

Maryland Department of the Environment

12-SW General Permit

for Stormwater Discharges Associated With Industrial Activity (Final Determination)



Overview for the 2014 MD/DC Utilities Association Environmental Conference





What types of utilities are required to obtain permit coverage?

The MD-DC Utilities Association includes representatives from the region's electric, gas, telecommunications, and sanitary utilities in the region.

Primary Utility Examples:

Steam electric generating plants as covered by Activity Code SE under Sector O.

➤ Certain discharges associated with coal pile runoff may require an individual permit with appropriate ELGs.

Treatment works as covered by Activity Code TW under Sector T.

▶1 MGD or greater in design flow.

Transportation Sector or Department of Public Works under Department of Public Works as covered by Activity Code DPW under Sector AD.a or SIC 4212 under Transportation Sector P.

> These are generally fleet support activities are covered only if vehicle maintenance is performed which includes: Only those facilities which have vehicle maintenance shops (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication) or equipment cleaning operations are included for the facilities specified above in this Sector.





Application Process

You must submit a Notice of Intent (NOI), updated Stormwater Pollution Prevention Plan (SWPPP) and fee **FOR EACH FACILITY.**

Category	NOI, SWPPP & Fee Submission Deadline				
Existing Dischargers – that	Within 6 months from effective				
are not subject to	date (June 30, 2014).				
Chesapeake Bay Restoration	Authorization to discharge under				
Requirements.	02-SW continues in the interim.				
Existing Dischargers – that	Within 1 year from effective date				
are subject to Chesapeake	(December 31, 2014).				
Bay Restoration	Authorization to discharge under				
Requirements.	02-SW continues in the interim.				
Other Dischargers – in	Immediately, to minimize the				
operation, but not covered	time discharges from the facility				
under 02SW or other permit.	will continue to be unauthorized				



NOI Requires - Chesapeake Bay Specific

If your facility meets ALL of these criteria:

- within the Chesapeake Bay Watershed;
- is 5 acres or greater in size;
- in an urban area as specified "any portion of your facility is located within a Phase I or Phase II municipal separate storm sewer system (MS4) jurisdiction"; and
- is not owned by or leased from an entity that is permitted as an MS4.

THEN you must provide:

- the total impervious surface area (square feet),
- the untreated impervious surface area (in square feet) and
- the impervious surface area subject to 20% restoration requirement (in acres).



Restoration Options

- Design Manual or Proprietary Practices
 - Examples: Green Roof or Cisterns
- Accounting Guidance Practices
 - Examples: Street Sweeping or replacing pavement with green space.
- Equivalent control measures
 - Achieve reduction of 5.4 lbs total nitrogen (TN) per year is equivalent to restoration of one acre of impervious surface area.
 - New controls required for erosion and sediment control or reduced use of fertilizer.
 - New controls to achieve the benchmarks for nitrogen
 - Reducing an existing TN load allocation
- Off-Site





Registration

 You have sent in your Notice of Intent (NOI), Payment and Stormwater Pollution Prevention Plan (SWPPP). What next?



MDE will notify you.

- 1) To resolve any issues
- 2) To register your facility under the new permit.





Search Tool

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Registered...now what?

Binder at your facility with:

- Registration letter (you need to send to MS4)
- Copy of Permit
- SWPPP (updated)
- Quarterly Visual Inspections
- Training Records
- Benchmark Monitoring
- Comprehensive Annual Inspection
- Maintenance Records (Oil Water Seperator or other device)
- Corrective Action Records







Visual Monitoring

Quarterly Samples:

- 1. No lab required.
- 2. Form part of permit.
- 3. Important to keep records.

			Quar	terly Vienal I	Monitoring Form	3.3	X D. 1 .	age 2 of 3	
					or each outfall sample				
S	ample Location	}							
Q	uarter / Year:		Date / T	ime Collected:	Date	/ Time Examin	ed:		
C	ualifying Storm ollector's ame & Title	Event?	Yes	No	Runoff Source:	Rainfall	Sn	owmelt	
	xaminer's ame & Title								
-	Parameter	Parar	neter De	scription	Parame	eter Characteri	stics		
1.	Color	Does the stormwater appear to have any color? Yes No (Clear)			If Yes, describe: Y Other:	ellow Brown	Red	Gray	
2.	Clarity	le the stormwater clear? Yes No			If not clear, which of the following best describes the clarity of the stormwater? Suspended Solids Milky/Cloudy Opaque Other:				
3.	Oil Sheen	Can you see a rainbow effect or sheen on the water surface? Yes No			Which best describes the sheen? Rainbow sheet Floating oil globules Other:				
4.	Odor	Does the sample have an odor? Yes No			If Yes, describe: Chemical Musty Rotten Eggs Sewage Sour Milk Oil/Petroleum Other:				
5.	Floating Solids	Is there anything on the surface of the sample? Yes No			If Yes, describe: Suds Oily Film Garbage Sewage Water Fowl Excrement Other:				
6.	Suspended Solids	Is there any sample?	hing sus	pended in the	Describe:				
		100	*I navo		bed for 30 minutes.	144			
7	Settled Solids	Is there anything settled on the bottom of the sample?			Describe: (note type, size and material after sample is not disturbed for 30 minutes)				
53	Settled Solids	Yes	ं	No		- 1			
8.	Гоат	Does foam or material form on the			Describe:				
		Yes	-	No	-				
9.	any corrective			r pollution ident	ûfy (1) where the po	llution may co	me fr	om and (
_	tormwater Collec	tor's Signatur	and Da	ia.					





Benchmarks Selected

- 1. Agricultural Chemicals
- 2. Industrial Inorganic Chemicals
- 3. Soaps, Detergents, Cosmetics and Perfumes
- 4. Landfills and Land Application Sites
- 5. Automobile Salvage Yards
- 6. Scrap Recycling & Waste Recycling Facilities (except source separated)
- 7. Grain Mill Products
- 8. Fats and Oils Products
- 9. Fabricated Metal Products

Table 5 - Sector M Benchmarks (Automobile Salvage Yards)

PARAMETER	Benchmark	Units	Frequency	Sample Type
Total Suspended Solids (TSS)	100	mg/L	1/quarter	Grab
Total Aluminum	0.75	mg/L	1/quarter	Grab
Total Iron	1.0	mg/L	1/quarter	Grab
Total Lead ¹	0.082	mg/L	1/quarter	Grab

¹ The benchmark values of some metals are dependent on water hardness. For these parameters, you must determine the hardness of the receiving water per Appendix C.

AFTER 4 QUARTERS, IF YOU HAVE MET BENCHMARKS CONTACT COMPLIANCE TO DISCONTINUE





Comprehensive Evaluation

Comprehensive Site Compliance Evaluation once a year, to be kept onsite with SWPPP.

- Industrial materials, residue or trash
- Leaks or spills within the past three years;
- Offsite tracking where vehicles enter or exit the site;
- Tracking or blowing of raw, final, or waste materials <u>from areas of no exposure</u> to exposed areas;
- Evidence of pollutants entering the drainage or pollutants discharging to surface waters at facility outfalls;
- The <u>condition of and around any outfall</u>, including flow dissipation measures to prevent scouring;
- Training performed, inspections completed, <u>maintenance performed</u>, quarterly visual examinations, and effective operation of BMPs and
- Visual and analytical monitoring results from the past year.

EPA Provides a Template that may be used, which is on our website.



Corrective Actions

When something is wrong, you must address it and document what you did.

- Within 24 hours of discovery of any condition listed, you must document discovery.
- Within 14 days of discovery of any condition listed, you must document your corrective action.
- Any modifications to your control measures must be made before the next storm event if possible, or as soon as practicable following that storm event.
- In the event that a deficiency <u>cannot be addressed fully within</u> 30 days, you must **call the Department Compliance program** and make the Department aware of the situation.





When to Notify MDE

- 1. Corrective Actions
- 2. Monitoring Reports for Benchmarks (DMRs)
- 3. Restoration update at end of year 4 for all registrations beginning with 12-SR
- 4. Illicit discharges.







Inspector shows up...

- Be prepared to present your SWPPP.
- Review your records with inspector.
- Staff may randomly be asked questions.
- Provide access to all stormwater controls.
- Explain any problems and what you have done to address them.





1) No SWPPP Developed

- Since 12-SW requires SWPPP upfront, this should be less of an issue going forward.
- Common in change of ownership situations.





- 2) Control Measures described in SWPPP are not used.
 - Street Sweeping is listed in SWPPP, but not used.
 - Site map not up-to-date.
 - Outfalls missing from site map.
 - Sump no longer used.





- 3) No SWPPP on-site.
 - Some corporations prefer on-line. Make sure you have easy access.





4) SWPPP not signed.





5) Stormwater pollution prevention team not up-to-date.





6) On-site staff not familiar with SWPPP.





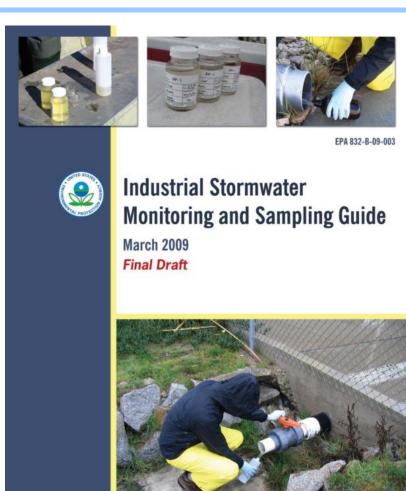
- 7) Improper collection of visual assessment samples.
 - Representative sample is important.





Monitoring Guidance

We provide EPA's Guidance Document for monitoring and sampling.







- 8) Uncovered dumpster or leaking storage.
 - Placement of dumpsters next to stormdrain.
 - Unlabeled containers.





- 9) Poor employee/contract staff training.
 - Practices not being used evident by observing housekeeping (oil stains on pavement).





10) Inspection or monitoring records are not kept with SWPPP.





11) Unauthorized discharges:

- Vehicle washing.
- Internal floor drains.





12) Poor maintenance:

- Poor maintenance of controls (filter fabric torn).
- Overgrown drainage areas.
- Stormdrains filled with sediment.





Maryland Department of the Environment

Water Management Administration Industrial and General Permits Division

Paul Hlavinka paul.hlavinka@maryland.gov 410-537-3323

