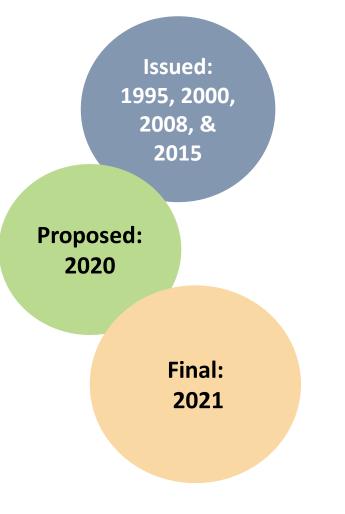
EPA's 2021 Multi-Sector General Permit (MSGP) for Industrial Stormwater Discharges



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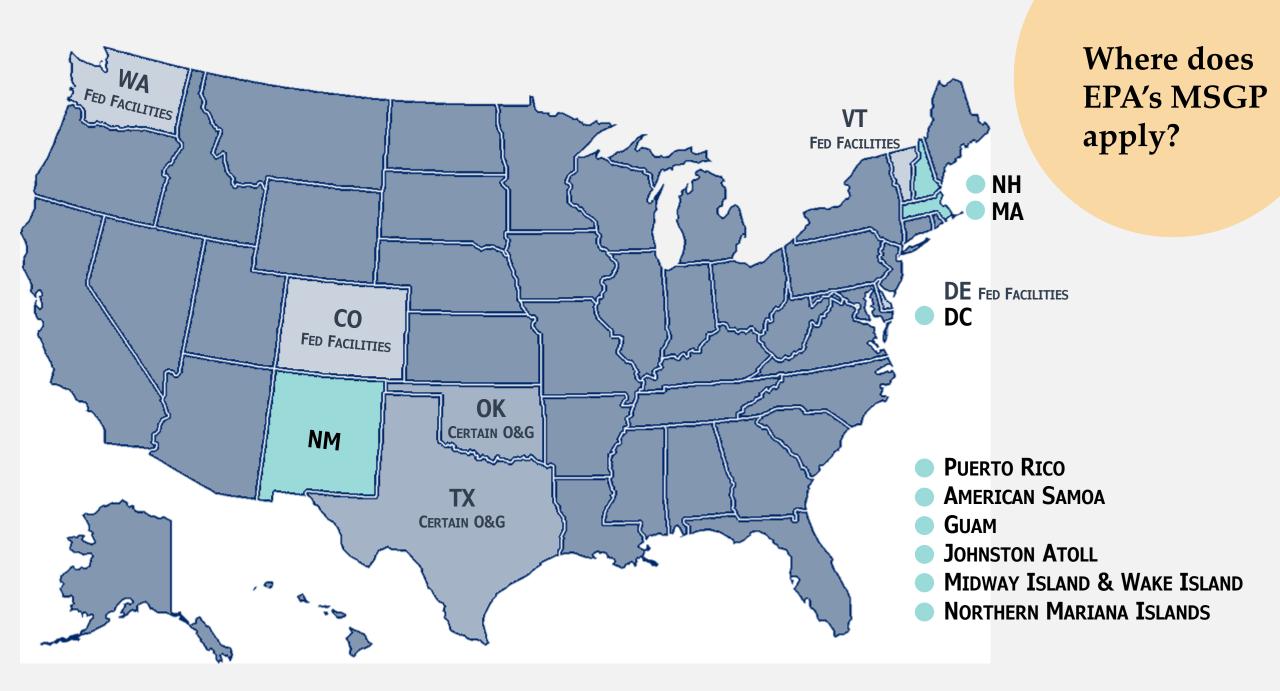


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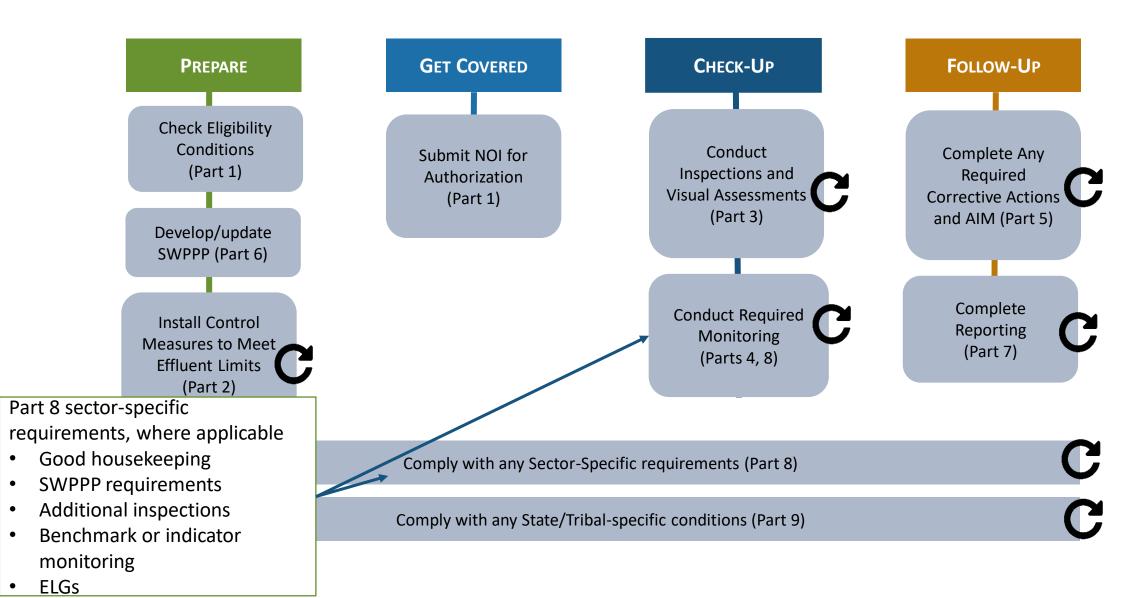
Background

- EPA-issued NPDES General Permit covering "stormwater discharges associated with industrial activity"
- Covers 29 different sectors
- Around 2,400 permittees in areas where EPA is the permitting authority
- On January 15, 2021, EPA issued the 2021 MSGP. The 2021 MSGP became effective on March 1, 2021. Following the issuance of the 2021 MSGP, EPA identified several typographical and similar errors in the permit. EPA subsequently finalized a minor modification to the 2021 MSGP that became effective on September 29, 2021.



Steps to comply with MSGP

Ongoing activity **C**



Litigation + NRC Study

- After the EPA issued the 2015 MSGP, numerous environmental NGOs challenged the permit, two industry groups intervened, and a Settlement Agreement was signed in 2016 with all parties
- One key term from the Settlement Agreement stipulated that the EPA fund a study conducted by the NRC on potential permit improvements, focused primarily on monitoring requirements, for consideration in the next MSGP
 - National Academies of Sciences' National Research Council (NAS/NRC) Study Report & Webpage:
 - <u>Report: Improving the EPA Multi-Sector General Permit for Industrial Stormwater</u> <u>Discharges</u>
- When drafting the proposed MSGP, EPA considered the recommendations suggested in the completed NRC Study.
- EPA signed and issued the 2021 Multi-Sector General Permit (MSGP) on January 15, 2021. It became effective March 1, 2021.

Proposed permit changes that were NOT finalized as proposed in the 2021 **MSGP**

- Expanding permit eligibility requirement for discharges to a federal CERCLA site beyond EPA Region 10
- 2. Adding an eligibility criterion regarding coal-tar sealcoat
- 3. Modifying permit authorization wait time related to a pending enforcement action
- 4. Providing an inspection-only option in lieu of benchmark monitoring
- 5. Requiring sector-specific benchmark monitoring for Sectors I, P, and R
- 6. Universal benchmarks for all sectors
- 7. Modifying the method for determining natural background pollutant contributions from the 2015 MSGP
- 8. Requiring the use of sector-specific stormwater control measures from Appendix Q

2015 MSGP	2021 MSGP
No equivalent requirement	Part 2.1.1.8 Facilities must consider implementing enhanced stormwater control measures such as structural improvements and enhanced/resilient pollution prevention measures to minimize impacts from stormwater discharges from major storm events such as hurricanes, storm surge, extreme/heavy precipitation, and flood events. Examples: elevate materials, temporarily reduce outdoor storage, delay deliveries.
No equivalent requirement in MSGP (but is in CGP and other NPDES permits)	<u>Part 1.3.5</u> Facilities must post a sign of permit coverage at a safe, publicly accessible location in close proximity to the facility, including facility contact information, how to obtain the SWPPP, and how to contact EPA (an exception is where other laws or local ordinances prohibit such signage)

Example sign of permit coverage

Emily's Marina is permitted for industrial stormwater discharges under EPA's Multi-Sector General Permit (MSGP) NPDES ID: DCR051435

Contact: XXX-XXX-XXXX

SWPPP: www.emilyswppp.com

To report observed indicators of stormwater pollution, contact EPA at: XXX-XXX

2015 MSGP	2021 MSGP
Benchmark monitoring applied to 55% of MSGP facilities. The other 45% did not have any benchmark monitoring requirements.	<u>Part 4.2.1.1 and Part 8</u> Facilities without benchmarks must conduct "report-only" indicator monitoring for pH, TSS, and COD on a quarterly basis throughout the permit term.
No equivalent requirement.	Part 4.2.1.1 and Part 8 Certain facilities must conduct "report- only" indicator monitoring for PAHs bi-annually (2/year) in 1st and 4th year of permit coverage.

2015 MSGP

2021 MSGP

Existing benchmarks for Selenium, Arsenic, Aluminum, Cadmium, Magnesium, Iron, and Copper are based on outdated WQ criteria and/or toxicity data.	 Revised aluminum, copper (freshwater), selenium (freshwater), and cadmium benchmarks based on new final EPA WQ criteria. Removed iron and magnesium benchmark due to lack of documented toxicity. Allowing facilities to conduct site-specific risk analysis for aluminum and copper benchmark exceedances.
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Benchmark monitoring was required quarterly for first four quarters. If annual average was below benchmark threshold, facilities could discontinue for remainder of coverage. <u>Part 2.2.2</u> Benchmark monitoring required quarterly for first four quarters. If annual average is below benchmark threshold, facilities can discontinue until 4th year of coverage when quarterly monitoring is required again. Monitoring must continue if exceedance occurs (AIM is triggered).

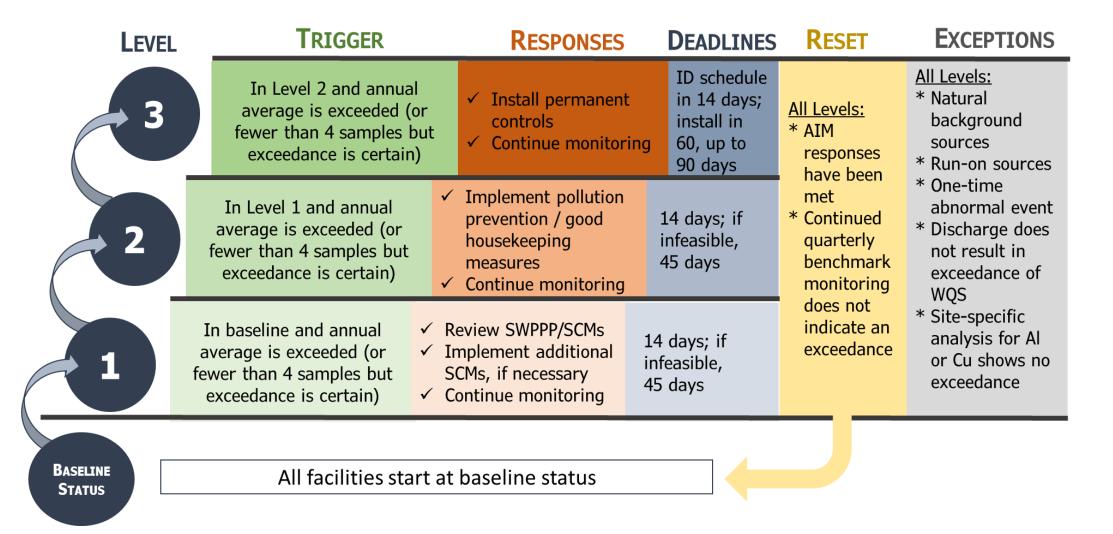
2015 MSGP

2021 MSGP

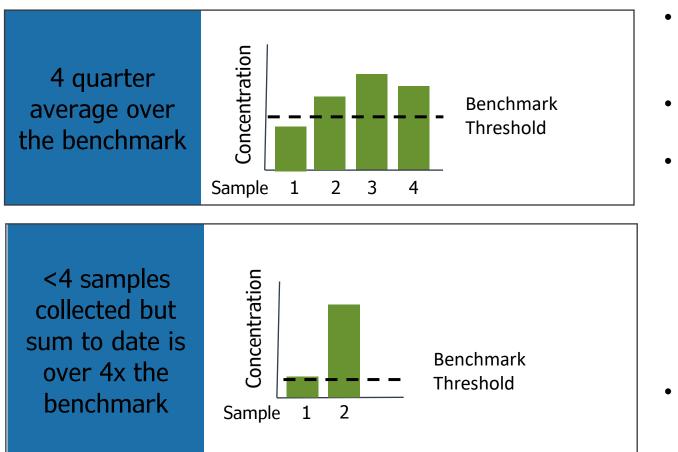
Operators discharging to impaired waters must monitor once/year for all pollutants causing impairments and can discontinue monitoring if not detected or not expected in the discharge <u>Part 4.2.5.1</u> Facilities discharging to impaired waters w/o a TMDL must monitor once/1st year of coverage for all pollutants causing impairment, then once/4th year for only those associated with industrial activity and/or are benchmarks. If not detected, can discontinue for remainder of permit coverage. Monitoring must continue if detected.

If a benchmark is exceeded (i.e., the annual average of your quarterly results was greater than the benchmark), operators must review the control measures to see if modifications are necessary and continue monitoring until no exceedance. Additional Implementation Measures (AIM)- Incremental and increasingly stringent responses to benchmark exceedances. Level 1: While in baseline status, a triggering event (exceedance) occurs, then must <u>review SWPPP/ control measures</u>, implement additional measures (if necessary), and continue monitoring until no exceedance. Level 2: While in Level 1, a triggering event (exceedance) occurs, then must implement additional pollution prevention/good housekeeping measures and continue monitoring until no exceedance. Level 3: While in Level 2, a triggering event (exceedance) occurs, then must install permanent structural source and treatment controls and continue monitoring until no exceedance.

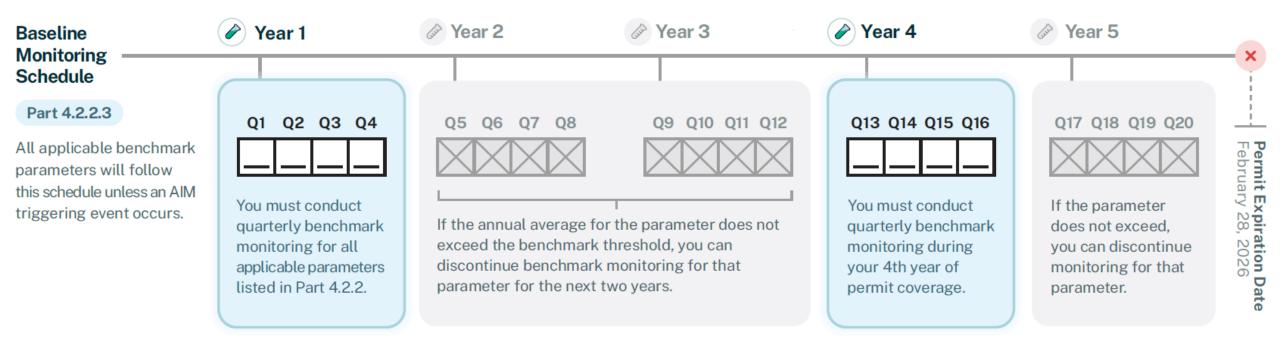
Additional Implementation Measures (AIM) for benchmark exceedances



AIM Triggers

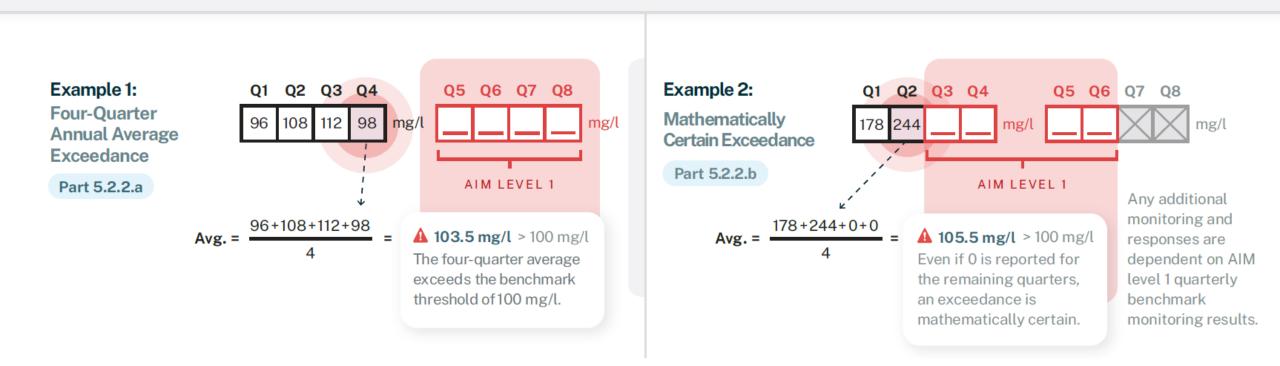


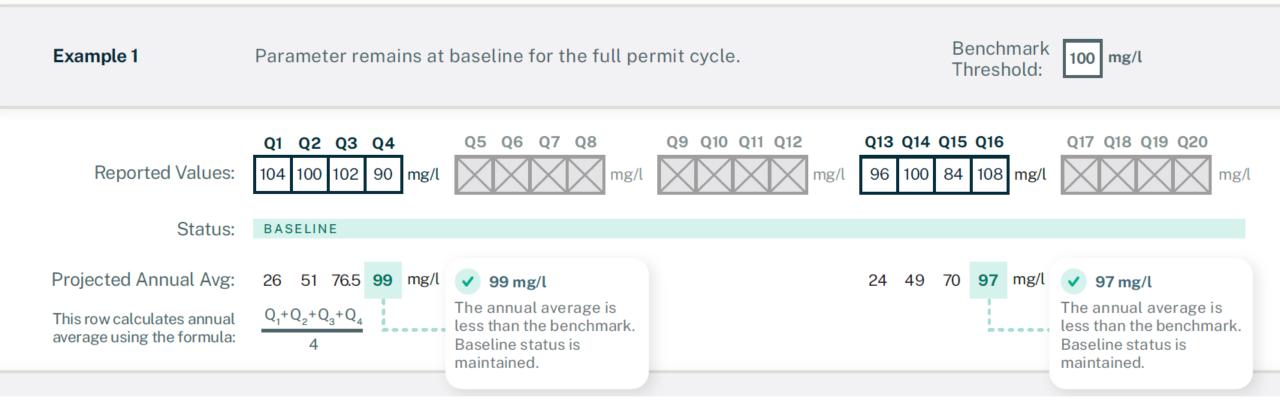
- AIM applies per parameter, per discharge point
- Triggers do NOT change from AIM Level to Level
- AIM Levels are sequential and cannot be skipped
 - i.e., you must be in Level 1 to go to
 Level 2, and you
 must be in Level 2
 to go to Level 3
- All exceptions are available at all AIM Levels

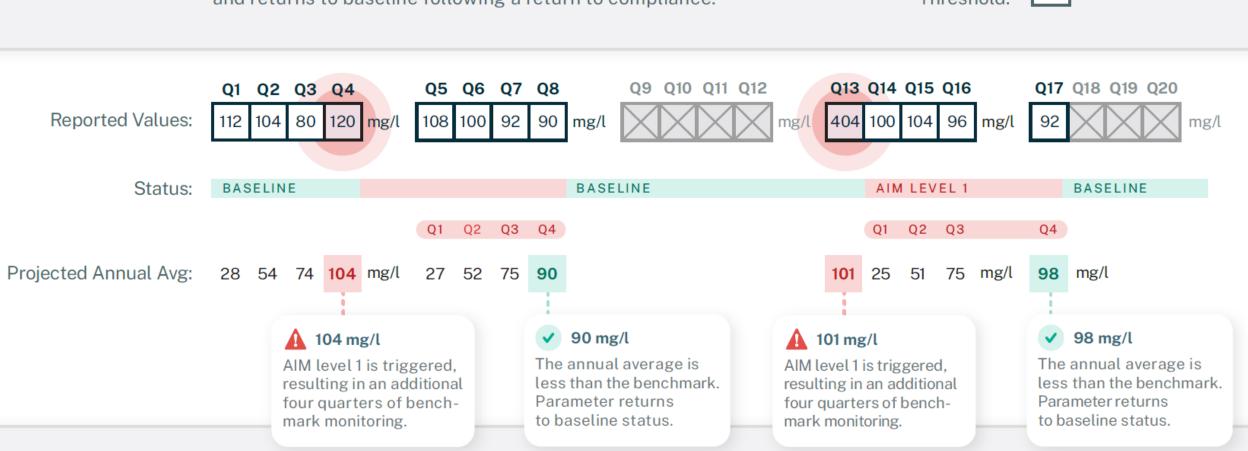


AIM Triggering Event Examples

In these examples, we're triggering AIM for at **Total Suspended Solids (TSS)** by exceeding the benchmark threshold of **100 mg/l** during the first year of permit coverage.







AIM Level is triggered during monitoring in years one and four and returns to baseline following a return to compliance.

Example 2

Benchmark Threshold: 100 mg/l



In this scenario, Q13 counts both as Q4 of AIM Level 3 and Q1 of year 4 baseline monitoring.

Updates and Resources

Updates:

On January 25, 2022, EPA published a <u>Federal Register Notice</u> to seek public input for 60 days (comment period closes March 28, 2022) on the 29 NPDES <u>Industrial Stormwater Fact Sheet Series</u> currently posted online. EPA is particularly focused on updating common activities, pollutant sources, and associated pollutants at facilities in each sector; and SCMs or best management practices (BMPs), including source control and good housekeeping/pollution prevention measures for potential pollutant sources at facilities in each sector. Comments may be submitted to <u>Docket ID No. EPA-HQ-OW-2022-0097</u>

Resources:

- Public Informational Webinar from February 19, 2021 was recorded and posted.
- <u>Guidance, Templates and Tools</u>
 - SWPPP Template and SWPPP Guide
 - Monitoring and Sampling Guide
 - Documentation Templates (records for monitoring, inspection, maintenance, visual evaluation and corrective action activities)
 - New! Spreadsheet to help identify if exceedance of benchmark occurs
- NPDES eReporting Tool (NeT) Training and Supporting Material

If you have a question that isn't answered during this session, you can contact EPA at MSGP@epa.gov

How can I find out about the final permit? https://www.regulations.gov/docket?D=EPA-HQ-OW-2019-0372

Docket <u>www.regulations.gov</u> Docket ID # EPA-HQ-OW-2019-0372

EPA's industrial SW webpage

https://www.epa.gov/npdes/stormwater-dischargesindustrial-activities

Sign up for NPDES News

https://lp.constantcontactpages.com/su/bvF6Dae/npdes