

AOC 4 Monitoring Program and Database Update

Former DuPont Waynesboro Site, Virginia

Area of Concern (AOC) 4

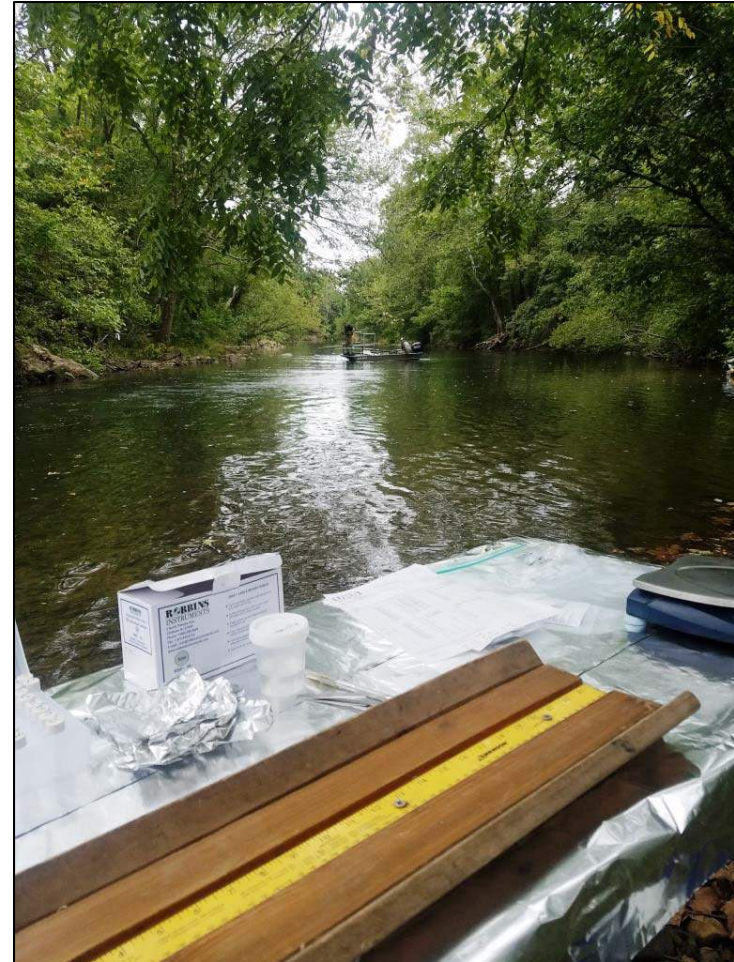


February 1, 2017

AECOM

Agenda

- 2016 Long-term and Short-term Monitoring Updates
- Upcoming Schedule
 - Field
 - Reporting
- Database Update



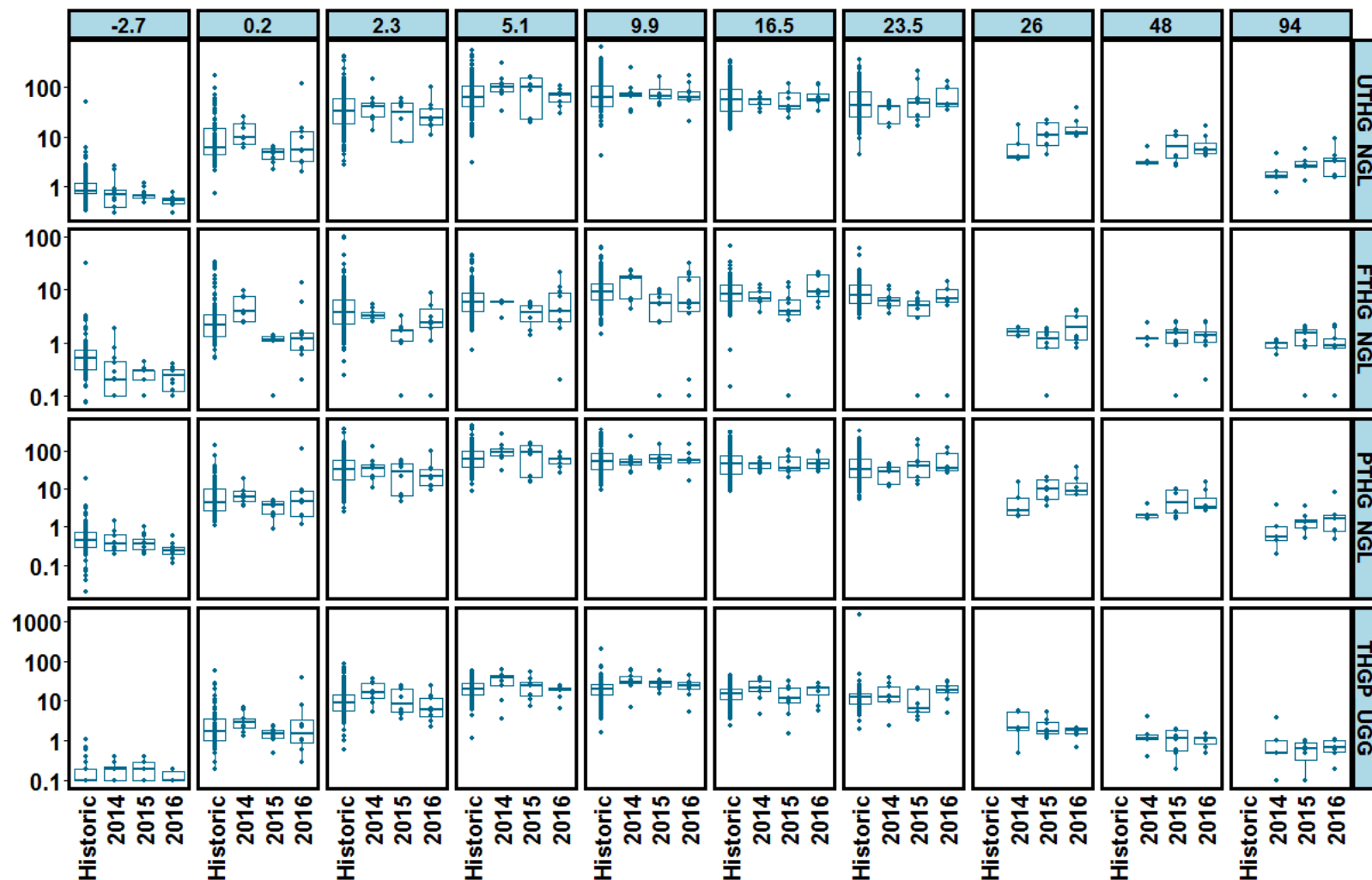
Long-term Monitoring

- Completion of ‘baseline’ data collection activities (2014-2016)
- Beginning integration of multiple lines of evidence
- Change in focus from event-based analysis to more holistic view



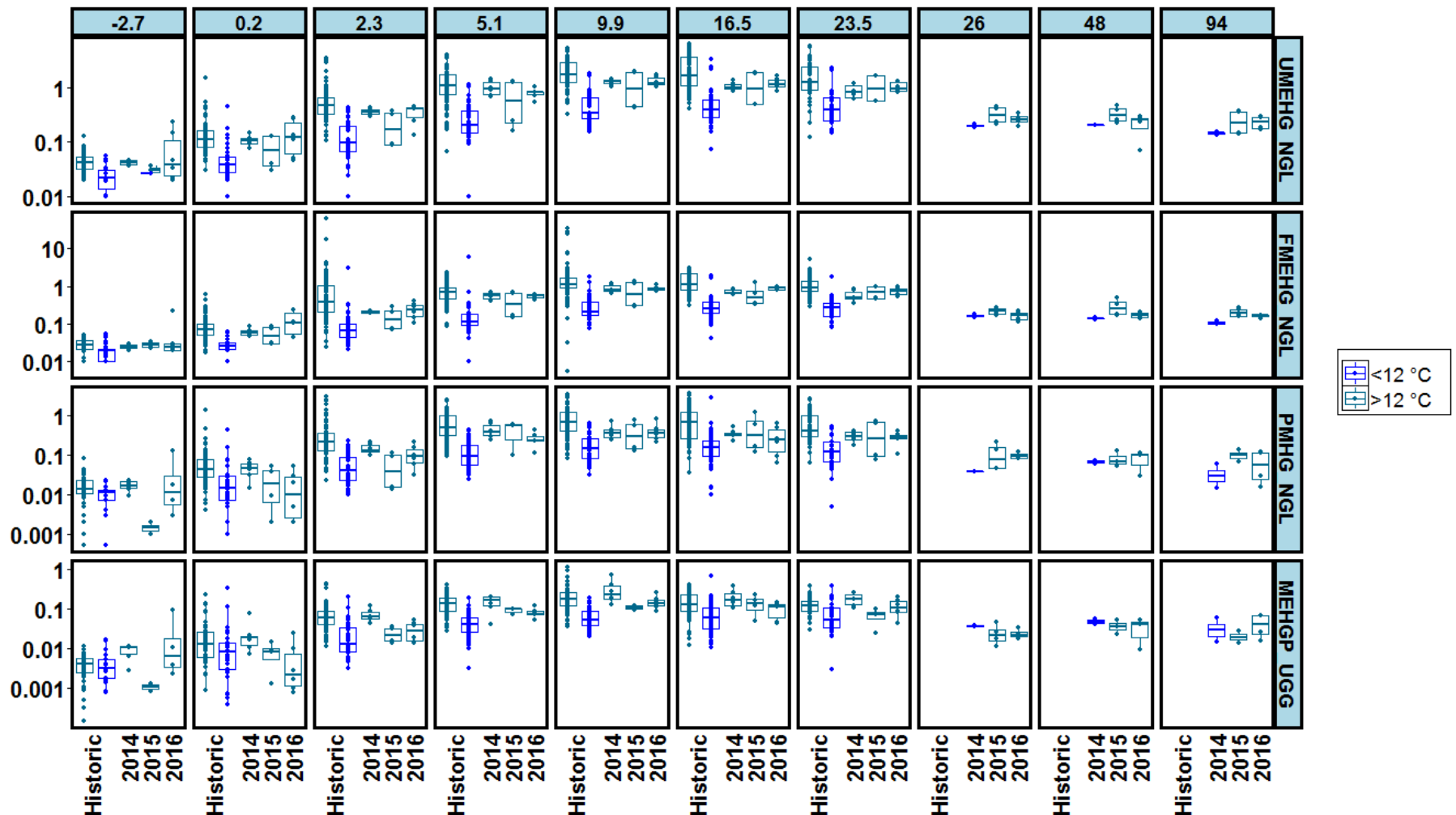
Long-term Monitoring

Surface Water- THg

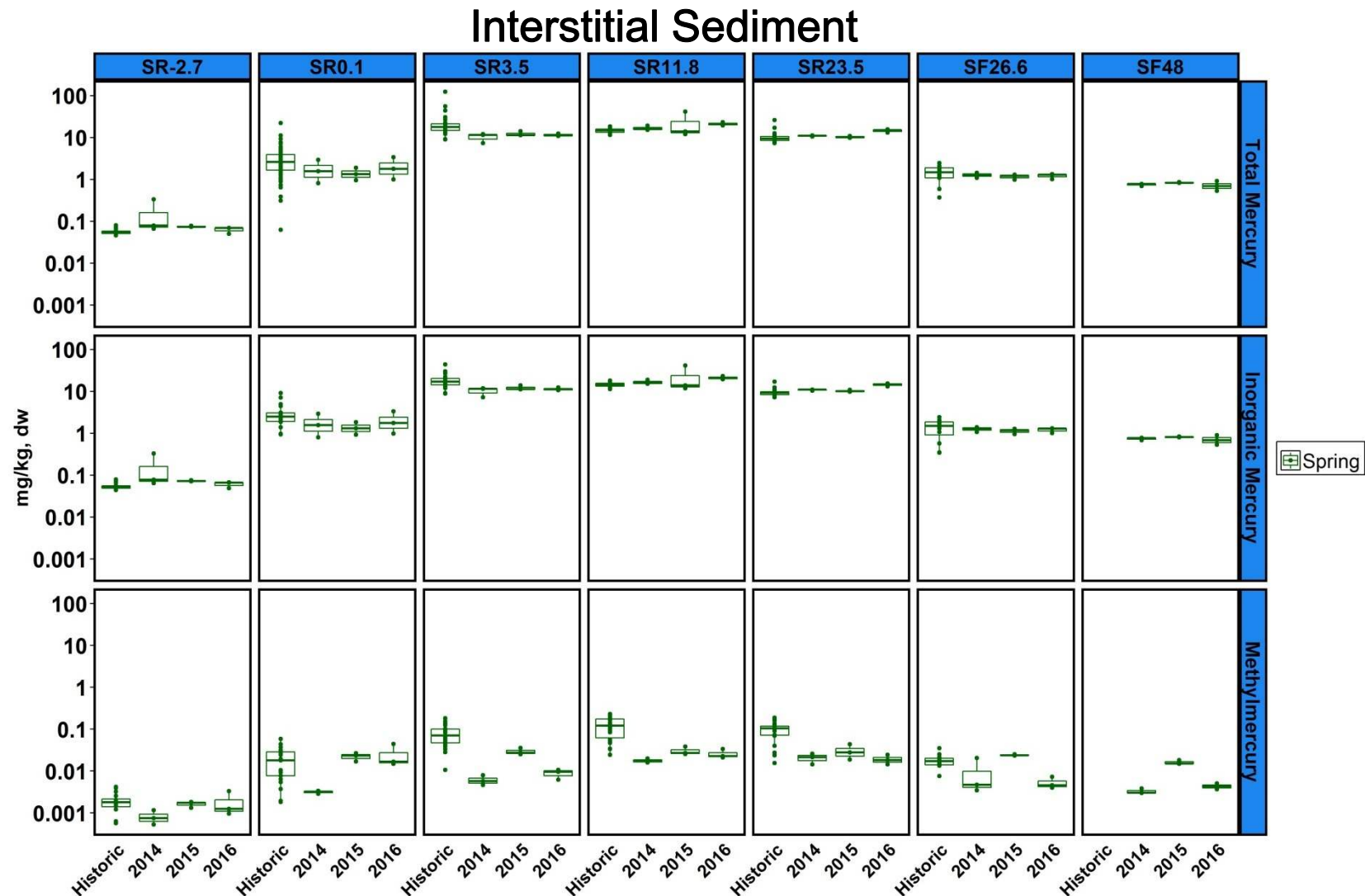


Long-term Monitoring

Surface Water- MeHg

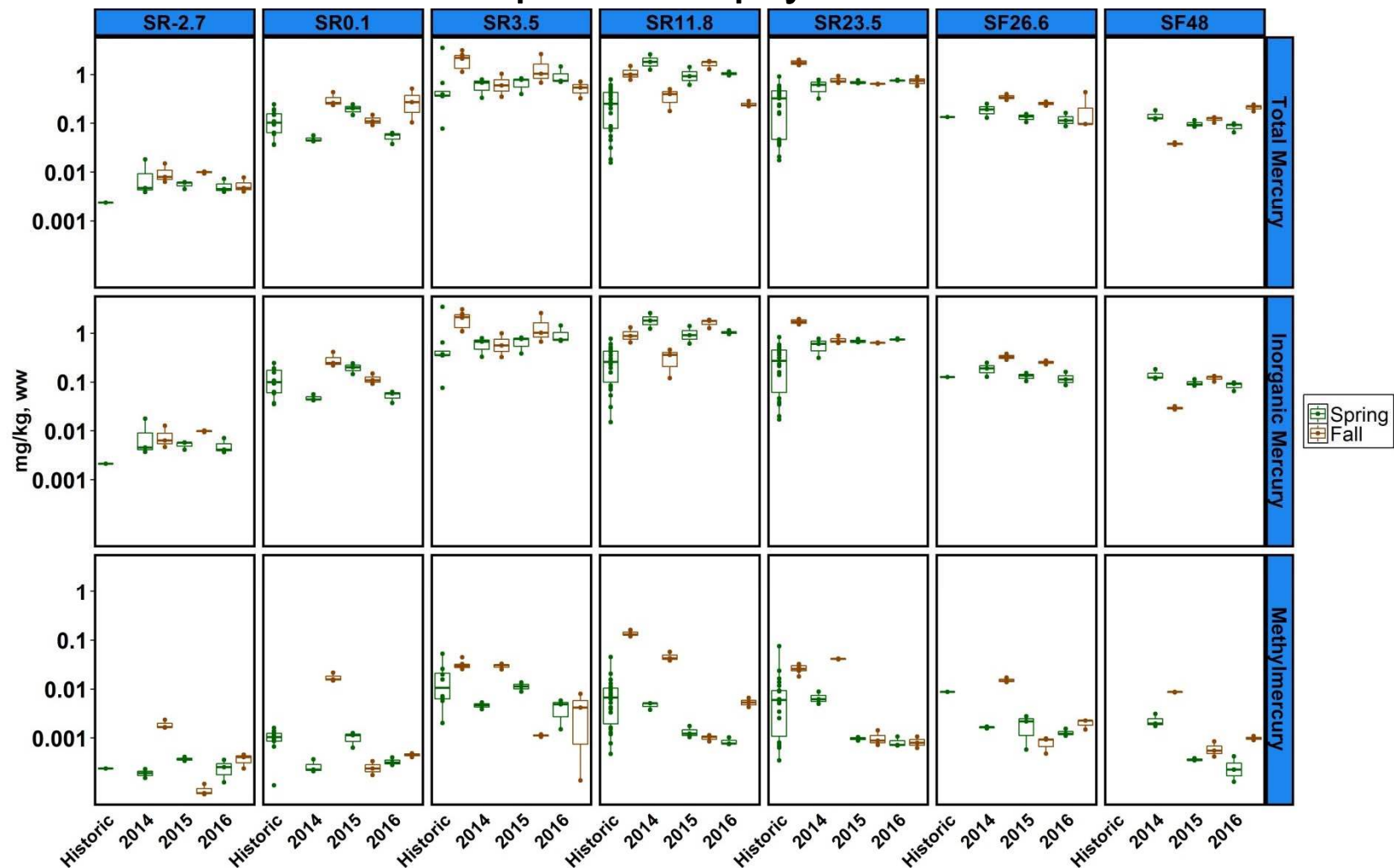


Long-term Monitoring

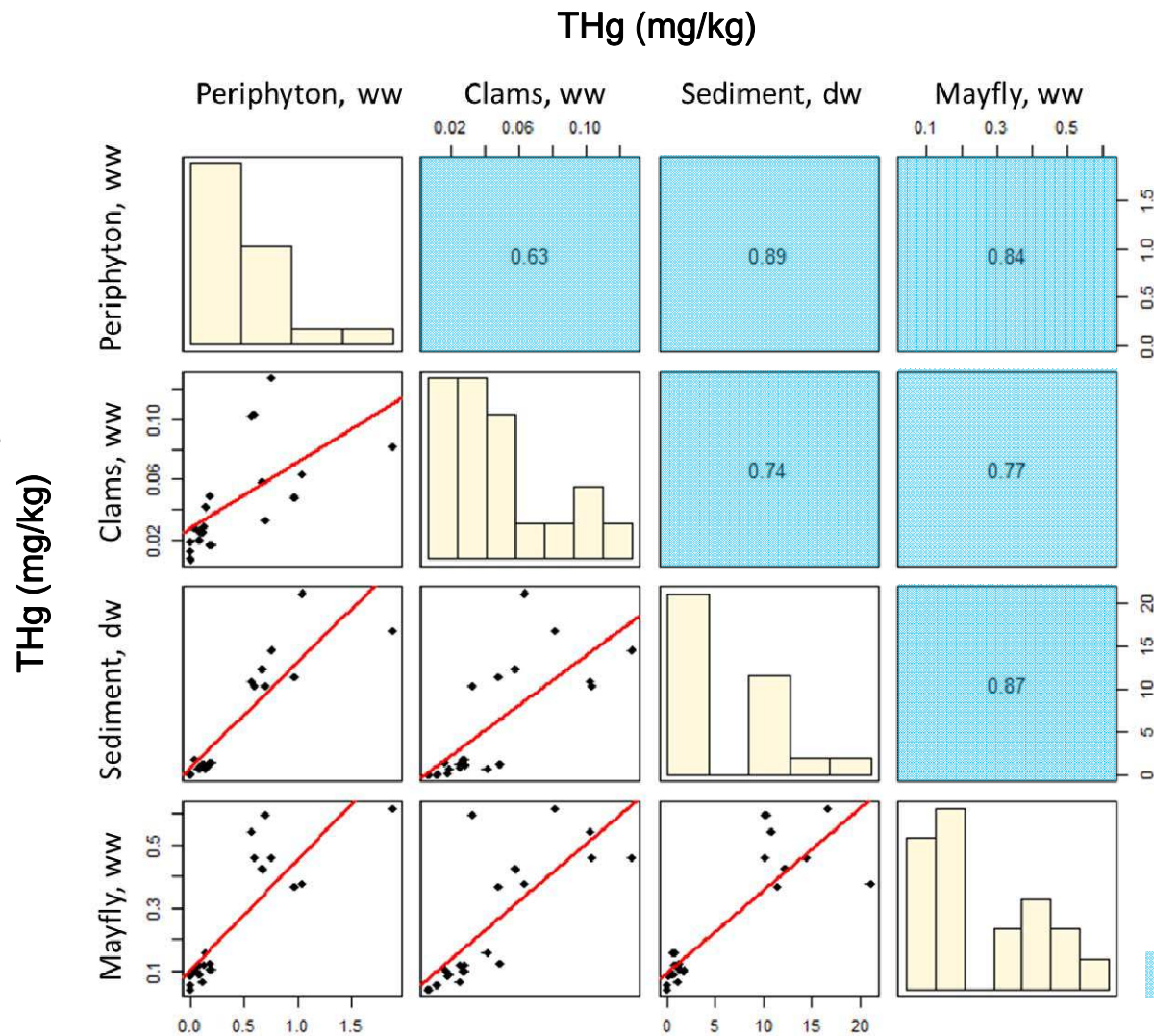


Long-term Monitoring

Epilithic Periphyton

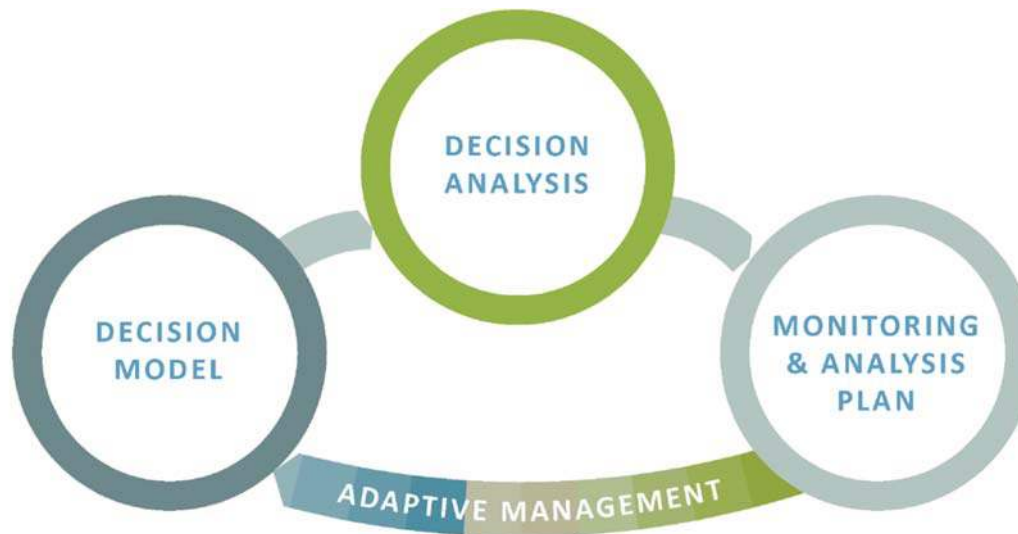


Long-term Monitoring



Long-term Monitoring

- Synergistic lines of evidence establish pre-remedy conditions on a large spatial scale
- Post-remedy monitoring intends to evaluate progress toward attainment of remedial action objectives
- Utilize adaptive management post-remedy to optimize monitoring program



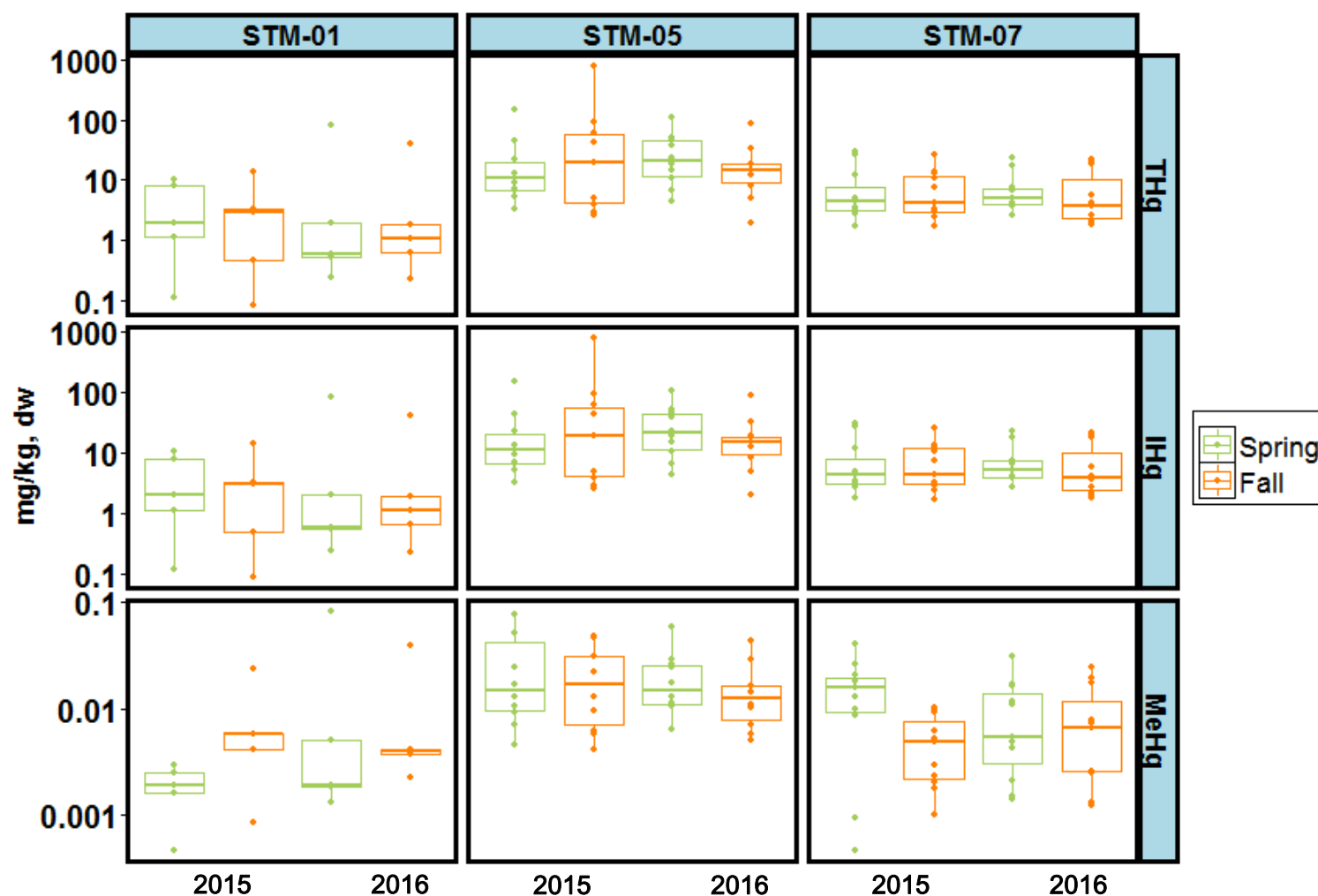
Short-term Monitoring

- 2016 Monitoring stations
 - STM-01, STM-05, and STM-07
- Bank construction nearly complete at STM-01 (Constitution Park)



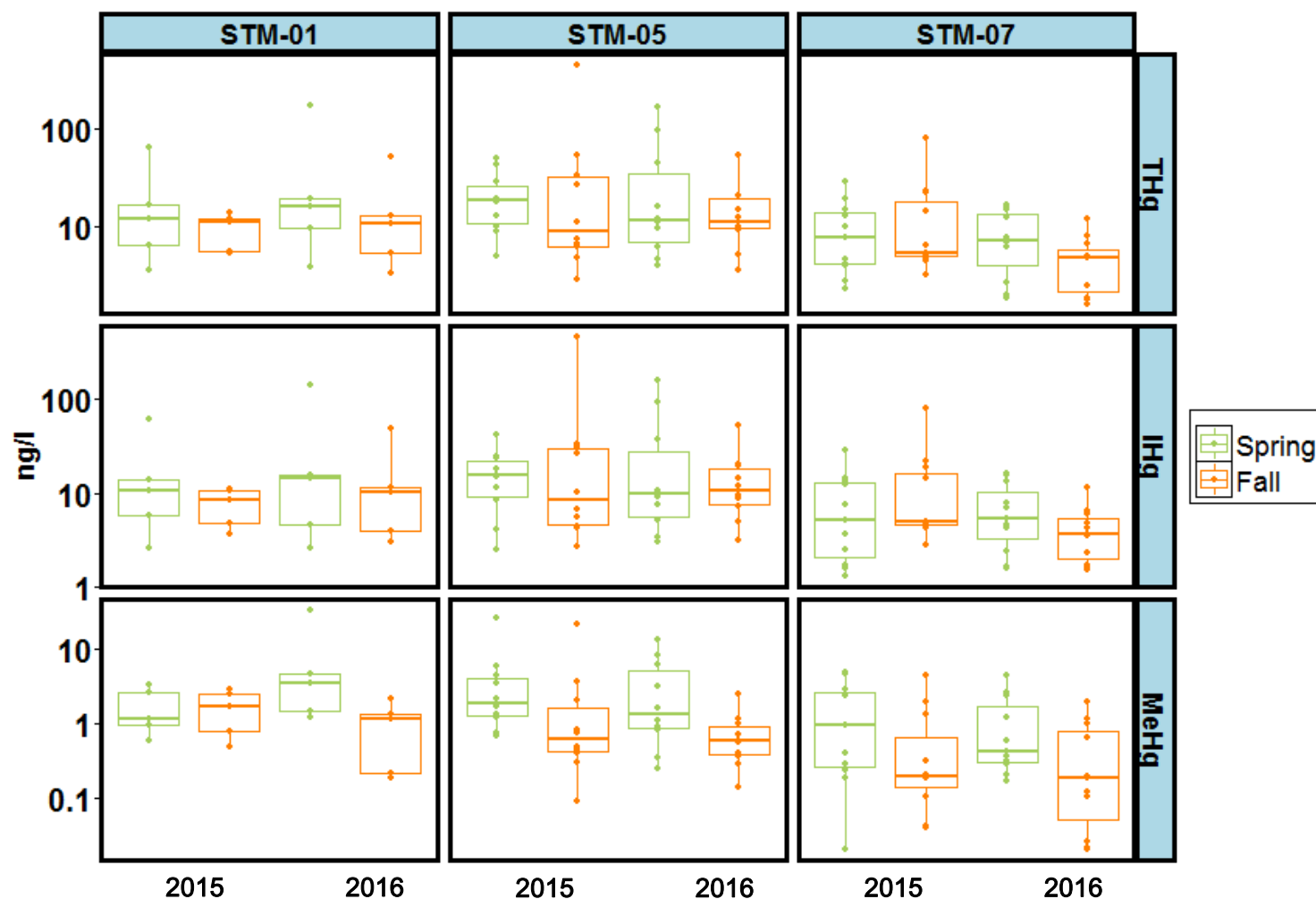
Short-term Monitoring

Bulk Sediment



Short-term Monitoring

Filtered Pore Water



Short-term Monitoring

- Additional STM station(s) pending anticipated remedial schedule
- 2017- Post-remediation monitoring at STM-01
- Continued monitoring of ancillary habitat metrics



Monitoring Program Schedule- Field

–STM

- Spring event- early June
- Post-remediation
 - STM-01 (Constitution Park)
- Pre-remediation (transitional)
 - STM-05 (North Park)
 - STM-07 (WWTP)
 - STM-08 (Opposite WWTP)



Monitoring Program Schedule- Field

–LTM

- March 2017- Mallard sampling



- Spring/Summer-
 - Aquatic exposure media, Bass, Turtles, and Terrestrial exposure media
- 2017 Bass sampling- Paired with VDEQ monitoring

Monitoring Program Schedule- Reporting



–STM

- 2016 Data Summary Memorandum
- 2016 Annual Report

–LTM

- Baseline (2014 - 2016) Report

AOC 4 Long-Term Monitoring
Baseline Report (2014-2016) South
River and a Segment of the South Fork
of the Shenandoah River, Virginia

Database Update

–Over 108,000 results in EIM

–Abiotic Results

- SW – 39,944
- Sed – 14,300
- Soil – 32,381

–Biotic Results

- Animal tissue – 15,740
- Plant tissue – 1,993

Database Update

- On-going integration of researcher data and biological data
 - ~ 5,000 records have been added
 - ~ 20,000 more to go
- Locus Mobile data collection platform tests successful
 - Anticipate rolling out program-wide in 2017



Thank You

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