



South Carolina Department of Health and Environmental Control  
Healthy People. Healthy Communities.

# Industrial Stormwater: Compliance Assistance

EAC 2019



# Industrial Stormwater



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# Industrial Stormwater

NPDES General Permit for Stormwater Discharges Associated  
with Industrial Activities (Except Construction)



# NPDES General Permit *SCR000000*

- Issued September 01, 2016
- Expires September 30, 2021

# NPDES Program

- National Pollutant Discharge Elimination System (NPDES) program
- EPA has delegated authority to Implement all aspects of the NPDES Stormwater Program in South Carolina
- EPA retains the ability to enforce the permits DHEC issues





- South Carolina's permit is generally based on EPA's Multi-Sector General Permit (MSGP), issued in June 2015.
- There are 27 Sectors in South Carolina's (IGP) including one titled "Non-classified."
- Each Sector has some combination of best management practices, numeric effluent limits, and/or benchmarks.
- A Stormwater Pollution Prevention Plan (SWPPP) must be developed to address how a site will maintain compliance with the general permit.

# Sectors

- Sector A: Timber Products
- Sector B: Paper and Allied Products
- Sector C: Chemicals and Allied Products Manufacturing
- Sector D: Asphalt Paving and Roofing Materials and Lubricant Manufacturing
- Sector E: Glass, Clay, Cement, Concrete, and Gypsum Products

- Sector F: Primary Metals
- Sector G: Metal Mining (Ore Mining and Dressing)
- Sector H: Coal Mines and Coal Mining-Related Facilities
- \*\*\*Sectors H, I, and J are reserved\*\*\*
- Sector I: Oil and Gas Extraction and Refining
- Sector J: Mineral Mining and Dressing
- Sector K: Hazardous Waste Treatment, Storage, or Disposal Facilities



- Sector L: Landfills, Land Application Sites, and Open Dumps
- Sector M: Automobile Salvage Yards
- Sector N: Scrap Recycling Facilities
- Sector O: Steam Electric Generating Facilities
- Sector P: Land Transportation and Warehousing
- Sector Q: Water Transportation



- Sector R: Ship and Boat Building and Repairing Yards
- Sector S: Air Transportation Facilities
- Sector T: Treatment Works
- Sector U: Food and Kindred Products
- Sector V: Textile Mills, Apparel, and Other Fabric Product Manufacturing; Leather and Leather Products

- Sector W: Furniture and Fixtures
- Sector X: Printing and Publishing
- Sector Y: Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries
- Sector Z: Leather Tanning and Finishing
- Sector AA: Fabricated Metal Products
- Sector AB: Transportation Equipment, Industrial or Commercial Machinery



- Sector AC: Electronic, Electrical, Photographic, and Optical Goods
- Sector AD: Non-Classified Facilities
- \*\*\*AD at the discretion of DHEC\*\*\*

# What is needed for a permit?

- Notice of Intent (NOI) – application form
  - Identifies who the operator of the activity is
  - Where the site is located
  - What activities are planned (SIC Code)
- Stormwater Pollution Prevention Plan (SWPPP)

# SIC or NAICS Codes

- It is vital to know the code or codes for the facility. This determines the applicability to the IGP and the requirements for the SIC codes, sector, and sub-sector
- OSHA website:  
[https://www.osha.gov/pls/imis/sic\\_manual.html](https://www.osha.gov/pls/imis/sic_manual.html)
- Other permits, tax documents, business licenses, “sister” sites, professional associations
- NAICS – many converters available
- Appendix D or SC Reg. 61-9.122.26(b)(14)



## Occupational Safety and Health Administration

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# Description for 3949: Sporting and Athletic Goods, Not Elsewhere Classified

Division D: Manufacturing | Major Group 39: Miscellaneous Manufacturing Industries

Industry Group 394: Dolls, Toys, Games And Sporting And Athletic

### 3949 Sporting and Athletic Goods, Not Elsewhere Classified

Establishments primarily engaged in manufacturing sporting and athletic goods, not elsewhere classified, such as fishing tackle; golf and tennis goods; baseball, football, basketball, and boxing equipment; roller skates and ice skates; gymnasium and playground equipment; billiard and pool tables; and bowling alleys and equipment. Establishments primarily engaged in manufacturing athletic apparel are classified in Major Group 23; those manufacturing athletic footwear are classified in Industries 3021 and 3149; those manufacturing small arms ammunition are classified in Industry 3482; and those manufacturing small arms are classified in Industry 3484.

- Ammunition belts, sporting type: of all materials
- Archery equipment
- Arrows, archery
- Athletic and sporting goods: except clothing, footwear, small arms,
- Badminton equipment

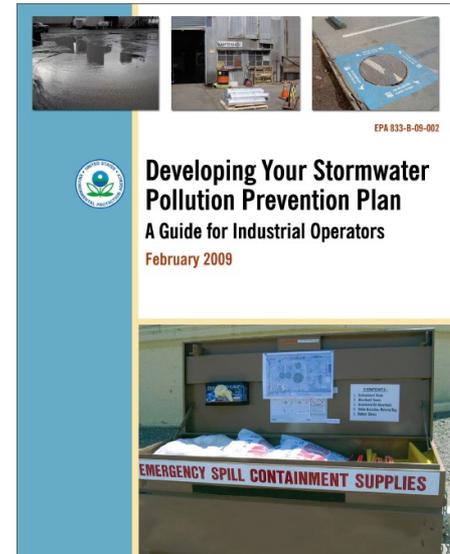
### Categories

- Fishing Equipment
- Mfg Sporting/Athletic Goods

# What is in a SWPPP?

- Living, written document used to show compliance with the permit
- Identifies control measures and procedures to minimize the exposure of potential pollutant sources to rainfall and/ or stormwater runoff

[www.scdhec.gov/environment/water-quality/stormwater/stormwater-construction-activities/design-aids-and-technical](http://www.scdhec.gov/environment/water-quality/stormwater/stormwater-construction-activities/design-aids-and-technical)



# Inspections (Routine & Comprehensive)

- Routine inspections must be performed at a minimum of once per quarter
- One routine inspection must occur during a stormwater discharge
- Comprehensive inspections involve all aspects of the site's stormwater management

## Inspections (C & R) Cont'd

- The Annual comprehensive inspection shall include a review of the monitoring data, and be certified by the proper signatory authority
- The annual comprehensive inspection shall include an evaluation of the newest version of the TMDL and 303d list to ascertain if any new impairments of the receiving waterbody are present and need to be added to the SWPPP for the facility.

# Inspections (C & R) Cont'd

- The Comprehensive inspection may double as one of the Routine inspections.
- Both must be performed by qualified personnel.
- Both require corrective action and documentation on any negative findings.

# The “Outs” of TMDL/303d impairments

- Meet the water quality standard by looking at the immediate downstream WQMS. (TMDL only)
  - If the WQMS shows the standard has been attained
    - SC IGP section 6.2.4.2.c.
- Natural Background – not legacy pollution or run-on from neighbors
- “not present and not expected to be present”

- 303(d) – DHEC has results from our WQMS that indicate a “concern”
- TMDL – DHEC performs modeling and analysis to show the location in the waterbody and the reduction amount to meet the water quality standard
- Sampling frequencies
  - 303(d) – yearly
  - TMDL – 4 times/12 month period (min. of 72 hrs separation)

# Benchmarks

- Pollutant concentrations intended to improve a site's stormwater best management practices. A goal not a limit.
- Consists of an average of 4 quarterly samples.
- An exceedance does not constitute a violation. A permittee simply retests until they pass or claim no further reduction is "technologically available or economically feasible." An annual sample is still required.
- There are natural background allowances.

# Effluent Monitoring

- Eight of the Sectors have this type of monitoring
- Once per year
- Exceedance is a violation. A retest is required within 30 days or at the next runoff event.
- If the retest is failed, an exceedance report is submitted to the Department and the site will test quarterly until the Department grants written approval to stop.
- “Substantially identical outfalls” are not allowed.
- E-DMR’s will be implemented soon.

# Quarterly Visual Assessment (Qualitative)

- Color
- Odor
- Clarity
- Foam
- Oil Sheen
- Floating/settled/  
suspended solids
- Other indicators of  
stormwater pollution
- \*\*\*Corrective action  
must be taken and  
documented for  
anything noted.

# Water Quality Monitoring (WQM)

- Dissolved oxygen (303(d) only), temperature - no monitoring
- “Bio” - no monitoring until a TMDL is approved
- Suspended solids or sediment - TSS is monitored
- Mercury or polychlorinated biphenyls (PCB) – no monitoring (fish tissue applicability only)

## WQM Cont'd

- For impaired waterbodies 303(d) only, if you do not detect the pollutant(s) of concern, monitoring can stop. If it is believed the detection is caused by natural background, monitoring can stop along with justification. An example may include sampling upstream and downstream of the site.
- If detected, continue yearly monitoring.

## WQM Cont'd

- For impaired waterbodies with a TMDL, if you do not detect the pollutant(s) of concern for the first 12-month period, monitoring can stop, *unless the TMDL specifies differently*.  
Monitoring may also stop if the water quality standard is met for four consecutive monitoring periods, *unless the TMDL specifies differently*.
- Otherwise continue monitoring 4 times/12-month period.

# Sector L – Landfills, Land Application Sites, and Open Dumps

- LF-L1 All Landfill, Land Application Sites and Open Dumps
- LF-L2 All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60

# Stormwater runoff pollutant factors

- Geography
- Topography
- Hydrogeology
- Impervious Areas
- Ground Cover Type
- Type of Activities
  - What are the operations at the site
- Size of Site or Operation
- Type, Duration and Intensity of rainfall

Source: EPA Industrial Stormwater Fact Sheet Series Sector L

[www.epa.gov/sites/production/files/2015-10/documents/sector\\_l\\_landfills.pdf](http://www.epa.gov/sites/production/files/2015-10/documents/sector_l_landfills.pdf)

# How do I minimize potential pollutants in my stormwater?

- Best Management Practices (BMP's)
- Good Housekeeping
- Minimize Soil Exposure
- Manage Stormwater Runoff



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Sector & Description	Currently Covered	Total			
			I: Oil & Gas Extraction	0	0
			J: Mineral Mining & Dressing	0	16
A: Timber Products	86	749	K: Hazardous Waste Treatment, Storage, Disposal	6	6
B: Paper and Allied Products	49	173	L: Landfills, Land App Sites, Open Dumps	72	72
C: Chemicals and Allied Products	172	603	M: Automobile Salvage Yards	94	156
D: Asphalt, Roofing, and Lubricants	73	101	N: Scrap Recycling Facilities	89	172
E: Glass, Clay, Cement, Concrete, & Gypsum	225	435	O: Steam Electric Generating Facilities	20	20
F: Primary Metals	46	152	P: Land Transportation and Warehousing	309	5536
G: Metal Mining	3	12	Q: Water Transportation	18	234
H: Coal Mines	0	0	R: Ship & Boat Building/Repairing Yards	13	56



S: Air Transportation Facilities	70	344	Z: Leather Tanning & Finishing	0	9
T: Treatment Works	107	107	AA: Fabricated Metal Products	127	772
U: Food and Kindred Products	70	454	AB: Transportation Equipment & Machinery	153	1078
V: Textiles and Leather Products	69	743	AC: Electronic, Electrical, Photographic, and Optical Goods	71	711
W: Furniture & Fixtures	7	269	AD: Non-Classified Facilities	7	8
X: Printing and Publishing	21	1022			
Y: Rubber, Plastic, Misc Manufacturing	104	907	TOTAL	2082	14917



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# CONTACT US

Paul Quattlebaum  
Stormwater Manager  
803-898-3678  
[quattljp@dhec.sc.gov](mailto:quattljp@dhec.sc.gov)

Mel Leaphart  
Industrial Stormwater  
803-898-4143  
[leaphame@dhec.sc.gov](mailto:leaphame@dhec.sc.gov)

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