



Federal 2021 MSGP

What's Due and What's New

March 30, 2021

David L. Waggoner, Ph.D., ISRI Chief Scientist / Director of Environmental Management

- Brief Background on Federal 2021 Multi-Sector General Permit (MSGP)
- What's Due
- What's New or Different (relative to 2015 MSGP)
- 2021 MSGP Resources
- Contact Information

- Federal 2021 MSGP signed January 15, 2021, published February 19, 2021, effective March 1, 2021
 - <https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-epas-2021-msgp>
- Applies in DC, ID, MA, NH, NM, as well as federal areas
- **But likely to be adopted by most states in whole or part (e.g., OR and MD)**

- **For 2015 MSGP Permittees, Notice of Intent (NOI) for 2021 MSGP due no later than May 30, 2021**
 - “You must develop a [**S**torm**w**ater **P**ollution **P**revention **P**lan] or update your existing SWPPP per Part 6 prior to submitting your NOI for coverage under this permit”.
 - NOI submitted electronically via NeT MSGP.
 - 2021 MSGP SWPPP Template available from EPA

- Part 1.3.5—Requirement to Post a Sign of your Permit Coverage, including
 - “[Name of facility] is permitted for industrial stormwater discharges under the U.S. EPA’s Multi-Sector General Permit (MSGP)”
 - Permit ID Number
 - Contact phone number for obtaining additional information
 - One of these options
 - URL for SWPPP with “To report observed indicators of stormwater pollution, contact [optional: include facility point of contact and] EPA at: [include the applicable MSGP Regional Office contact information]” **OR**
 - “To obtain the Stormwater Pollution Prevention Plan (SWPPP) for this facility or to report observed indicators of stormwater pollution, contact [optional: include facility point of contact and] EPA at [include the applicable MSGP Regional Office contact information]”
- Part 2.1.1—[**Stormwater Control Measures**] Selection and Design Considerations
 - Implementing structural improvements, enhanced/resilient pollution prevention measures, and other mitigation measures due to major storm events (e.g., reinforced storage structures, rescheduling deliveries, temporary relocation of materials)

- Part 4.2.1.1/8.N.6—Indicator monitoring (reporting only)
 - **Polycyclic Aromatic Hydrocarbon (PAH) Monitoring**—Facilities that apply coal-tar sealant (whether first time or re-sealing) in industrial areas measure (16 PAH molecules) and report twice (semiannually) in 1st and 4th years of permit term.
 - **pH, Total Suspended Solids (TSS), and Chemical Oxygen Demand (COD)**—Industrial subsectors without prior required Benchmark Monitoring (e.g., Subsector N2 for Non-Industrial/Residential Recycling Facilities) measure and report quarterly for entire permit term.
- Part 4.2.2/8.N.7—Benchmark monitoring
 - Measure and report quarterly in 1st and 4th years, unless additional monitoring is required because of benchmark exceedance.
 - Iron is no longer a benchmark parameter.
 - Aluminum benchmark value raised to 1100 µg/L (was 750 µg/L), with an alternative facility-specific using recommended criteria model (see 5.2.6.4).
 - Copper benchmark value lowered to 5.19 µg/L (was hardness dependent), with alternative facility-specific benchmark using Biotic Ligand Model (BLM) (see 5.2.6.4).

- **New** PAH Monitoring for Sector N (if applicable)
- **New** Indicator Monitoring for Subsector N2 (Non-Industrial/Residential Recycling Facilities (e.g., MRFs))

2021 MSGP

Part 8 – Sector-Specific Requirements

Table 8.N-1		
Subsector (You may be subject to requirements for more than one sector/subsector)	Indicator Monitoring Parameter	Indicator Monitoring Threshold
Applies to all Sector N (Subsectors N1 and N2) facilities with stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit	Polycyclic Aromatic Hydrocarbons (PAHs)*	Report Only/ No thresholds or baseline values
Subsector N2. Source-separated Recycling Facility (SIC Code 5093)	Chemical Oxygen Demand (COD)	Report Only/ No thresholds or baseline values
	Total Suspended Solids (TSS)	Report Only/ No thresholds or baseline values
	pH	Report Only/ No thresholds or baseline values

* Monitoring is required for the 16 individual PAHs identified at Appendix A to 40 CFR Part 423: naphthalene; acenaphthylene, acenaphthene; fluorene; phenanthrene; anthracene; fluoranthene; pyrene; benzo[a]anthracene; chrysene; benzo[b]fluoranthene; benzo[k]fluoranthene; benzo[a]pyrene; benzo[g,h,i]perylene; indeno[1,2,3-c,d]pyrene; and dibenz[a,h]anthracene.

- **Revised** Benchmark Monitoring for Subsector N1 (Scrap Recycling Facilities, excluding Subsector N2)

Table 8.N-2.

Subsector (You may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark Monitoring Concentration
Subsector N1. Scrap Recycling and Waste Recycling Facilities except those only receiving source-separate recyclable materials primarily from non-industrial and residential sources (SIC 5093)	Chemical Oxygen Demand (COD)	120 mg/L
	Total Suspended Solids (TSS)	100 mg/L
	Total Recoverable Aluminum	1,100 µg/L
	Total Recoverable Copper (freshwater) ²	5.19 µg/L
	Total Recoverable Copper (saltwater) ¹	4.8 µg/L
	Total Recoverable Lead (freshwater) ²	Hardness Dependent
	Total Recoverable Lead (saltwater) ¹	210 µg/L
	Total Recoverable Zinc (freshwater) ²	Hardness Dependent
Total Recoverable Zinc (saltwater) ¹	90 µg/L	

Freshwater Hardness Range	Lead	Zinc
0-24.99 mg/L	14	37
25-49.99 mg/L	24	52
50-74.99 mg/L	45	80
75-99.99 mg/L	69	107
100-124.99 mg/L	95	132
125-149.99 mg/L	123	157
150-174.99 mg/L	152	181
175-199.99 mg/L	182	204
200-224.99 mg/L	213	227
225-249.99 mg/L	246	249
250+ mg/L	262	260

- Part 4.2.5.1.a—Discharges to impaired waters without an EPA-approved or established TMDL
 - Annual monitoring in 1st year (impairment parameter(s)) and 4th year of permit term (impairment parameters associated with industrial activity), unless the parameter(s) is detected in discharge.
- Part 5.2—Additional Implementation Measures (AIM)
 - AIM Baseline (during 1st year of benchmarking monitoring)
 - ✓ No benchmark exceedance by annual average halts benchmarking monitoring to 4th year (by parameter and discharge point).
 - Benchmark exceedance by annual average elevates status to next AIM Level
 - ✓ If AIM Level response and conditions are met, the status reverts to Baseline.
 - AIM Exceptions: Natural background; Run-on; Abnormal Event; Alternative benchmark for Aluminum and Copper (see 5.2.6.4); No actual exceedance of water quality standards

AIM Change	Required Response
Baseline to AIM Level 1	SWPPP review and installation of any necessary SCMs
AIM Level 1 to AIM Level 2	SWPPP review and installation of any necessary SCMs based on “new” sector-specific fact sheets
AIM Level 2 to AIM Level 3	Required installation of structural SCMs and/or treatment systems

Part 5.2.6.4—Alternative Facility-Specific Benchmarks for Aluminum and Copper

Aluminum Criteria (5.2.6.4.a)	Copper Criteria (5.2.6.4.b)
Use of EPA's 2018 National Recommended Aluminum Aquatic Life Criteria (https://www.epa.gov/wqc/aquatic-life-criteria-aluminum)	Use of EPA's 2007 National Recommended Freshwater Copper Aquatic Life Criteria (https://www.epa.gov/wqc/aquatic-life-criteria-copper)
In-stream waterbody sampling for the 3 input parameters: pH, total hardness, and dissolved organic carbon (DOC)	In-stream waterbody sampling for the 10 Biotic Ligand Model input parameters: pH; DOC; alkalinity; temperature (T); calcium, magnesium, sodium, and potassium; and sulfate and chloride
Completion of sampling events sufficient to capture spatial and temporal variability	Completion of sampling events sufficient to capture spatial and temporal variability
Demonstration to EPA of proper sampling procedures (https://www.epa.gov/sites/production/files/2015-11/documents/msgp_monitoring_guide.pdf) and use of Aluminum Criteria Calculator (https://www.epa.gov/sites/production/files/2018-12/aluminum-criteria-calculator-v20.xlsm) with narrative summary of results	Demonstration to EPA of proper sampling procedures (https://www.epa.gov/sites/production/files/2015-11/documents/msgp_monitoring_guide.pdf), discussion of suitability of collected data, and use of Biotic Ligand Model software (https://www.epa.gov/wqs-tech/copper-biotic-ligand-model), with narrative summary of results

- 2021 MSGP @ <https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-epas-2021-msgp>
- 2021 MSGP Electronic Reporting (including Notice of Intent) @ <https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-ereporting>
- 2021 MSGP Regional Contacts @ <https://www.epa.gov/npdes/contact-us-stormwater#regional>
- 2021 MSGP SWPPP Template @ https://www.epa.gov/sites/production/files/2021-03/msgp2021_swppptemplate.docx
- 2021 MSGP Industrial Stormwater Guidance @ <https://www.epa.gov/npdes/industrial-stormwater-guidance>

- Please contact David L. Wagger, Ph.D., Chief Scientist / Director of Environmental Management at dwagger@isri.org or 202-662-8533.