

**Portsmouth Naval Shipyard
Kittery, Maine**

Stormwater Program Management Plan



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Portsmouth Naval Shipyard

Stormwater Program Management Plan October 2013

Introduction

The Maine Department of Environmental Protection (MDEP) is the permitting authority for the National Pollution Discharge Elimination System (NPDES) in the state of Maine. In accordance with Phase II stormwater regulations, the MDEP has issued a General Permit for the Discharge of Stormwater from State or Federally Owned Municipal Separate Storm Sewer Systems (MS4s). As a Federal facility located within a designated Urbanized Area, the Portsmouth Naval Shipyard (Shipyard) is required to submit for coverage under the General Permit or apply for an individual permit. The MDEP encourages MS4s to utilize the General Permit in lieu of individual permits where appropriate. The Shipyard applied for a General Permit which is effective on July 1, 2013 and expires on June 30, 2018. The Shipyard's General Permit Number is #MER042004. The General Permit does not affect the requirements under other applicable Maine statutes such as Coastal Zone Management Act, Site Location of Development (Site Law), Stormwater Management, and Natural Resource Protection Act (NRPA). The General Permit requires that the Shipyard create a five-year Stormwater Program Management Plan (SPMP) to address the following six minimum control measures:

1. Public Education and Outreach on Stormwater Impacts
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Stormwater Runoff Control
5. Post-Construction Stormwater Management in New Development and Redevelopment
6. Pollution Prevention/Good Housekeeping for Facility Operations

Background

The mission of Portsmouth Naval Shipyard is to support the national defense of the United States (U.S.) by performing repair, maintenance, modernization and deactivation of U. S. Navy nuclear-powered submarines. The population of the Shipyard is approximately 4,800 civilian employees (including tenants) and 900 assigned fulltime and transient military personnel.

The Shipyard is located in Kittery, Maine and occupies Seavey Island, a 278-acre island located near the mouth of the Piscataqua River within York County. The Shipyard is connected to Kittery by two bridges. The Piscataqua River forms the southern portion of the boundary between the states of Maine and New Hampshire. The Shipyard is located approximately three nautical miles from the Atlantic Ocean and is surrounded by navigable water.

The Shipyard is the largest employer in the area and is one of the largest employers in both Maine and New Hampshire. The facility's economic impact on the surrounding area is significant.

The Shipyard's environmental management program resides in the Environmental Division of the Occupational Safety, Health and Environmental (OSHE) Office. Engineers and environmental protection specialists in the Environmental Division are responsible for program management.

Several community agreements, boards and partnerships influence the Shipyard's environmental program. The Shipyard maintains a mutual assistance agreement with the New Hampshire Department of Environmental Services (NHDES). The Shipyard is a member of the Local Emergency Planning Committee (LEPC) and also has mutual aid agreements with the York County Emergency Management Agency (YCEMA) and the Kittery Fire Department.

The Shipyard's assistance agreement with NHDES has been in place since May 2012. Prior to partnering with NHDES the Shipyard was a member of the now discontinued Piscataqua River Cooperative (PRC). Portsmouth Naval Shipyard was a member of the PRC between October 1996 and May 2012. The partnership consists of NHDES and Portsmouth Naval Shipyard, both of which have vested interests along the shores of the Piscataqua River. The purpose of the partnership is to provide combined resources for rapid emergency containment and control of a petroleum product spill anywhere on the river. The Shipyard has a response team and equipment to support the agreement.

The Shipyard has had a mutual aid agreement since April 1992 with the YCEMA to provide emergency response to incidents involving the release of hazardous substances.

The Shipyard also has a mutual aid agreement with the Kittery Fire Department to provide assistance for both fires and hazardous substance releases.



Portsmouth Naval Shipyard

Purpose

The Shipyard shall develop, implement, and enforce a Stormwater Program Management Plan implementing six minimum control measures, set forth in the MDEP General Permit, which are designed to reduce the discharge of pollutants from the regulated small MS4 (Portsmouth Naval Shipyard, Permit #MER42004) to the maximum extent practicable (MEP) to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act. The Plan and all Minimum Control Measures must be substantially implemented by June 30, 2018. The General Permit requires the permittee to submit an annual report based on a reporting period of July 1 to June 30. The report shall be submitted to the Department for review and approval by September 15th each year.

References

- General Permit for the Discharge of Stormwater from State or Federally Owned Municipal Separate Storm Sewer Systems, MDEP, July 1, 2013

- MDEP Multi-Sector General Permit (MSGP), Maine Pollutant Discharge Elimination System (MPDES), Stormwater Discharge Associated with Industrial Activity, April 26, 2011
- Stormwater Pollution Prevention Plan, Portsmouth Naval Shipyard
- Environmental Protection Program Manual, NAVSHIPYD PTSMH INSTRUCTION 5090.1, October 2, 2013
- Stormwater Management Plan, Portsmouth Naval Shipyard, October 21, 2008
- Stormwater Management Annual Report for 2012/2013 (Year 5), Portsmouth Naval Shipyard

Stormwater Program Overview

The Shipyard has developed and implemented a stormwater program. The Phase II regulations and MDEP General Permit enhance the program. Information about the MSGP stormwater program is described below.

In 2001, the MDEP received authority to administer the federal program. In October 2005, and most recently in April 2011, MDEP issued a general permit, known as the Multi-Sector General Permit (MSGP), for stormwater discharges associated with industrial activity. These successive permits ultimately replaced a similar general permit that the EPA had issued in 2000 and by which the Shipyard was first covered.

The Shipyard has maintained a stormwater permit since the EPA promulgated regulations under the CWA. The Portsmouth Naval Shipyard currently maintains coverage under the MDEP MSGP (MER05B441) by having submitted a Notice of Intent (NOI) with the MDEP, thereby agreeing to comply with the terms and conditions of the MSGP. A condition of this permit is the development and implementation of a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP establishes policy, responsibilities and procedures for the stormwater pollution prevention program and provides technical guidance on the prevention of pollution due to stormwater runoff from Shipyard industrial areas. The Shipyard must comply with the permit requirements for the following industrial sectors co-located at the Shipyard:

- Ship Building and Repair Facilities
- Hazardous Waste Storage & Transfer Facilities
- Steam Electric Generating Facilities
- Primary Metal Products Facilities

The storm water program is designed to reduce pollutants being discharged into receiving waters of the United States. Elimination of any potential non-storm water discharges and source control are the major elements of the program. The SWPPP consists of Best Management Practices (BMPs), structural controls, training, inspection

policies, and storm water sampling. The controls and policies are intended to work together to minimize storm water pollution from the Shipyard.

The SWPPP is part of an overall storm water program designed to regulate storm water quality from industrial facilities. Elimination of non-storm water discharges to the storm drain system is a major requirement of the storm water program. Under the multi-sector industrial permit, all non-storm water discharges not currently covered under an existing NPDES permit must be terminated. Any personnel with knowledge of an existing illicit discharge into the storm drain system must contact the Environmental Division's Storm Water and Wastewater Program Manager at (207) 438-1481 to initiate corrective action.

A storm water monitoring and sampling plan is also a required element of the MSGP Storm Water Program. Samples of storm water runoff are collected to evaluate the effectiveness of the implemented BMPs.

The Shipyard's Stormwater Program includes cleaning of stormwater structural components such as grease traps and catch basins. Included in the catch basin cleaning is a component to complete an inspection record to enable the Shipyard to evaluate cleaning frequency needs and condition of the structure. The stormwater program also includes a street sweeping program. The Shipyard purchased a state-of-the-art street sweeper to help with paved surface cleanup on a regular basis.

Visual monitoring continues to be performed under the MSGP, sampling results are indicative of low turbidity and contaminant levels in these stormwater discharges. These results suggest that continued implementation of stormwater BMPs and good operations & maintenance practices are resulting in the reduction of pollution.

Environmental Programs Overview

Pollution Prevention (P2). P2 is the reduction or elimination of pollution at the source, before it is created. The Shipyard has an aggressive P2 Program that is overseen by the Shipyard's P2 Team. The Shipyard's policy is to prevent pollution by:

- Increasing awareness and promoting a pollution prevention ethic through education;
- Eliminating the use of materials and products, to the maximum extent possible, that contain hazardous substances;
- Substituting materials and products that contain less hazardous substances;
- Changing work processes to eliminate or reduce hazardous substance releases;
- Recycling generated wastes; and
- Using treatment and disposal only as the final management tool.

P2 is a tool to minimize environmental impacts of Shipyard operations.

Hazardous Waste (HW). The Shipyard has established standardized procedures for HW generators to use in the handling, storage, packaging, marking and transfer of HW in compliance with Federal, State, and Navy requirements. The Shipyard also has a permitted Hazardous Waste Storage Facility (HWSF) located on the Shipyard itself. HW is defined as material that is specifically listed in EPA or state environmental regulations or exhibits ignitability, corrosivity, reactivity or toxicity as defined by either EPA or the MDEP.

Sometimes further testing and analysis of suspected HW is needed to determine if a material exhibits ignitability, corrosivity, reactivity and toxicity to make it a HW. Code 106.3 (Environmental Division) personnel perform all sampling to determine if a suspected material is classified as a hazardous or a non-HW. Analyses are performed by a state and Navy certified laboratory.

The handling, accumulation, and storage of HW are very heavily regulated. The shipyard has an established network of HW accumulation areas to manage the HW it generates.

In May of 2001, the HWSF at Portsmouth Naval Shipyard became licensed as a Commercial HWSF capable of receiving HWs from Department of Defense (DoD) New England Facilities.

The centralized consolidation HWSF provides a better service at a better price to DoD facilities. Portsmouth HWSF personnel have extensive background in HW management and have developed a Record Management System, providing full cradle-to-grave tracking of all HW shipments. Shipyard staff personally audits all treatment, storage and disposal facilities that are used for final disposal, to ensure adequate environmental performance and regulatory compliance.

Hazardous Material Management. The Navy established a Navy-wide program called Consolidated Hazardous Material Reutilization and Inventory Management Program (CHRIMP). The Navy-wide material management concept deals with hazardous material (HM) through acquisition, storage, issuance and disposal preparation from one or more central control and distribution points at the Shipyard.

It is the policy of the Shipyard to support the philosophy of CHRIMP in an effort to reduce the quantities of HM purchased, stored, and used in the performance of its mission. It is also the policy of this Shipyard to support the requirements of both the environmental and occupational health communities to identify the use of HM and minimize its impact on the user as well as the environment by reducing and controlling the quantities of HM stored at the facility. This includes the reuse of expired shelf-life (ESL) material whenever possible.

Oil and Oily Waste Handling Program. Oil is used in many facilities throughout the Shipyard. The Oil and Oily Waste Handling Program is responsible for establishing procedures and methods to prevent discharge of oil from non-transportation-related facilities from entering navigable water or adjoining shorelines. The Oil and Oily Waste

Handling Program is also responsible for providing information on what to do in case of a spill and how to dispose of oily waste and waste oil.

Solid Waste Program. The Shipyard has established operating procedures for collection, categorization, segregation, and disposal of solid waste on the Shipyard. As part of the Shipyard's program to improve environmental procedures, the Shipyard has combined the management of both solid waste and recycling as an Integrated Solid Waste Management Program.

- Burnable waste is collected in red covered dumpsters.
- Non-burnable waste (i.e. rubber, plastic) is collected in black open top dumpsters.
- Wood waste is collected in open top three-yard brown dumpsters and consolidated in open top 30-yard roll-offs.
- Cardboard is collected in blue covered dumpsters.
- Empty paint containers are collected in orange enclosed dumpsters.
- Scrap metal (mixed) is collected in three-yard gray open top dumpsters and consolidated for disposal in Navy Qualified Recycling Program (QRP) 30-yard open top roll-offs.

Collection and storage of wood and mixed metals in dumpsters and roll-offs minimizes exposure and contaminants by keeping the waste off the ground.

The Shipyard is responsible for prohibiting and policing hazardous wastes from being thrown into non-hazardous waste dumpsters. The Shipyard's solid waste contractor and QRP scrap metal contractors are responsible for inspecting container integrity, and the containment of contents before transporting off installation to disposal site.

Six Minimum Control Measures

The following table describes each of the six required minimum control measures that the Shipyard is required to address as part of the General Permit and actions taken to address each measure.

1. Public Education and Outreach on Stormwater Impacts				
Requirement	BMP/Measurable Goal	Implementation Timeline	Responsible Party	Comments
1.a. Raise awareness that polluted stormwater runoff is the most significant source of water quality problems for Maine's waters.	Continue outreach efforts from the previous permit cycle while developing or revising an existing awareness plan	Year 1	Code 106.3 (Environmental Division) SWPP Team (Stormwater Pollution Prevention Team)	
	Develop or revise a Public Awareness Plan	Submit Plan to DEP by December 1, 2013. The plan is considered approved unless DEP responds in writing or verbally otherwise by February 1, 2014. Begin implementation of the Plan within one week of its approval.	Code 106.3 SWPP Team	The Plan's goal must be to raise awareness of polluted stormwater runoff issues such as the path stormwater runoff takes, sources of stormwater pollution and the impact that polluted stormwater runoff has in the community. The Public Awareness Plan must identify: a. target audience b. outreach tools to be used c. message d. distribution system e. time line and implementation schedule f. responsible persons for implementation g. an impact evaluation tool h. a Plan modification protocol (this must include DEP approval of significant plan modifications) i. goals (e.g., targeted level of change sought as a result of the education and outreach effort)
	Review the Public	Years 1-5	Code 106.3	Review must include process indicators to

Requirement	BMP/Measurable Goal	Implementation Timeline	Responsible Party	Comments
	Awareness Plan in each annual report.	<p>Year 1: assess target audience to set the baseline and inform the development of the Plan.</p> <p>Year 3: do a cursory evaluation and assessment on both the progress of implementing the Plan as well as the impact the efforts are having on the target audience.</p> <p>Year 5: provide an in-depth assessment of both the implementation and the impact of the Plan</p>	SWPP Team	<p>assess execution of the Plan. The report shall also include impact indicators.</p> <p>Process indicators: relate to execution of the program (e.g. did people attend the meetings? Did the press release result in media coverage?)</p> <p>Impact indicators: relate to the achievement of the goals/objectives of the program (e.g. what effect did the effort have on behavior?)</p> <p>Year 5: include a comprehensive review of the Awareness Plan in the fifth year Annual Report.</p>
1.b. Motivate people to use Best Management Practices (BMPs) which reduce polluted storm water runoff	Continue outreach efforts from the previous MS4 permit cycle while developing or revising a new BMP Adoption Plan	Year 1	Code 106.3	
	Develop or revise a Targeted BMP Adoption Plan	By November 1, 2013 develop or revise a Plan to encourage adoption of BMPs. Select at least one specific BMP to target for a focused outreach Plan. Also select the appropriate audience to target. January 15, 2014: Unless DEP responds in writing or verbally otherwise, The Plan is considered approved and must begin implementation. Begin implementation of the Plan	Code 106.3 SWPP Team	<p>The Targeted BMP Adoption Plan must identify:</p> <ol style="list-style-type: none"> BMP target audience outreach tools to be used message distribution system time line responsible persons for implementation impact evaluation protocol Plan modification protocol (this must include DEP approval of significant plan modifications) Targeted level of change as a result of the outreach effort

Requirement	BMP/Measurable Goal	Implementation Timeline	Responsible Party	Comments
		within one week of its approval.		
	Review the Targeted BMP Adoption Plan in each Annual Report.	<p>Years 1-5</p> <p>Year 1: assess target audience to set the baseline and inform the development of the Plan.</p> <p>Year 3: do a cursory evaluation and assessment on both the progress of implementing the Plan as well as the impact the efforts are having on the target audience.</p> <p>Year 5: provide an in-depth assessment of both the implementation and the impact of the Plan.</p>	Code 106.3 SWPP Team	<p>Review must include process indicators to assess execution of the Plan. The report shall also include impact indicators.</p> <p>Process indicators: relate to execution of the program (e.g. did people attend the meetings? Did the press release result in media coverage?)</p> <p>Impact indicators: relate to the achievement of the goals/objectives of the program (e.g. what effect did the effort have on behavior?)</p> <p>Year 5: "include a comprehensive review of the BMP Adoption Plan" in its fifth year Annual Report.</p>
1.c. Reduce polluted stormwater runoff as a result of increased awareness and utilization of BMPs	Continue existing education and outreach efforts	Year 1-5	Code 106.3	Adoption and use of BMPs by targeted audience in order to reduce polluted stormwater runoff is a goal of this section, but is not a condition of compliance with the education and outreach minimum control measure.
	Develop both an Awareness Plan and a BMP Adoption Plan	Year 1	Code 106.3 SWPP Team	
	Successfully execute Plans	Years 1-5	Code 106.3 SWPP Team	
	Report process and impact indicators	Years 1-5	Code 106.3 SWPP Team	
	Complete annual reports and a 5-year analysis of the plans	Years 1-5	Code 106.3 SWPP Team	

2. Public Involvement and Participation

Requirement	BMP/Measurable Goal	Implementation Timeline	Responsible Party	Comments
2.a. Public notice requirements. Comply with applicable state and local Public Notice requirements using effective mechanisms for reaching the public.	Involve the facility's community in both the planning and implementation process of improving water quality and reducing quantity via the stormwater program.	Years 1-5	Code 106.3 PWM	Document meetings and attendance through the annual report as a way of measuring this goal.
	Continue to hold Stormwater Pollution Prevention team meetings minimum 2/year.	Years 1-5	Code 106.3	Participants: Environmental and Public Works Department Maine (PWD-Maine) minimum. Expand to include other Codes and tenants as appropriate
	Maintain and publicize a "Hotline" to receive stormwater inquiries, as well as other Environmental and OSH concerns.	Years 1-5	Code 106	An OSHE DR system has been established and affords every PNSY employee the ability to create a deficiency report related to environmental and OSH issues. The generated report is electronically delivered to the program manager affected and reviewed for accuracy. Once the problem has been documented, the program manager investigates the issue, determines the appropriate immediate response, and also determines the long term response required to prevent the incident from recurring. In addition to the OSHE DR system, program managers are available via phone and internet.
	Encourage and promote public cleanup activities such as: -Shoreline cleanup of Clark Island once per year. -Shipyard community	Years 1-5	Code 106.3	

2. Public Involvement and Participation

Requirement	BMP/Measurable Goal	Implementation Timeline	Responsible Party	Comments
	<p>cleanups. Publicize cleanup activities with articles in the Periscope or on the Shipyard's website.</p>			
<p>2.b. Public Event. Shall annually host/conduct or participate in a public event.</p>	<p>The public event will be decided upon by the Storm Water Pollution Prevention team each year</p>	<p>Years 1-5</p>	<p>Code 106.3 SWPP Team</p>	<p>The event must have a pollution prevention and/or water quality theme. The target audience should include a large cross section of the facilities' community. The Annual Report shall include a report of the public event including process indicators which assess the permittee's planning and execution, as well as impact indicators which assess the effectiveness of the event. The fifth year annual report shall include a comprehensive review of the public events.</p>

3. Illicit Discharge Detection and Elimination

Requirement	BMP/Measurable Goal	Implementation Timeline	Responsible Party	Comments
3. Develop, implement and enforce a program to detect and eliminate illicit discharges and non-stormwater discharges, except as provided in the general permit.				
3.a. Maintain a watershed based storm sewer system infrastructure map.	The map shall show the location of all stormwater catch basins, connecting surface and subsurface infrastructure depicting the direction of in-flow and out-flow pipes and locations of all discharges from all stormwater outfalls operated by the Shipyard. Each catch basin must be uniquely identified to facilitate control of potential illicit discharges, and to ensure proper operation and maintenance of the structures. For each outfall, the following information must be included: Type, material, and size of conveyance, outfall or channelized flow; the name and location of the immediate surface water body or wetland to which the stormwater runoff discharges.	Years 1-5	PWD-Maine	The Shipyard updates the stormwater system map as new storm sewer system facilities are constructed, added, or detected.
3.a.i. Identify priority areas.	Identify priority areas including but not limited to areas suspected of illicit discharges, areas known to contribute pollutants or sediments and areas scheduled for maintenance and construction activities.	By January 3, 2014	Code 106.3 SWPP Team	
	Develop strategies to reduce or eliminate the discharge of known pollutants of concern.	By January 3, 2014	Code 106.3 SWPP Team	
	Implement strategies to reduce or eliminate the discharge of known pollutants.	By January 3, 2014	Code 106.3 SWPP Team	
3.a.ii. Dry weather inspections	Conduct dry weather inspections of all storm sewer outfalls.	Years 1-5	Code 106.3 PWD-Maine	Most all outfalls discharge in the Piscataqua River, which is tidal. The river is very large and has strong

Requirement	BMP/Measurable Goal	Implementation Timeline	Responsible Party	Comments
	Update, as required, the procedure/policy or protocol that details the steps that must be taken when an illicit discharge is identified during inspections to locate the source of the illicit discharge and eliminate it.	Years 1-5	Code 106.3 PWD-Maine	currents and mixing during tidal changes. Upon identification of an illicit discharge, the following steps are taken. -Confirm illicit discharge. -Terminate the illicit discharge if possible. -Generate an OSHE DR to document and track progress towards correcting the illicit discharge. -Research existing maps and design drawings -Generate a PWD-Maine Work Request (WR) to initiate corrective action to remedy the problem. -Design and implement solution.
3.a. Maintain procedures for notifying the appropriate state or municipal enforcement authorities regarding illicit connections and discharges identified.	Code 106.3 should be considered the "municipal enforcement authority" for the Shipyard regarding illicit connections and discharges. Maintain procedures for notifying Code 106.3.	By October 1, 2008	Code 106 Code 106.3 PWD-Maine	Options available for notifying Code 106.3 (Environmental Division) of illicit connection/discharges include: - File an OSHE DR. - Call Code 106.3 with information about suspect discharges to the storm drain as recommended in Environmental Awareness Bulletins. -Shipyard written Instructions prompt employees to call Code 106.3 with questions about proper disposal techniques or to report suspicion of improper disposal.
3.b Non-stormwater discharges	Identify authorized non-stormwater discharges that may be significant contributors of pollutants to the Shipyard.			See Section on "Non-Stormwater Discharges" for a list of authorized non-stormwater discharges.

4. Construction Site Stormwater Runoff Control

Requirement	BMP/Measurable Goal	Implementation Timeline	Responsible Party	Comments
4. Each permittee shall develop, implement and enforce a program, or modify an existing program, to reduce pollutants in any stormwater runoff (including discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste that may cause adverse impacts to water quality) to the regulated small MS4 or waters of the State from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of stormwater discharges from construction activity disturbing less than one acre shall be included in the program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more.				
4.a. If the permittee relies on the Maine Construction General Permit or Chapter 500, Stormwater Management, the program must include the development and implementation of: (see below)	Rely on the Maine Construction General Permit (MCGP) program and Chapter 500, Stormwater Management.	Years 1-5	Code 106.3 PWD-Maine	Many projects submit information to MDEP to fulfill the requirements of the Site Location of Development Law.
	Submit appropriate construction projects to the State for Federal Consistency Determination, including Site Law as appropriate.	Years 1-5	Code 106.3 PWD-Maine	
	For projects with >1 acre of disturbance, the Shipyard will apply for a MCGP as part of the Federal Consistency Determination package, including the Site Law Application.	Years 1-5	Code 106.3 PWD-Maine	
4.a.i. Procedures for notifying construction site developers and operators of the requirements for registration under the MCGP or Chapter 500, Stormwater management for the	Contract specifications will be written to include notifying construction site developers and operators of the requirements for registration under the MCGP for the discharge of	Years 1-5	Code 106.3 PWD-Maine	The Shipyard will typically be the applicant for the MCGP.

Requirement	BMP/Measurable Goal	Implementation Timeline	Responsible Party	Comments
<p>discharge of stormwater associated with construction activities; and</p> <p>4. a. ii. Document every construction activity that disturbs one or more acres at the Shipyard.</p>	<p>stormwater associated with construction activities.</p> <p>Projects are submitted to MDEP to fulfill the requirements of the Site Location of Development Law.</p>	Years 1-5	Code 106.3 PWD-Maine	
<p>4. a. iii. Implement site inspection procedures to ensure projects are in compliance with the MCGP and Chapter 500, Stormwater Management.</p>	<p>Construction activities must be inspected at least three times with one inspection at project completion to ensure that all post construction BMPs were properly installed, and that stabilization of the site has been completed. All construction inspections must be properly documented. Develop and implement inspection procedures and documentation.</p>	Years 1-5	PWD-Maine	
	<p>The Shipyard already has a Zone Inspection program. Additional training and emphasis on erosion and sediment control inspection will be highlighted.</p>	Years 1-5	Code 106.3	

5. Post-Construction Stormwater Management in New Development & Redevelopment.

Requirement	BMP/Measurable Goal	Implementation Timeline	Responsible Party	Comments
<p>5.a.i. Continue to implement and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharges into the storm sewer system, MS4 or directly to waters of the State other than groundwater. Ensure that controls are in place that are designed to prevent or minimize water quality impacts.</p>				
<p>5.a.ii. Develop and implement appropriate strategies that include a combination of structural and/or non-structural BMPs.</p>				
<p>5.a.iii. Ensure adequate long-term operation and maintenance of post construction BMPs.</p>	<p>Annually inspect post construction BMPs that were installed on or after July 1, 2008. The inspection must determine if the BMP is adequately maintained and is functioning as intended or requires maintenance.</p> <p>If post construction BMP requires maintenance, provide a record of the deficiency and corrective actions(s) taken.</p>	<p>Years 1-5</p>	<p>PWD-Maine</p>	
		<p>Years 1-5</p>	<p>PWD-Maine</p>	<p>Include the following in the annual report:</p> <ul style="list-style-type: none"> • The cumulative number of post construction BMPs discharging into waters of the State or separate storm sewer system; • The number of sites with documented functioning post construction BMPs; and • The number of sites that required routine maintenance or remedial actions to ensure that the post construction BMP is functioning as intended.

6. Pollution Prevention/Good Housekeeping for Facility Operations

Requirements	BMP/Measurable Goal	Implementation Timeline	Responsible Party	Comments
<p>6. This Minimum Control Measure has the ultimate goal of preventing or reducing pollutant runoff from Shipyard roads, other paved surfaces, infrastructure, and facilities through the development and implementation of an operation and maintenance ("O&M") program.</p> <p>6.a.i.</p>	<p>Maintain the inventory of potential pollutant sources and associated operations conducted in, on, or associates with facilities, buildings, roads, travel ways that have the potential to cause or contribute to stormwater or surface water pollutions.</p>	<p>Years 1-5</p>	<p>Code 106.3 SWPP Team</p>	<p>Potential pollutant sources include construction sites and industrial activities/areas identified in the Shipyard's Stormwater Pollution Prevention Plan (SWPPP). PNSY currently maintains coverage under the MEDEP MSGP (MER05B441) The SWPPP consists of Best Management Practices (BMPs), structural controls, training, inspection policies, and storm water sampling. The controls and policies are intended to work together to minimize storm water pollution from the Shipyard.</p>
	<p>Maintain the written operation and maintenance procedures that include maintenance schedules and inspection procedures to ensure long term operation of structural and non-structural controls that reduce stormwater pollution to the maximum extent practicable. The procedures must address, as applicable:</p> <ul style="list-style-type: none"> • Proper use, storage and disposal of petroleum and non petroleum products, hazardous materials, waste materials, pesticides and fertilizers including minimizing the use of these products, and an alternative product analysis; • Spill response and prevention • Vehicle and equipment storage, maintenance and fueling; • Amount of deicing materials used each deicing season • Landscaping and lawn care including, where applicable, an 	<p>Years 1-5</p>	<p>Code 106.3 PWD-Maine</p>	<p>The Shipyard has developed a number of instructions to identify equipment and establish procedures and methods to prevent the discharge of oil, hazardous material, or hazardous waste related to onshore facilities into or upon navigable waters of the United States or adjoining shorelines.</p> <p>Reference:</p> <ul style="list-style-type: none"> • NAVSHIPYD PTSMHINST 5090.1A Chapter 12 - Oil Pollution Prevention • NAVSHIPYD PTSMHINST 5090.3F - Oil Spill Prevention Control and Countermeasures Plan • NAVSHIPYD PTSMHINST 5090.24C – Oils and Oily Mixtures Operations Manual • NAVSHIPYD PTSMHINST 5090.30A – Hazardous Waste Generator Standards <p>Road salt is stored undercover in</p>

Requirements	BMP/Measurable Goal	Implementation Timeline	Responsible Party	Comments
	<p>evaluation of reduced mowing frequencies, establishing and maintaining buffers, cutting vegetation within 100 feet of a stormwater conveyance or surface water;</p> <ul style="list-style-type: none"> • Erosion and sediment control; • Feeding gulls, waterfowl or other wildlife; • Disposal of road-killed wildlife. 	Years 1-5	Code 106.3 PWD-Maine	<p>Building (dome) 363 which was built specifically for this purpose.</p> <p>PWD-ME manages the Pesticide Program contract which includes disposal of dead wildlife and the seagull depredation permit.</p>
6. a. ii	<p>Using available training materials, develop and implement an employee training program to prevent and reduce stormwater pollution from the Shipyard. Report annually on the types of training presented, the number of employees and contract staff that received training, the length of the training, and whether the training was effective.</p>	Years 1-5	PWD-Maine	
6. a. iii	<p>Continue to implement a program to sweep all paved streets and parking lots maintained by the Shipyard at least once a year as soon as possible after snowmelt to the extent allowable under State or Federal law.</p>	Years 1-5	PWD-Maine	
6. a. iv.	<p>Update, maintain, and continue to implement a Stormwater Pollution Prevention Plan ("SWPPP") for vehicle or equipment maintenance areas, fueling areas and for all areas used for vehicle and equipment cleaning unless the activity is currently regulated under Maine's Industrial Stormwater Program.</p>	Years 1-5	Code 106.3 PWD-Maine	<p>The Shipyard has developed and implemented Instructions to fulfill the requirements of the Shipyards Stormwater Multi-Sector General Permit for Industrial Activities.</p> <p>Reference:</p> <ul style="list-style-type: none"> • NAVSHIPYD PTSMHINST 5090.1 Chapter 7 - Water Pollution Prevention and Waste Water Management • NAVSHIPYD PTSMHINST 5090.9 - Storm Water Pollution Prevention
6. a. v.	<p>Continue to implement a program to evaluate and, if necessary, clean</p>	Years 1-5	PWD-Maine	

Requirements	BMP/Measurable Goal	Implementation Timeline	Responsible Party	Comments
6 a. vi.	<p>catch basins and other stormwater structures that accumulate sediment at least once every other year and dispose of the removed sediments in accordance with current state law. Clean catch basins more frequently if inspections indicate excessive accumulation of sediment. Excessive accumulation is greater than or equal to 50 percent filled.</p> <p>Evaluate and implement a prioritized schedule, as necessary, for repairing, or upgrading the conveyances, structures and outfalls of the regulated small MS4.</p>	Years 1-5	PWD-Maine	

Non-Stormwater Discharges

The General Permit authorizes the following non-stormwater discharges provided they do not cause or contribute to a violation of water quality standards as determined by the Department. These discharges are not considered as significant contributors of pollutants on the Shipyard.

- landscape irrigation
- diverted stream flows
- rising ground waters
- uncontaminated ground water infiltration (as defined at 40 CFR 35.2005(20))
- uncontaminated pumped ground water
- uncontaminated flows from foundation drains
- air conditioning condensate
- irrigation water
- flows from uncontaminated springs
- uncontaminated water from crawl space pumps
- uncontaminated flows from footing drains
- lawn watering runoff
- flows from riparian habitats and wetlands
- residual street wash water (where spills/leaks of toxic or hazardous materials have not occurred unless all spilled material has been removed and detergents are not used)
- hydrant flushing and fire fighting activity runoff
- discharges from potable water sources and water line flushing
- dechlorinated swimming pool discharges

Steam Condensate

As an industrial facility with a power plant, the Shipyard generates steam for heating used throughout the Shipyard. Steam condensate discharges at numerous locations that typically discharge to the ground and eventually to the storm drain system. All the storm drains ultimately discharge to the Piscataqua River. The river provides mixing and dilution of any potential thermal impact. The stormwater General Permit allows for air conditioner condensate, but is silent on steam condensate. The Shipyard understands this may be a global issue as many urban, state and industrial sites use steam to heat. In an effort to determine the potential impact the discharge of steam condensate may have on water quality, two steam condensate discharge samples were collected and analyzed for a number of parameters with EPA "benchmark" values listed in the MSGP. The samples were exceptionally clean. Below are the results from the two samples.

Steam Condensate Analytical Results

Sample Date: 12/10/03

Portsmouth Naval Shipyard

Kittery, Maine

Parameter	Building 43	Building 64	EPA Stormwater Benchmark Values
TSS (mg/l)	ND (<1)	ND (<1)	100
Chloride (mg/l)	ND (<1)	ND (<1)	860
Oil & Grease (mg/l)	ND (<5)	ND (<5)	15
COD (mg/l)	15	ND (<13)	120
Ammonia (mg/l)	ND (<1)	ND (<1)	19
Mercury (ug/l)	ND (<0.5)	ND (<0.5)	2.4
Nitrate+Nitrite (N) (mg/l)	ND (<0.05)	ND (<0.05)	0.68
pH	6.6	6.0	6.0 - 9.0
Aluminum (mg/l)	ND (<0.5)	ND (<0.5)	0.75
Antimony (mg/l)	ND (<0.5)	ND (<0.5)	0.636
Arsenic (mg/l)	ND (<0.1)	ND (<0.1)	0.16854
Beryllium (mg/l)	ND (<0.1)	ND (<0.1)	0.13
Cadmium (mg/l)	ND (<0.01)	ND (<0.01)	0.0159
Copper (mg/l)	ND (<0.05)	ND (<0.05)	0.0636
Iron (mg/l)	ND (<1.0)	ND (<1.0)	1.0
Lead (mg/l)	ND (<0.05)	ND (<0.05)	0.0816
Magnesium (mg/l)	ND (<0.05)	ND (<0.05)	0.0636
Manganese (mg/l)	ND (<1.0)	ND (<1.0)	1.0
Nickel (mg/l)	ND (<1.0)	ND (<1.0)	1.417
Selenium (mg/l)	ND (<0.1)	ND (<0.1)	0.2385
Silver (mg/l)	ND (<0.01)	ND (<0.01)	0.0318
Zinc (mg/l)	ND (<0.1)	ND (<0.1)	0.117
Phosphorus (mg/l)	ND (<1.0)	ND (<1.0)	2.0

Based on the analytical results and mixing & dilution from the Piscataqua River, the Shipyard does not consider the discharge of steam condensate as a significant contributor of pollutants and the effects on water quality in the Piscataqua River are de minimis and is considered an allowable non-stormwater discharge pursuant to the General Permit.

Reporting and Record Keeping Requirements

The General Permit requires the permittee to submit an annual report based on a reporting period of July 1 to June 30. The Shipyard must submit a report to the MDEP Stormwater Coordinator by September 15, 2014, and annually thereafter by September 15 for the Department's review and approval. The report must include the following:

- The status of compliance with permit conditions based on the permittee's Plan, an assessment of the appropriateness of identified best management practices, progress towards achieving identified measurable goals for each of the Minimum Control Measures and progress towards achieving the goal of reducing the discharge of pollutants to the Maximum Extent Practicable.

- Results of information collected and analyzed, including monitoring data, if any, during the reporting period.
- A summary of the stormwater activities the Shipyard intends to undertake pursuant to its Plan during the next reporting cycle.
- Changes in any identified BMPs or measurable goals that apply to the Plan.
- A summary describing the activities, progress, and accomplishments for each of the minimum control measures #1 through #6 (including such items as the status of education and outreach efforts, public involvement activities, stormwater mapping efforts, dry weather inspections, detected illicit discharges, detected illicit connections, illicit discharges that were eliminated, construction site inspections, number and nature of enforcement actions, post construction BMP status and inspections, and the status of good housekeeping/pollution prevention program).

Standard General Restrictions

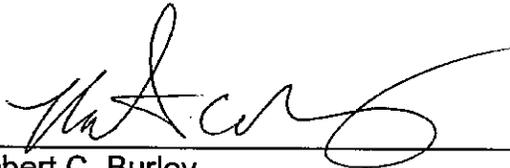
A discharge covered by the General Permit may not:

- Contain any pollutant, including toxic substances, in quantities or concentrations, which may cause or contribute to any adverse impact on the receiving water;
- Be to a receiving water which is not meeting its classification standard for any characteristic which may be affected by the discharge; or
- Impart color, taste, turbidity, radioactivity, settleable materials, floating substances or other properties that cause the receiving water to be unsuitable for the designated uses ascribed to its classification.

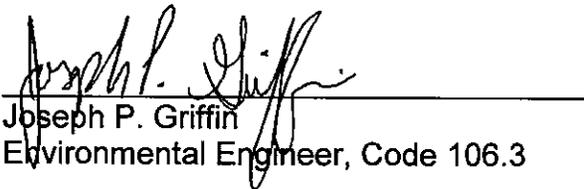
Certification Signatures

The signature of the permittee's principal executive officer and any individual or individuals responsible for actually preparing the Plan, each of whom shall certify in writing as follows:

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



Robert C. Burley
By direction of the Shipyard Commander



Joseph P. Griffin
Environmental Engineer, Code 106.3