2024 Individual Permit Monitoring Season Summary

March 5, 2025

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- Individual Permit Summary

- 2024 Precipitation and Samples Collected

- 2024 TAL Exceedances

- 2024 Sampling Implementation Plan (SIP)

- Site Monitoring Area (SMA) Data Examples

  - 2M-SMA-1.43

  - M-SMA-13
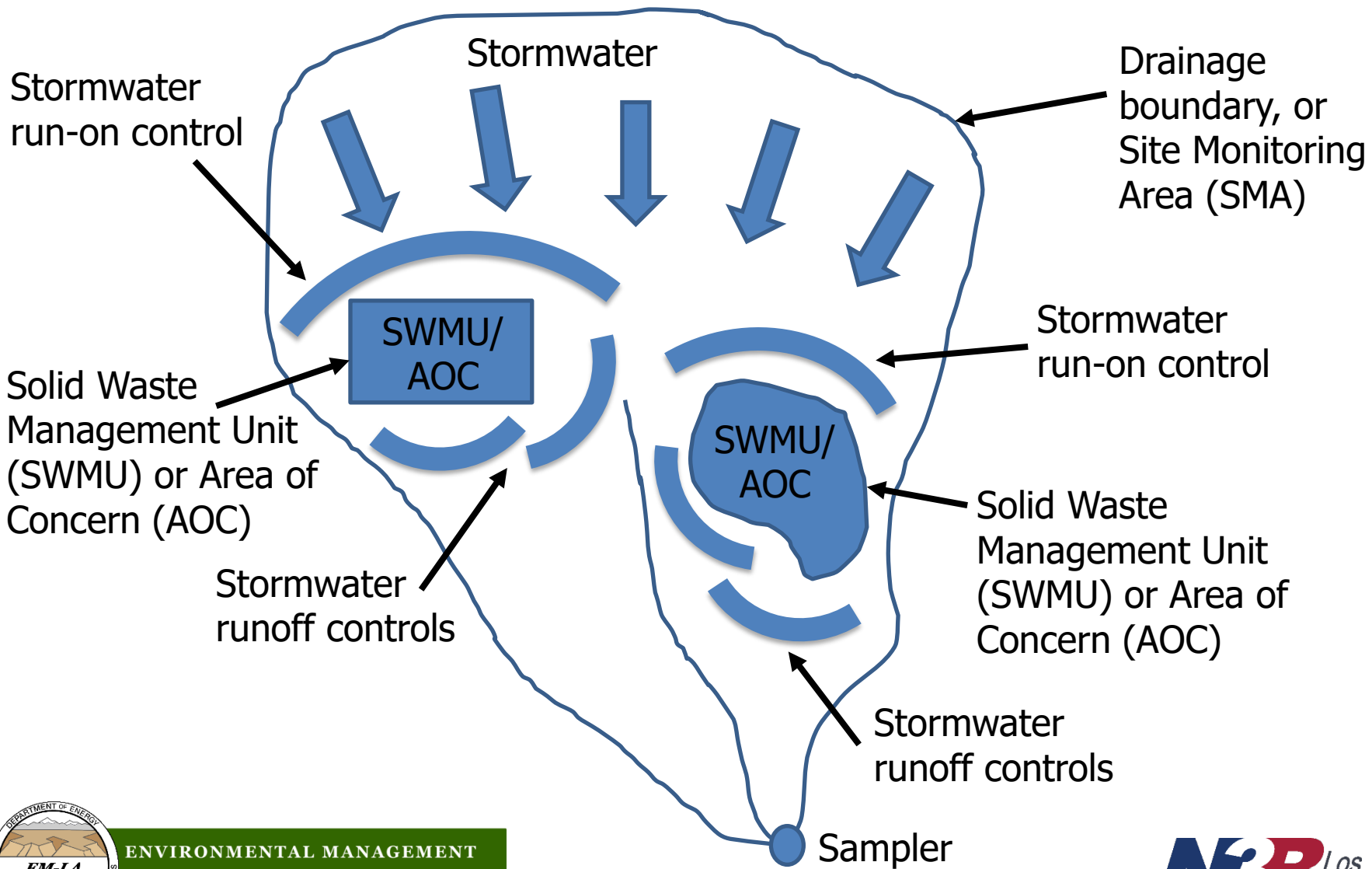
  - R-SMA-1

- Questions

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- The Individual Permit regulates discharges of stormwater from certain Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) at Los Alamos National Laboratory.

- U.S. Environmental Protection Agency issued the original Permit in 2010. The current Permit, which supersedes the original Permit, became effective August 1, 2022.

- The Permit lists 397 Sites that must be managed to prevent the transport of pollutants of concern to surface waters via stormwater run-off.

- The 397 Sites are managed under 239 Site Monitoring Areas

- The Individual Permit is a technology-based permit that relies on stormwater control measures to minimize discharges of pollutants into stormwater.
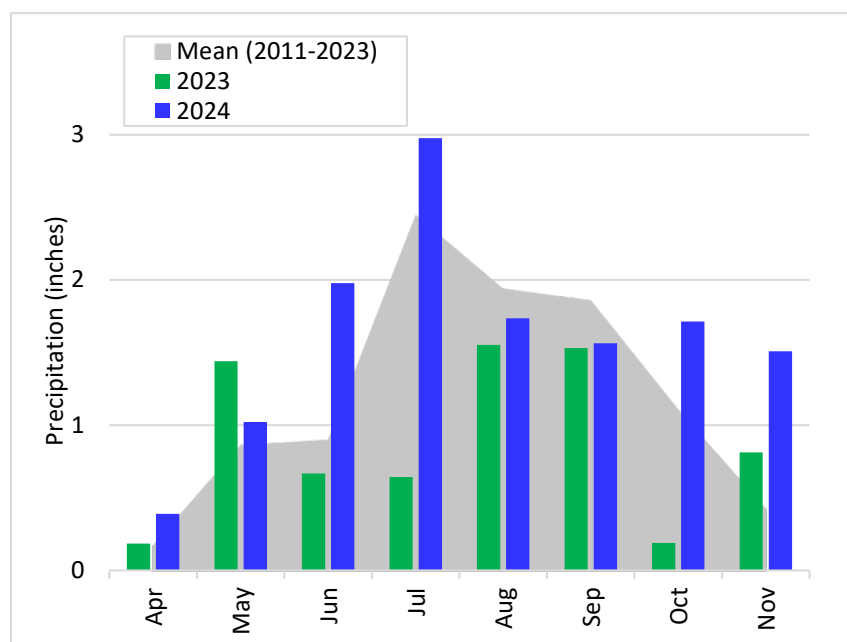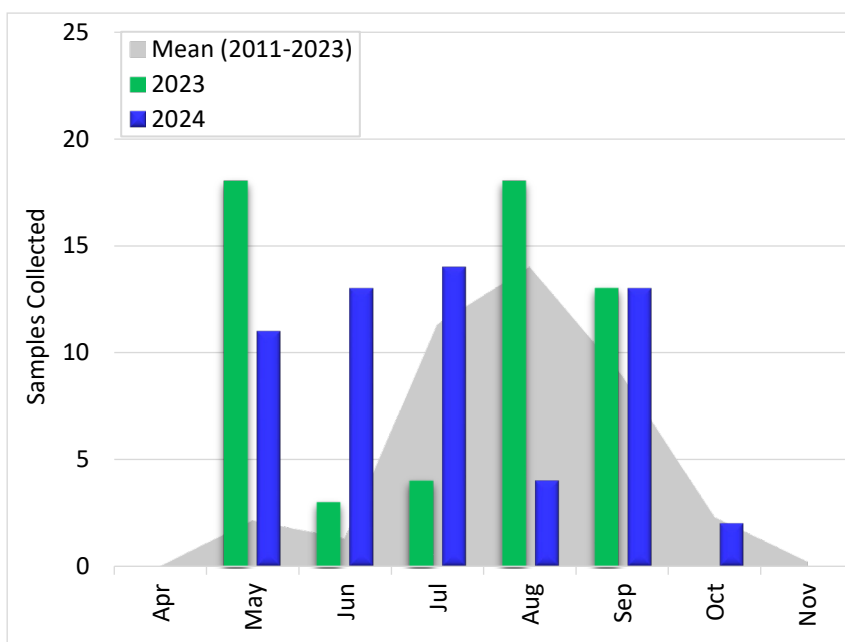
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Stormwater run-on control

Stormwater

Drainage boundary, or Site Monitoring Area (SMA)

Solid Waste Management Unit (SWMU) or Area of Concern (AOC)

SWMU/ AOC

SWMU/ AOC

Stormwater run-on control

Stormwater runoff controls

Solid Waste Management Unit (SWMU) or Area of Concern (AOC)

Stormwater runoff controls
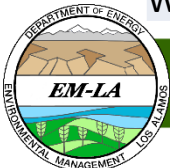
Sampler

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Precipitation

Samples Collected

- 57 samples collected from 32 Site Monitoring Areas (57 SWMUs/AOCs)
  - 22 of the 57 were partial samples
- 2,948 inspections conducted in 2024

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- 33 samples collected with no Target Action Level (TAL) exceedances
- 24 samples with TAL exceedances, 37 TAL exceedances total

SMA	Exceedances
2M-SMA-1.43	Copper (6x TAL), total PCBs (5x)
2M-SMA-2.2	Total PCBs (331x)
A-SMA-3	Copper (1.3x)
CDV-SMA-2	Aluminum (4x)
CDV-SMA-2.3	Total PCBs (10x)
CDV-SMA-2.42	Total PCBs (344x)
LA-SMA-3.1	Benzo(b)fluoranthene (8x), benzo(k)fluoranthene (3x), benzo(a)pyrene (4x), benzo(a)anthracene (2x), chrysene (6x), indeno(1,2,3-cd)pyrene (5x)
M-SMA-10.3	Aluminum (15x)
M-SMA-7.9	Copper (3x), zinc (1.02x)
PJ-SMA-3.05	Total PCBs (101x)
PJ-SMA-5	Copper (67x)
PJ-SMA-9.2	Copper (1.3x)
S-SMA-3.61	Bis(2-ethylhexyl)phthalate (1.3x), total PCBs (34x)
S-SMA-3.62	Aluminum (5x), copper (2x), total PCBs (330x)
T-SMA-1	Total PCBs (9x)
W-SMA-1	Total PCBs (4x)
W-SMA-8	Copper (4x)

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- The draft 2024 Sampling Implementation Plan was submitted to NMED January 15, 2025. The final version is due to EPA by March 31, 2025.
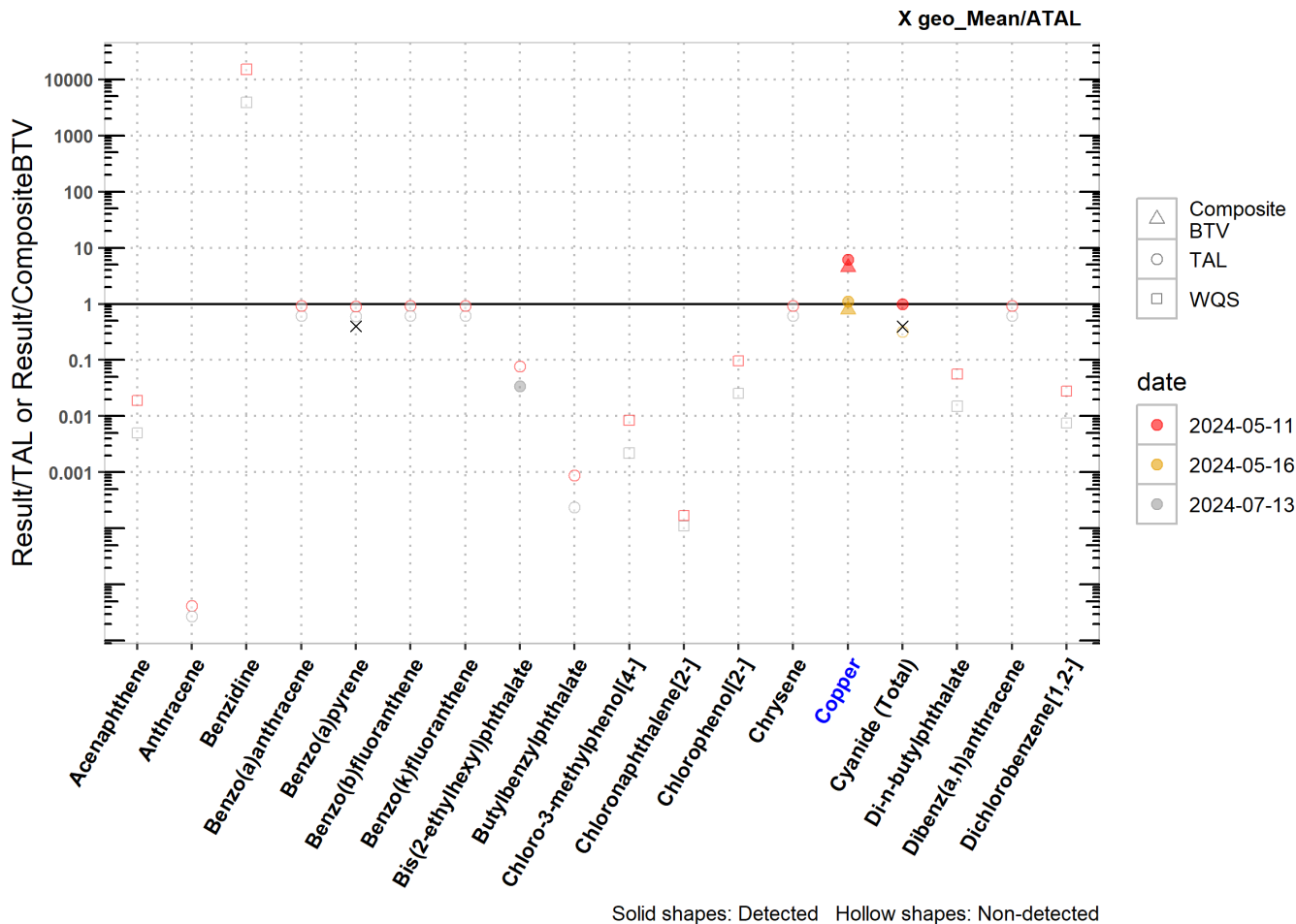
- SMA status categories:

	2024 Season	2025 Season
Active Monitoring	155	145
Active Monitoring/ Corrective Action	28	32
Corrective Action	22	21
Long-Term Stewardship	30	34
Eligible for SMA Deletion	5	8

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2M-SMA-1.43

- Two samples for each Site-related pollutant of concern
- Copper exceeded Target Action Level (TAL) and Background Threshold Value (BTV)
- PCBs exceeded TAL but not BTV
- 2024 status: Active Monitoring
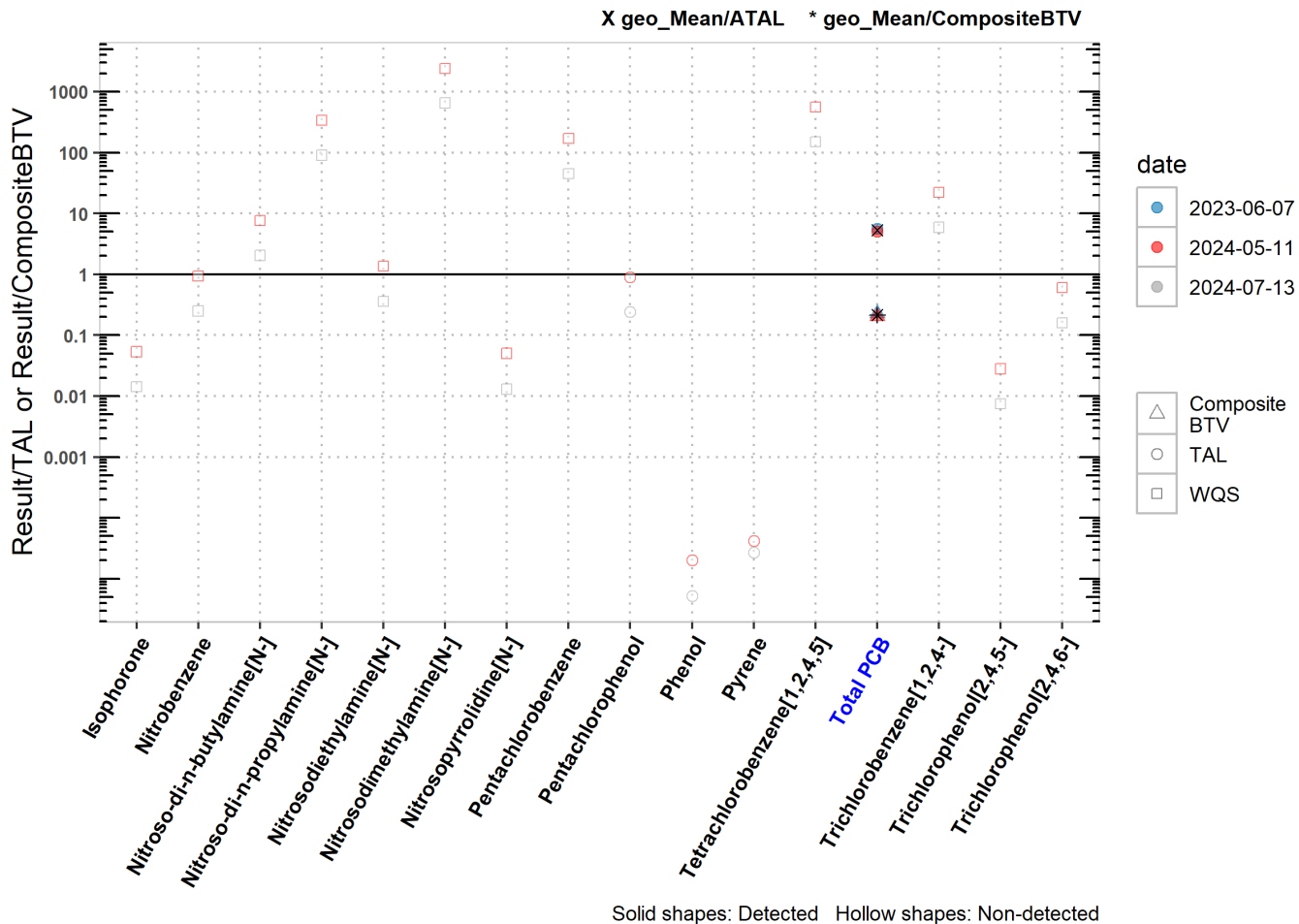- 2025 status: Corrective Action (must be completed by 2027)

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2M-SMA-1.43
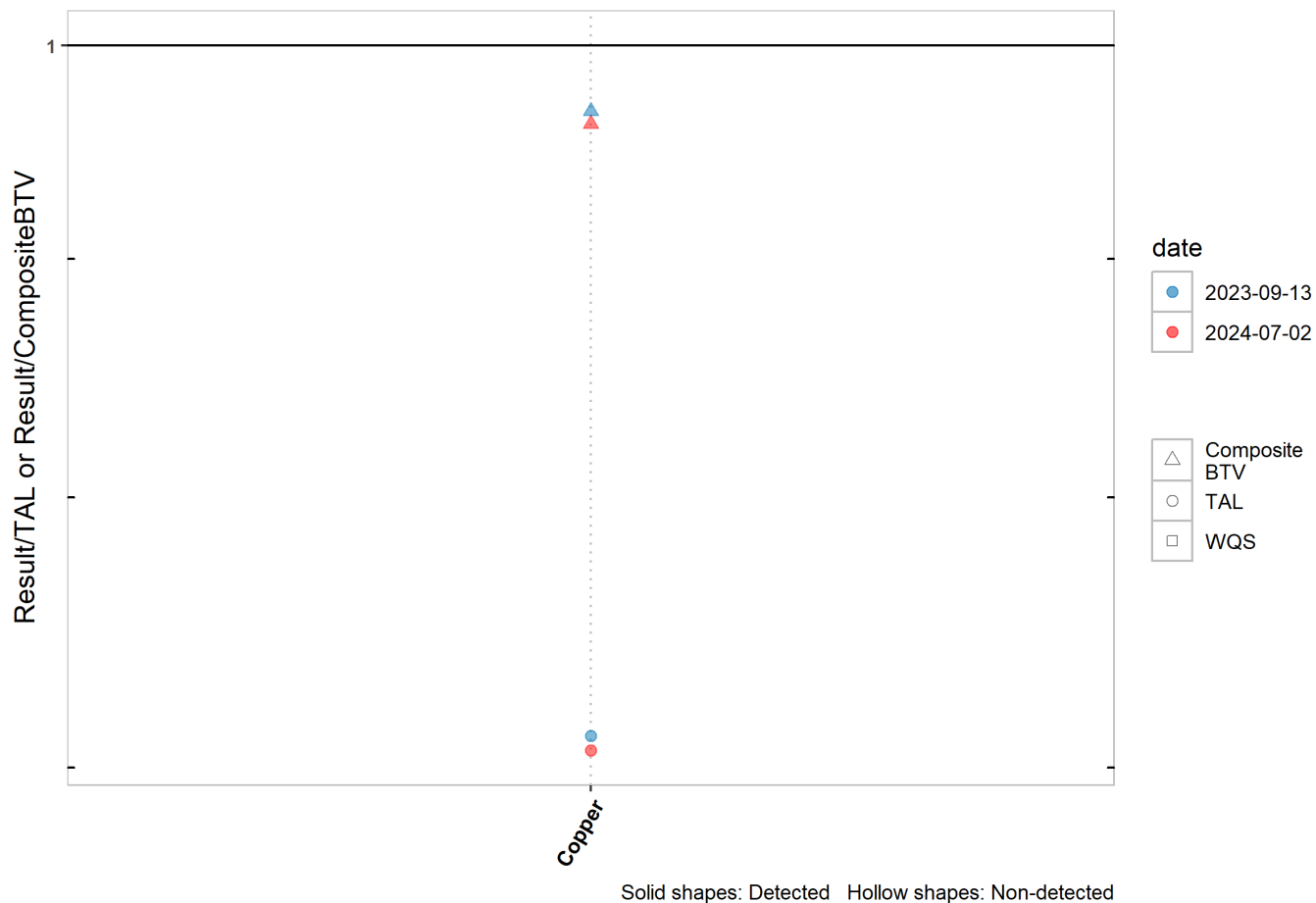

Solid shapes: Detected   Hollow shapes: Non-detected

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2M-SMA-1.43

X geo_Mean/ATAL   * geo_Mean/CompositeBTV

date
- 2023-06-07
- 2024-05-11
- 2024-07-13

△ Composite BTV
○ TAL
□ WQS

Solid shapes: Detected   Hollow shapes: Non-detected

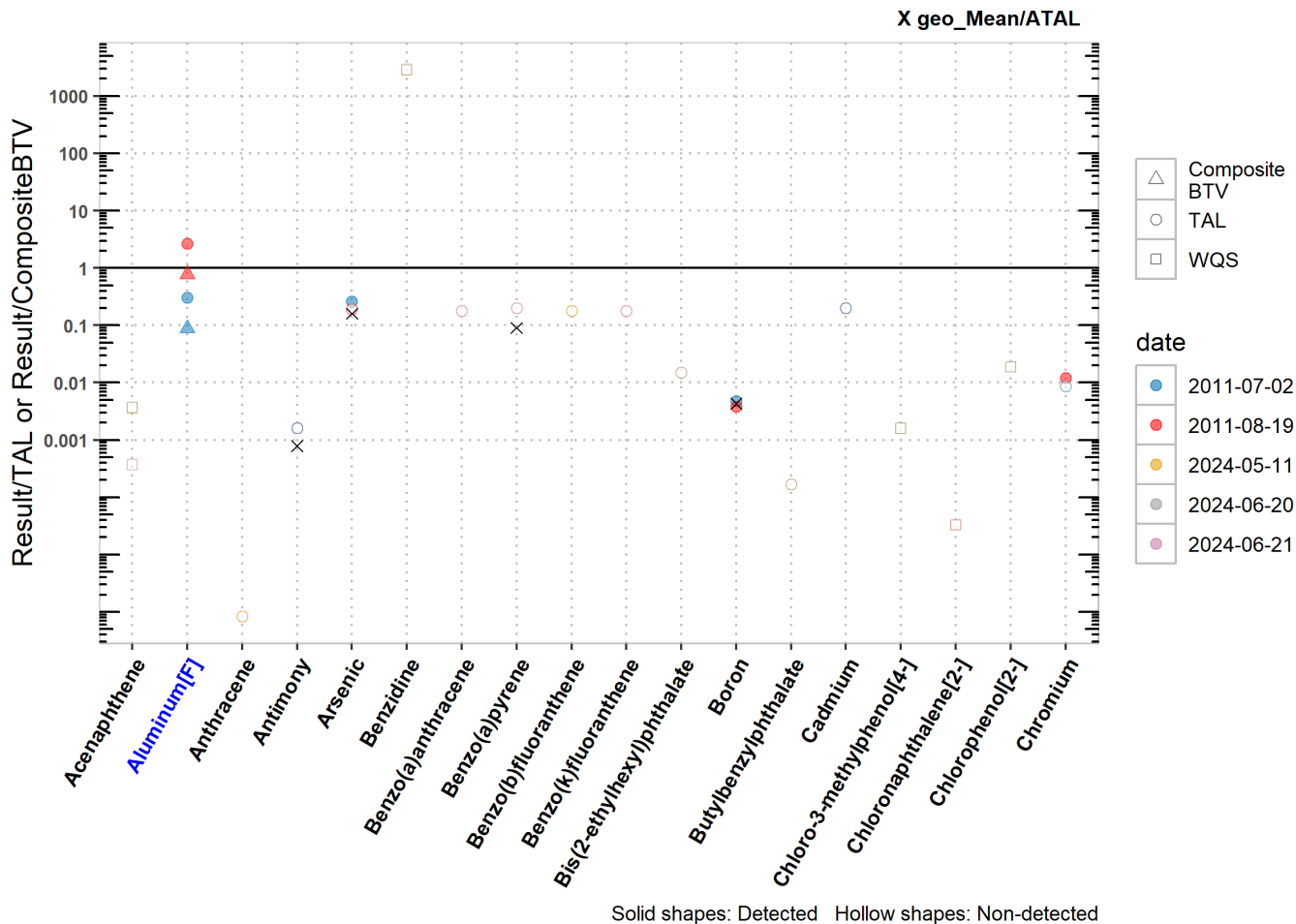10

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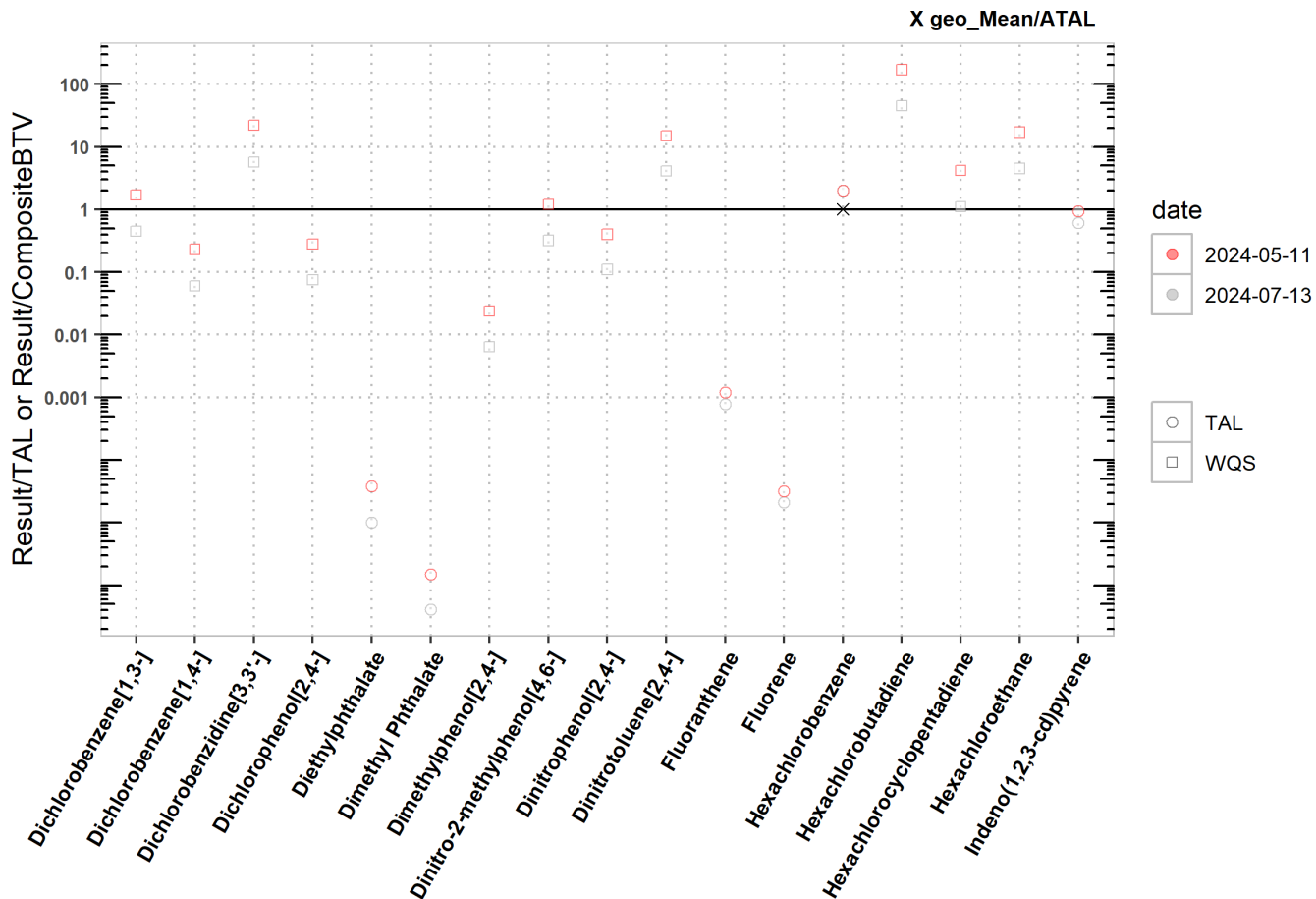
M-SMA-13

Solid shapes: Detected   Hollow shapes: Non-detected

- In the 2022 SIP: M-SMA-13 screened into corrective action for copper

- Enhanced controls certified in July 2023

- Two samples collected with results below TALs

- 2024 status: Active Monitoring

- 2025 status: SMA Deletion
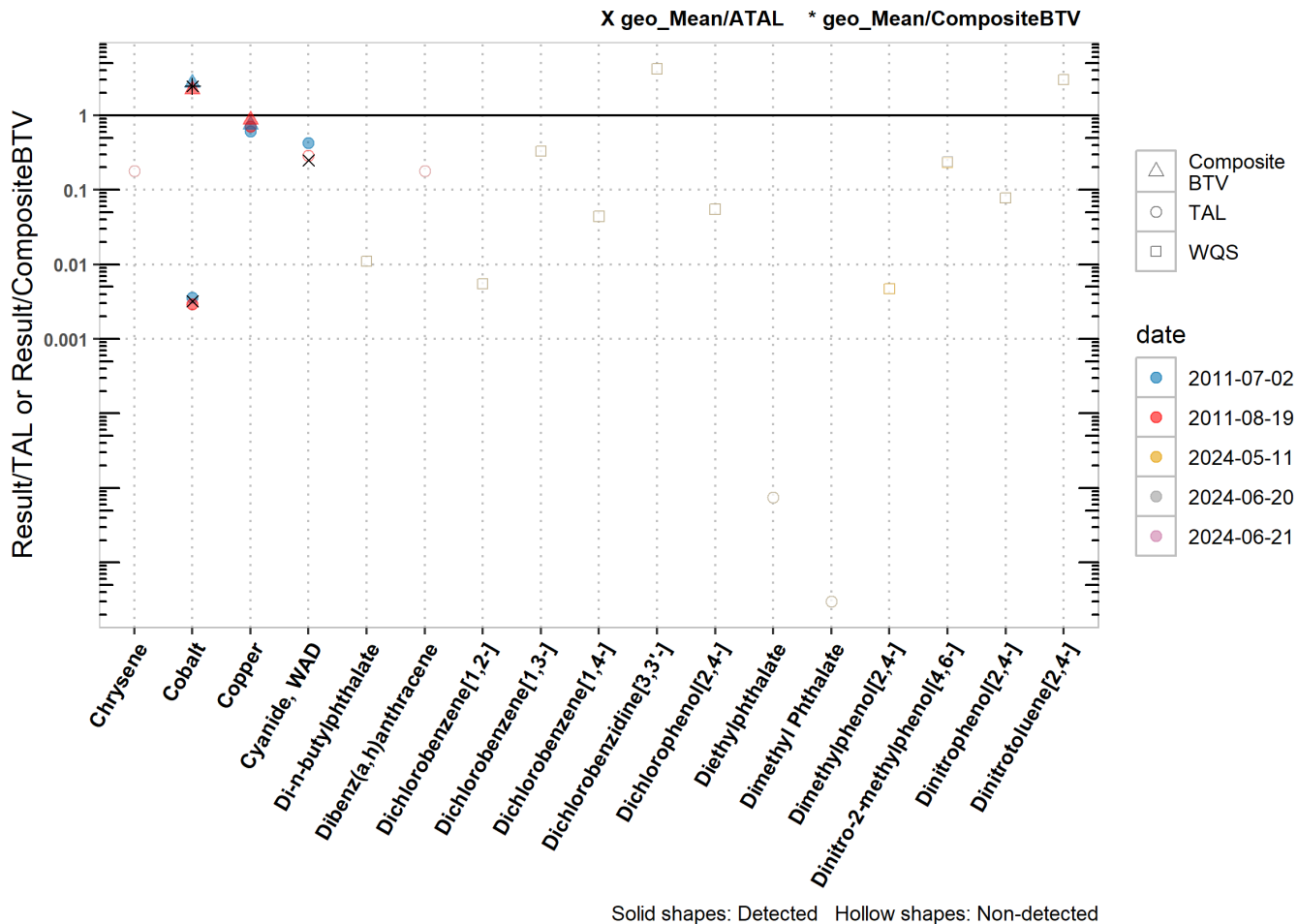
- A Deletion Request will be prepared in 2025

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R-SMA-1

- Two samples collected for each Site-related pollutant of concern
- All parameters with TAL exceedances were below their respective composite BTVs
- 2024 status: Active Monitoring
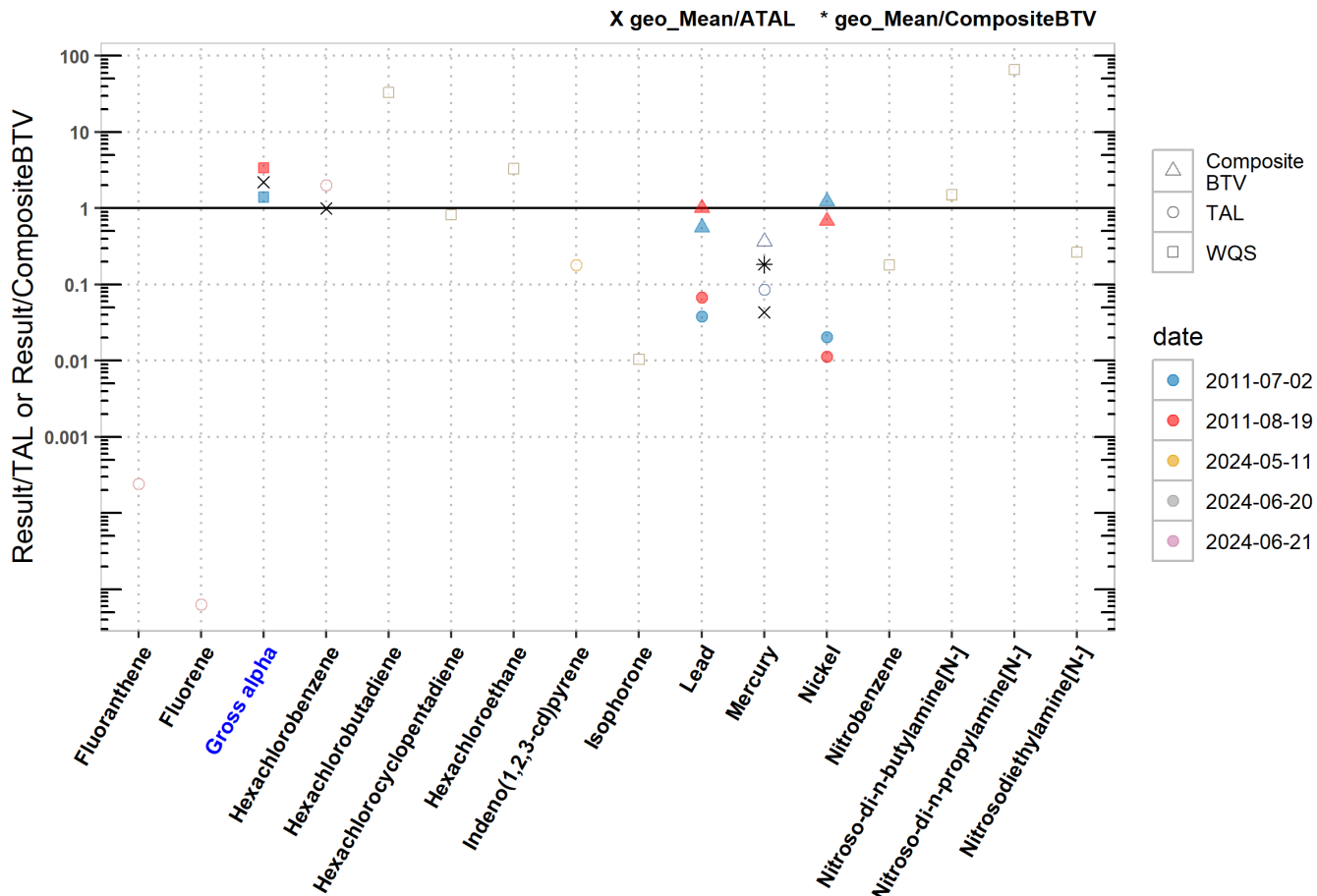- 2025 status: Long Term Stewardship per Permit Part I.C.3.a

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R-SMA-1

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R-SMA-1

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Questions?