



McLouth Steel RI/FS Update



Community Advisory Group Meeting

August 13, 2026

Christopher Vandegrift, Project Manager, CDM Smith

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Remedial Investigation / Feasibility Study (RI/FS)

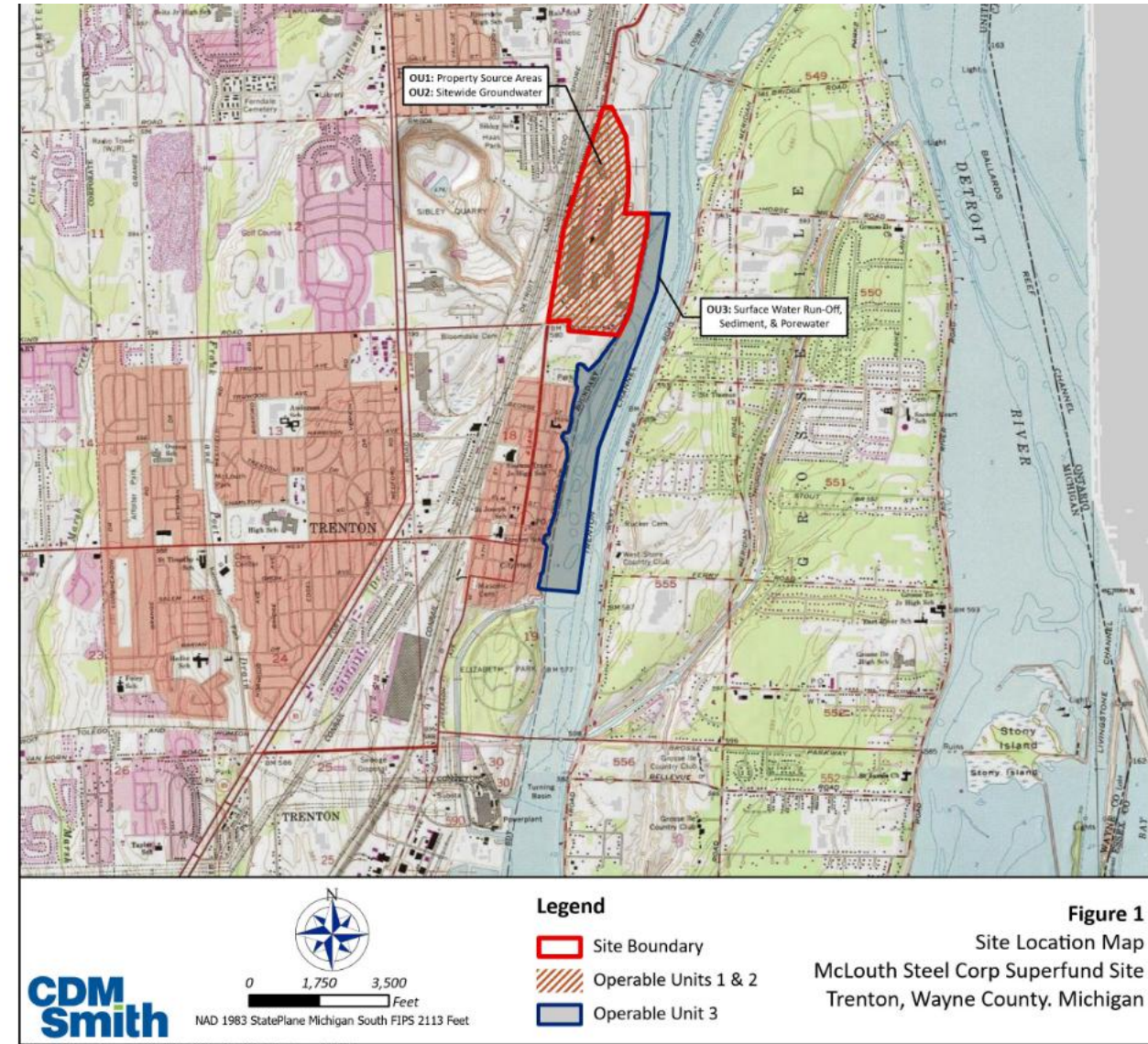
- A Remedial Investigation is being performed to collect information on the nature and extent of contamination at the former steel plant property.
- The goals of the RI are two-fold:
 - to provide enough detail to assess the risks posed by the site to human health and the environment, and
 - to enable evaluation of potential and appropriate remedial measures in the Feasibility Study .



McLouth Steel

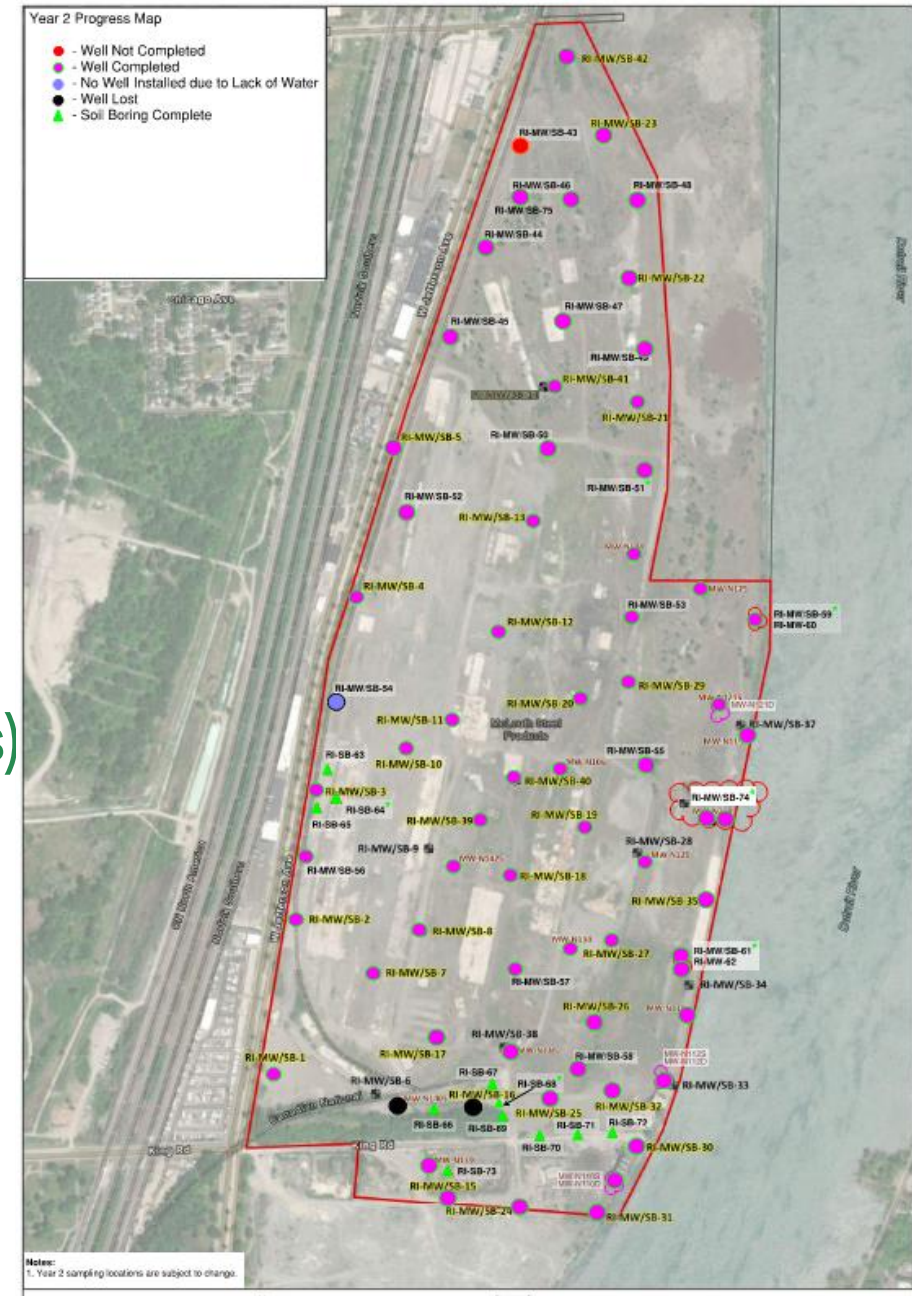
Three Operable Units

- Operable Unit 1 (OU1) – Source Areas
 - Releases to the land, fill materials, steel plant slag, etc.
- Operable Unit 2 (OU2) – Groundwater
 - Impacts to groundwater, assessment of site hydrogeology, evaluation groundwater discharge
- Operable Unit 3 (OU3)– Trenton Channel
 - Groundwater discharge to surface water, impacts to sediment and porewater



OU1 and OU2 - Investigation

- Work Completed – Year 1 & 2
 - ✓ Soil borings/soil sampling (65 borings)
 - ✓ Monitoring well installation (52 new wells)
 - ✓ Well development (52 new & 14 existing)
 - ✓ Synoptic rounds of water level elevations (2 events)
 - ✓ Groundwater sampling (2 events)
 - ✓ Hydraulic testing of select monitoring wells (16)
 - ✓ Survey of boring and monitoring well locations
 - ✓ Technical Memorandums



OU1 and OU2 - Investigation

- Work Completed – Year 2
 - ✓ Passive flux meter deployment (within 6 well clusters)
 - ✓ Deployed water level sensors in selected monitoring wells
 - ✓ Disposed soil and water generated



OU1 and OU2 - Investigation

■ Laboratory Analytical

- Soil – Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Pesticides, Polychlorinated biphenyls (PCBs), Dioxins/Furans (D/F), Per- and Polyfluoroalkyl Substances (PFAS), Metals, TOC
- Groundwater – VOCs, SVOCs, Pesticides, PCBs, D/F, PFAS, Metals, pH



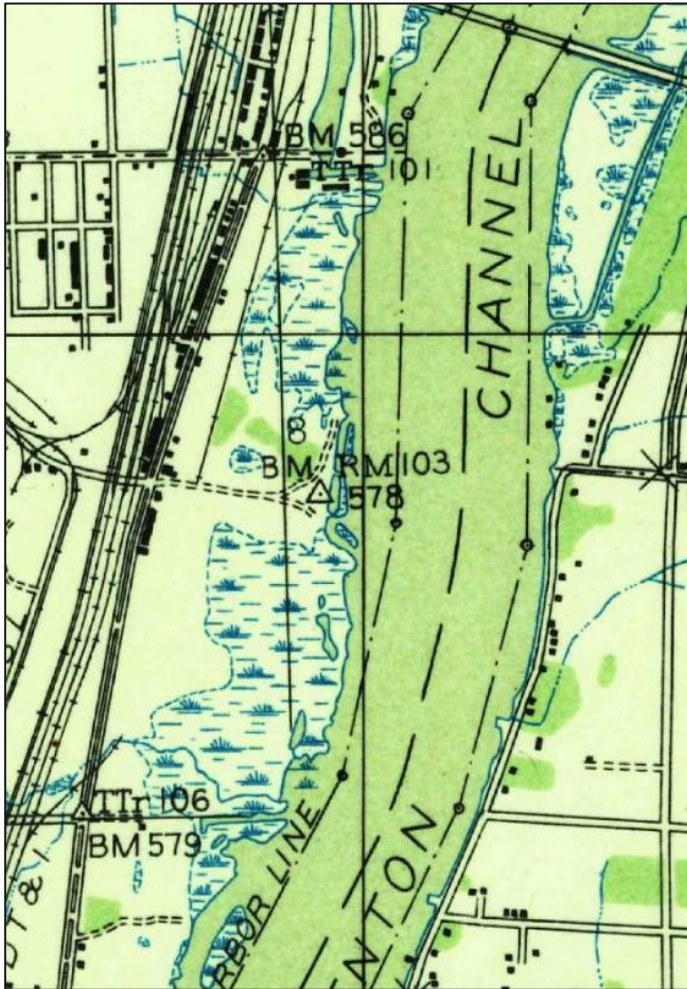


Operable Unit 1, Soil and Sources – Status & Summary

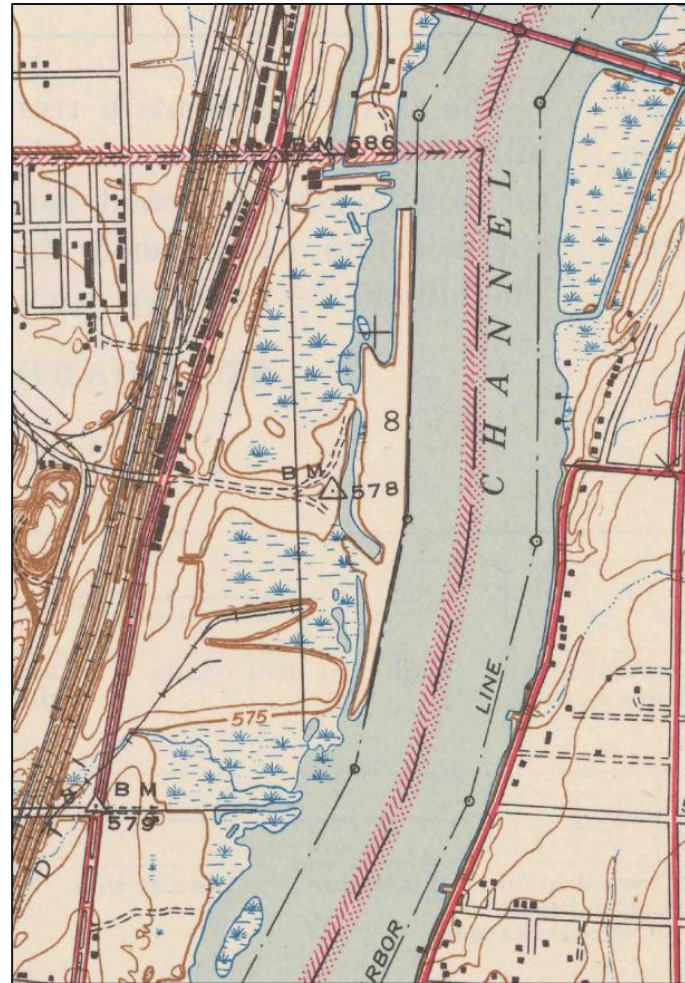
- Results presented at the May 13 CAG meeting
- OU1 Year 2 Tech Memo now posted in Reports and Documents Section of the Site Documents and Data tab of the McLouth Steel Corp Superfund Site Profile Page
 - <https://www.epa.gov/superfund/mclouth-steel>
- Next Step –
 - Risk Assessment and Remedial Investigation Report

OU1 Results - Geology

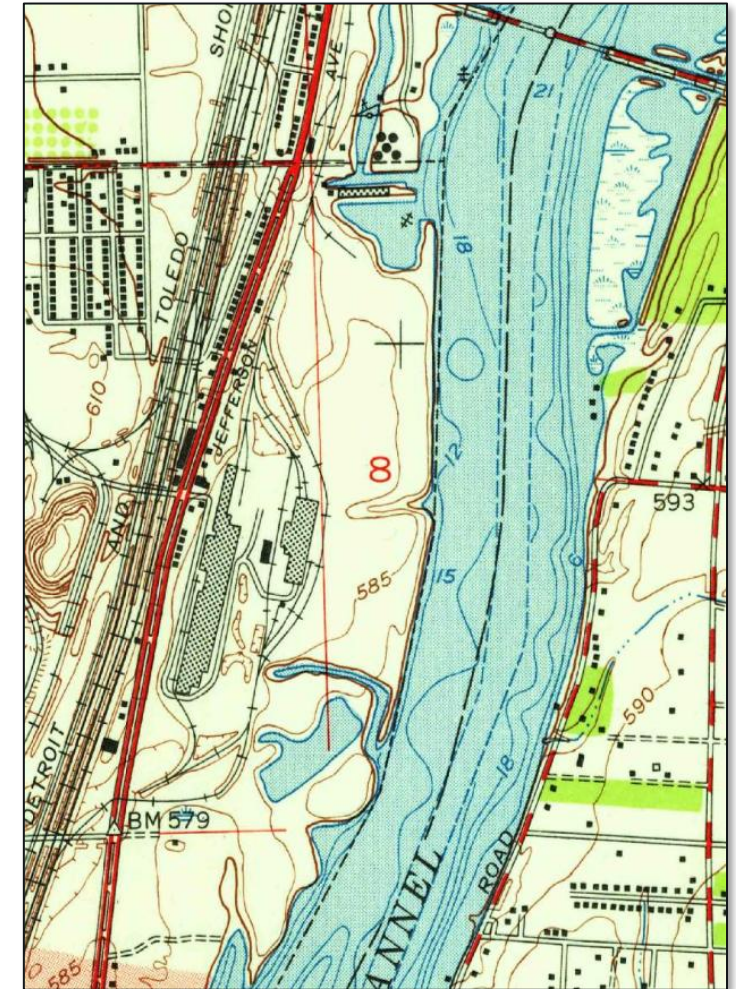
- Filled land above wetlands



1936



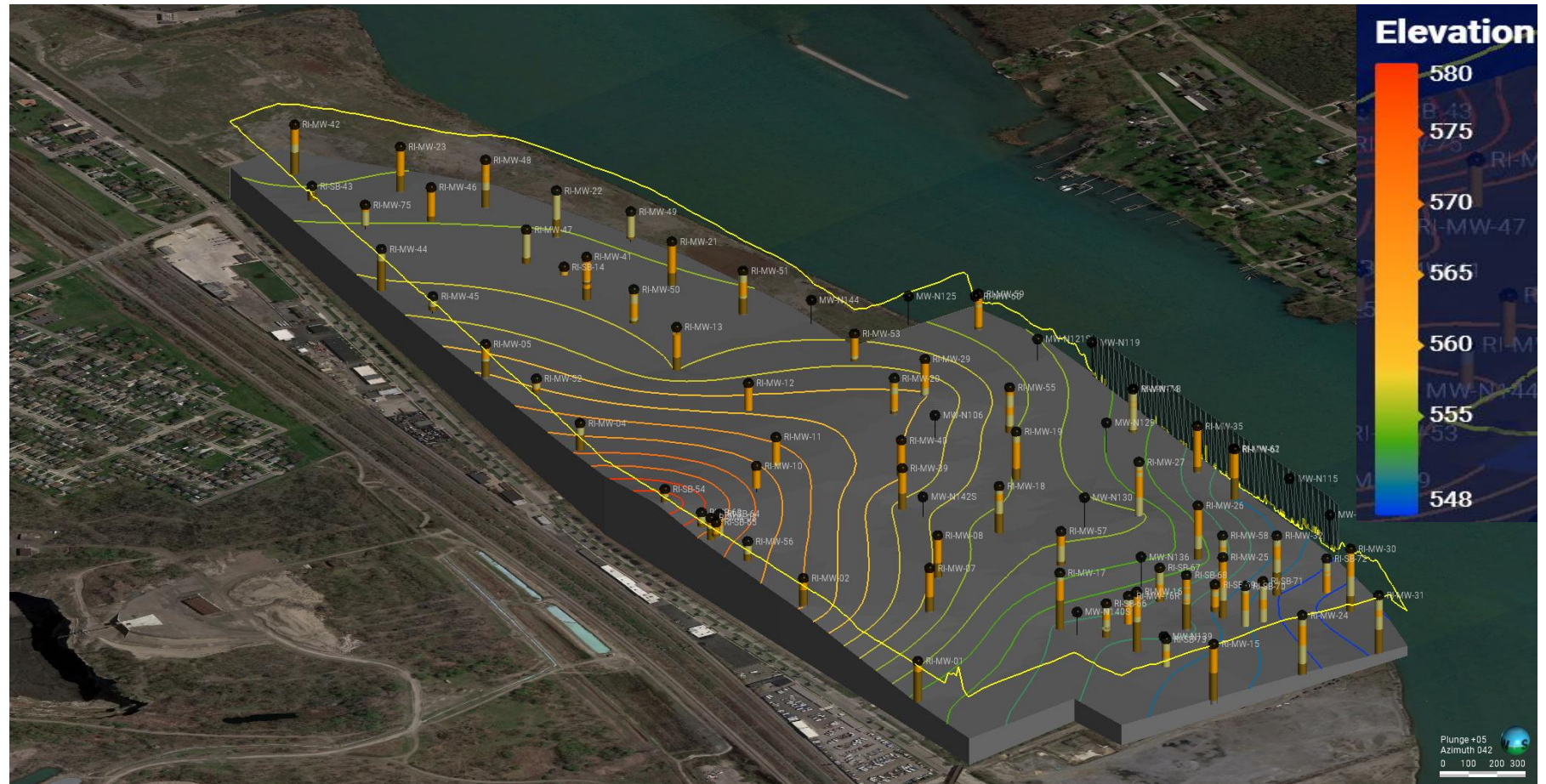
1942



1952

OU1 Results – Geology

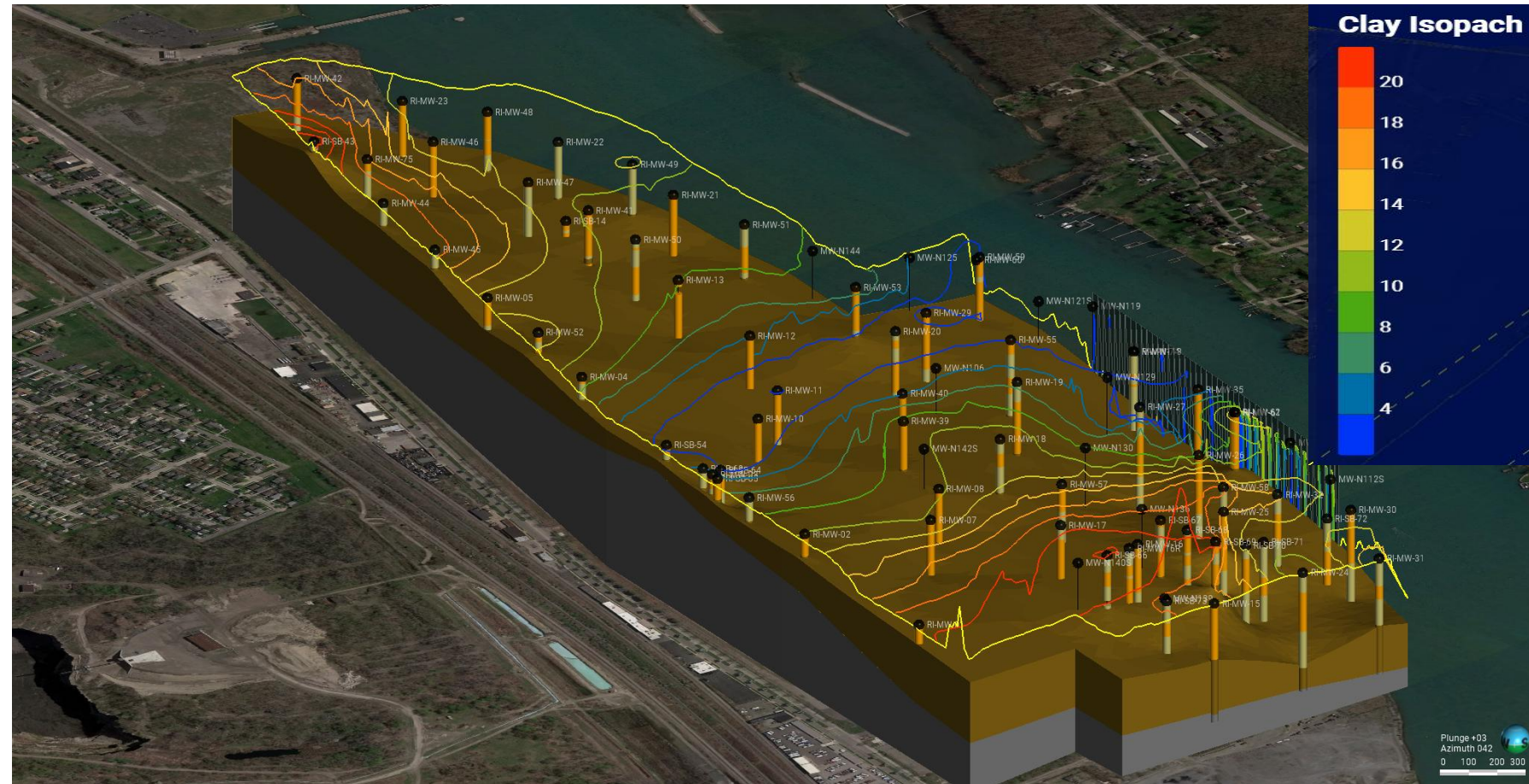
- Top of bedrock surface
 - ✓ High along W. Jefferson Ave
 - ✓ Lowest at SE corner by river
 - ✓ Ridge extending W-E at center of site



OU1 Results – Geology

Clay Thickness (Isopach)

- ✓ Ranges from ~2-20'
- ✓ Generally > 6'
- ✓ W-E trending thinner area in center of site
- ✓ N-S trending thinner area along shoreline



OU1 Results – Geology

- Top of Clay Surface
 - ✓ Highest along W. Jefferson Ave.
 - ✓ N-S trending flatter section in center of site
 - ✓ N-S trending lowest section along river



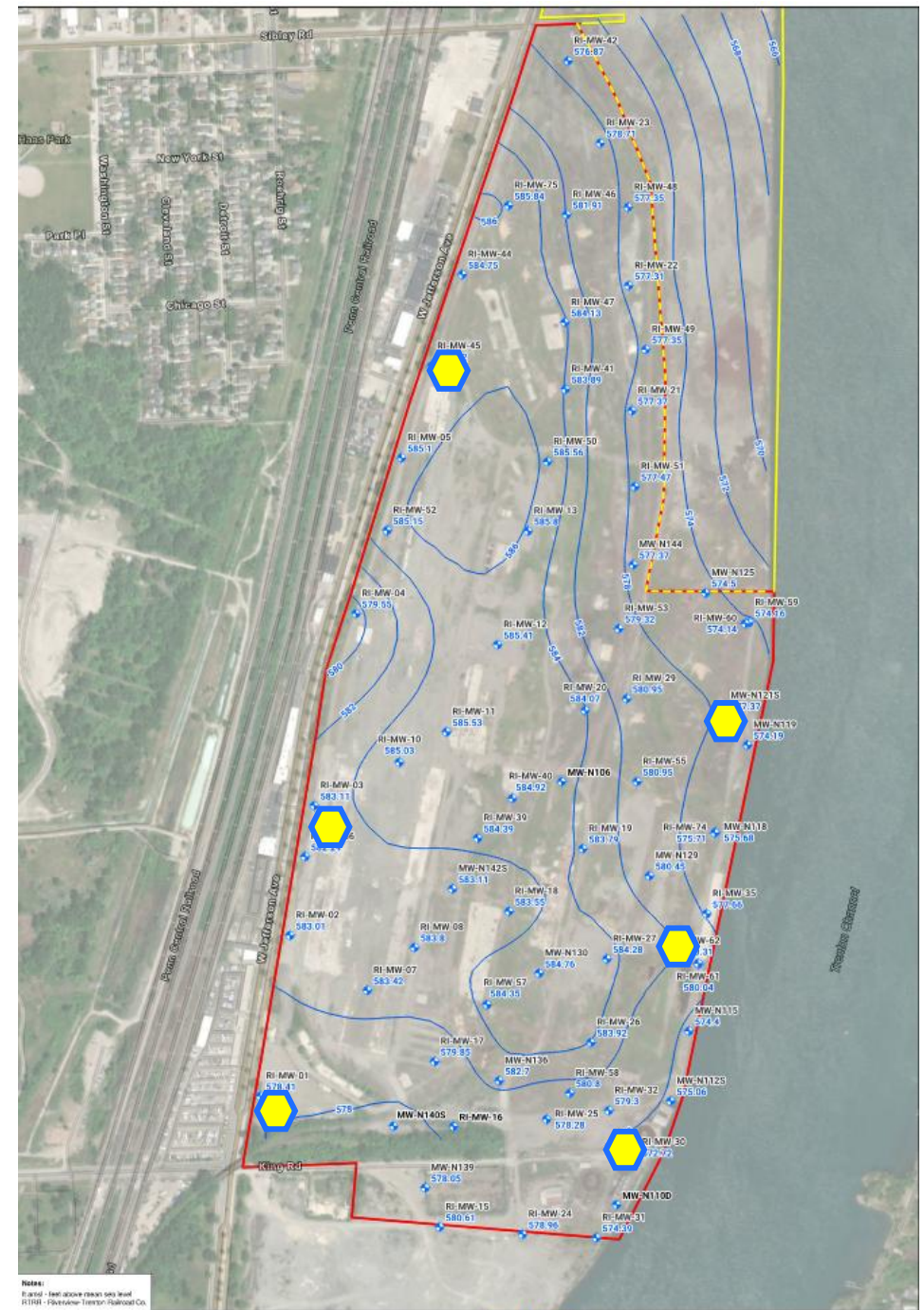


Operable Unit 2, Groundwater - Status & Summary

- Operable Unit 2 Technical Memorandum submitted
- DRAFT Groundwater Monitoring Plan submitted
- EPA/EGLE comments received by CDM Smith and documents are undergoing revision
- Bedrock wells to be installed
- Quarterly groundwater sampling starting 4th Quarter 2026

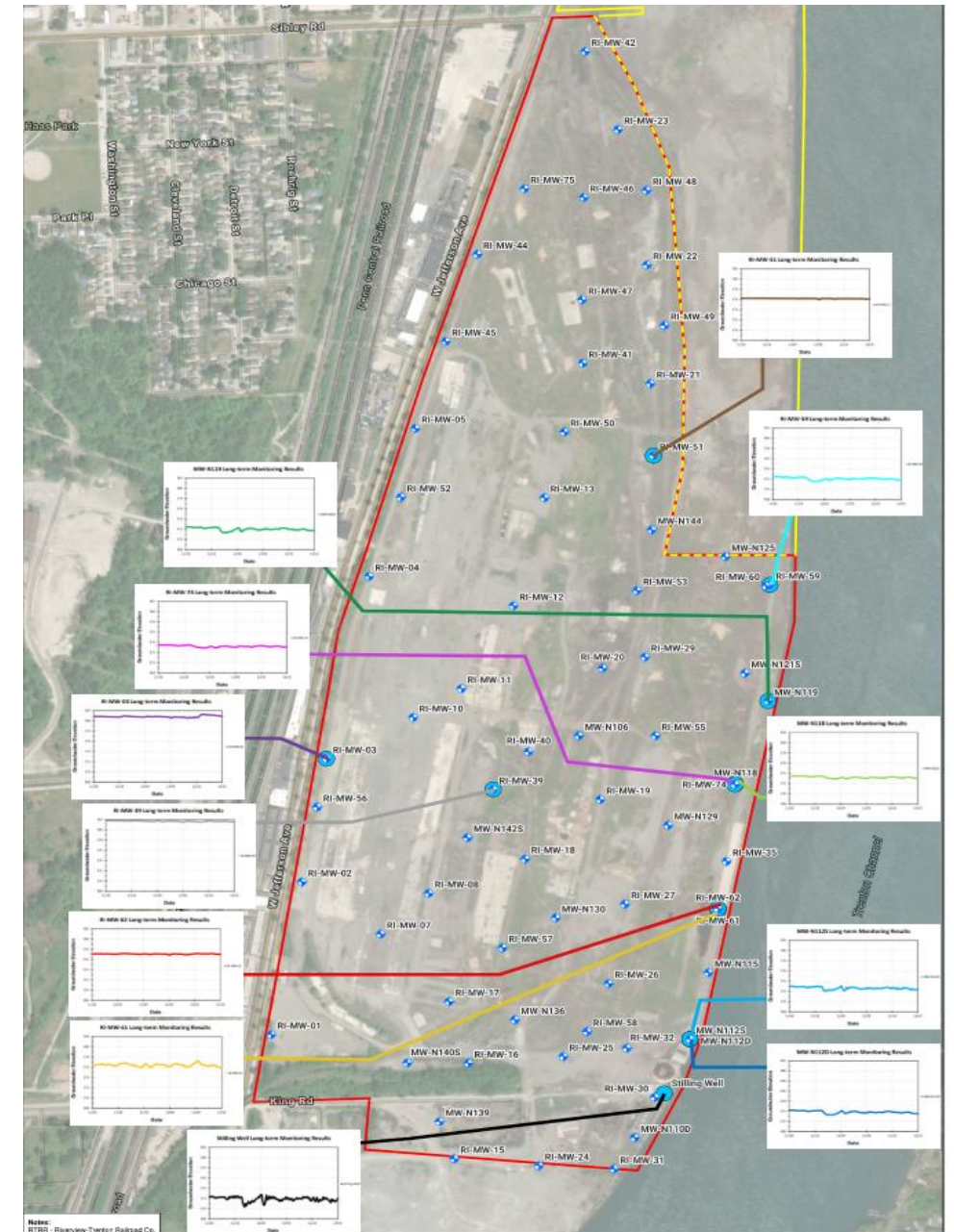
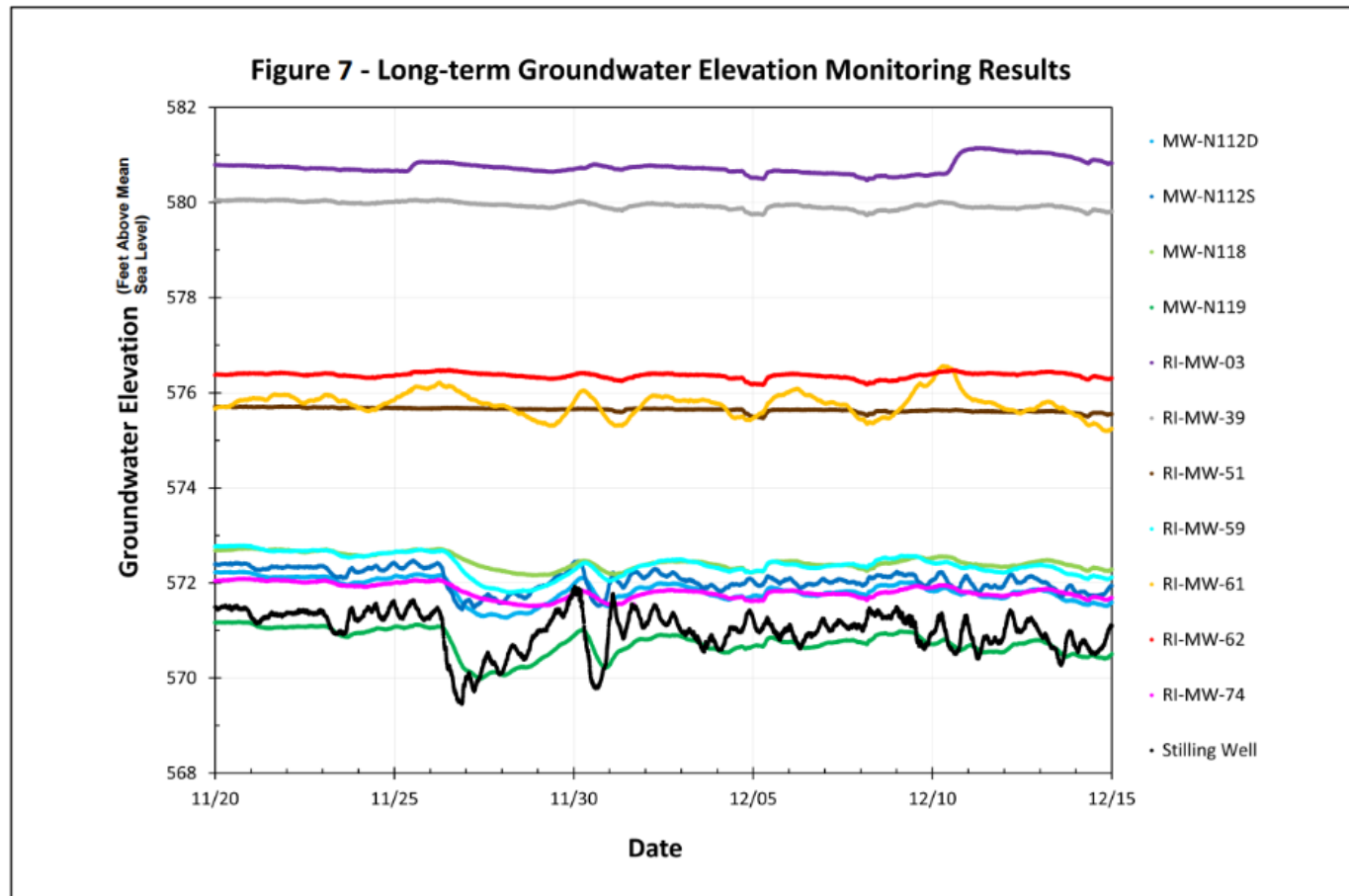
Groundwater Elevation Contours

- Elevations range from ~ 574 ft to 586 ft
- Highest elevations along center of the Site
- Trenton Channel - the area of local discharge
- Some indications of western GW flow
- Existing MW network limited to overburden
- Six bedrock wells (🔷) to be installed



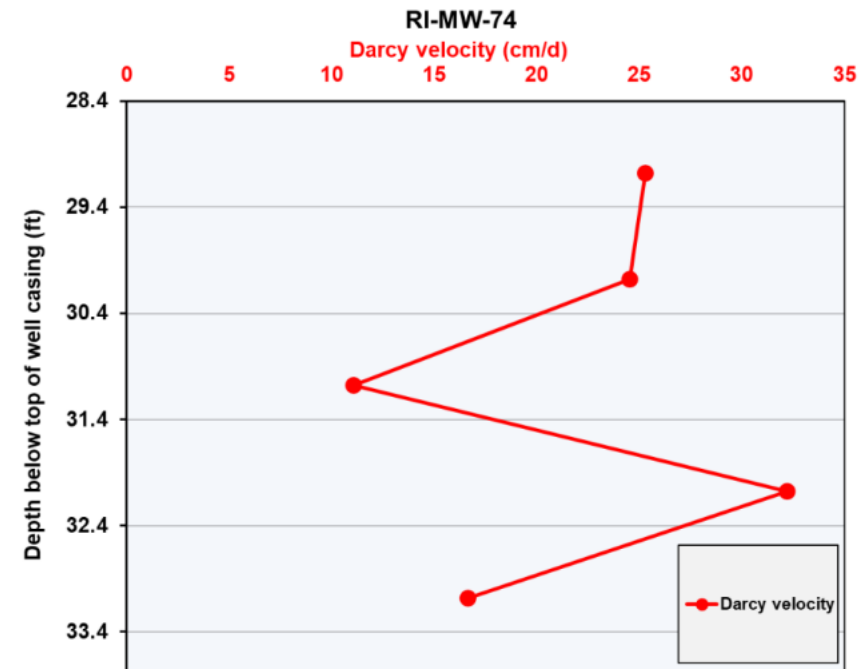
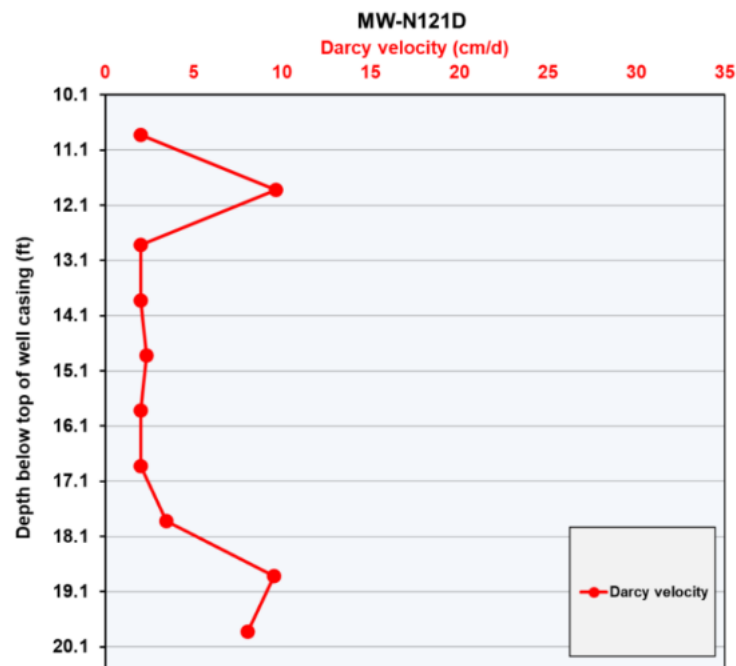
Water Level Monitoring

- Recording water level monitors (transducers)



Passive Flux Meters

- PFMs (alcohol impregnated activated carbon socks) deployed in 6 wells clusters
- Direct measurement of groundwater flow
- Evaluation of relative groundwater flow in soil layers



OU1 Groundwater Quality Evaluations

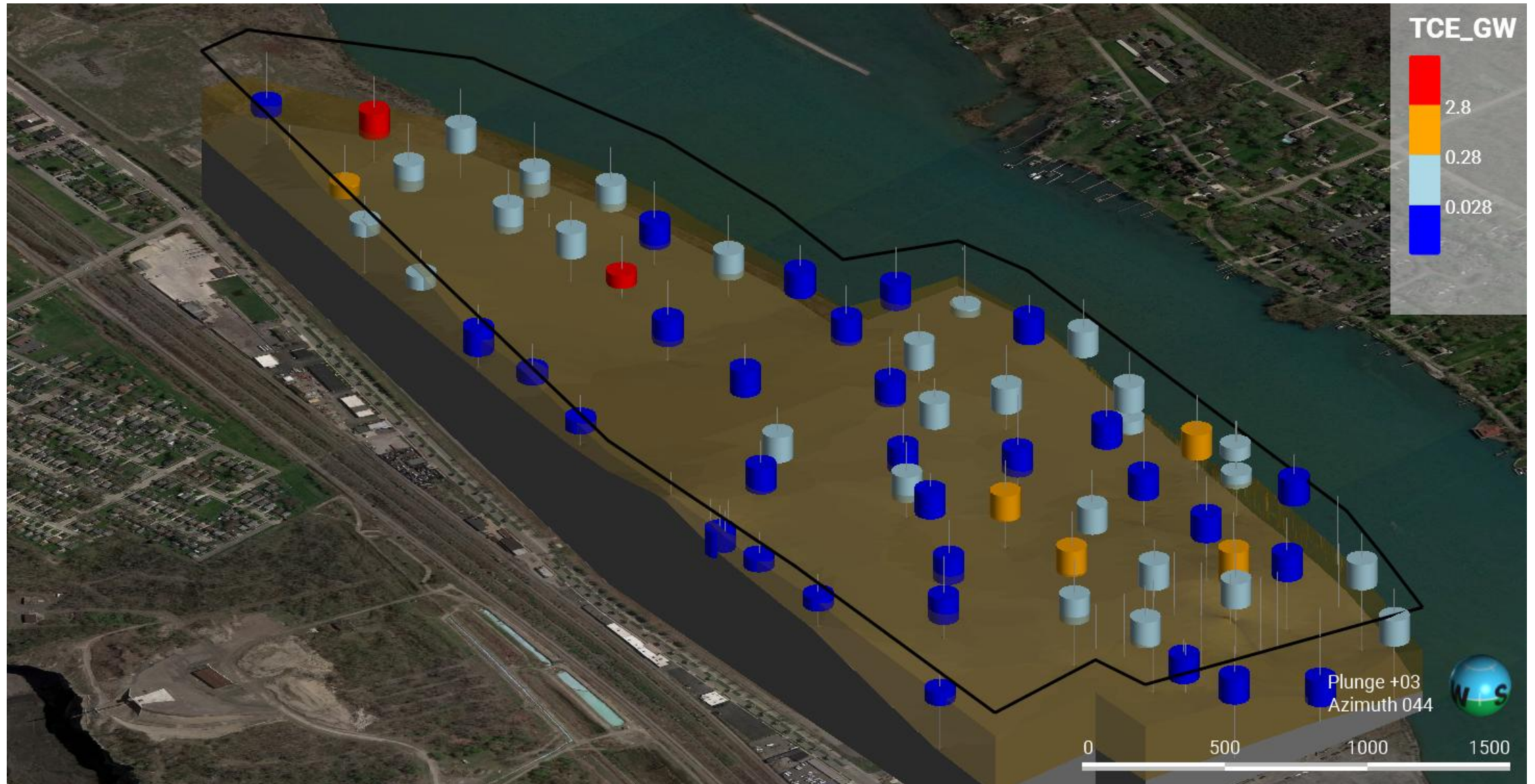
- Concentrations compared to Project Action Limits - the lower of the following
 - Human Health Screening Criteria
 - MI EGLE generic GW cleanup criteria
 - National Primary Drinking Regulations
 - EPA Regional Screening Levels
 - EPA Vapor Intrusion Screening Levels

Constituent Distribution Figures – Example Color Legend

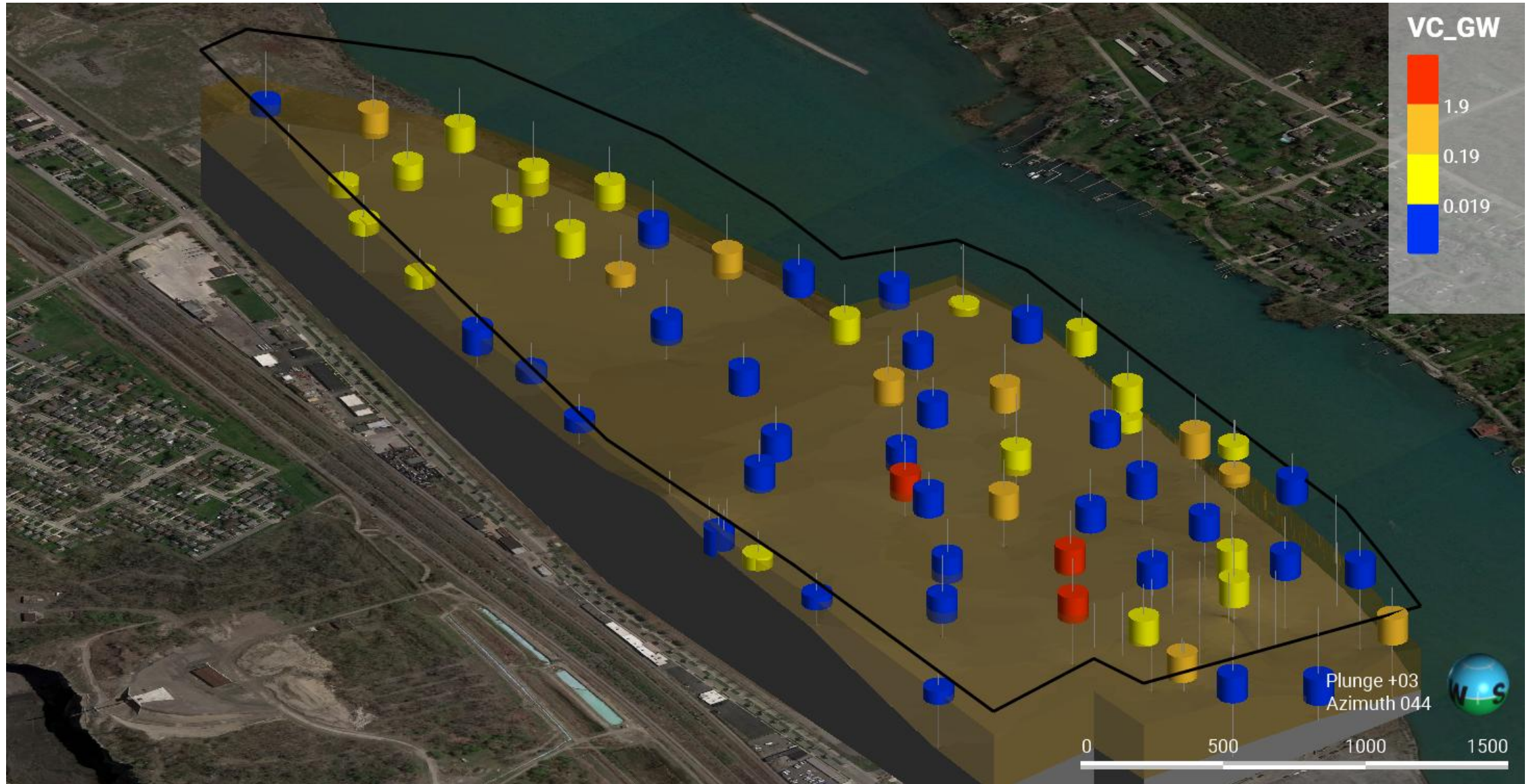
Vinyl Chloride – PAL = 0.019 µg/L

-  Exceed 50x PAL
-  Exceed 10x PAL
-  Exceed PAL
-  Below PAL
-  Not Detected

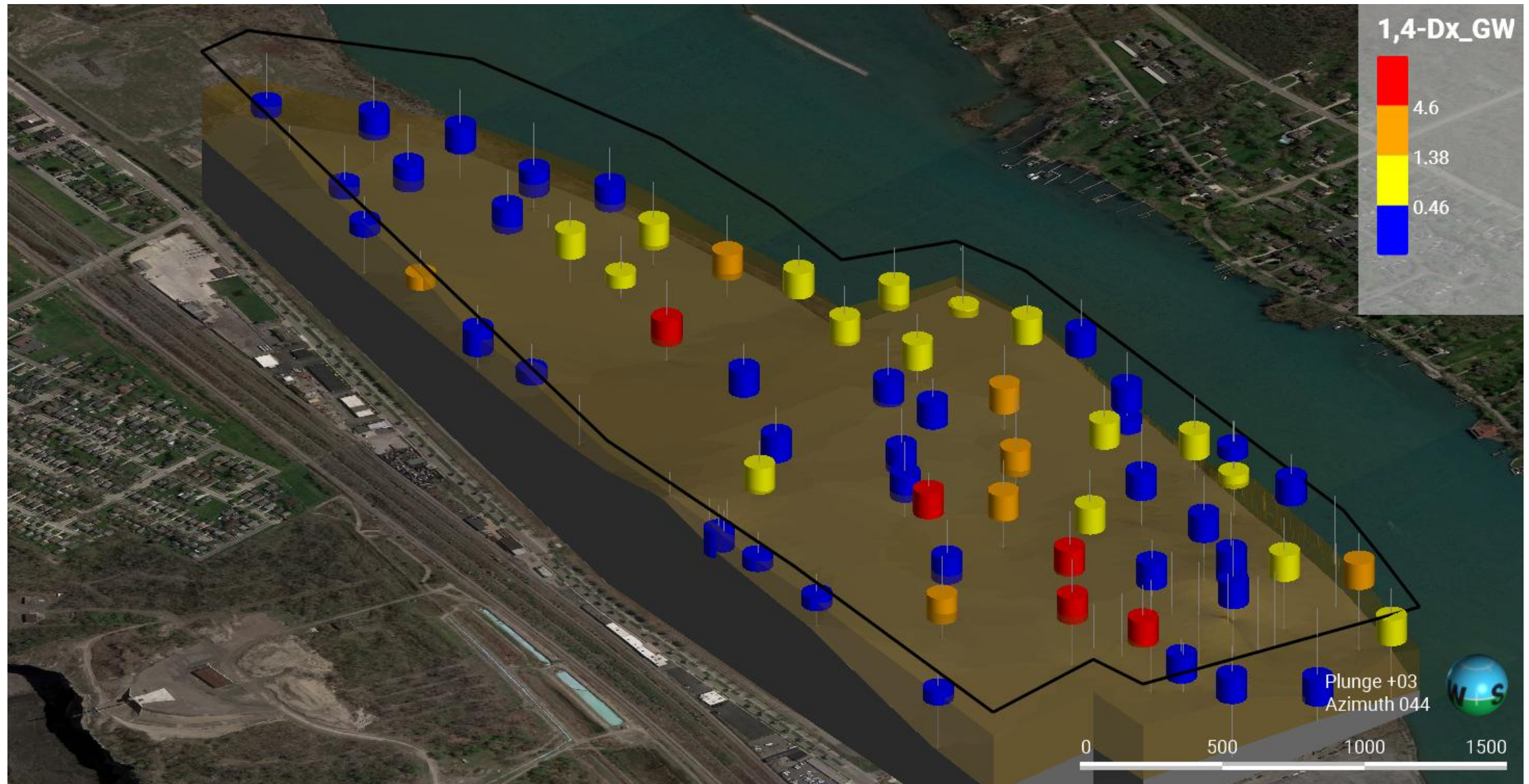
Trichloroethene (TCE) – PAL = 0.28 $\mu\text{g/L}$ (MCL – 5 $\mu\text{g/L}$)



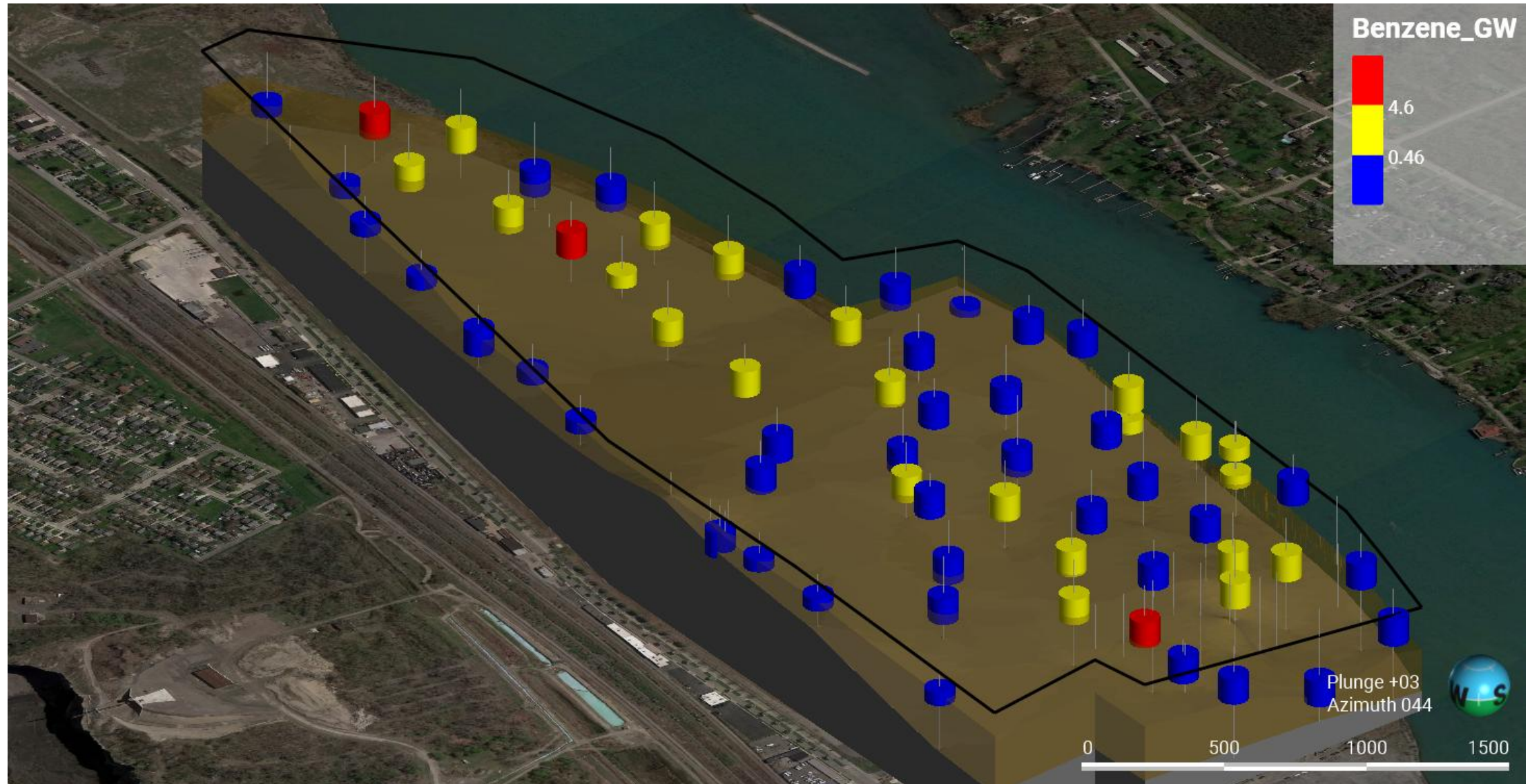
Vinyl Chloride – PAL = 0.019 $\mu\text{g}/\text{L}$ (MCL – 2 $\mu\text{g}/\text{L}$)



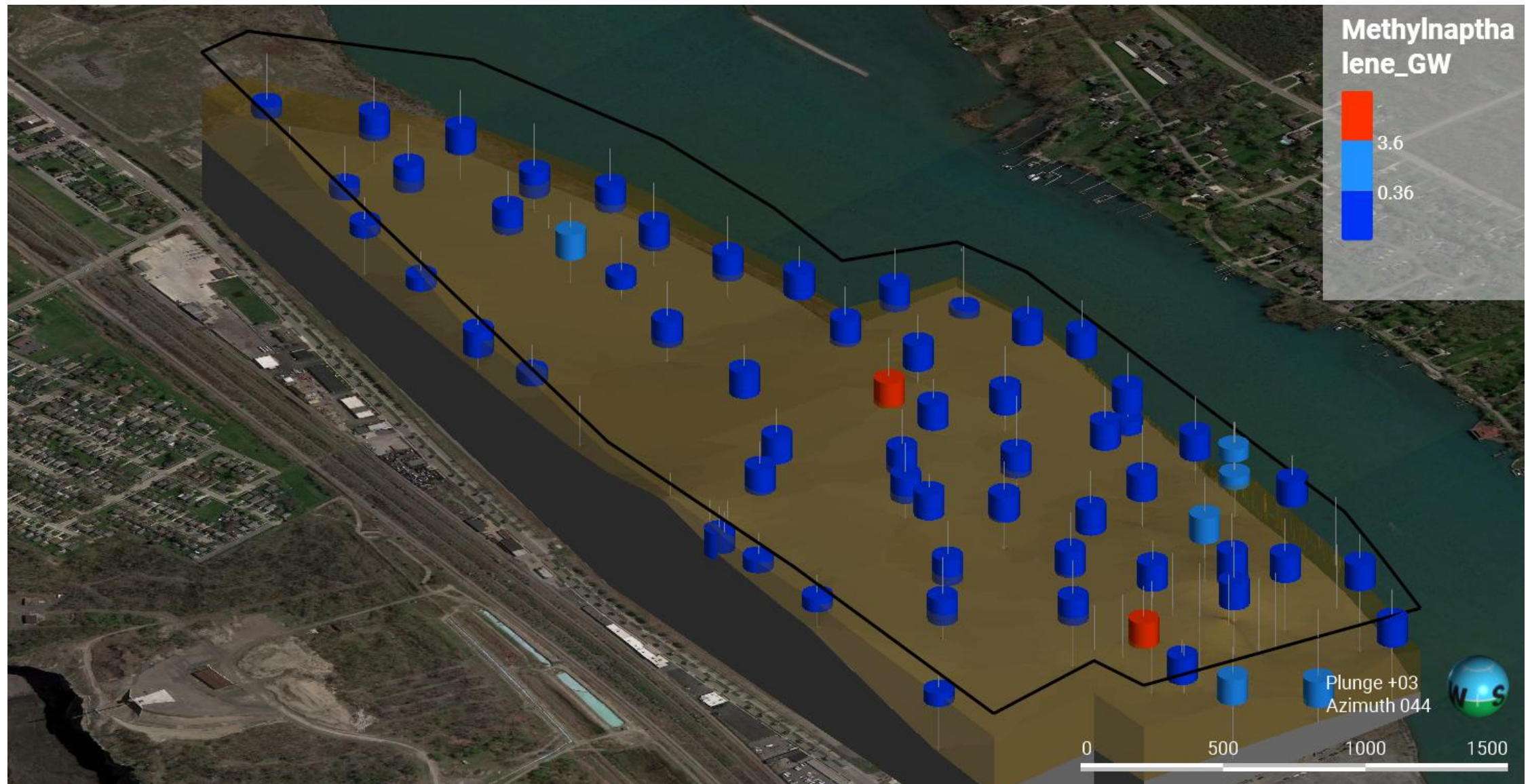
1,4-Dioxane – PAL = 0.46 $\mu\text{g/L}$



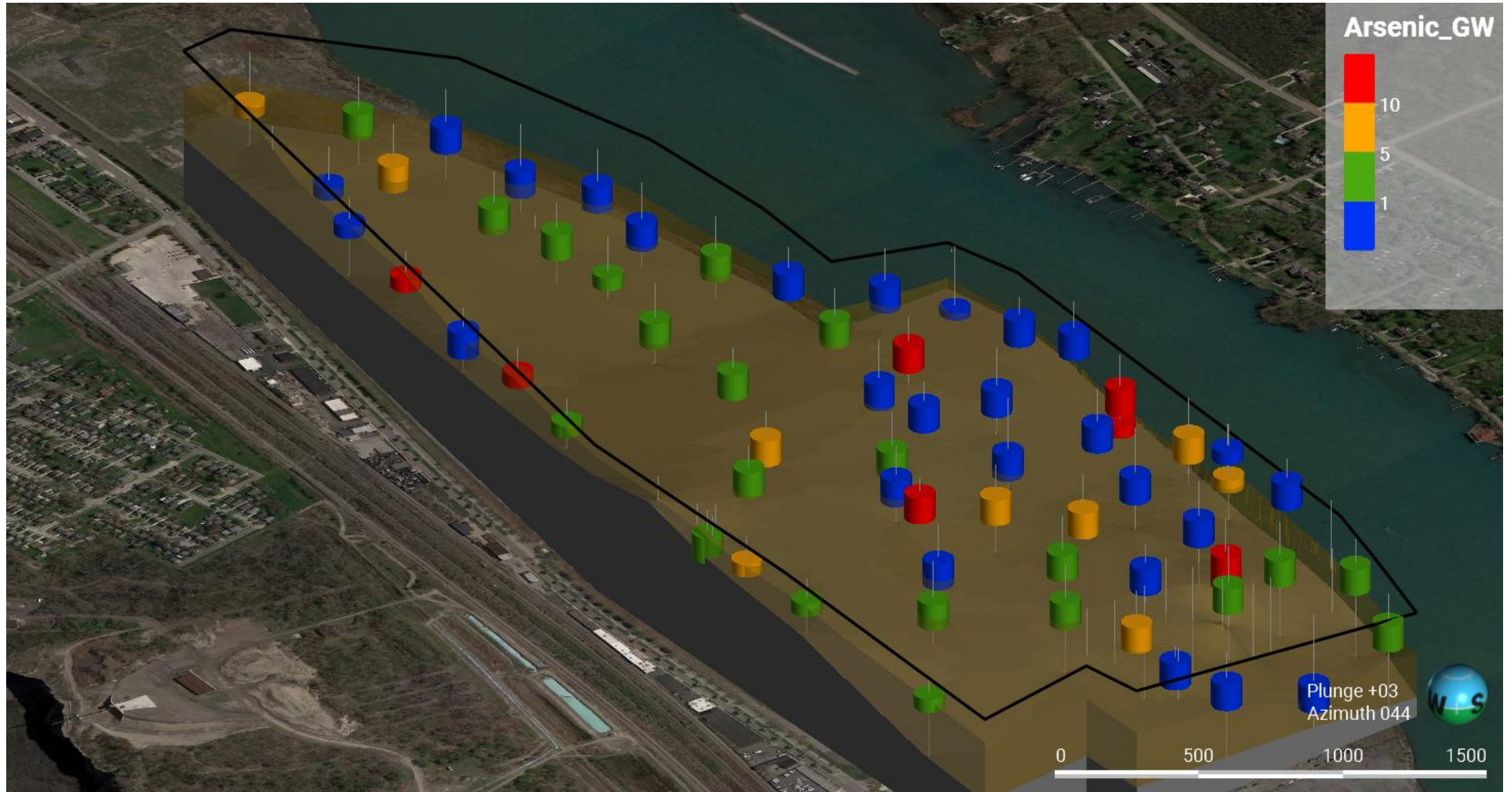
Benzene – PAL = 0.46 $\mu\text{g}/\text{L}$ (MCL – 5 $\mu\text{g}/\text{L}$)



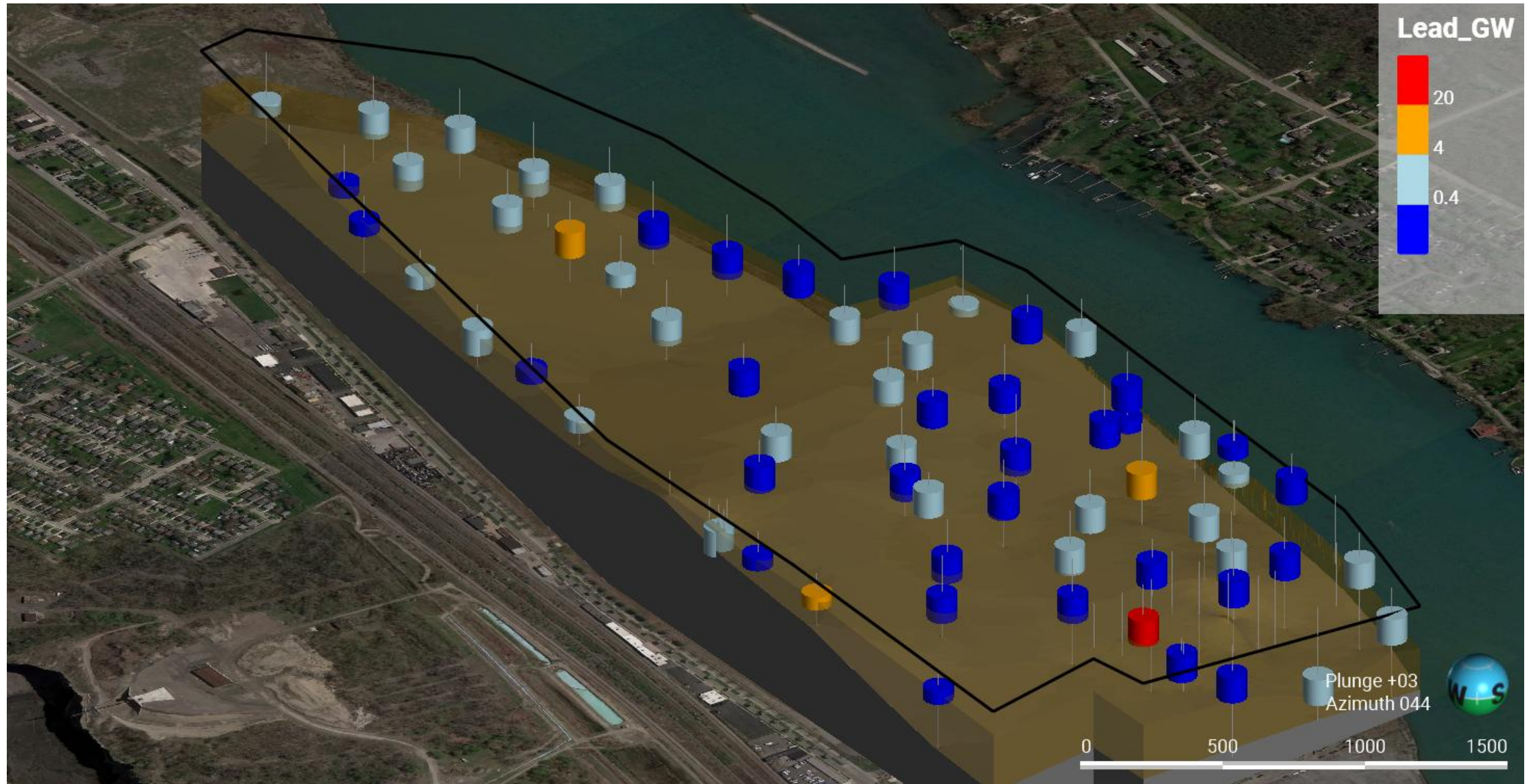
Methlynaphthalene – PAL = 3.6 $\mu\text{g/L}$



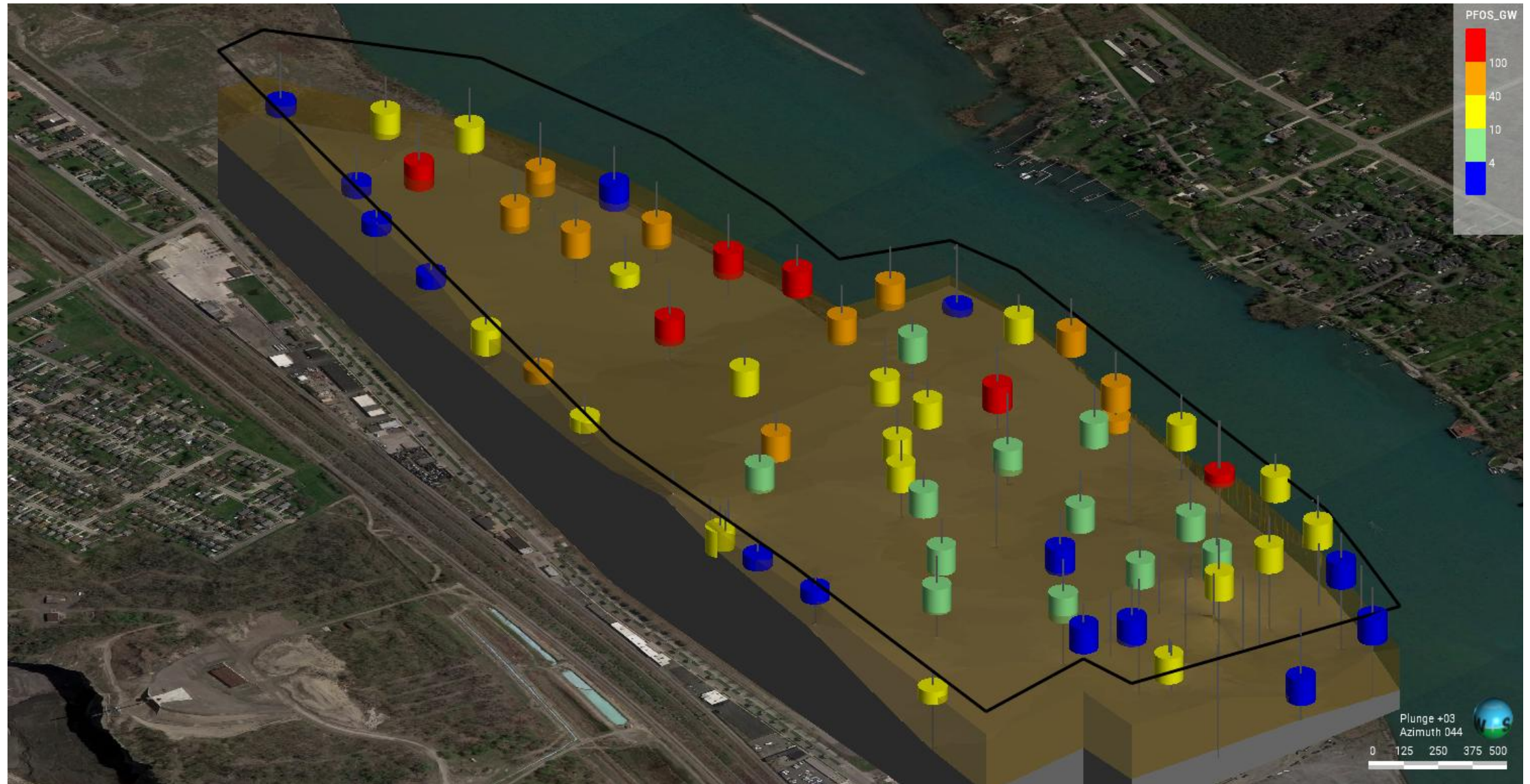
Arsenic – PAL = 0.052 $\mu\text{g}/\text{L}$ (MCL – 10 $\mu\text{g}/\text{L}$)



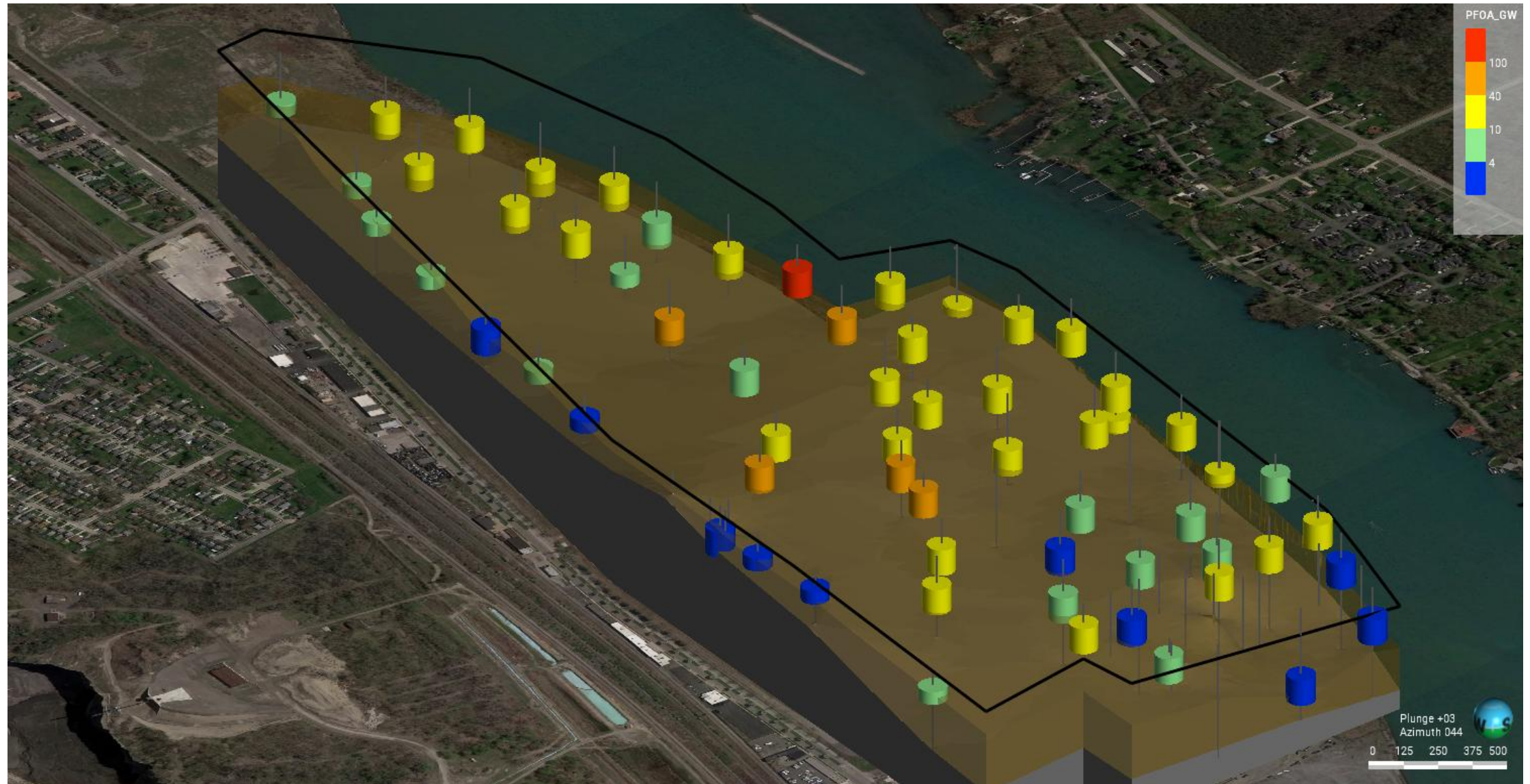
Lead – PAL = 4.0 $\mu\text{g}/\text{L}$



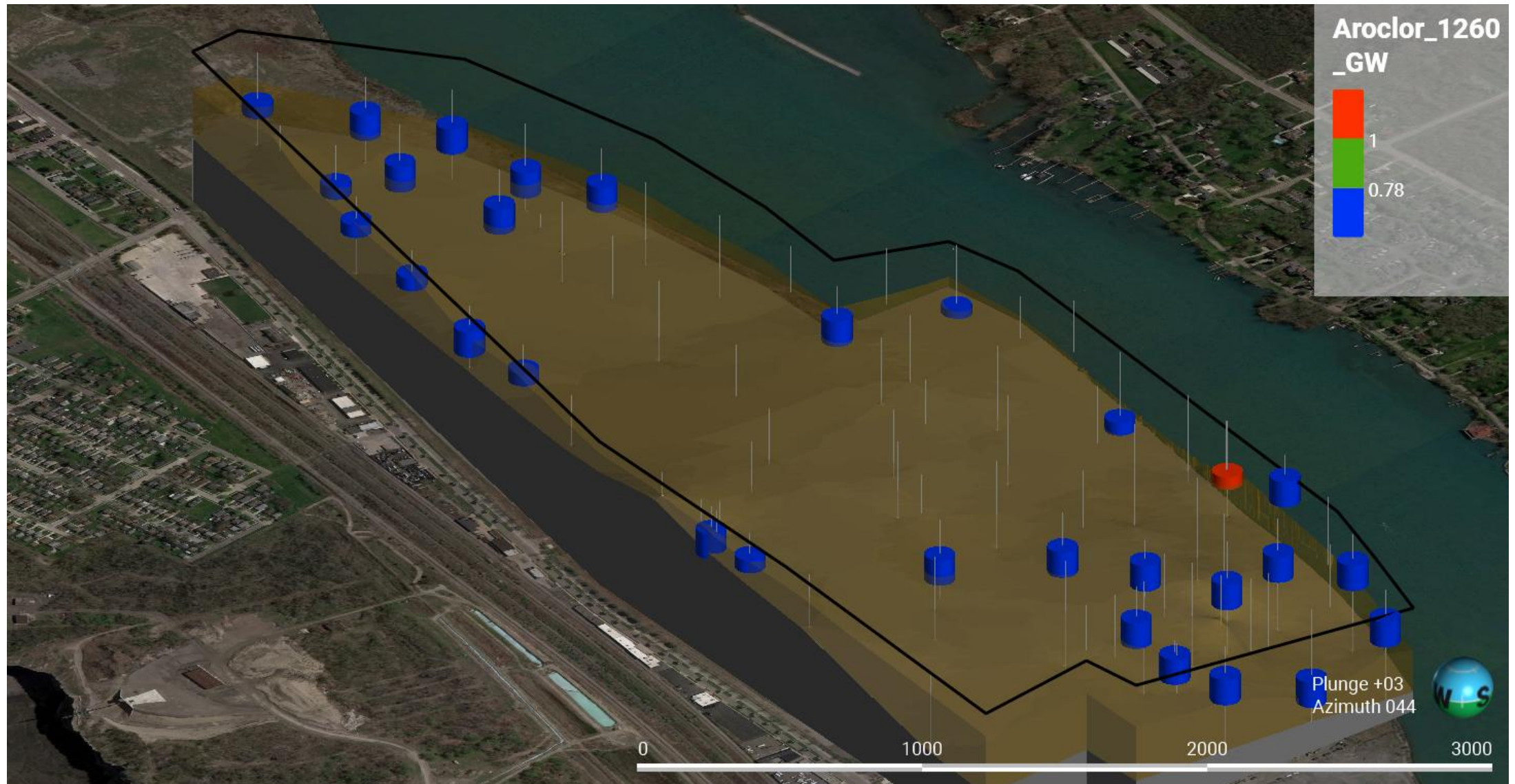
PFOS – Perfluorooctanesulfonic Acid – PAL = 4 ng/L (MCL)



PFOA – Perfluorooctanoic Acid – PAL = 4 ng/L (MCL)



PCBs – Aroclor 1260 – PAL = 0.0078 $\mu\text{g/L}$





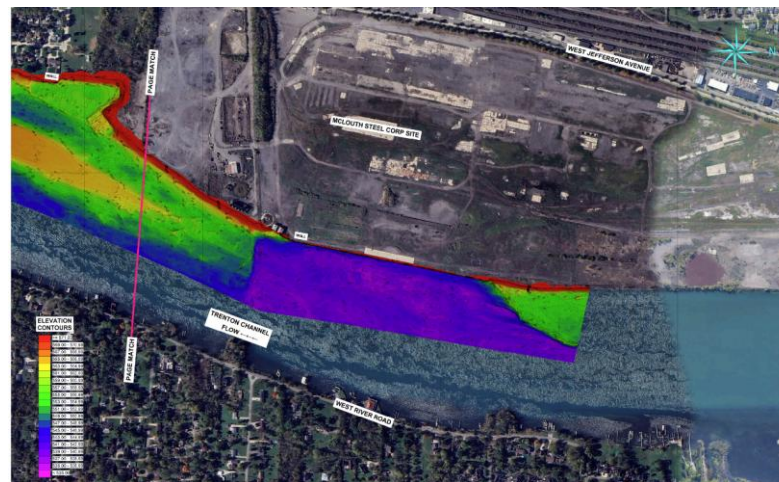
Operable Unit 3 – Trenton Channel – Status

- Updating the OU3 Quality Assurance Project Plan (QAPP)
- Sampling event in the Trenton Channel in Fall 2026
- Technical memo early next year

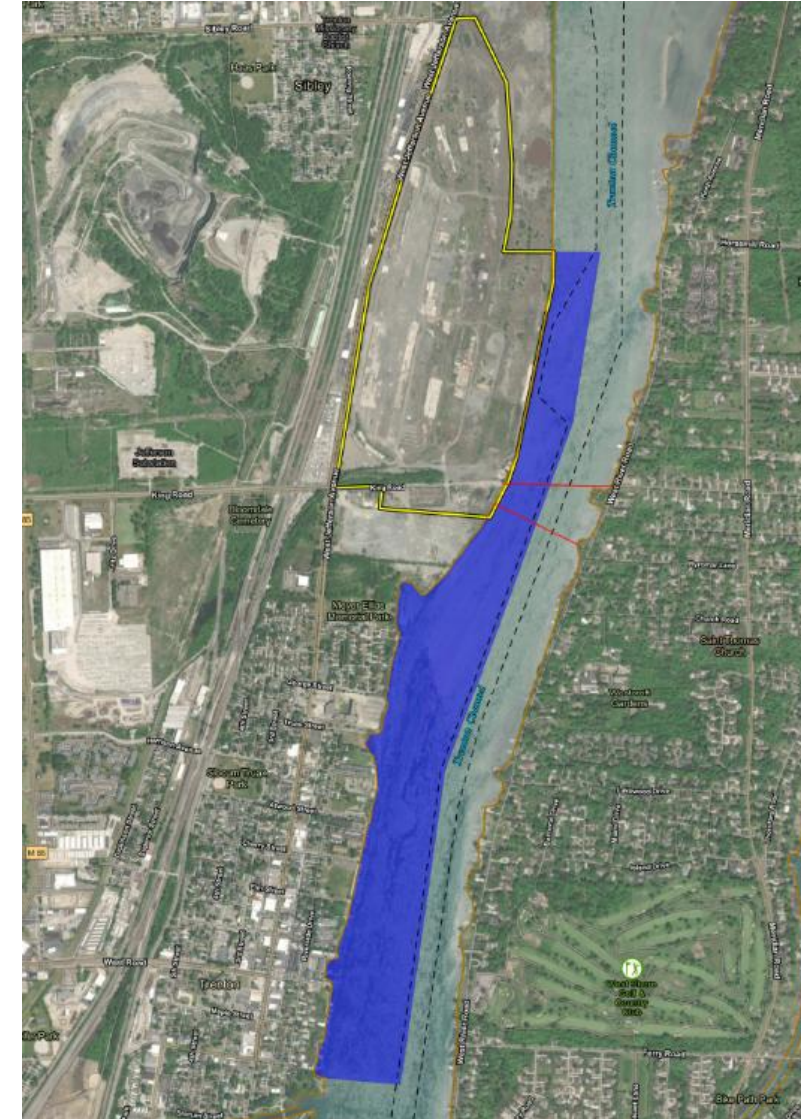
OU3 - Investigation

■ Work Completed

- ✓ Sediment Sampling by PONAR dredge and Vibracore
- ✓ Sediment Trap Sampling
- ✓ Surface Water Sampling



OU3 Area of Investigation



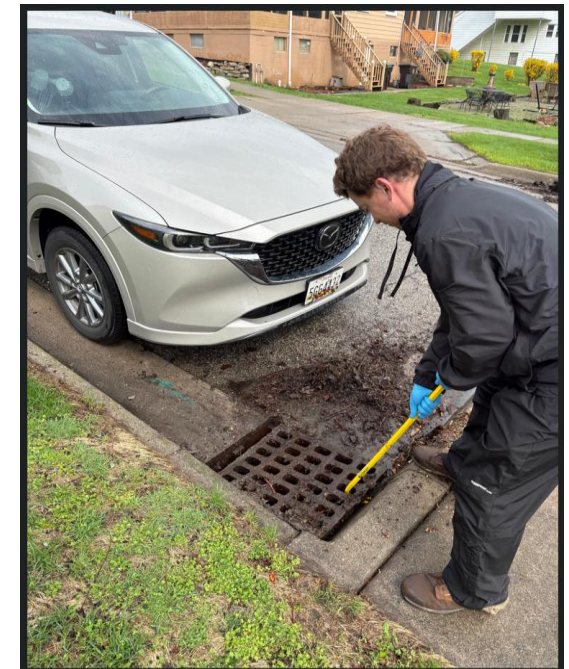
OU3 – Investigation

■ Work Completed

- ✓ Bathymetric Survey
- ✓ Collected six bulk surface sediment samples to extract and analyze porewater samples
- ✓ Deployed sediment traps across four locations to collect suspended sediment

✓ Remaining Work

- Resampling bulk sediment and cores for porewater and oil and grease analyses
- Collection and analysis of sediment traps





What's Next – General Schedule

- Fall/Winter 2026
 - Bulk & Core Sediment Sampling
 - Sediment Trap Collection & Sampling
 - Finalize Groundwater Monitoring Plan
 - Bedrock well installation
 - Quarterly groundwater sampling
 - Finalize OU2 Technical Memorandum
 - Prepare OU3 Technical Memorandum early next year
 - Prepare OU1 Remedial Investigation Report



Agency Contacts

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- **McLouth Steel Websites**

- CAG home page - <https://mclouthsteelcag.com/>

- EPA Superfund page - <https://www.epa.gov/superfund/mclouth-steel>



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