposal.

**Material Handling:
Bulk liquid storage and
containment**

Store permanent tanks on an impervious surface surrounded by a dike system which provides sufficient containment for the larger of either 10 percent of the volume of all containers or 110 percent of the volume of the largest tank.

Maintain good integrity of all storage tanks.

Inspect storage tanks to detect potential leaks and perform preventive maintenance.

Inspect piping systems (pipes, pumps, flanges, couplings, hoses, valves) for failures or leaks.

Train employees on proper filling and transfer procedures.

Painting

Enclose, cover, or contain painting activities to the maximum extent practical to prevent over spray from reaching the receiving water.

Prohibit uncontained spray painting activities over open water.

Use low pressure spray guns.

Brush or roll paint whenever possible.

Use low VOC products.

Clean and empty all paint, solvent and spray cans before disposal.

Mix paints and solvents in designated areas away from drains, ditches, piers, and surface waters, preferably indoors or under cover.

Have absorbent and other cleanup items readily available for immediate cleanup of spills.

Keep paint and paint thinner away from traffic areas to avoid spills.

Recycle paint, paint thinner, and solvents.

Train employees on proper painting and spraying techniques, and use effective spray equipment that delivers more paint to the target and less over spray.

Engine maintenance and repairs

Maintain an organized inventory of materials used in the maintenance shop.

Dispose of greasy rags, oil filters, air filters, fuel filters batteries, spent coolant, and degreasers properly.

Label and track the recycling of waste material (i.e., used oil, spent solvents, batteries, waste water, antifreeze).

Punch and drain oil filters before disposal or recycling.

Store cracked batteries in a non leaking secondary container.

Promptly transfer used fluids to the proper container; do not leave full drip pans or other open containers around the shop. Empty and clean drip pans and containers.

Do not pour liquid waste down floor drains, sinks, or outdoor storm drain inlets.

Plug floor drains that are connected to the storm or sanitary sewer; if necessary, install a sump that is pumped regularly.

Inspect the maintenance area regularly for proper implementation of control measures.

Train employees on proper waste control and disposal procedures.

Fiberglass

Collect all floor covering, masking paper, air filters, rags, rollers and brushes to be tested to determine disposal method.

**Material Handling:
Containerized material
storage**

Store containerized materials (fuels, paints, solvents, etc.) in a protected, secure location and away from drains.

Store reactive, ignitable, or flammable liquids in compliance with all fire codes.

Identify potentially hazardous materials, their characteristics, and use.

Control excessive purchasing, storage, and handling of potentially hazardous materials.

Keep records to identify quantity, receipt date, service life, and disposal routes.

Secure and carefully monitor hazardous materials to prevent theft, vandalism, and misuse of materials.

Provide sufficient containment for outdoor storage areas for the larger of either 10 percent of the volume of all containers or 110 percent of the volume of the largest tank.

Use temporary containment where required by portable drip pans.

Use spill troughs for drums with taps.

Train employees on proper storage, use, cleanup, and disposal of materials.

**Designated material
mixing areas**

If spills occur,

- Contain the liquid until cleanup is complete
- Stop the source of the spill immediately
- Deploy oil containment booms if the spill may reach the water
- Cover the spill with absorbent material
- Keep the area well ventilated
- Dispose of cleanup materials properly
- Do not use emulsifier or dispersant

**Nondrydock
containment
(Railway)**

Hang tarpaulin from the boat, fixed, or floating platforms to prevent pollutants transported by wind.

Pave or tarp surfaces under marine railways.

Clean railways before incoming tide.

Haul vessels beyond the high tide zone before work commences or halt work during high tide.

Place plastic sheeting or tarpaulin underneath boats to contain and collect waste and spent materials and clean and sweep regularly to remove debris.

Use fixed or floating platforms with appropriate plastic or tarpaulin barriers as work surfaces and for containment when work is performed on a vessel in the water to prevent blast material or paint over spray from contacting storm water or the receiving water.

Nails are not to be thrown on the railway

Sweep, rather than hose, debris present on the dock.

**Shipboard process
water handling**

Keep process and cooling water used aboard ships separate from sanitary wastes to minimize disposal costs for the sanitary wastes.

Keep process and cooling water from contact with spent abrasives and paint to avoid discharging these pollutants.

Inspect connecting hoses for leaks.

**Onboard sanitary
waste disposal**

Use appropriate material transfer procedures, including spill prevention and containment activities.

Discharge sanitary wastes from the ship being repaired to the yard's sanitary system or dispose of by a commercial waste disposal company.

**Bilge and Ballast
water**

Collect and dispose of bilge and ballast waters which contain oils, solvents, detergents, or other additives to a licensed waste disposal company.

Incoming Boats

Inspection upon arrival at the yard. Boats scheduled for maintenance or storage must be inspected for leaks and drips. Fluids from leaking boats must be drained immediately. If not possible, leaks must be addressed by using drip pans or some other containment method.

Miscellaneous

Keep all trash containers and dumpster covered.

Keep all metal structures, equipment and boat stands painted to prevent rusting or oxidation of metals.

Keep all chains, anchors or other metal items covered.

Do not throw nuts, bolts, nails, zinc anodes, lead ballast or other metal items on the ground or in water ways.

Do not cut, grind or weld metal outside on the ground.

Equipment

Inspect all equipment for fuel and hydraulic leaks.

PREVENTIVE MAINTENANCE SCHEDULE

The preventive maintenance program is aimed at preventing leaks of fluids from outdoor mechanical equipment. The preventative maintenance inspection will be performed with the inspections identified in Section IV.B. This inspection will document the need for maintenance on the following form and the work will be scheduled accordingly.

PREVENTIVE MAINTENANCE SCHEDULE

Schedule Date	Location or Equipment	Conducted by	Comments and Observations	Follow up	Complete Date

INSPECTIONS

In addition to the preventive maintenance program, and as part of the routine inspections in Section IV.B., qualified facility personnel will inspect designated equipment and areas of the facility at intervals specified. The Inspection Report (next page) is filed with this SWPPP.

Equipment/Area to Inspect	Type of Inspection	Frequency	Designated Personnel
Gasoline (6 Gal. Containers)	Visual Inspection	Daily	
Diesel (6 Gal. Containers)	Visual Inspection	Daily	
All Yard Equipment Trucks	Visual Inspection Fuel Tanks & Lines	Daily	
Travel Lift Fork Lifts	Hydraulic Lines & Cylinders	Daily	

Any Equipment: Normal Business Practices and Owner Manual's procedures should be followed.

Any required maintenance, repairs, or modifications will be reported to the maintenance supervisor on the forms provided immediately if it is a problem requiring immediate action.

MONTHLY INSPECTION REPORT

Date of Inspection: _____

Areas Inspected and Findings:

- Dumpsters – Free of debris & signs of other pollutants. Yes ___ No ___
- Fuel Transfer areas – Equipment functioning properly, spill response equipment available Yes ___ No ___
- Materials Delivery & Handling areas – Free of sediment & debris Yes ___ No ___
- Railway Area – Free of sediment & debris Yes ___ No ___
- Catch Basins– Free of debris & signs of other pollutants Yes ___ No ___
- Outfalls -- Free of debris & signs of other pollutants Yes ___ No ___
- Materials Storage areas -- Free of debris & signs of other pollutants Yes ___ No ___
- Equipment Storage areas - Free of debris & signs of other pollutants Yes ___ No ___
- Hazardous Storage Area – spills, leaks, containment Yes ___ No ___
- Pressure Wash Area - Free of sediment & debris Yes ___ No ___
- Boat Ramp & area – free of gravel & debris Yes ___ No ___
- Boat Storage areas – no leaks, debris Yes ___ No ___
- Other: Yes ___ No ___

Follow Up Action Required

Completed By: _____

Title: _____

Date: _____

At least once each calendar year, this inspection must be conducted during a period when a stormwater discharge is occurring.

VISUAL EXAMINATION QUARTERLY REPORT
(Refer to Section 3.2.2 of Permit for visual examination requirements)

Date of Visual Examination: _____

Collection and Examination performed by: _____

Discharge Area: _____

Storm Data:

Rain Start Time - _____ Time Sample Taken: _____

Note – The sample should be taken during the first 30 minutes of the discharge.
If impracticable, the sample can be taken during the first hour noting the
reason why a sample could not be taken during the first 30 minutes.

Reason: _____

Inspection Findings:

Color: _____

Odor: _____

Clarity: _____

Floating Solids: _____


Settled Solids: _____

Suspended Solids: _____

Foam: _____

Oil Sheen: _____

Other: _____

NPDES FORM 6100-28		UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT	OMB No. 2040-0300 OMB Approval Pending
A. Approval to Use Paper Annual Report Form			
1. Have you been granted a waiver from electronic reporting from the EPA Regional Office*? <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval: Waiver granted: <input type="checkbox"/> The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission. <input type="checkbox"/> The owner/operator has issues regarding available computer access or computer capability Name of EPA staff person that granted the waiver: <input style="width: 400px;" type="text"/> Date approval obtained: <input style="width: 40px;" type="text"/> / <input style="width: 40px;" type="text"/> / <input style="width: 60px;" type="text"/>			
* Note: You are required to obtain approval from the applicable EPA Regional Office prior to using this paper annual report form. If you have not obtained a waiver, you must file this form electronically using the NPDES eReporting Tool (NeT) at https://www.epa.gov/npdes/stormwater-discharges-industrial-activities			
B. Permit Information			
1. NPDES ID: <input style="width: 100px;" type="text"/>			
C. Facility Information			
1. Facility Name: <input style="width: 400px;" type="text"/> 2. Facility Phone: <input style="width: 40px;" type="text"/> - <input style="width: 40px;" type="text"/> - <input style="width: 40px;" type="text"/> Ext. <input style="width: 40px;" type="text"/> 3. Facility Mailing Address: Street: <input style="width: 350px;" type="text"/> City: <input style="width: 250px;" type="text"/> State: <input style="width: 30px;" type="text"/> ZIP Code: <input style="width: 40px;" type="text"/> - <input style="width: 40px;" type="text"/> County or Similar Government Subdivision: <input style="width: 350px;" type="text"/>			
4. Point of Contact: First Name, Middle Initial, Last Name <input style="width: 500px;" type="text"/>			
D. General Findings			
1. Provide a summary of your past year's routine facility inspection documentation, including dates (see Part 3.1.6 of the permit). In addition, if you are an operator of an airport facility (Sector 5) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.8.1 effluent limitation through the use of non-urea-containing delcers, provide a statement certifying that you do not use pavement delcers containing urea (e.g., "Urea was not used at [name of airport] for pavement delcing in the past year and will also not be used in 2021." (Note: Operators of airport facilities that are complying with Part 8.S.8.1 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)			

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

3. Provide a summary of your past year's corrective action and/or advanced implementation measures (AIM) documentation (See Part 5.1.3 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Note that you must modify your SWPPP based on the corrective actions and deadlines required under Part 5. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

E. 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, Last Name

Title:

Signature:

Date:

E-mail:

Instructions for Completing EPA Form 6100-28
Annual Report for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit

This Form Replaces Form 6100-28 (06/15) OMB No. 2040-0300

Who Must File an Annual Report

Operators must submit an Annual Report to EPA electronically, per Part 7.4, by January 30th for each year of permit coverage containing information generated from the past calendar year.

Completing the Form

To complete this form, type or print, using uppercase letters, in the appropriate areas only. Please place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use only one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response. Please submit original document with signature in ink - do not send a photocopied signature.

Section A. Approval to Use Paper Annual Report Form

You must indicate whether you have been granted a waiver from electronic reporting from the EPA Regional Office. Note that you are not authorized to use this paper form unless the EPA Regional Office has approved its use. Where you have obtained approval to use this form, indicate the waiver that you have been granted, the name of the EPA staff person who granted the waiver, and the date that approval was provided. See <https://www.epa.gov/npdes/contact-us-stormwater> for a list of EPA Regional Office contacts.

Section B. Permit Information

Provide the NPDES ID (i.e., NOI tracking number) assigned to your facility.

Section C. Facility Information

Enter the official or legal name, phone number, and complete street address, including city, state, ZIP code, and county or similar government subdivision, for the facility that is covered by the NPDES ID identified in Section B. If the facility lacks a street address, indicate the general location of the facility (e.g., Intersection of State Highways 61 and 34). Also provide a point of contact name for the facility.

Section D. General Findings

To complete this section you must provide the following information in your annual report:

1. A summary of your past year's routine facility inspection documentation, including inspection dates, required by Part 3.1.6 of the permit.
2. A summary of your past year's quarterly visual assessment documentation, including visual assessment dates, required by Part 3.2.3 of the permit.
3. Information copied or summarized from the corrective action and/or advanced implementation measures (AIM) documentation required per Part 5.1.3 (if applicable). If corrective action and/or advanced implementation measures are not yet completed at the time of submission of this Annual Report, you must describe the status of any outstanding corrective action(s)/advanced implementation measures. You must also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

Section E. Certification Information

The Annual Report must be signed by a person described below, or by a duly authorized representative of that person.

For a corporation: By a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means:

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

For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this Part, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA). Include the name and title of the person signing the form and the date of signing.

A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above;
2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company, (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) and
3. The written authorization is submitted to the Director.

An unsigned or undated Annual Report form will be considered incomplete.

Paperwork Reduction Act Notice

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0300). Responses to this collection of information are mandatory (40 CFR 122.26). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information is estimated to be 1 hour per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Instructions for Completing EPA Form 6100-28
Annual Report for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit

This Form Replaces Form 6100-28 (06/15) OMB No. 2040-0300

Submitting Your Form

If you have been granted a waiver from your Regional Office to submit a paper Annual Report form, you must send your Annual Report form by mail to one of the following addresses:

For Regular U.S. Mail Delivery:

Stormwater Notice Processing Center
Mail Code 4203M, ATTN: 2020 MSGP Reports
U.S. EPA
1200 Pennsylvania Avenue, NW
Washington, DC 20460

For Overnight/Express Mail Delivery:

Stormwater Notice Processing Center
William Jefferson Clinton East Building - Room 7420
ATTN: 2020 MSGP Reports
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004

Visit this website for instructions on how to submit electronically:
<https://www.epa.gov/npdes/stormwater-discharges-industrial-activities>

Corrective Action Documentation

You must document the existence of any of the conditions listed in Parts 4.1 or 4.2 of the Permit within 24 hours of becoming aware of such condition.

You are not required to submit your corrective action documentation to EPA, unless specifically requested to do so. However, you must summarize your findings in the annual report per Part 7.5.

Include the following information in your documentation:

- Description of the condition triggering the need for corrective action review. For any spills or leaks, include the following information: a description of the Page 28 Multi-Sector General Permit (MSGP) incident including material, date/time, amount, location, and reason for spill, and any leaks, spills or other releases that resulted in discharges of pollutants to waters of U.S., through stormwater or otherwise;
- Date the condition was identified;
- Description of immediate actions taken pursuant to Part 4.3.1 to minimize or prevent the discharge of pollutants. For any spills or leaks, include response actions, the date/time clean-up completed, notifications made, and staff involved. Also include any measures taken to prevent the reoccurrence of such releases (see Part 2.1.2.4); and
- A statement, signed and certified in accordance with Appendix B, Subsection 11.

You must also document the corrective actions taken or to be taken as a result of the conditions listed in Part 4.1 or 4.2 (or, for triggering events in Part 4.2 where you determine that corrective action is not necessary, the basis for this determination) within 14 days from the time of discovery of any of those conditions. Provide the dates when each corrective action was initiated and completed (or is expected to be completed). If applicable, document why it is infeasible to complete the necessary installations or repairs within the 14-day timeframe and document your schedule for installing the controls and making them operational as soon as practicable after the 14-day timeframe.

If you notified EPA regarding an extension of the 45 day timeframe, you must document your rationale for an extension. 4.5 Effect of Corrective Action.

If the event triggering the review is a permit violation (e.g., non-compliance with an effluent limit), correcting it does not remove the original violation.

Additionally, failing to take corrective action in accordance with this section is an additional permit violation. EPA will consider the appropriateness and promptness of corrective action in determining enforcement responses to permit violations.

EMPLOYEE TRAINING

EMPLOYEE TRAINING SCHEDULE

Training Topic	Instructor	Dates of Training	Personnel Attending
Review 2008 MSGP, BMP's, Sampling, Inspections, and NOI filing.	J. Cormier J. Furrh D. Gray, EPA	12/16/08	Philip Hale
Review of Pollution Prevention Plan, 2015 Permit Requirements, BMP's, and electronic filing of DMR's & Annual Reports.	J. F. Cormier J. W. Furrh C. Silva D. Lonczak	12/12/2017	James Hale Philip Hale
Review filing timelines for DMR & Annual Reports; understanding electronic filing; BMP's and permit requirements.	J. F. Cormier J. W. Furrh C. Silva	12/4/18	Philip Hale
Review SW BMP's, Plan requirements, and required online filings.	J. Cormier J. Furrh C. Silva	12/3/19	Philip Hale
Review new 2021 Permit changes and requirements. Filing differences with NOI, etc.	J. Cormier	2/19/21	Phil Hale

NON-STORM WATER DISCHARGES

AUTHORIZED NON-STORM WATER DISCHARGES

Authorized by Regulation:

Outfalls:

Discharges from firefighting activities

Fire hydrant flushing

Potable water sources, including water line flushing

Irrigation drainage

Lawn watering

Routine external building wash down which does not use detergents or other compounds *(must be treated with appropriate control measures to minimize discharge of mobilized solids and other pollutants).*

Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used.

Air conditioning condensate

Springs

Uncontained ground water

Foundation or footing drains where flows are not contaminated with processed materials such as solvents

Non-Industrial Discharges*:

Outfalls:

See statement on the Certification.

SEDIMENT AND EROSION CONTROL

Facility Related Sediment and Erosion Control Log

Outfall	Location Within Site	Factors Contributing to Erosion	Best Management Practices Applicable for Area	Follow Up Action	Date Completed

ENDANGERED SPECIES

CRITERION C1 Eligibility

When researching we found no changes in Endangered Species or Critical Habitat.

This process was done on 3/17/21 through consulting IPAC Resources List and NOAA Mapping Resources.

The previous Criterion C copy was filed in 2015 and was shown with our 2015 Stormwater Pollution Prevention Plan. Access or copy can be requested.

Endangered Species Listed:

No Critical Habitat

**Northern Long-eared Bat
Red Knot
Roseate Tern
Shortnose & Atlantic Sturgeon
Atlantic Large Whales
Sea Turtles**

Additional Implementation Measures (A.I.M.)

5.2 Additional Implementation Measures (AIM)

If any of the following AIM triggering events in Parts 5.2.3, 5.2.4, or 5.2.5 occur, you must follow the response procedures described in those parts, called “additional implementation measures” or “AIM.” There are three AIM levels: AIM Level 1, Level 2, and Level 3. You must respond as required to different AIM levels which prescribe sequential and increasingly robust responses when a benchmark exceedance occurs. You must follow the corresponding AIM level responses and deadlines described in Parts 5.2.1, 5.2.2, and 5.2.3 unless you qualify for an exception under Part 5.2.6.

5.2.1 Baseline Status

Once you receive discharge authorization under this permit per Part 1.3, you are in a baseline status for all applicable benchmark parameters. If an AIM triggering event occurs and you have proceeded sequentially to AIM Level 1, 2 or 3, you may return directly to baseline status once the corresponding AIM-level response and conditions are met.

5.2.2 AIM Triggering Events.

If an annual average exceeds an applicable benchmark threshold based on the following events, the AIM requirements have been triggered for that benchmark parameter. You must follow the corresponding AIM-level responses and deadlines described in Parts 5.2.3, 5.2.4, and 5.2.5 unless you qualify for an exception under Part 5.2.6. An annual average exceedance for a parameter can occur if:

5.2.2.1

The four-quarterly annual average for a parameter exceeds the benchmark threshold, or

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 2021 MSGP Permit Parts 1-7 certain (i.e., the sum of quarterly sample results to date is already more than four times the benchmark threshold).¹⁸

5.2.3 AIM Level 1

Your status changes from baseline to AIM Level 1 if quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred, unless you qualify for an exception under Part 5.2.6.

5.2.3.1 AIM Level 1 Responses.

If any of the triggering events in Part 5.2.2 occur, you must:

- a. **Review SWPPP/Stormwater Control Measures.** Immediately review your SWPPP and the selection, design, installation, and implementation of your stormwater control measures to ensure the effectiveness of your existing measures and determine if modifications are necessary to meet the benchmark threshold for the applicable parameter,¹⁹ and
- b. **Implement Additional Measures.** After reviewing your SWPPP/stormwater control measures, you must implement additional measures, considering good engineering practices, that would reasonably be expected to bring your exceedances below the

parameter's benchmark threshold; or if you determine nothing further needs to be done with your stormwater control measures, you must document per Part 5.3 and include in your annual report why you expect your existing control measures to bring your exceedances below the parameter's benchmark threshold for the next 12-month period.

5.2.3.2 AIM Level 1 Deadlines.

If any modifications to or additional control measures are necessary in response to AIM Level 1, you must implement those modifications or control measures within 14 days of receipt of laboratory results, unless doing so within 14 days is infeasible. If doing so within 14 days is infeasible, you must document per Part 5.3 why it is infeasible and implement such modifications within 45 days.

5.2.3.3 Continue Quarterly Benchmark Monitoring.

After compliance with AIM Level 1 responses and deadlines, you must continue quarterly benchmark monitoring for the next four quarters for the parameter(s) that caused the AIM triggering event at all affected stormwater discharge points, beginning no later than the next full quarter after compliance.

5.2.3.4 AIM Level 1 Status Update. While in AIM Level 1 status, you may either:

- a. **Return to Baseline Status.** Your AIM Level 1 status will return to baseline status if the AIM Level 1 responses have been met and continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has not occurred after four quarters of monitoring (i.e., the benchmark threshold is no longer exceeded for the parameter(s)). You may discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of permit coverage per Part 4.2.2.3 or if you have fulfilled all benchmark monitoring 2021 MSGP Permit Parts 1-7 requirements per Part 4.2.2.3, then you may discontinue monitoring for that parameter for the remainder of the permit.
- b. **Advance to AIM Level 2.** Your AIM Level 1 status advances to AIM Level 2 status if you have completed AIM Level 1 responses and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred (i.e., the benchmark threshold continues to be exceeded for the same parameter(s)).

5.2.4 AIM Level 2

Your status changes from AIM Level 1 to AIM Level 2 if your continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred (i.e., the benchmark threshold continues to be exceeded for the parameter(s)), unless you qualify for an exception under Part 5.2.6.

5.2.4.1 AIM Level 2 Responses.

If any of the events in Part 5.2.2 occur, you must review your SWPPP and implement additional pollution prevention/good housekeeping SCMs, considering good engineering practices, beyond what you did in your AIM Level 1 responses that would reasonably be expected to bring your exceedances below the parameter's benchmark threshold. Refer to the MSGP sector-specific fact sheets for recommended controls found at [<https://www.epa.gov/npdes/stormwater-dischargesindustrial-activities-fact-sheets-and-guidance>].

5.2.4.2 AIM Level 2 Deadlines.

You must implement additional pollution prevention/good housekeeping SCMs within 14 days of receipt of laboratory results that indicate an AIM triggering event has occurred and document per Part 5.3 how the measures will achieve benchmark thresholds. If it is feasible for you to implement a measure, but not within 14 days, you may take up to 45 days to implement such measure. You must document per Part 5.3 why it was infeasible to implement such measure in 14 days. EPA may also grant you an extension beyond 45 days, based on an appropriate demonstration by you, the operator.

5.2.4.3 Continue Quarterly Benchmark Monitoring.

After compliance with AIM Level 2 responses and deadlines, you must continue quarterly benchmark monitoring for the next four quarters for the parameter(s) that caused the AIM triggering event at all affected discharge points, beginning no later than the next full quarter after compliance.

5.2.4.4 AIM Level 2 Status Update.

While in AIM Level 2 status, you may either:

- a. **Return to Baseline Status.** Your AIM Level 2 status will return to baseline status if the AIM Level 2 responses have been met and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has not occurred after four quarters of monitoring (i.e., the benchmark threshold is no longer exceeded for the parameter(s)). You may discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of permit coverage per Part 4.2.2.3, or if you have fulfilled all benchmark monitoring requirements per Part 4.2.2.3, then you may discontinue monitoring for that parameter for the remainder of the permit.
- b. **Advance to AIM Level 3.** Your AIM Level 2 status advances to AIM Level 3 status if you have completed the AIM Level 2 responses and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 2021 MSGP Permit Parts 1-7 has occurred (i.e., the benchmark threshold continues to be exceeded for the same parameter(s)).

5.2.5 AIM Level 3

Your status changes from AIM Level 2 to AIM Level 3 if your continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred (i.e., the benchmark threshold continues to be exceeded for the parameter(s)), unless you qualify for an exception per Part 5.2.6.

5.2.5.1 AIM Level 3 Responses.

If any of the triggering events in Part 5.2.2 occur, you must install structural source controls (e.g., permanent controls such as permanent cover, berms, and secondary containment), and/or treatment controls (e.g., sand filters, hydrodynamic separators, oil-water separators, retention ponds, and infiltration structures), except as provided in Part 5.2.6 (AIM Exceptions). The controls or treatment technologies or treatment train you install should be appropriate for the pollutants that triggered AIM Level 3 and should be more rigorous than the pollution prevention/good housekeeping-type stormwater control measures implemented under AIM Tier 2 in Part 5.2.4. You must select controls with pollutant removal efficiencies that are sufficient to bring your exceedances below the benchmark threshold. You

must install such stormwater control measures for the discharge point(s) in question and for substantially identical discharge points (SIDPs), unless you individually monitor those SIDPs and demonstrate that AIM Level 3 requirements are not triggered at those discharge points.

5.2.5.2 AIM Level 3 Deadlines.

You must identify the schedule for installing the appropriate structural source and/or treatment stormwater control measures within 14 days and install such measures within 60 days. If is not feasible within 60 days, you may take up to 90 days to install such measures, documenting in your SWPPP per Part 5.3 why it is infeasible to install the measure within 60 days. EPA may also grant you an extension beyond 90 days, based on an appropriate demonstration by you, the operator.

5.2.5.3 Continue Quarterly Benchmark Monitoring.

After compliance with AIM Level 3 responses and deadlines, you must continue quarterly benchmark monitoring for the next four quarters for the parameter(s) that caused the AIM triggering event at all affected discharge points, beginning no later than the next full quarter after compliance.

5.2.5.4 AIM Level 3 Status Update.

While in AIM Level 3 status, you may either:

- a. **Return to Baseline Status.** Your AIM Level 3 status will return to baseline status if the AIM Level 3 response(s) have been met and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has not occurred after four quarters of monitoring (i.e., the benchmark threshold is no longer exceeded for the parameter(s)). You may discontinue benchmark monitoring for that parameter until monitoring resumes in what would be year 4 of permit coverage per Part 4.2.2.3, or if you have fulfilled all benchmark monitoring requirements per Part 4.2.2.3, then you may discontinue monitoring for that parameter for the remainder of the permit.
- b. **Continue in AIM Level 3.** Your AIM Level 3 status will remain at Level 3 if you have completed the AIM Level 3 responses and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred (i.e., the benchmark threshold continues to be exceeded for the same parameter(s)). You must continue quarterly benchmark monitoring for the next 2021 MSGP Permit Parts 1-7 four quarters for the parameter(s) that caused the AIM triggering event at all affected discharge points, beginning no later than the next full quarter after compliance. If you continue to exceed the benchmark threshold for the same parameter even after compliance with AIM Level 3, EPA may require you to apply for an individual permit.

5.2.6 AIM Exceptions

Following the occurrence of an AIM triggering event per Part 5.2.2, at any point or tier level of AIM and following four quarters of benchmark monitoring (or sooner if the exceedance is triggered by less than four quarters of data), you may qualify for an exception below from AIM requirements and continued benchmark monitoring. Regardless if you qualify for and claim an exception, you must still review your SCMs, SWPPP, and other on-site activities to determine if actions or modifications are necessary or appropriate in light of your benchmark exceedance(s). If claiming an AIM exception, you must follow the

requirements to demonstrate that you qualify for the exception as provided below. If you qualify for an exception, you are not required to comply with the AIM responses or the continuation of quarterly benchmark monitoring for any parameters for which you can demonstrate that the benchmark exceedance is:

5.2.6.1 Solely Attributable to Natural Background Pollutant Levels:

You must demonstrate that the benchmark exceedance is solely attributable to the presence of that pollutant in natural background sources, provided that all the following conditions are met and you submit your analysis and documentation to the applicable EPA Regional Office upon request:

- a. The four-quarter average concentration of your benchmark monitoring results (or fewer than four-quarters of data that trigger an exceedance) is less than or equal to the concentration of that pollutant in the natural background; and
- b. You document and maintain with your SWPPP, as required in Part 6.5.9, your supporting rationale for concluding that benchmark exceedances are in fact attributable solely to natural background pollutant levels. You must include in your supporting rationale any data previously collected by you or others (including literature studies) that describe the levels of natural background pollutants in your stormwater discharge. Natural background pollutants are those substances that are naturally occurring in soils or ground water. Natural background pollutants do not include legacy pollutants from earlier activity on your site, or pollutants in run-on from neighboring sources which are not naturally occurring, such as other industrial facilities or roadways.

5.2.6.2 Due to Run-On:

You must demonstrate and obtain EPA agreement that run-on from a neighboring source (e.g., a source external to your facility) is the cause of the exceedance, provided that all the following conditions are met and you submit your analysis and documentation to the applicable EPA Regional Office for concurrence:

- a. After reviewing and revising your SWPPP, as appropriate, you should notify the other facility or entity contributing run-on to your discharges and request that they abate their pollutant contribution.
- b. If the other facility or entity fails to take action to address their discharges or sources of pollutants, you should contact your applicable EPA Regional Office.

5.2.6.3 Due to an abnormal event:

You must immediately document per Part 5.3 that the AIM triggering event was abnormal, a description explaining what caused the abnormal event, and how any measures taken within 14 days of such event will prevent a reoccurrence of the exceedance. You must also collect a sample during the next measurable storm event to demonstrate that the result is less than the benchmark threshold, in which case you do not trigger any AIM requirements based on the abnormal event. You must report the result of this sample in NeT-DMR in lieu of the result from the sample that caused the AIM triggering event. You may avail yourself of the "abnormal" demonstration opportunity at any AIM Level, one time per parameter, and one time per discharge point, which shall include substantially identical discharge points (SIDP), provided you qualify for the exception.

5.2.6.4 For Aluminum and Copper benchmark parameters only: Demonstrated to not result in an exceedance of your facility-specific value using the national recommended water quality criteria in-lieu of the applicable MSGP benchmark threshold:

To be eligible for the exception, you must demonstrate to EPA that your stormwater discharge(s) that exceeded the applicable nationally representative MSGP benchmark threshold would not result in an exceedance of a derived facility-specific value. The demonstration to EPA, which will be made publicly available, must meet the minimum elements below in order to be considered for and approved by the applicable EPA Regional Office. If you exceed the MSGP benchmark threshold for aluminum or copper, you must still comply with any applicable AIM requirements and additional benchmark monitoring until the demonstration is made to and approved by the applicable EPA Regional Office. In this case, EPA suggests that samples collected for any continued benchmark monitoring also be analyzed for the required input parameters for each model for efficiency. If you are an existing operator and you anticipate an exceedance of the MSGP benchmark(s) based on previous monitoring data and expect to utilize this exception(s), EPA recommends you begin the required data collection in your first year of permit coverage.

a. Aluminum:

i. Conditions for this exception are:

- 1) Use of EPA's 2018 National Recommended Aluminum Aquatic Life Criteria: <https://www.epa.gov/wqc/aquatic-life-criteria-aluminum>;
- 2) In-stream waterbody sampling for the three water quality input parameters for the recommended criteria model: pH, total hardness, and dissolved organic carbon (DOC); and
- 3) Completion of sampling events sufficient to capture spatial and temporal variability. Sampling events must adequately represent each applicable season at the facility's location, which would likely be over the course of at least one year. An equal number of ambient waterbody samples must be collected at a single upstream and downstream location from the operator's discharge point(s) to the receiving water of the United States. Where there exists no ambient source water upstream of the operator's discharge point(s) to the receiving water of the United States, samples of the ambient downstream waterbody conditions are sufficient.

ii. The demonstration provided to EPA must include, at minimum:

- 1) A description of the sampling, analysis, and quality assurance procedures that were followed for data collection, following the guidance in Section 2021 MSGP Permit Parts 1-7 3 of EPA's Industrial Stormwater Monitoring & Sampling Guide. https://www.epa.gov/sites/production/files/201511/documents/msgp_monitoring_guide.pdf;

2) The input parameters and export of results from the Aluminum Criteria Calculator, available at: <https://www.epa.gov/sites/production/files/2018-12/aluminum-criteria-calculator-v20.xlsm>; and,

3) A narrative summary of results.

b. Copper (only for discharges to freshwater):

i. Conditions for this exception are:

1) Use of EPA's 2007 National Recommended Freshwater Copper Aquatic Life Criteria: <https://www.epa.gov/wqc/aquatic-life-criteria-copper>;

2) In-stream waterbody sampling for the 10 water quality input parameters to the BLM for copper: pH; dissolved organic carbon (DOC); alkalinity; temperature; major cations (calcium, magnesium, sodium, and potassium); and major anions (sulfate, chloride);

3) The water quality input parameters, with the exception of temperature, must fall within the range of conditions recommended for use in the BLM, found in Table 1-1 of the Data Requirements document:

<https://www.epa.gov/sites/production/files/2015-11/documents/copperdata-requirements-training.pdf>; and

4) Completion of sampling events sufficient to capture spatial and temporal variability. Because some of the BLM input parameters are known to vary seasonally, EPA suggests a possible starting point of at least one sampling event per season.²⁰ Sampling events must adequately represent each applicable season at the facility's location, which would likely be over the course of at least one year. An equal number of ambient waterbody samples must be collected at a single upstream and downstream location from the operator's discharge point(s) to the receiving water of the United States. Where there exists no ambient source water upstream of the operator's discharge point(s) to the receiving water of the United States, samples of the ambient downstream waterbody conditions are sufficient.

ii. The demonstration provided to EPA must include, at minimum:

1) A description of the sampling, analysis, and quality assurance procedures that were followed for data collection, following the guidance in Section 3 of EPA's Industrial Stormwater Monitoring and Sampling Guide.

https://www.epa.gov/sites/production/files/2015-11/documents/msgp_monitoring_guide.pdf;

2) A discussion of how the data collected reflects the site-specific characteristics and how the operator considered special circumstances that may affect copper toxicity throughout the expected range of receiving water conditions;

3) The input file and export of the results from the BLM software, which can be requested at: <https://www.epa.gov/wqs-tech/copper-biotic-ligandmodel>; and

4) A narrative summary of results.

5.2.6.5 Demonstrated to not result in any exceedance of water quality standards:

You must demonstrate to EPA within 30 days of the AIM triggering event that the triggering event does not result in any exceedance of water quality standards. If it is not feasible to complete this demonstration within 30 days, you may take up to 90 days, documenting in your SWPPP why it is infeasible to complete the demonstration within 30 days. EPA may also grant you an extension beyond 90 days, based on an appropriate demonstration by you, the operator. The demonstration to EPA, which will be made publicly available, must include the following minimum elements in order to be considered for approval by the EPA Regional Office:

- a. the water quality standards applicable to the receiving water;
- b. the average flow rate of the stormwater discharge;
- c. the average instream flow rates of the receiving water immediately upstream and downstream of the discharge point;
- d. the ambient concentration of the parameter(s) of concern in the receiving water immediately upstream and downstream of the discharge point demonstrated by full-storm composite sampling;
- e. the concentration of the parameter(s) of concern in the stormwater discharge demonstrated by full-storm, flow-weighted composite sampling;
- f. any relevant dilution factors applicable to the discharge; and g. the hardness of the receiving water

Timeframe of EPA Review of Your Submitted Demonstration: EPA will review and either approve or disapprove of such demonstration within 90 days of receipt (EPA may take up to 180 days upon notice to you before the 90th day that EPA needs additional time).

- **EPA Approval of Your Submitted Demonstration.** If EPA approves such demonstration within this timeframe, you have met the requirements for this exception, and you do not have to comply with the corresponding AIM requirements and continued benchmark monitoring.
- **EPA Disapproval of Your Submitted Demonstration.** If EPA disapproves such demonstration within this timeframe, you must comply with the corresponding AIM requirements and continued benchmark monitoring, as required. Compliance with the AIM requirements would begin from the date EPA notifies you of the disapproval unless you submit a Notice of Dispute to the applicable EPA Regional Office in Part 7 within 30 days of EPA's disapproval.
- **EPA Does Not Provide Response Related to Your Submitted Demonstration.** If EPA does not provide a response on the demonstration within this timeframe, you may submit to the EPA Regional Office in Part 7 a Notice of Dispute.
- **Operator Submittal of Notice of Dispute.** You may submit all relevant materials, including support for your demonstration and all notices and responses to the Water Division

Director for the applicable EPA Region to review within 30 days of EPA's disapproval or after 90 days (or 180 days if EPA has provided notice that it needs more time) of not receiving a response from EPA.

- **EPA Review of Notice of Dispute.** EPA will send you a response within 30 days of receipt of the Notice of Dispute. Time for action by you, the operator, upon disapproval shall be tolled during the period from filing of the Notice of Dispute until the decision on the Notice of Dispute is issued by the Water Division Director for the applicable EPA Region.

5.3 Corrective Action and AIM Documentation

5.3.1 Documentation within 24 Hours. You must document the existence of any of the conditions listed in Parts 5.1.1, 5.2.3, 5.2.4, or 5.2.5 within 24 hours of becoming aware of such condition. You are not required to submit this documentation to EPA, unless specifically required or requested to do so. However, you must summarize your findings in the annual report per Part 7.4. Include the following information in your documentation:

5.3.2 Description of the condition or event triggering the need for corrective action review and/or AIM response. For any spills or leaks, include the following information: a description of the incident including material, date/time, amount, location, and reason for spill, and any leaks, spills or other releases that resulted in discharges of pollutants to waters of United States, through stormwater or otherwise;

5.3.2.1 Date the condition/triggering event was identified;

5.3.2.2 Description of immediate actions taken pursuant to Part 5.1.3.1 to minimize or prevent the discharge of pollutants. For any spills or leaks, include response actions, the date/time clean-up completed, notifications made, and staff involved. Also include any measures taken to prevent the reoccurrence of such releases (see Part 2.1.2.4); and

5.3.2.3 A statement, signed and certified in accordance with Appendix B, Subsection 11.

5.3.3 Documentation within 14 Days. You must also document the corrective actions and/or AIM responses you took or will take as a result of the conditions listed in Part 5.1.1, 5.2.3, 5.2.4, and/or 5.2.5 within 14 days from the time of discovery of any of those conditions/triggering events. Provide the dates when you initiated and completed (or expect to complete) each corrective action and/or AIM response. If infeasible to complete the necessary corrective actions and/or AIM responses within the specified timeframe, per Parts 5.1.1, 5.2.3, 5.2.4, or 5.2.5, you must document your rationale and schedule for installing the controls and making them operational as soon as practicable after the specified timeframe. If you notified EPA regarding an allowed extension of the specified timeframe, you must document your rationale for an extension. Include any additional information and/or rationale that is required and/or applicable to the specified corrective action and/or AIM response in Part 5. You are not required to submit this documentation to EPA, unless specifically required or 2021 MSGP requested to do so. However, you must summarize your corrective actions and/or AIM responses in the Annual Report per Part 7.4.