



McLouth Steel RI/FS Update

Community Advisory Group Meeting

November 14, 2024

Christopher Vandegrift, Project Manager, CDM Smith

Ernest Ashley, Project Technical Lead, CDM Smith

Nilia Moberly Green, Remedial Project Manager, USEPA



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

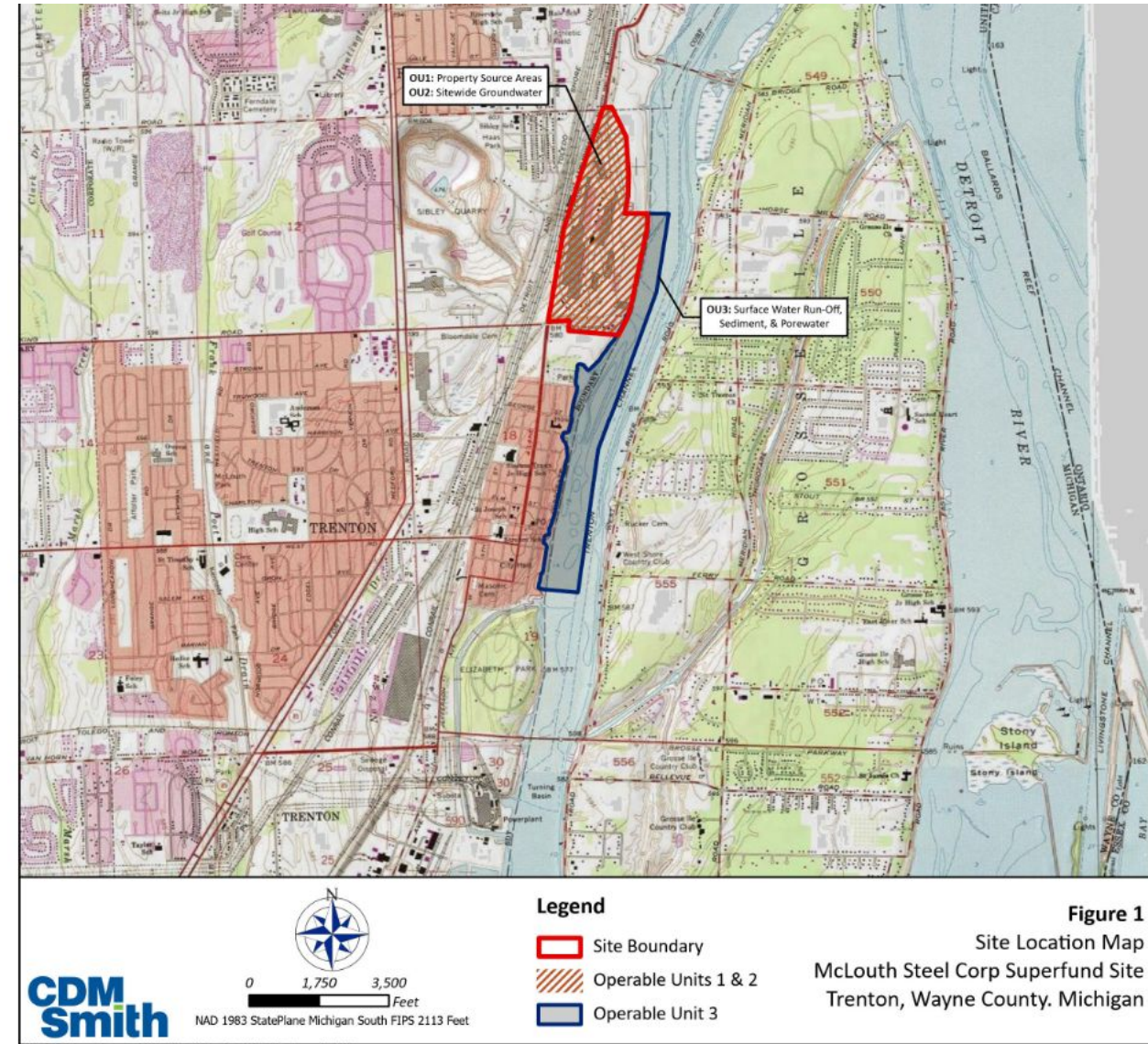
- Releases to the land, fill materials, steel plant slag, etc.

Operable Unit 2 (OU2) – Groundwater

- Impacts to groundwater, assessment of site hydrogeology, evaluation groundwater discharge

Operable Unit 3 (OU3)– Trenton Channel

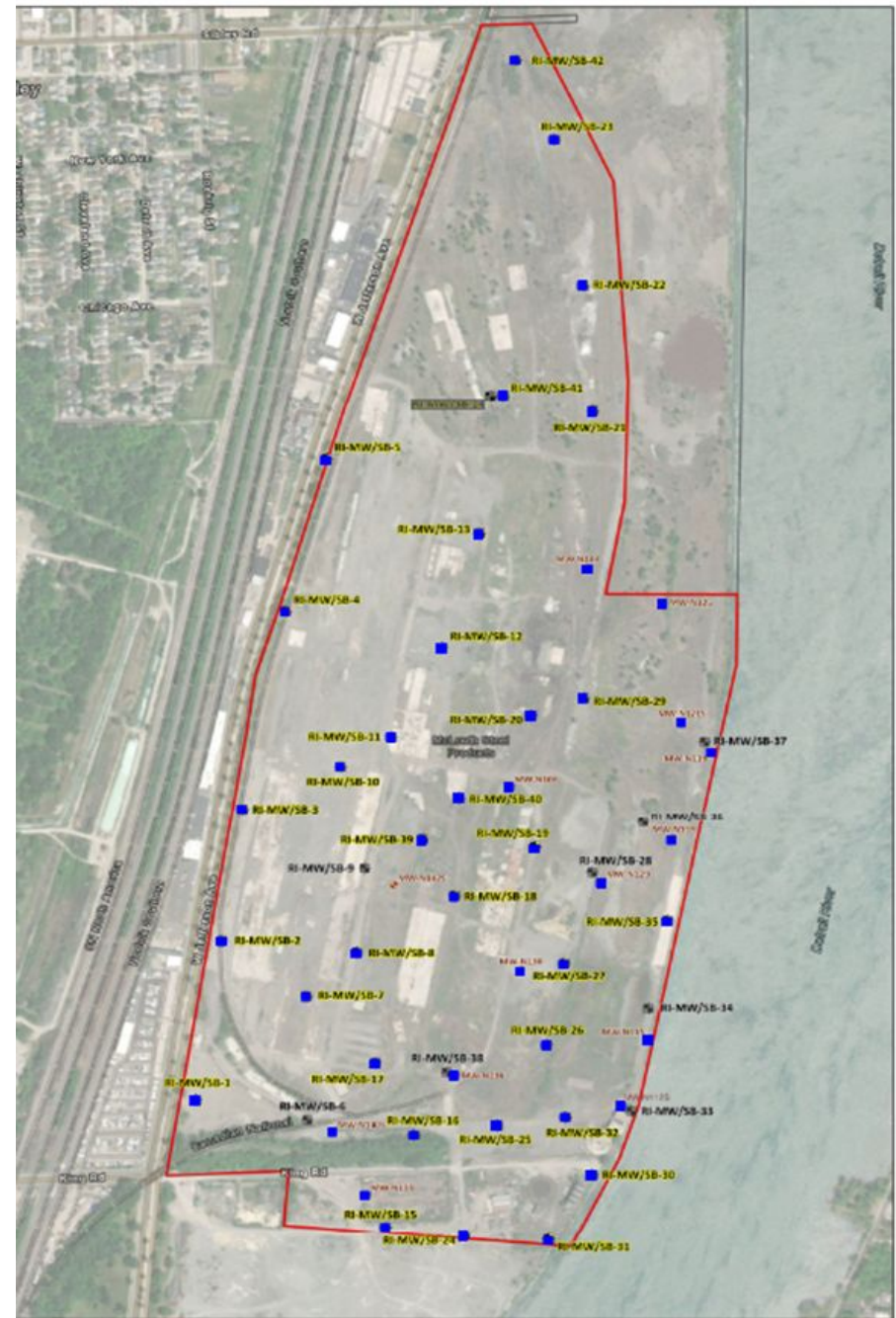
- Groundwater discharge to surface water, impacts to sediment and porewater



OU1 and OU2 - Investigation

Work Completed

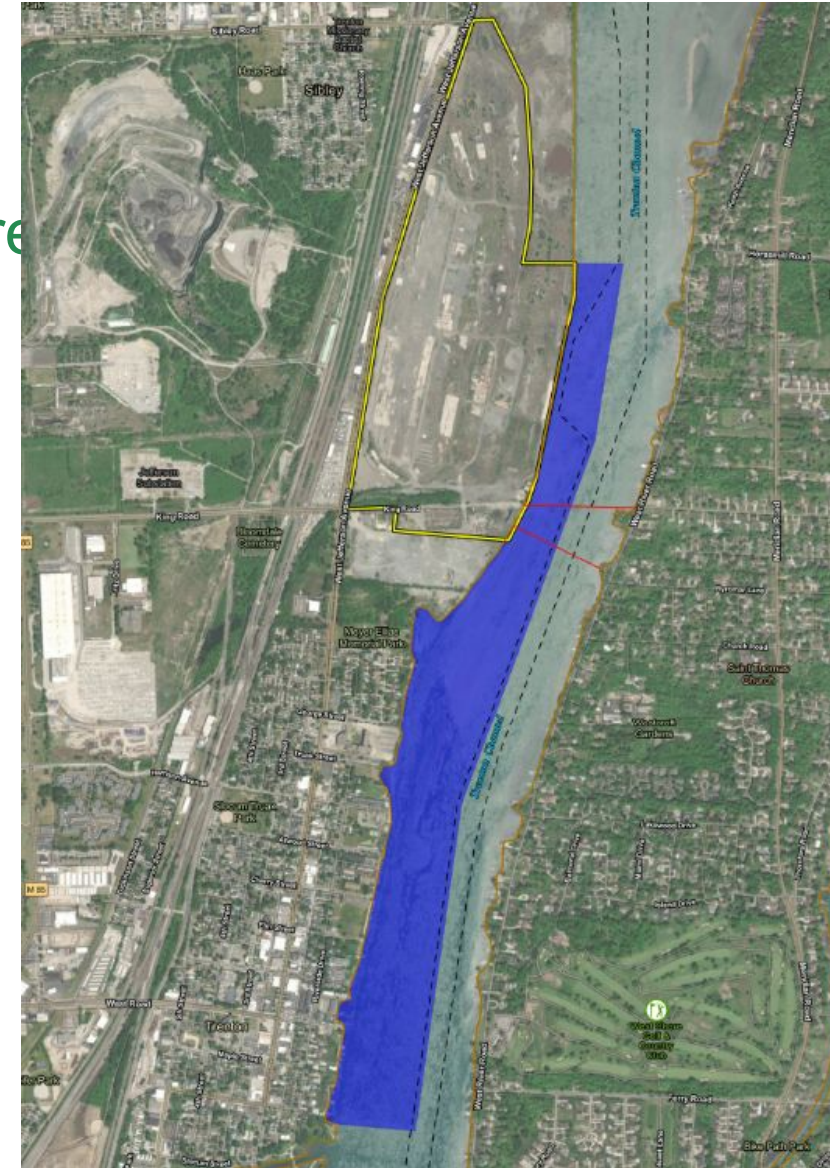
- ✓ Soil borings/soil sampling (34 borings)
- ✓ Monitoring well installation (32 new wells)
- ✓ Well development (32 new & 14 existing)
- ✓ Synoptic round of water level elevations
- ✓ Groundwater sampling (46 wells)
- ✓ Hydraulic testing of monitoring wells (12 wells)
- ✓ Survey of monitoring wells
- ✓ Technical Memorandums (posted on EPA website)



OU3 - Investigation

— Work Completed

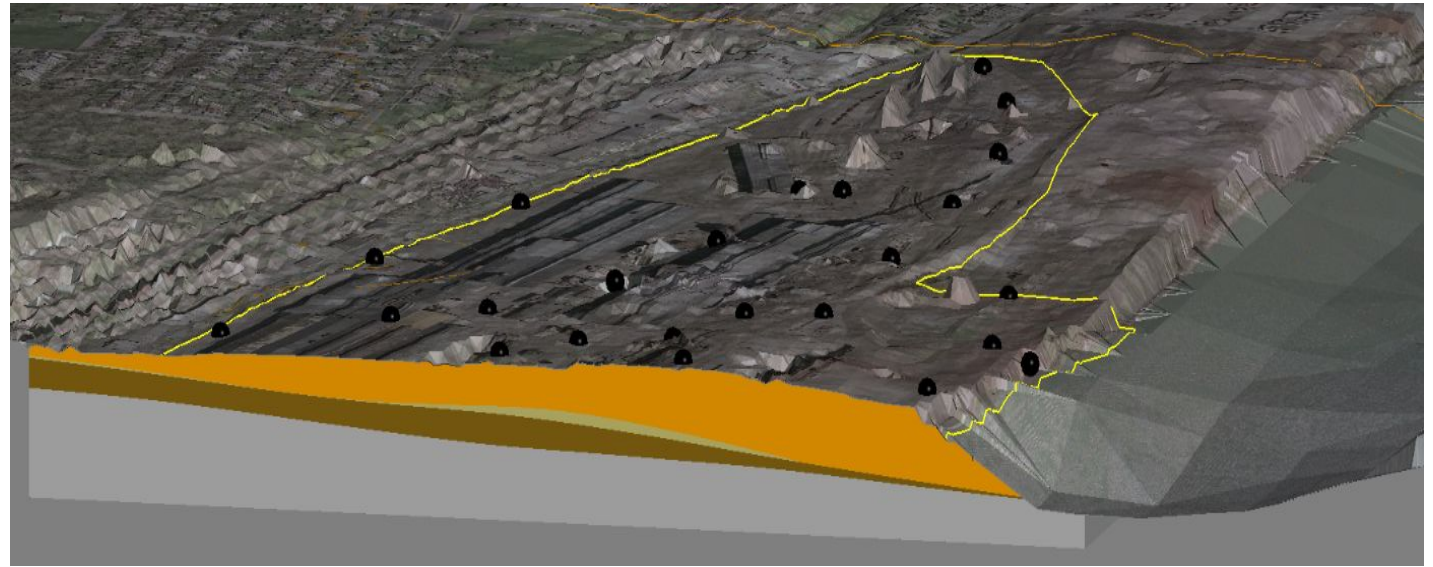
- ✓ Sediment Sampling by PONAR dredge and Vibracore
- ✓ Sediment Trap Sampling
- ✓ Surface Water Sampling



Site Geology

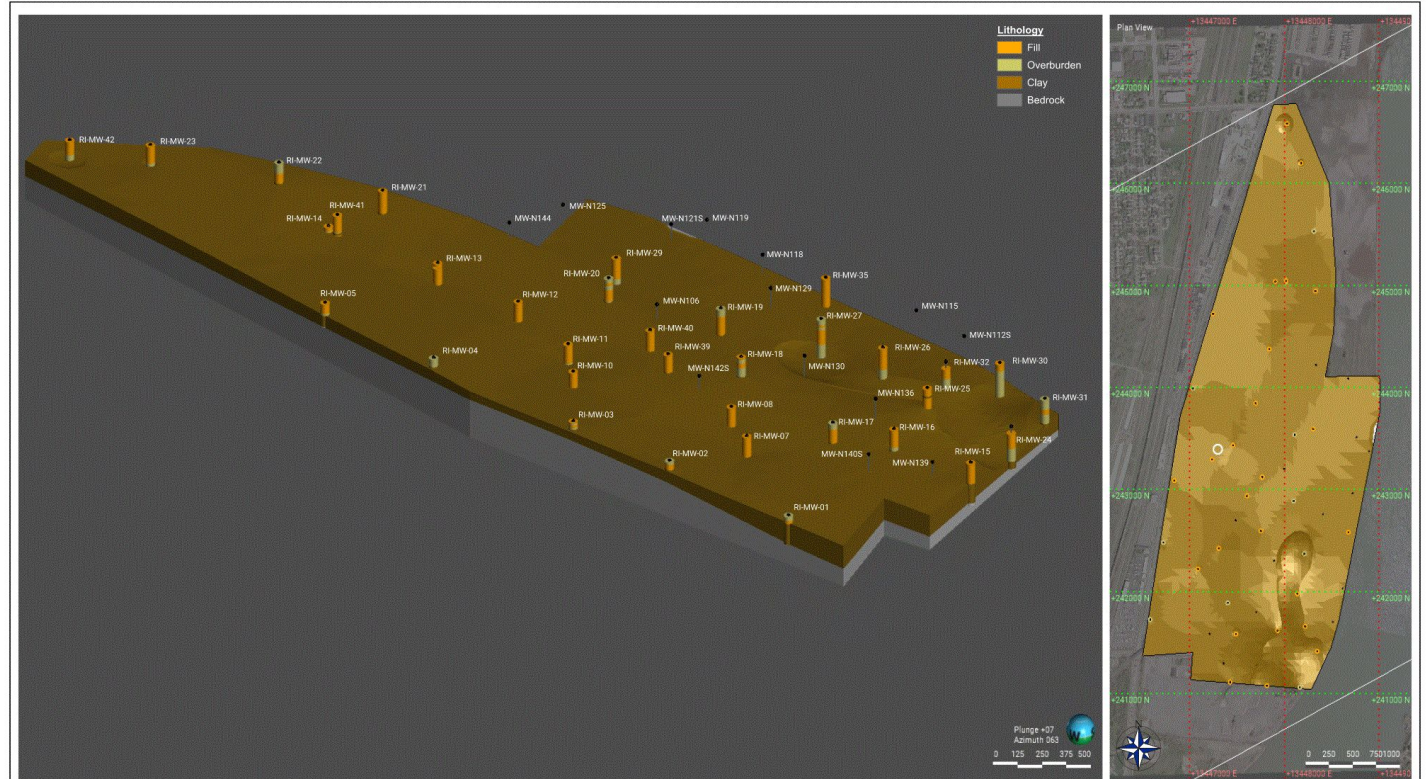
Geologic Cross Section

- Fill
- Native Overburden
- Native Clay
- Dolomitic Limestone



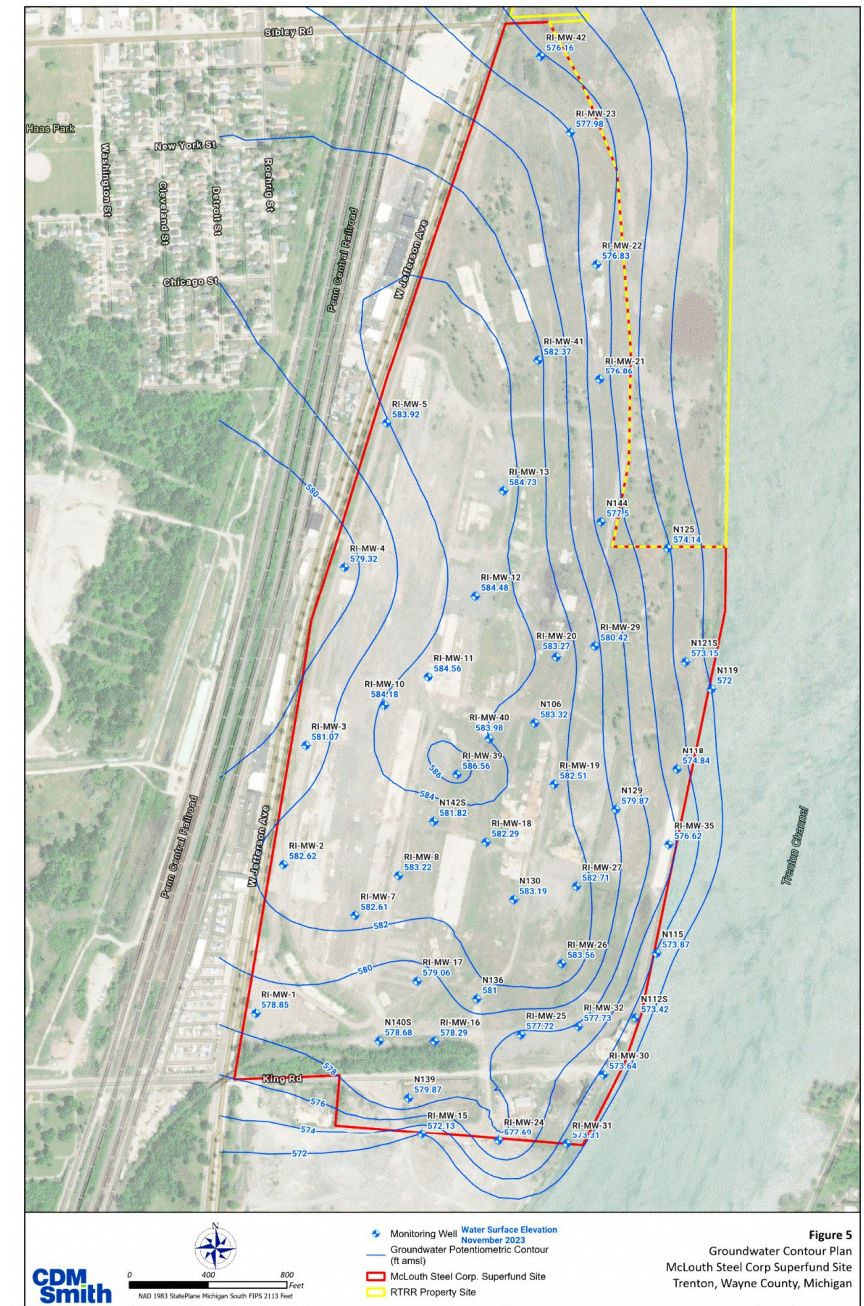
Top of Clay Surface

- Clay noted across the site
- Erosion of clay surface noted in southern portion of the site



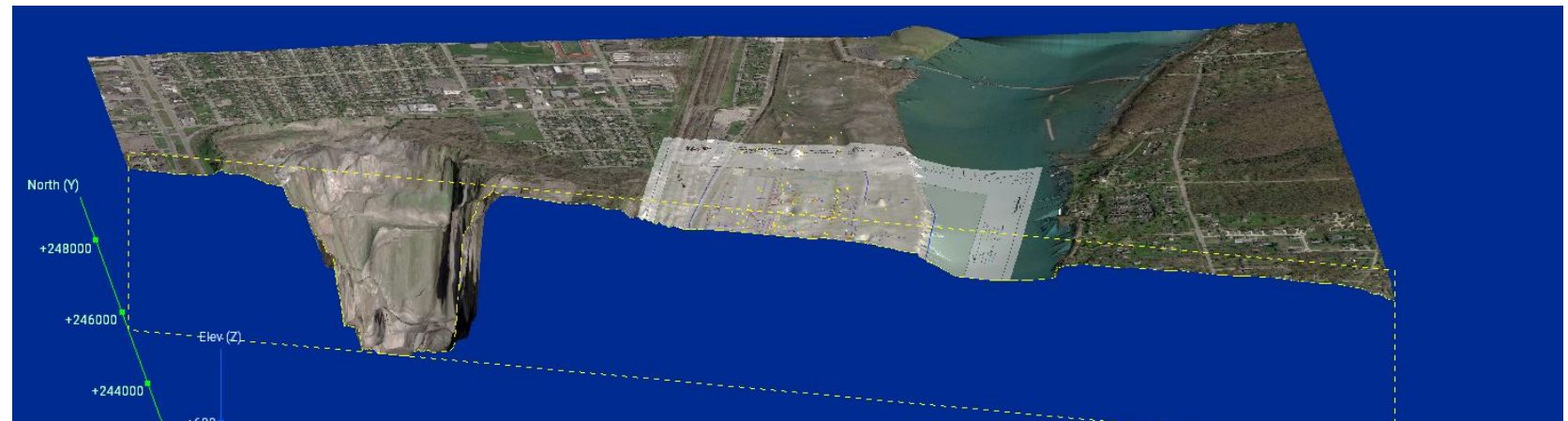
OU2 – Groundwater Contours

- Highest water levels near center of the site
- Most of the gradient toward Trenton Channel
- Some westerly flow component noted
- Dewatering at former quarry influence likely

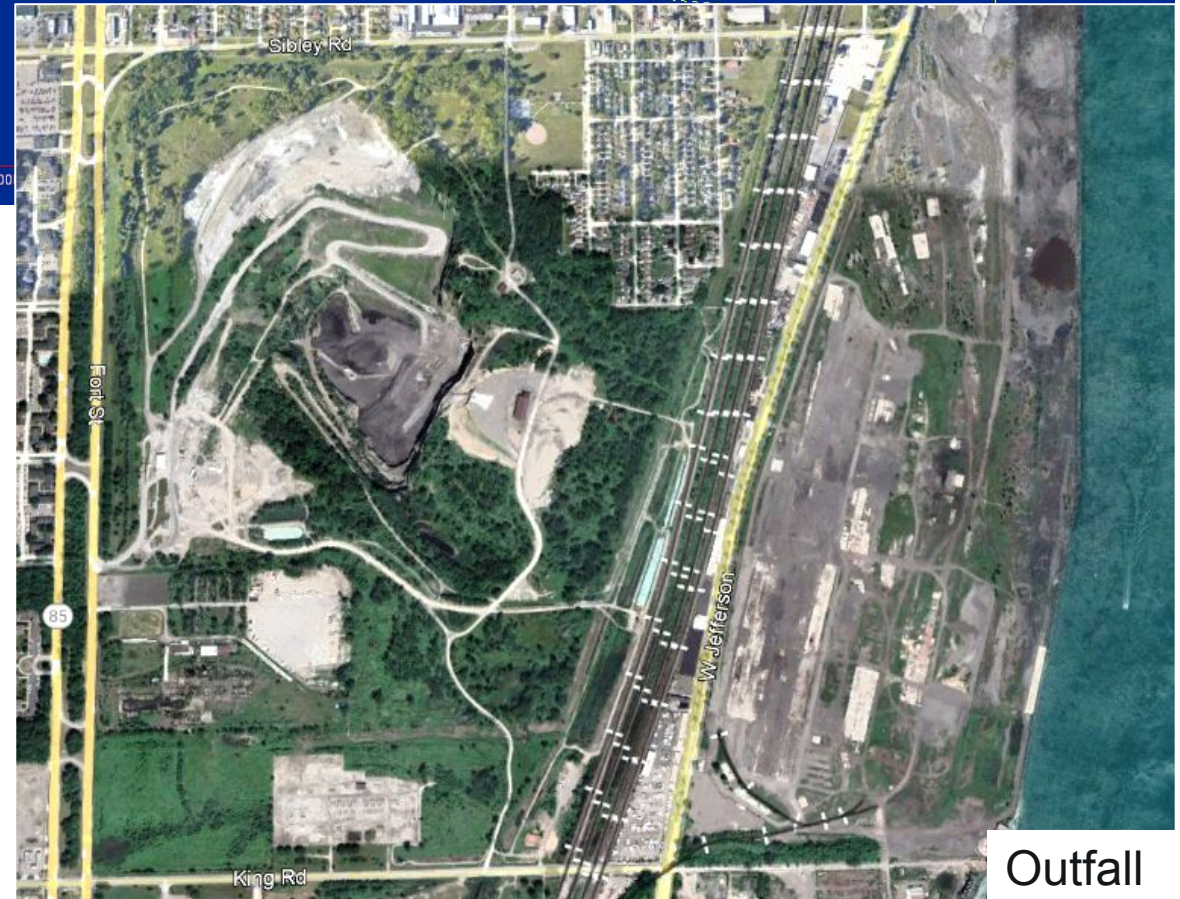


TWO FOOT GROUNDWATER ELEVATION CONTOURS

Sibley Quarry



- Former limestone quarry
- Owned by DTE Energy
- Being filled with ash backfill
- Pumping ~1050 gpm, ~1.5 million gpd
- Pumps dewatering to elevation 306'
 - McLouth Site ~580', Trenton Channel ~575'
- Discharge to outfall at end of King Road
- Monitored for pH, mercury, sulfide, etc.



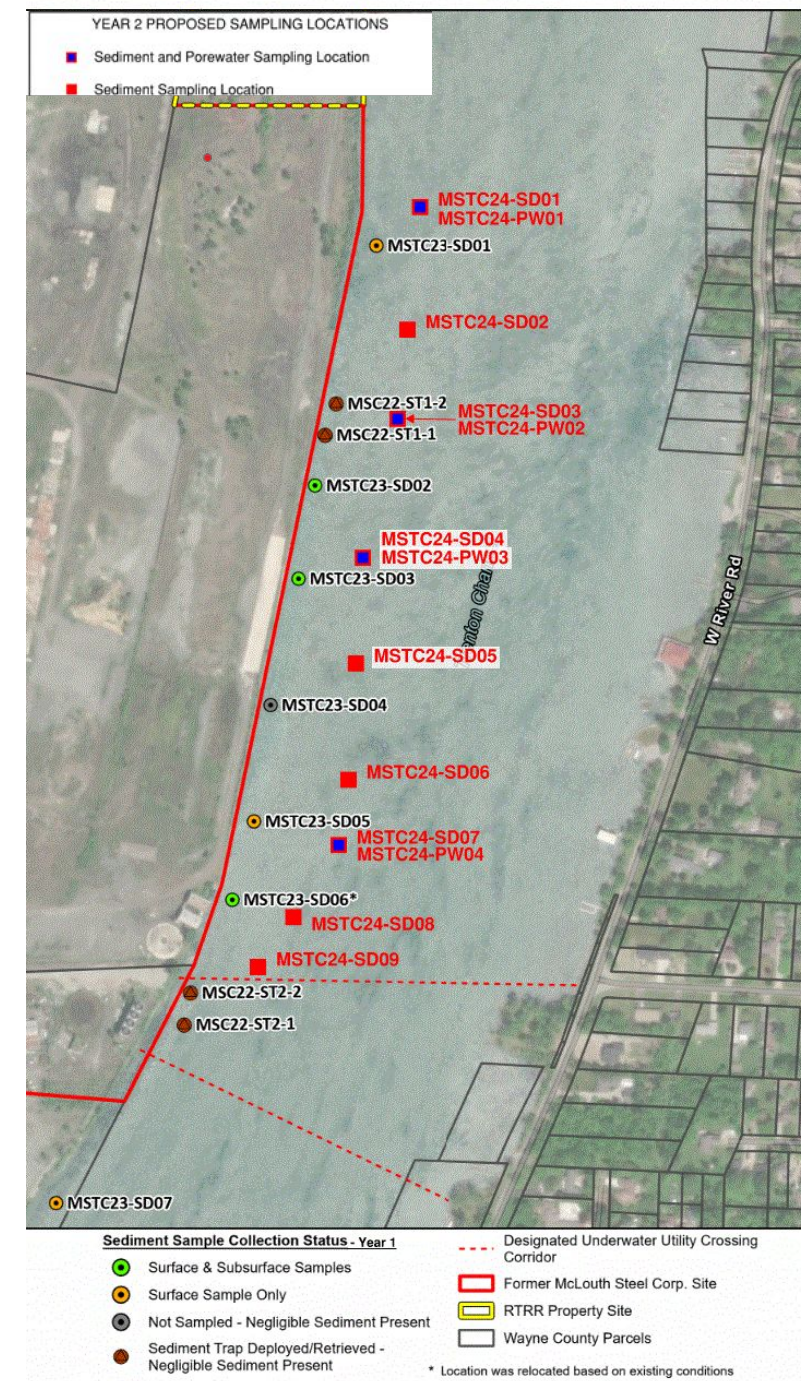
Year 2 Field Program - OU1 & 2

- 32 Soil borings
- 19 Monitoring wells
- Hydraulic conductivity testing
- Synoptic and long-term water level measurements
- Passive flux meter deployment
- Groundwater sampling of 65 wells
 - 6 well clusters along the Trenton Channel
 - Analyses for soil and groundwater same as last year
 - VOCs, SVOCs, PCBs, D/F, PFAS, Metals, pH



Year 2 Field Program – OU3

- Bathymetric Survey of Trenton Channel
 - Water depths and mapping of potential underwater features
- 12 Sediment Sample Locations - Surface and Cores
- 6 Sediment Porewater Sample Locations.
- 4 Sediment Trap Locations
- Active Surface Water Discharge Locations
- Analyses include: volatile organic compounds (VOCs), pesticides, polychlorinated biphenyls aroclors (PCBs), metals, mercury, cyanide; dioxin/furans, and total organic carbon (TOC), polyaromatic hydrocarbons (PAHs), pH, total petroleum hydrocarbon and oil and grease, acid volatile sulfide-simultaneous extracted metal (AVS-SEM)



What's Next – General Schedule

- 1st Quarter 2025 - Year 2 Field Work
- 2nd Quarter 2025 – Evaluation of Year 2 Data
- 3rd Quarter 2025 – Technical Memorandums
 - Prepare and initiate Groundwater Monitoring Program
 - Bedrock Aquifer Need Assessment
- 4th Quarter 2025 – Preparation of RI/FS

Agency Contacts

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— McLouth Steel Websites

- [CAG home page](#)

- <https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=0502434>



Thank you for your interest in CLOUD STEEL RIFTS Update

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