

# Marina Stormwater Discharge Permit Work Session

March 11, 2010

## Step 2 - Developing a Stormwater Pollution Prevention Plan

### Available Resources

Nancy E. Marshall, P.E.

[nmarshall@ransomenv.com](mailto:nmarshall@ransomenv.com)

The logo for Ransom Environmental Consultants, Inc. features the word "RANSOM" in a large, bold, blue, sans-serif font. Below it, the words "Environmental" and "Consultants, Inc." are stacked in a smaller, blue, sans-serif font. The background of the logo area consists of several concentric, light blue circles, resembling ripples in water, which are also scattered across the bottom right of the slide.

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# What do I have to do?

Step 1: Determine eligibility of activities that fall under this permit, if any.

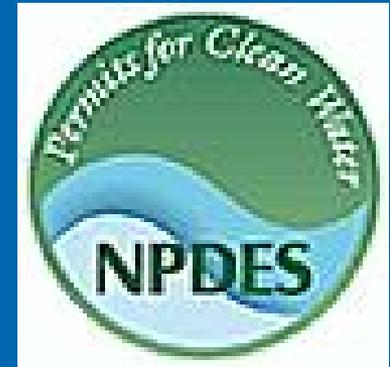
**Step 2: Develop a Stormwater Pollution Prevention Plan (SWPPP)**

Step 3: File a Notice of Intent (NOI)

Step 4: Inspection, monitoring, reporting and corrective actions

# EPA Webpage

- EPA Multi-Sector General Permit



[cfpub1.epa.gov/npdes/stormwater/msgp.cfm](http://cfpub1.epa.gov/npdes/stormwater/msgp.cfm)

(EPA MSGP)

# WEBPAGE RESOURCES

- Final 2008 MSGP
  - Parts 1-7: General Req. (51 pp)
  - Part 8: Sector-Specific Req. (93 pp)
  - Part 9: State and Tribal Req. (27 pp)
  - App. A-K: Procedures and Forms (70 pp)
- 2008 MSGP Fact Sheet (154 pp)
- Industrial Sector Fact Sheets

# WEBPAGE RESOURCES

- Water Locator Tool
  - Latitude, Longitude
  - Nearest receiving water
  - Impairment status
  - Total maximum daily loads (TMDLs)
  - Potential pollutants of concern
- List of Tier 2 and Tier 3 Waters

# WEBPAGE RESOURCES: SWPPPs and Reporting

## ➤ Industrial SWPPP Guidance

- [http://www.epa.gov/npdes/pubs/industrial\\_swppp\\_guide.pdf](http://www.epa.gov/npdes/pubs/industrial_swppp_guide.pdf)

## ➤ Sample SWPPP Template

- [http://www.epa.gov/npdes/pubs/msgp2008\\_swppptemplate.doc](http://www.epa.gov/npdes/pubs/msgp2008_swppptemplate.doc)

## ➤ Monitoring and Sampling Guide

- [http://www.epa.gov/npdes/pubs/msgp\\_monitoring\\_guide.pdf](http://www.epa.gov/npdes/pubs/msgp_monitoring_guide.pdf)

## ➤ Forms

- Recordkeeping
- Discharge Monitoring Report (DMR)
- Annual Reporting



EPA 833-B-09-002



# Developing Your Stormwater Pollution Prevention Plan

## A Guide for Industrial Operators

February 2009



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# SWPPP Template

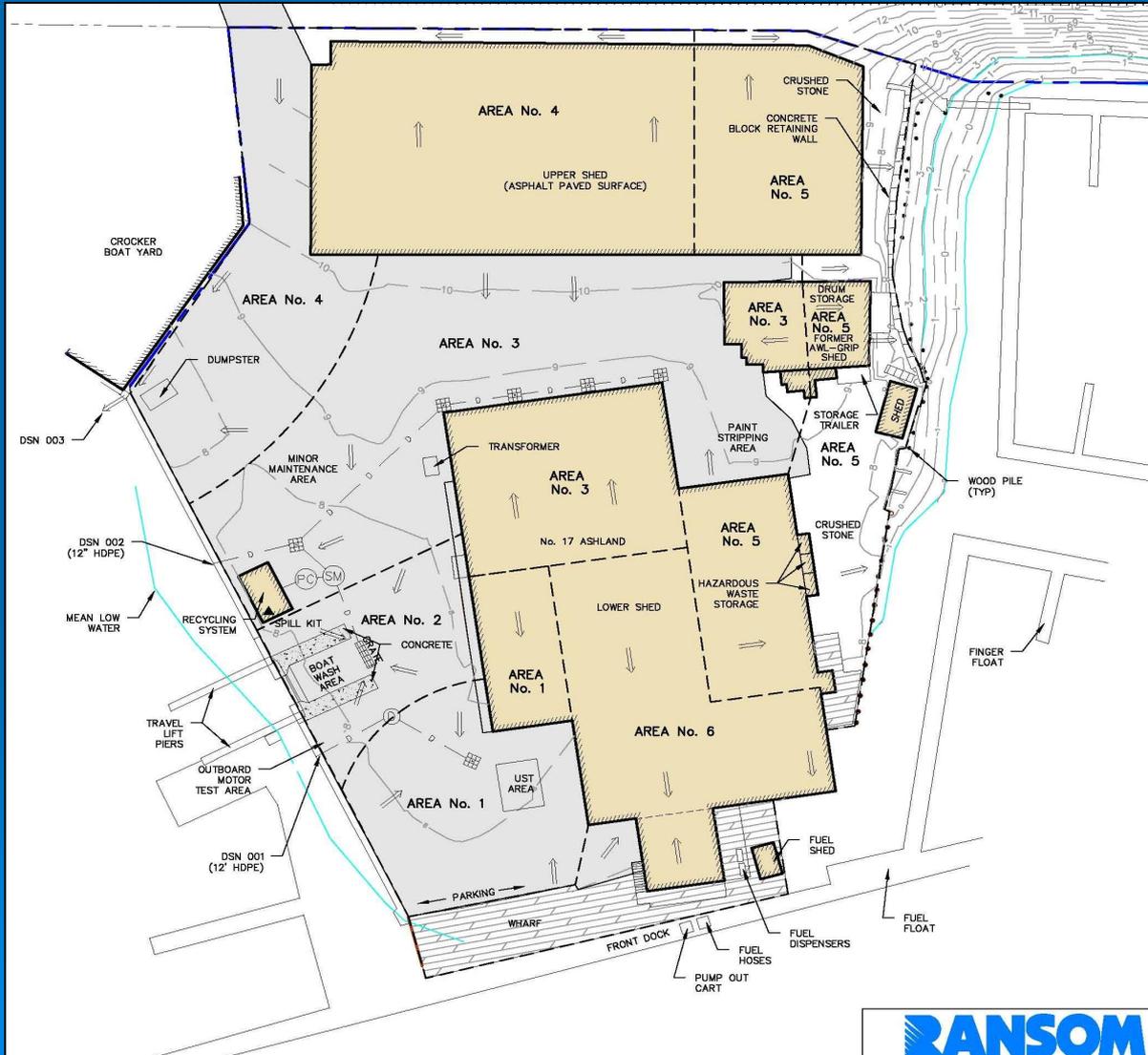
- General Content and Format
- Instructions for each section
  - Refer to MSGP Part and Appendices
  - Varies in level of detail
- Additional Documentation- Forms

# Section 1: Site Plan

- Site Layout (size, structures)
- Drainage Areas, Conveyances, Outfalls
- Receiving Waters (MS4)
- Industrial Activities
  - Sanding, Painting, Loading, Engine Maintenance, Material Storage, Roof Discharges, etc.
- Run-On with Potential Pollutants
- Non-Stormwater Discharges



# Site Map: Plan with Survey



# Site Map: GIS-based



# Section 2: Industrial Activities and Pollutants



- Sector R Fact Sheet:  
Ship/Boat Building  
or Repair Yards
- Inventories
- MSDS Sheets

# Sector R Fact Sheet Pollutants

Activity	Pollutant Source	Pollutant
Pressure washing	Wash water	Paint solids, heavy metals, suspended solids
Surface preparation, paint removal, sanding	Sanding, mechanical grinding, abrasive blasting, paint stripping	Spent abrasives, paint solids, heavy metals, solvents, dust
Painting	Paint and paint thinner spills, spray painting, paint stripping, sanding, paint cleanup	Paint solids, spent solvents, heavy metals, dust
Engine maintenance and repairs	Parts cleaning; waste disposal of greasy rags, used lubricants, coolants, and batteries; fluid spills; fluid replacement	Spent solvents, oil, heavy metals, ethylene glycol, acid/ alkaline wastes, detergents
Material handling: Transfer Storage Disposal	Fueling: spills, leaks, and hosing area	Fuel, oil, heavy metals
	Liquid storage in above ground storage: spills and overfills, external corrosion, failure of piping systems	Fuel, oil, heavy metals, material being stored
	Waste material storage and disposal: paint solids, solvents, trash, and spent abrasives and petroleum products	Paint solids, heavy metals, spent solvents, oil
Shipboard processes improperly discharged	Process and cooling water, sanitary waste, bilge and ballast water	Biochemical oxygen demand (BOD), bacteria, suspended solids, oil, fuel



## Section 3: Stormwater Controls

### ➤ Procedural

- Operational Procedures, Response Plans, Training
- Sector R-Specific Non-Numeric Effluent Limits
- Elimination of Non-Stormwater discharges

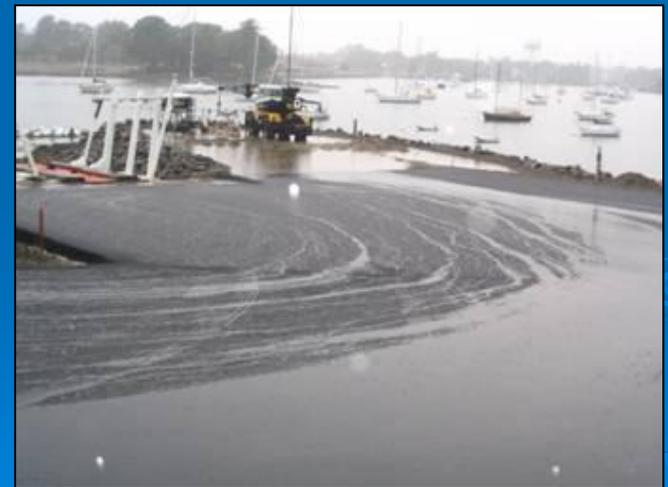
# Sector R Fact Sheet BMPs

<b>Pollutant Source</b>	<b>BMPs</b>
Surface Preparation, Sanding, and Paint Removal	Confine activities to designated areas outside drainage pathways and away from surface waters.
	Enclose, cover, or contain blasting and sanding activities to the extent practical to prevent abrasives, dust, and paint chips from reaching storm sewers or receiving water.
	Hang plastic barriers or tarpaulins to contain debris.
	Where feasible, cover drains, trenches, and drainage channels to prevent entry of blasting debris to the system.
	Prohibit un-contained blasting or sanding activities performed over open water.
	Prohibit discharge of bottom paint residues to surface waters or land.

# Section 3: Stormwater Controls

## ➤ Structural Controls

- Erosion Prevention (Ground covers, etc.)
- Sediment Controls (Silt Fence, ponds, stabilized entrances and discharges, etc.)
- Management of Runoff (diversion, infiltration, retention, etc.)



# Section 4: Stormwater Monitoring

- **Instructions (see 2008 MSGP Part 5.1.5.2):**
  - Benchmark monitoring (MSGP, Part 6.2.1 and relevant requirements in Part 8 and/or Part 9).
  - Effluent limitations guidelines monitoring (MSGP, Part 6.2.2 and Part 8).
  - State- or Tribal-specific monitoring (MSGP, Part 6.2.3 and Part 9).
  - Impaired waters monitoring (MSGP, Part 6.2.4).
  - Monitoring as required by EPA (MSGP, Part 6.2.5).

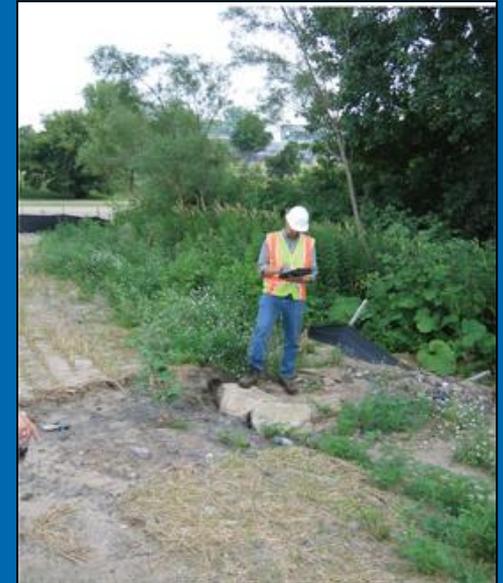
# Substantially Identical Outfalls

- Location of each outfall
- General industrial activities
- Implemented control measures
- Exposed materials
- Runoff coefficient of the drainage areas
- Why the outfalls are expected to discharge substantially identical effluents.



# Section 5: Inspections

- Routine facility inspections (2008 MSGP, Part 4.1)
- Quarterly visual assessments (2008 MSGP, Part 4.2)
  - Record of Storm Events
- Comprehensive site inspections (2008 MSGP, Part 4.3)



# Summary

- Ample Resources are Available
- Key Needs:
  - Understand the physical characteristics of your site and its surroundings
  - Inventory the potential pollutants
  - Know your operational procedures
  - Understand the MSGP requirements
  - Develop options that work for you