



July 19, 2024

Nilia Moberly Green, TOCOR
U.S. EPA Region 5
Ralph H. Metcalfe Federal Building
77 West Jackson Blvd
Chicago, Illinois 60604

PROJECT: Contract No.: 68HE0318D0003
Task Order No.: 68HE0523F0033

SUBJECT: Final Operable Unit 3 Sediment Technical Memorandum – Year 1
McLouth Steel Corp. Superfund Site
Trenton, Michigan

Dear Ms. Green:

CDM Smith Federal Programs Corporation (CDM Smith) has reviewed the United States Environmental Protection Agency (EPA) and the Michigan Department of Environment, Great Lakes, and Energy (EGLE) comments provided on July 12, 2024, regarding the McLouth Steel Superfund Site, Operable Unit 3 Sediment Technical Memorandum – Year 1 (TM). CDM Smith has revised the TM to address EPA's comments 2, 3, 4, 12, and 13, EGLE comments 1, 2, 3, and 5 from the June 20, 2024 letter, and EGLE Technical Assessment Memorandum comment 2a dated June 17, 2024. The remaining comments will be addressed in the Year 2 OU3 TM or in the Remedial Investigation Report.

The following comments were addressed from the Operable Unit 3 Sediment Technical Memorandum – Year 1 review comment documents:

1. EPA Comment #2, Page 2, Monguagon Creek: The pre-design investigation was completed in September 2021; however, the remedial design for contaminated sediment within Monguagon Creek and the Trenton Channel along a portion of the northern parcel is on-going.

CDM Smith Response: The sentence is updated to: "According to 'Monguagon Creek Upper Trenton Channel Site Lakes Legacy Act Project' (EPA 2024), field work for the pre-design investigation was completed in September 2021, however, the remedial design for contaminated sediment within Monguagon Creek and the Trenton Channel along a portion of the northern parcel is still on-going."

2. EPA Comment #3, Page 2, Hot Spots: (Hot Spots 2 and 4) Sediment remediation of Monguagon Creek – Upper Trenton Channel project is now tentatively planned for 2027 due to disposal limitations.

CDM Smith Response: The sentence is updated to: "Hot Spots 2 and 4 (EA Engineering 2015) are adjacent to the site on the western side of the Trenton Channel; remediation of these areas is tentatively planned for 2027 due to disposal limitation."

3. EPA Comment #4, Page 2, Hot Spots: (Hot Spot 3) The eastern side of the Trenton Channel is no longer being investigated and is determined for no further action for sediment remediation.

CDM Smith Response: The sentence is updated to: "Hot Spot 3 is on the eastern side of the Trenton Channel and is no longer being investigated, as it was determined that no further action for sediment remediation is needed."

4. EPA Comment #12, Page 5, Surface Water Discharge Sampling: The second sentence is incomplete and must be corrected.
CDM Smith Response: The sentence is updated to: "CDM Smith collected surface water samples from five off-site locations (MSTC23-SWDL06, -SWDL07, -SWDL08, -SWDL09, and -SWDL10), and at an additional on-site location (MSTC23-SWDL-SEEP-01)."
5. EPA Comment #13, Page 5, Data Validation: The paragraph indicates that the data validation reports for dioxins/furans (D/Fs) and reactive sulfide and a portion of the PFAS results were not available as the technical memorandum was being prepared. A statement should have been included that the pending D/F, reactive sulfide, and PFAS data validation reports will be evaluated to ensure acceptability of the data
CDM Smith Response: The sentence is added to the text: "The pending PFAS, D/F, and PAHs data validation reports will be evaluated to ensure acceptability of the data and will be discussed in the Year 2 Technical Memoranda or in the Remedial Investigation Report."
6. EGLE (June 20, 2024 letter) Comment #1, Surface Water Discharge Sampling, Second Sentence: This sentence does not seem complete and seems to be missing something. Please revise.
CDM Smith Response: Revised. Please see the response to EPA's Comment #12 above.
7. EGLE (June 20, 2024 letter) Comment #2, Surface Water Discharge Sampling, Fifth Sentence. "As of this technical memorandum, CDM Smith has not received the analytical results for these samples and will therefore evaluate and report these data as part of Year 2 reporting efforts." Please change "these" to "the".
CDM Smith Response: The sentence is revised to say "the data" instead of "these data."
8. EGLE (June 20, 2024 letter) Comment #3 Dioxins/Furans, Second Sentence: Change the sentence to the following, "Of the D/Fs analyzed, only 2,3,7,8-tetrachloroedibenzo-P-dioxin and total dioxin toxicity equivalence (TEQ) (for mammals) were detected above the PAL." As other compounds were detected, but a PAL was not established for them.
CDM Smith Response: The sentence is revised accordingly.
9. EGLE (June 20, 2024 letter) Comment #5, Table Index on Page 22: The title for Table 7 in this Index is not the same as the title for that table in the report. Please revise.
CDM Smith Response: Table 7's title is revised to, "AVS/SEM Sediment Sample Detections and Exceedances – Inorganics," and the index on Page 22 is updated.
10. EGLE (June 17, 2024 letter) Comment #2a, Page 8, AVS/SEM data collection: Please include the following reference in the report: EPA. 2005, EPA. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks for the Protection of Benthic Organisms: Metal Mixtures (Cadmium, Copper, Lead, Nickel, Silver, and Zinc), EPA/600/R-02/011, Office of Research and Development.
CDM Smith Response: This sentence was added to the text: "The bioavailability ratio is calculated in accordance to EPA (2005) "Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks for the Protection of Benthic Organisms: Metal Mixtures (Cadmium, Copper, Lead, Nickel, Silver, and Zinc), EPA/600/R-02/011." References section was updated accordingly.



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If you have any questions regarding this submittal, please contact me at your earliest convenience at (412) 208–2429 or vandegriftcj@cdmsmith.com.

Very truly yours,

CDM FEDERAL PROGRAMS CORPORATION

A handwritten signature in black ink, appearing to read "John Grabs", written over a horizontal line.

Senior Project Manager

cc: John Grabs, CDM Smith
Ernest Ashley, CDM Smith
Project file



Memorandum

To: Nilia Moberly Green, TOCOR, EPA Region 5

From: Christopher Vandegrift, Senior Project Manager

Date: July 19, 2024

*Subject: McLouth Steel Corporation Superfund Site
Operable Unit 3 Sediment Technical Memorandum — Year 1*

CDM Federal Programs Corporation (CDM Smith) prepared this technical memorandum to summarize the Operable Unit (OU) 3 sediment investigation performed at the McLouth Steel Corporation (McLouth) Superfund Site. This project is a part of U.S. Environmental Protection Agency (EPA) Design and Engineering Services Contract No. 68HE0318D0003, Task Order No. 68HE0523F0033. This technical memorandum presents data collected in October 2023 to characterize the nature, extent, and concentrations of chemical contaminants in sediment and provide recommendations for additional site characterization, where appropriate.

Site Background

The site is in Trenton, Michigan, in an area that includes industrial, commercial, and residential properties (**Figure 1**). This area is known for its history of industrial development, such as steel mills, chemical manufacturing facilities, coal-fired power plants, and landfills. These plants once operated and introduced contaminants, such as polychlorinated biphenyls (PCBs), various metals, fuels, solvents, scrubber dusts, acids, and slag, into the environment. Today, north of the site, a multitude of marinas and boat launches, manufacturing plants, and a golf course are present.

The site consists of the southwestern 197 acres of the former McLouth steel mill property, which originally comprised approximately 273 acres (**Figure 2**). The remaining approximately 76 acres is a separate cleanup site (Riverview-Trenton Railroad Company [RTRR] site) being addressed by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) (formerly the Michigan Department of Environmental Quality) under the Resource Conservation and Recovery Act (RCRA) program. The site is divided into three OUs: OU1 is the property source areas, OU2 is sitewide groundwater, and OU3 is Detroit River surface water and sediment. OU3 is on the western side of the Upper Trenton Channel (UTC), which is part of the Detroit River, and is downstream of the Grosse Ile Toll Bridge (**Figure 1**).

The Trenton Channel

The Trenton Channel separates from the larger Detroit River at the north end of Grosse Ile approximately 2.25 miles north of the Grosse Ile Toll Bridge. It contains a navigation channel with a project depth of 28 feet and measured depths up to 30 feet. The width of the Trenton Channel adjacent to the site ranges from approximately 950 to 1,250 feet. According to nautical charts, the depth of the

river channel ranges from 6 feet adjacent to the northern portion of the McLouth bulkhead to the east of the site, to approximately 30 feet in the middle of the channel. Deep water (greater than 24 feet) is shown adjacent to the 1,740-foot bulkhead where, historically, ships would dock. A U.S. Geological Survey (USGS) monitoring station is located at the Grosse Ile Parkway Bridge, 2 miles south of the southern end of the site. Streamflow at that station ranged from 42,700 to 51,000 cubic feet per second during 2015 (the most recent year of data available on the USGS website). River current velocities were measured to the north of the site in 2006 and measured up to 2.4 cubic feet per second (Erickson et al. 2007).

Monguagon Creek

North of the site and the Trenton Channel is Monguagon Creek. Monguagon Creek is approximately 0.7 miles long, 30 to 40 feet wide, and discharges into the UTC. From 1951 to 1982, manufacturing wastes and products were released to portions of the Huntington Drain, which is upstream of the site and adjacent to Monguagon Creek; this area was used as a surface impoundment for sludge, chromium, and corrosive waste. During the 1970s, 2,4-di-tert-amylphenol (2,4-DP), oil, gas, lead, and zinc were discharged into the creek from an outfall on the Elf Atochem property, which is upstream of the West Jefferson Road Bridge. In January 1997, the outfall was redirected to the Trenton Channel (Conestoga-Rovers & Associates 1997). Since 1994, Monguagon Creek has been the focus of seven sediment investigations performed by EGLE; EPA; Bridgestone Americas Tire Operations, LLC; BASF Corporation; and Arkema. In June 2018, Rambøll Group A/S completed a focused feasibility study (FFS) on Monguagon Creek. According to “Monguagon Creek Upper Trenton Channel Site Lakes Legacy Act Project” (EPA 2024), field work for the pre-design investigation was completed in September 2021, however, the remedial design for contaminated sediment within Monguagon Creek and the Trenton Channel along a portion of the northern parcel is still on-going.

Hot Spots

To date, limited data have been collected in the UTC adjacent to the site by EPA and EGLE. In 2014, EPA performed an assessment of contaminated sediments in the Mid/Lower Trenton Channel area from the Grosse Ile Toll Bridge to Calf Island, including a cove, an inlet, and a creek (EA Engineering Science and Technology [EA Engineering] 2015). This investigation identified nine areas of “high impact,” referred to as hot spots. Hot Spot 1 comprises Monguagon Creek and the area adjacent to the southwest of the Grosse Ile Toll Bridge; this area was targeted for remediation in 2023. Hot Spots 2 and 4 (EA Engineering 2015) are adjacent to the site on the western side of the Trenton Channel; remediation of these areas is tentatively planned for 2027 due to disposal limitation. Hot Spot 3 is on the eastern side of the Trenton Channel and is no longer being investigated, as it was determined that no further action for sediment remediation is needed. Hot Spots 5 through 9 will likely be investigated in the future as work sequentially progresses from upstream to downstream at the channel.

Physical Setting

Site Soils

The near-surface geology of the site area consists of glacial Great Lakes lacustrine clay and silt deposits overlain by fill material/deposits, especially in the floodplain areas along the Detroit River. The clay and silt deposits vary in thickness from approximately 10 to 40 feet and appear to be laterally extensive across the site. Occasional small lenses of lacustrine sand may be present throughout the deposits. Most

of the soil borings at the site did not reveal a sand or gravel layer within or below the clay overlying the bedrock.

Geology and Hydrogeology

Beneath the fill and glacial deposits, the site is underlain by bedrock of the Paleozoic Era, Devonian System, and Middle Devonian Series. The bedrock geology underlying the area's lacustrine deposits is the Dundee Limestone and the Detroit River Group Formations. The Dundee Formation consists of massive limestone deposits from 40 to 400 feet thick. The underlying Detroit River Group Formation consists of limestone, dolomite, and sandstone deposits with interbedded anhydrite and salt deposits. This formation can be more than 1,000 feet thick. Based on the approximate 30-foot depth of the Trenton Channel near the site, the river and bed deposits are likely incised into the lacustrine clay and possibly into the top of the limestone bedrock. The base of the river channel is likely comprised of sand and gravel.

In general, shallow groundwater from the McLouth facility and surrounding properties is expected to flow toward and discharge into the Trenton Channel. This expectation is supported by groundwater contour maps presented in the RCRA Facility Assessment Report (Techna Corporation 1998) and the Groundwater Investigation Report for the RTRR property to the north (ASTI Environmental 2021). The shallow groundwater may be perched above the lacustrine clay. However, monitoring wells in the bedrock are not present to establish water levels and to identify whether there is a significant gap between the shallow and bedrock groundwater elevations. Based on the thickness and extent of the lacustrine clay, the layer is expected to function as an aquitard beneath the shallow groundwater system and the bedrock.

Operable Unit 3 Sediment Investigation Activities

The OU3 sediment investigation supplements EPA's 2014 investigation at Hot Spots 2 and 3 (EA Engineering 2015). The planned sediment-related activities included a utility survey, sediment sampling for chemical analysis, and sediment trap sampling. Each of these activities are discussed below.

Utility Survey

To safely collect sediment samples, CDM Smith surveyed underwater utilities using One Call via Michigan's 811 MissDig system. CDM Smith also coordinated with various utility owners to obtain current Global Positioning System coordinates for known underwater pipe crossings and various underwater structures. MissDig representatives also marked known buried utility locations on each shoreline. This information was used to guide the selection of sampling locations to avoid pipe crossings and utilities.

Sediment Sampling

The OU3 Quality Assurance Project Plan (QAPP) and Field Sampling Plan (FSP) (CDM Smith 2023) proposed collecting surface and subsurface sediment samples at 23 locations. The surface samples, representing the top 6 inches of sediment, were to be collected using a Powers-Ogle-Noble-Ayers-Robertson (PONAR) dredge sampler. In addition, sediment cores at these 23 locations were to be

collected using vibracoring and segmented into 1-foot intervals for the top 3 feet and into 2-foot intervals thereafter.

Between October 11 and October 19, 2023, CDM Smith, along with EPA, performed the sampling activities. Because of a lack of sediment and apparent refusal at several of the targeted locations, samples were collected at only 17 locations, resulting in 29 core interval and 16 surface samples. **Figures 3a, 3b, and 3c** show the sampling locations. Sediment sampling was conducted in accordance with the EPA-approved QAPP/FSP. Photoionization detector measurements and sediment descriptions were recorded on boring logs, provided in **Attachment A**.

Sediment Sample Analysis

In all, 356 sediment samples, 16 field duplicates, 10 equipment blanks, 3 field blanks, and 3 trip blanks were submitted for analysis. Sediment samples were analyzed by the following laboratories using the methods noted:

- ChemTech Consulting Group analyzed target analyte list (TAL) metals (including mercury and cyanide) by Superfund Analytical Method (SFAM) 01.1
- Pace Analytical Services analyzed TAL volatile organic compounds (VOCs) by SFAM01.1, pesticides by SFAM01.1, TAL PCB Aroclors by SFAM01.1, and percent moisture
- Metri Group analyzed dioxins/furans (D/Fs) by High-Resolution Superfund Method (HRSM) 02.1.
- EPA's Region 3 Analytical Services Branch Laboratory analyzed per- and polyfluoroalkyl substances (PFAS) by Liquid Chromatography, Mass Spectrometry, and Tandem Mass Spectrometry
- RTI Laboratories, Inc. analyzed polycyclic aromatic hydrocarbons (PAHs) by 2182-8270 Selected Ion Monitoring (SIM), total organic carbon by AIG009A/2182 – Lloyd Kahn, pH by AIG008/ASTM International (ASTM) D4972, and percent moisture
- Eurofins Scientific Inc. analyzed acid volatile sulfide (AVS)/simultaneously extracted metals-simultaneously extracted metals (SEM) by GEN-AVS-EPA 821-R-91-100, SW846 6010C
- CDM Smith performed grain size analysis by ASTM D6913 and D7928, and additional geotechnical analysis on the following sediment samples: MSTC23-SD02-1.0, MSTC23-SD03-1.0, MSTC23-SD20-1.0, MSTC23-SD01-SS-0-0.5, MSTC23-SD05-SS-0-0.5, MSTC23-SD07-SS-0-0.5, MSTC23-SD20-SS-0-0.5, MSTC23-SD20-0-1.0, and MSTC23-SD20-1.0-2.0

Attachment B provides the analytical data and **Attachment C** provides the geotechnical data.

All excess sediment and decontamination water were collected, containerized, and temporarily stored in 55-gallon drums in the southwestern corner of the parking lot at the site for subsequent disposal in accordance with applicable regulations.

Sediment Trap Sampling

CDM Smith set eight sediment traps at four locations in the Trenton Channel (**Figures 3a, 3b, and 3c**). Sediment traps were in place from December 5, 2023, to January 3, 2024. Because of lack of sediment deposition in the sediment traps, no sediment samples from the traps were submitted for analysis.

Surface Water Discharge Sampling

Surface water sampling was conducted on April 11 and 12, 2024, during and after a significant precipitation event (approximately 0.4 inches of rainfall). CDM Smith collected surface water samples from five off-site locations (MSTC23-SWDL06, -SWDL07, -SWDL08, -SWDL09, and -SWDL10), and at an additional on-site location (MSTC23-SWDL-SEEP-01). One field duplicate, an equipment blank, and a field blank were collected for quality assurance/quality control. CDM Smith was unable to collect surface water discharge samples from any on-site outfall locations because of lack of surface water flow. The off-site location samples were sent to the appropriate laboratories for analysis. As of this technical memorandum, CDM Smith has not received the analytical results for these samples and will therefore evaluate and report the data as part of Year 2 reporting efforts.

Bathymetry

A bathymetry study was not completed during Year 1 activities, as initially contemplated. CDM Smith has scheduled a bathymetry study to be completed during 2024 for Year 2 work.

Data Validation

The data available for this investigation were validated as described in QAPP Worksheets #34 through #36 (CDM Smith 2023), except for PFAS, D/Fs, and PAHs. The preliminary analytical results for PFAS, D/Fs, and PAHs are presented herein as they are expected to be usable, but they should be considered preliminary and subject to data validation. The data in this technical memorandum are being presented for completeness and with the purpose of evaluating the next steps in the investigation. The pending PFAS, D/F, and PAHs data validation reports will be evaluated to ensure acceptability of the data and will be discussed in the Year 2 Technical Memoranda or in the Remedial Investigation Report.

Operable Unit 3 Sediment Investigation Sampling Results

Of the 23 locations targeted for sampling, there was no recoverable sediment at six of the locations. At another six locations, only surficial sediments, representing the top 6 inches of the sediment bed, were recovered. At the remaining 11 locations, sediment thicknesses ranged up to 9 feet. Sediment traps deployed over a 1-month period did not retain sufficient sediment for analysis. This, coupled with the lack of accumulated sediment in several areas, support the understanding that the channel in this general area of the Trenton Channel is a high-energy system that both scours sediment and does not readily deposit sediment onto the channel bed. The sediment present consists of combinations of sands, silts, and clays. Historical navigation maintenance dredging (of both channels and harbors) may also have contributed to the lack of sediment in many of the areas.

CDM Smith evaluated the sampling results to prepare summary statistics and identify patterns illustrating the distribution of contaminants of potential concern across the site. The main analyte

groups were PCB Aroclors, VOCs, pesticides, D/Fs, inorganics (metals and cyanide), and PAHs. PFAS were analyzed for a subset of samples.

Sample results are provided in the tables in **Attachment B**. Summary statistics are provided and discussed in the text that follows. **Figures 4a, 4b, 4c, 5a, 5b, and 5c** illustrate the concentration distribution of the various classes of analytes.

The detected concentrations of analytes were compared to the project action limits (PALs) listed on QAPP Worksheet #15. **Table 1** summarizes the number of detections and exceedances for each major analyte class.

Table 1 – Sediment Sample Detections and Exceedances Summary

| Analyte Group | Total Exceedances* | Total Detections* |
|---------------|--------------------|-------------------|
| PCB Aroclors | 63 (66%) | 75 (78%) |
| VOCs | 25 (23%) | 50 (45%) |
| Pesticides | 365 (45%) | 534 (65%) |
| D/Fs | 54 (56%) | 54 (56%) |
| Inorganics | 558 (65%) | 747 (86%) |
| PAHs | 772 (41%) | 1,263 (67%) |

*Percentage are based on total analytes examined; % – percent

Polychlorinated Biphenyl Aroclors

More than 65% of the samples had PCBs detected and 44% exceeded the PALs for PCBs. **Figures 4a, 4b, and 4c** show the PCB Aroclors distributions and concentrations.

Table 2 – Sediment Sample Detections and Exceedances – Polychlorinated Biphenyls

| Analyte | Exceeded | Detected | Total Samples |
|-------------------------|----------|----------|---------------|
| PCB-1248 (Aroclor 1248) | 29 | 36 | 48 |
| PCB-1260 (Aroclor 1260) | 34 | 39 | 48 |

Volatile Organic Compounds

VOCs were not widely detected at the site, with 45% of samples having VOCs detected and 23% exceeding their respective PAL. Only acetone and methyl ethyl ketone (2-butanone) were detected. For these detections, acetone exceeded its PAL 96% of the time, but 2-butanone only exceeded 4% of the time.

Table 3 – Sediment Sample Detections and Exceedances – Volatile Organic Compounds

| Analyte | Exceeded | Detected | Total Samples |
|----------------------------------|----------|----------|---------------|
| Acetone | 24 | 25 | 55 |
| Methyl Ethyl Ketone (2-Butanone) | 1 | 25 | 55 |

Pesticides

Pesticides were detected in many of the samples; 65% had pesticide detections and 45% exceeded the PAL. Heptachlor was the only analyte with a detection percentage below 50%, with 17% of samples having detections and 13% having exceedances.

Table 4 – Sediment Sample Detections and Exceedances – Pesticides

| Analyte | Exceeded | Detected | Total Samples |
|-----------------------------------|----------|----------|---------------|
| Aldrin | 19 | 30 | 48 |
| Alpha Hexachlorocyclohexane (BHC) | 9 | 27 | 48 |
| Alpha Endosulfan | 21 | 34 | 48 |
| Alpha-Chlordane | 15 | 24 | 48 |
| Beta BHC | 32 | 36 | 48 |
| Beta Endosulfan | 33 | 35 | 48 |
| Beta Chlordane | 27 | 37 | 48 |
| Dieldrin | 32 | 37 | 48 |
| Endosulfan Sulfate | 6 | 35 | 48 |
| Endrin | 29 | 31 | 48 |
| Gamma BHC (Lindane) | 16 | 31 | 48 |
| Heptachlor | 6 | 8 | 48 |
| Heptachlor Epoxide | 18 | 31 | 48 |
| Methoxychlor | 21 | 30 | 48 |
| p,p'-DDD | 24 | 35 | 48 |
| p,p'-DDE | 28 | 37 | 48 |
| p,p'-DDT | 29 | 36 | 48 |

Dioxins/Furans

D/F results are currently unvalidated. Of the D/Fs analyzed, only 2,3,7,8-tetrachlorodibenzo-P-dioxin and total dioxin toxicity equivalence (TEQ) (for mammals) were detected above the PAL.

2,3,7,8-tetrachlorodibenzo-P-dioxin was detected in 13% of the samples, while total dioxin TEQ was reported for every sample. Total dioxin TEQ also exceeded its PAL in every sample. **Table 5** summarizes D/F detections and PAL exceedances. **Figures 5a, 5b,** and **5c** show the D/F distributions and concentrations.

Table 5 – Sediment Sample Detections and Exceedances – Dioxins/Furans

| Analyte | Exceeded | Detected | Total Samples |
|-------------------------------------|----------|----------|---------------|
| 2,3,7,8-Tetrachlorodibenzo-p-Dioxin | 6 | 6 | 48 |
| Total Dioxin TEQ (Mammal) | 48 | 48 | 48 |

Inorganics (Metals and Cyanide)

Metals were detected in 86% of samples and 65% of samples had PAL exceedances. Based on the number of PAL exceedances, the results of past site studies, and the association of certain analytes with steel-making, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, and zinc data were highlighted in the figures. **Figures 4a, 4b,** and **4c** show the distributions and concentrations of these metals.

Table 6 – Sediment Sample Detections and Exceedances – Inorganics (Metals and Cyanide)

| Analyte | Exceeded | Detected | Total Samples |
|-----------|----------|----------|---------------|
| Aluminum | 7 | 48 | 48 |
| Antimony | 9 | 26 | 48 |
| Arsenic | 48 | 48 | 48 |
| Barium | 43 | 48 | 48 |
| Cadmium | 28 | 48 | 48 |
| Chromium | 48 | 48 | 48 |
| Cobalt | 48 | 48 | 48 |
| Copper | 28 | 48 | 48 |
| Cyanide | 12 | 12 | 48 |
| Iron | 48 | 48 | 48 |
| Lead | 27 | 48 | 48 |
| Manganese | 44 | 48 | 48 |
| Mercury | 34 | 40 | 48 |
| Nickel | 31 | 48 | 48 |
| Selenium | 9 | 12 | 48 |
| Silver | 21 | 34 | 48 |
| Thallium | 43 | 47 | 48 |
| Zinc | 30 | 48 | 48 |

Many samples had SEM detections; metals were detected in 97% of AVS/SEM samples and 91% of samples had PAL exceedances. **Table 7** summarizes the detection and exceedance results for AVS and SEM. The bioavailability potential of cadmium, copper, lead, mercury, nickel, and zinc were considered when reviewing the AVS/SEM data. Of the 48 AVS/SEM samples, 19 were nondetect for AVS. In total, 33 or approximately 70% of samples showed a potential for the specified metals to be bioavailable. The bioavailability ratio is calculated in accordance to EPA (2005) “Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks for the Protection of Benthic Organisms: Metal Mixtures (Cadmium, Copper, Lead, Nickel, Silver, and Zinc), EPA/600/R-02/011.” **Table 8** presents the total SEM metal molar concentration, AVS molar concentration, and bioavailability ratio of each sample. SEM metals are considered bioavailable when the bioavailability ratio is greater than 1.

Table 7 – AVS/SEM Sediment Sample Detections and Exceedances – Inorganics

| Analyte | Exceeded | Detected | Total Samples |
|---------|----------|----------|---------------|
| AVS* | - | 29 | 48 |
| Cadmium | 35 | 48 | 48 |
| Copper | 48 | 48 | 48 |
| Lead | 47 | 48 | 48 |
| Nickel | 40 | 40 | 48 |
| Zinc | 48 | 48 | 48 |

*AVS does not have an associated PAL, therefore exceedances cannot be calculated

Table 8 – AVS/SEM Molar Concentration and Bioavailability Ratio Summary

| Sample ID | Total Metal Molar Concentration (μmol/g) | AVS Molar Concentration (μmol/g) | Bioavailability Ratio |
|---------------------|--|----------------------------------|-----------------------|
| MSTC23-SD01-SS-0.5 | 6.59 | 25 | 0.26 |
| MSTC23-SD02-1.0 | 9.40 | 13 | 0.72 |
| MSTC23-SD02-2.0 | 7.55 | 9.6 | 0.79 |
| MSTC23-SD02-SS-0.5 | 4.46 | 7.2 | 0.62 |
| MSTC23-SD03-1.0 | 7.54 | 1.8 | 4.19* |
| MSTC23-SD03-2.0 | 8.33 | 1.7 | 4.90 |
| MSTC23-SD03-SS-0.5 | 2.93 | 3.8 | 0.77 |
| MSTC23-SD05-SS-0.5 | 2.60 | ND | * |
| MSTC23-SD06-1.0 | 6.35 | 3.6 | 1.76 |
| MSTC23-SD06-2.0 | 9.32 | 8.1 | 1.15 |
| MSTC23-SD06-3.0 | 7.33 | 4.2 | 1.74 |
| MSTC23-SD06-5.0 | 8.75 | 4.5 | 1.94 |
| MSTC23-SD06-7.0 | 8.06 | 1.8 | 4.48 |
| MSTC23-SD06-9.0 | 6.06 | 2.1 | 2.89 |
| MSTC23-SD06A-7.0 | 7.82 | 3.7 | 2.11 |
| MSTC23-SD06-SS-0.5 | 6.46 | ND | * |
| MSTC23-SD07-SS-0.5 | 3.19 | 14 | 0.23 |
| MSTC23-SD08A-SS-0.5 | 0.85 | 2 | 0.43 |
| MSTC23-SD08-SS-0.5 | 1.35 | 2.2 | 0.61 |
| MSTC23-SD08-SS-1.0 | 0.68 | 4.6 | 0.15 |
| MSTC23-SD08-SS-2.0 | 0.24 | ND | * |
| MSTC23-SD09-SS-0.5 | 5.61 | 3.5 | 1.6 |
| MSTC23-SD09-SS-1.0 | 9.18 | 3.2 | 2.87 |
| MSTC23-SD09-SS-2.0 | 0.28 | ND | * |
| MSTC23-SD10-SS-0.5 | 1.72 | ND | * |
| MSTC23-SD12-SS-0.5 | 1.62 | 3.6 | 0.45 |
| MSTC23-SD13-SS-0.5 | 1.41 | ND | * |
| MSTC23-SD13-SS-1.0 | 0.25 | ND | * |
| MSTC23-SD14-SS-0.5 | 4.57 | 1.2 | 3.81 |
| MSTC23-SD14-SS-1.0 | 0.25 | ND | * |
| MSTC23-SD14-SS-2.0 | 0.26 | ND | * |
| MSTC23-SD15-SS-0.5 | 2.44 | ND | * |
| MSTC23-SD19-SS-0.5 | 7.54 | 2.4 | 3.14 |
| MSTC23-SD19-SS-1.0 | 7.81 | 1.4 | 5.58 |
| MSTC23-SD19-SS-2.0 | 7.65 | ND | * |
| MSTC23-SD20-SS-0.5 | 2.19 | ND | * |

| Sample ID | Total Metal Molar Concentration (μmol/g) | AVS Molar Concentration (μmol/g) | Bioavailability Ratio |
|--------------------|--|----------------------------------|-----------------------|
| MSTC23-SD20-SS-1.0 | 7.22 | 110 | 0.07 |
| MSTC23-SD20-SS-2.0 | 0.41 | ND | * |
| MSTC23-SD22-SS-0.5 | 1.50 | 2.3 | 0.65 |
| MSTC23-SD22-SS-1.0 | 3.69 | 6.0 | 0.61 |
| MSTC23-SD22-SS-2.0 | 2.05 | 3.4 | 0.60 |
| MSTC23-SD22-SS-3.0 | 0.31 | ND | * |
| MSTC23-SD22-SS-5.0 | 0.27 | ND | * |
| MSTC23-SD23-SS-0.5 | 0.62 | 12 | 0.05 |
| MSTC23-SD23-SS-1.0 | 0.23 | ND | * |
| MSTC23-SD23-SS-2.0 | 0.54 | ND | * |
| MSTC23-SD23-SS-3.0 | 0.50 | ND | * |
| MSTC23-SD23-SS-5.0 | 0.22 | ND | * |

* AVS molar concentration is nondetect (ND), therefore bioavailability ratio cannot be calculated; μmol/g – micromoles per gram; **bold** – SEM/AVS is greater than 1; Metals are bioavailable

Inorganics (Metals and Cyanide) PALs and Exceedances

Several inorganics had very high exceedance percentages. **Table 9** shows the average concentrations of selected inorganics at depth compared with their PAL. Order of magnitude is also included to show the extent of exceedances. Order of magnitude is based on the average concentration of the exceedances from PONAR (reflective of the top 6 inches) and from 0 to 1 foot and 1 to 2 feet deep.

Table 9 – PAL Limits and Average Exceedances per Depth for Selected Inorganics

| Analyte | PAL (mg/kg) | PONAR (mg/kg) | 0–1 Foot (mg/kg) | 1–2 Feet (mg/kg) | Average Concentration (mg/kg) | Order of Magnitude |
|-----------|-------------|---------------|------------------|------------------|-------------------------------|--------------------|
| Cadmium | 0.71 | 3.67 | 5.75 | 10.12 | 6.51 | 1 |
| Chromium | 0.3 | 105.78 | 93.18 | 117.4 | 105.45 | 3 |
| Cobalt | 2.3 | 7.12 | 6.7 | 7.57 | 7.13 | - |
| Copper | 31.6 | 83.92 | 116.17 | 158 | 119.36 | 1 |
| Iron | 5,500 | 31,777.78 | 28,081.82 | 22,600 | 27,486.53 | 1 |
| Lead | 35.8 | 128.36 | 195 | 221.8 | 181.72 | 1 |
| Manganese | 180 | 999.41 | 529 | 642 | 723.47 | - |
| Mercury | 0.174 | 1.87 | 3.87 | 3.69 | 3.14 | 1 |
| Nickel | 22.7 | 91.55 | 64 | 93.71 | 83.09 | - |
| Zinc | 121 | 407.86 | 550 | 644 | 533.95 | - |

mg/kg – milligrams per kilogram

Polycyclic Aromatic Hydrocarbons

PAHs were detected in 76% of the samples and 50% of these samples had PAL exceedances. **Table 10** summarizes the PAH detections and exceedances. **Figures 5a, 5b, and 5c** show the PAH distributions and concentrations.

Table 10 – Sediment Sample Detections and Exceedances – Polycyclic Aromatic Hydrocarbons

| Analyte | Exceeded | Detected | Total Samples |
|---------------------------------|----------|----------|---------------|
| Acenaphthene | 20 | 20 | 48 |
| Acenaphthylene | 24 | 24 | 48 |
| Anthracene | 36 | 39 | 48 |
| Benzo(a)anthracene | 34 | 38 | 48 |
| Benzo(a)pyrene | 30 | 33 | 48 |
| Benzo(b)fluoranthene | 27 | 34 | 48 |
| Benzo(g,h,i)perylene | 24 | 26 | 48 |
| Benzo(k)fluoranthene | 30 | 34 | 48 |
| Benzo[e]pyrene | 23 | 33 | 48 |
| C1-Benz[a]anthracenes/Chrysenes | 23 | 35 | 48 |
| C1-Fluoranthenes/Pyrenes | 31 | 46 | 48 |
| C1-Fluorenes | 18 | 44 | 48 |
| C1-Naphthalene | 4 | 35 | 48 |
| C1-Phenanthrenes/Anthracenes | 30 | 45 | 48 |
| C2-Benz(a)anthracene/Chrysene | 6 | 29 | 48 |
| C2-Fluorenes | 19 | 41 | 48 |
| C2-Naphthalene | 17 | 42 | 48 |
| C2-Phenanthrenes/Anthracenes | 28 | 46 | 48 |
| C3-Fluorenes | 18 | 33 | 48 |
| C3-Naphthalene | 21 | 47 | 48 |
| C3-Phenanthrenes/Anthracenes | 25 | 47 | 48 |
| C4-Naphthalene | 22 | 47 | 48 |
| C4-Phenanthrenes/Anthracenes | 23 | 46 | 48 |
| Chrysene | 35 | 39 | 48 |
| Dibenz(a,h)anthracene | 20 | 21 | 48 |
| Fluoranthene | 35 | 44 | 48 |
| Fluorene | 22 | 26 | 48 |
| Indeno(1,2,3-c,d)pyrene | 23 | 26 | 48 |
| Naphthalene | 25 | 37 | 48 |
| Perylene | 7 | 18 | 48 |

| Analyte | Exceeded | Detected | Total Samples |
|--------------|----------|----------|---------------|
| Phenanthrene | 35 | 46 | 48 |
| Pyrene | 37 | 44 | 48 |

Per- and Polyfluoroalkyl Substances

PFAS results are currently unvalidated. There were some detections and no exceedances. PFAS data is presented in **Attachment B**.

Vertical Distribution

Sample locations were evaluated to identify trends of exceedances in shallow or deeper sediments. Depth did not appear to have a major impact on contaminant exceedance amounts. If a contaminant had high exceedances, the high exceedances were generally observed at every depth sampled. **Table 11** summarizes the vertical distribution of sediment sample detections and exceedances.

Table 11 – Sediment Sample Detections and Exceedances – Vertical Distribution

| Analyte | PAL | Exceedances at Depth Interval (0–0.5 feet) (PONAR) | Exceedances at Depth Interval (0–1 foot) | Exceedances at Depth Interval (1–2 feet) | Exceedances at Depth Interval (in feet) |
|----------------------------------|------------|--|--|--|--|
| Acetone | 9.9 µg/kg | 5 of 22 | 5 of 13 | 6 of 11 | 2–3: 3 of 3 3–5: 2 of 3 5–7: 2 of 2 7–9: 1 of 2 |
| Methyl Ethyl Ketone (2-Butanone) | 42.4 µg/kg | 0 of 22 | 1 of 13 | 0 of 11 | 2–3: 0 of 3 3–5: 0 of 3 5–7: 0 of 2 7–9: 0 of 1 |
| Aldrin | 2 µg/kg | 6 of 18 | 5 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Alpha BHC | 6 µg/kg | 3 of 18 | 2 of 11 | 2 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 0 of 2 7–9: 0 of 1 |
| Alpha Endosulfan | 3.26 µg/kg | 9 of 18 | 4 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Alpha-Chlordane | 3.24 µg/kg | 3 of 18 | 4 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Beta BHC | 5 µg/kg | 17 of 18 | 6 of 11 | 4 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |

| Analyte | PAL | Exceedances at Depth Interval (0–0.5 feet) (PONAR) | Exceedances at Depth Interval (0–1 foot) | Exceedances at Depth Interval (1–2 feet) | Exceedances at Depth Interval (in feet) |
|---------------------|------------|--|--|--|--|
| Beta Endosulfan | 1.94 µg/kg | 17 of 18 | 7 of 11 | 4 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Beta-Chlordane | 3.24 µg/kg | 15 of 18 | 4 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Dieldrin | 1.9 µg/kg | 17 of 18 | 6 of 11 | 4 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Endosulfan Sulfate | 34.6 µg/kg | 1 of 18 | 1 of 11 | 0 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 0 of 1 |
| Endrin | 2.22 µg/kg | 12 of 18 | 6 of 11 | 6 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Gamma BHC (Lindane) | 2.37 µg/kg | 10 of 18 | 3 of 11 | 1 of 10 | 2–3: 1 of 3 3–5: 0 of 3 5–7: 1 of 2 7–9: 0 of 1 |
| Heptachlor | 0.6 µg/kg | 2 of 18 | 3 of 11 | 1 of 10 | 2–3: 0 of 3 3–5: 0 of 3 5–7: 0 of 2 7–9: 0 of 1 |
| Heptachlor Epoxide | 2.47 µg/kg | 6 of 18 | 4 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Methoxychlor | 13.6 µg/kg | 8 of 18 | 5 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| p,p'-DDD | 4.88 µg/kg | 11 of 18 | 5 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| p,p'-DDE | 3.16 µg/kg | 13 of 18 | 7 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |

| Analyte | PAL | Exceedances at Depth Interval (0–0.5 feet) (PONAR) | Exceedances at Depth Interval (0–1 foot) | Exceedances at Depth Interval (1–2 feet) | Exceedances at Depth Interval (in feet) |
|-------------------------|-------------|--|--|--|--|
| p,p'-DDT | 4.16 µg/kg | 16 of 18 | 5 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| PCB-1248 (Aroclor 1248) | 59.8 µg/kg | 15 of 18 | 6 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| PCB-1260 (Aroclor 1260) | 59.8 µg/kg | 18 of 18 | 7 of 11 | 4 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Aluminum | 7,700 mg/kg | 0 of 18 | 3 of 11 | 2 of 10 | 2–3: 0 of 3 3–5: 0 of 3 5–7: 2 of 2 7–9: 0 of 1 |
| Antimony | 2 mg/kg | 3 of 18 | 3 of 11 | 3 of 10 | 2–3: 0 of 3 3–5: 0 of 3 5–7: 0 of 2 7–9: 0 of 1 |
| Arsenic | 0.68 mg/kg | 18 of 18 | 11 of 11 | 10 of 10 | 2–3: 3 of 3 3–5: 3 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Barium | 20 mg/kg | 17 of 18 | 10 of 11 | 9 of 10 | 2–3: 2 of 3 3–5: 2 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Cadmium | 0.71 mg/kg | 10 of 18 | 8 of 11 | 5 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Chromium | 0.3 mg/kg | 18 of 18 | 11 of 11 | 10 of 10 | 2–3: 3 of 3 3–5: 3 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Cobalt | 2.3 mg/kg | 18 of 18 | 11 of 11 | 10 of 10 | 2–3: 3 of 3 3–5: 3 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Copper | 31.6 mg/kg | 12 of 18 | 6 of 11 | 5 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |

| Analyte | PAL | Exceedances at Depth Interval (0–0.5 feet) (PONAR) | Exceedances at Depth Interval (0–1 foot) | Exceedances at Depth Interval (1–2 feet) | Exceedances at Depth Interval (in feet) |
|--------------|--------------|--|--|--|--|
| Cyanide | 0.0001 mg/kg | 4 of 18 | 1 of 11 | 3 of 10 | 2–3: 0 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Iron | 5,500 mg/kg | 18 of 18 | 11 of 11 | 10 of 10 | 2–3: 3 of 3 3–5: 3 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Lead | 35.8 mg/kg | 11 of 18 | 6 of 11 | 5 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Manganese | 180 mg/kg | 17 of 18 | 10 of 11 | 10 of 10 | 2–3: 2 of 3 3–5: 2 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Mercury | 0.174 mg/kg | 15 of 18 | 8 of 11 | 6 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Nickel | 22.7 mg/kg | 11 of 18 | 8 of 11 | 7 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Selenium | 0.72 mg/kg | 3 of 18 | 2 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 0 of 3 5–7: 0 of 2 7–9: 0 of 1 |
| Silver | 0.5 mg/kg | 5 of 18 | 6 of 11 | 5 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Thallium | 0.078 mg/kg | 15 of 18 | 11 of 11 | 9 of 10 | 2–3: 3 of 3 3–5: 2 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Zinc | 121 mg/kg | 14 of 18 | 6 of 11 | 5 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Acenaphthene | 6.71 µg/kg | 14 of 18 | 2 of 11 | 2 of 10 | 2–3: 1 of 3 3–5: 0 of 3 5–7: 1 of 2 7–9: 0 of 1 |

| Analyte | PAL | Exceedances at Depth Interval (0–0.5 feet) (PONAR) | Exceedances at Depth Interval (0–1 foot) | Exceedances at Depth Interval (1–2 feet) | Exceedances at Depth Interval (in feet) |
|--------------------------------|-------------|--|--|--|--|
| Acenaphthylene | 5.87 µg/kg | 15 of 18 | 4 of 11 | 2 of 10 | 2–3: 1 of 3 3–5: 0 of 3 5–7: 1 of 2 7–9: 1 of 1 |
| Anthracene | 57.2 µg/kg | 18 of 18 | 7 of 11 | 5 of 10 | 2–3: 2 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Benzo(a)anthracene | 108 ug/kg | 18 of 18 | 7 of 11 | 4 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Benzo(a)pyrene | 110 µg/kg | 17 of 18 | 5 of 11 | 3 of 10 | 2–3: 2 of 3 3–5: 1 of 3 5–7: 1 of 2 7–9: 1 of 1 |
| Benzo(b)fluoranthene | 1,100 µg/kg | 15 of 18 | 4 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Benzo(g,h,i)perylene | 170 µg/kg | 17 of 18 | 2 of 11 | 3 of 10 | 2–3: 2 of 3 3–5: 0 of 3 5–7: 0 of 2 7–9: 0 of 1 |
| Benzo(k)fluoranthene | 240 µg/kg | 17 of 18 | 4 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Benzo[e]pyrene | 1,000 µg/kg | 14 of 18 | 4 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 0 of 3 5–7: 1 of 2 7–9: 0 of 1 |
| C1-Benz[a]anthracene/Chrysenes | 1,000 µg/kg | 11 of 18 | 4 of 11 | 5 of 10 | 2–3: 1 of 3 3–5: 0 of 3 5–7: 2 of 2 7–9: 0 of 1 |
| C1-Fluoranthenes/Pyrenes | 1,000 µg/kg | 14 of 18 | 6 of 11 | 5 of 10 | 2–3: 2 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| C1-Fluorenes | 600 µg/kg | 5 of 18 | 5 of 11 | 5 of 10 | 2–3: 1 of 3 3–5: 0 of 3 5–7: 2 of 2 7–9: 0 of 1 |

| Analyte | PAL | Exceedances at Depth Interval (0–0.5 feet) (PONAR) | Exceedances at Depth Interval (0–1 foot) | Exceedances at Depth Interval (1–2 feet) | Exceedances at Depth Interval (in feet) |
|-----------------------------------|-------------|--|--|--|--|
| C1-Naphthalene | 600 µg/kg | 0 of 18 | 2 of 11 | 2 of 10 | 2–3: 1 of 3 3–5: 0 of 3 5–7: 0 of 2 7–9: 0 of 1 |
| C1-Phenanthrenes/ Anthracenes | 600 µg/kg | 13 of 18 | 6 of 11 | 5 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| C2-Benz(a)anthracene/ Chrysene | 1,000 µg/kg | 2 of 18 | 2 of 11 | 2 of 10 | 2–3: 0 of 3 3–5: 0 of 3 5–7: 0 of 2 7–9: 0 of 1 |
| C2-Fluorenes | 600 µg/kg | 4 of 18 | 6 of 11 | 4 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| C2-Naphthalene | 600 µg/kg | 3 of 18 | 5 of 11 | 4 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| C2-Phenanthrenes/ Anthracenes | 600 µg/kg | 11 of 18 | 6 of 11 | 5 of 10 | 2–3: 2 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| C3-Fluorenes | 600 µg/kg | 6 of 18 | 5 of 11 | 2 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| C3-Naphthalene | 600 µg/kg | 5 of 18 | 6 of 11 | 5 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| C3-Phenanthrenes/ Anthracenes | 600 µg/kg | 9 of 18 | 6 of 11 | 5 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| C4-Naphthalene | 600 µg/kg | 6 of 18 | 6 of 11 | 5 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| C4-Phenanthrenes/ Anthracenes | 600 µg/kg | 8 of 18 | 6 of 11 | 5 of 10 | 2–3: 1 of 3 3–5: 0 of 3 5–7: 2 of 2 7–9: 1 of 1 |

| Analyte | PAL | Exceedances at Depth Interval (0–0.5 feet) (PONAR) | Exceedances at Depth Interval (0–1 foot) | Exceedances at Depth Interval (1–2 feet) | Exceedances at Depth Interval (in feet) |
|-------------------------------------|-------------|--|--|--|--|
| Chrysene | 166 µg/kg | 18 of 18 | 7 of 11 | 4 of 10 | 2–3: 2 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Dibenz(a,h)anthracene | 33 µg/kg | 15 of 18 | 2 of 11 | 2 of 10 | 2–3: 1 of 3 3–5: 0 of 3 5–7: 0 of 2 7–9: 0 of 1 |
| Fluoranthene | 423 µg/kg | 18 of 18 | 6 of 11 | 5 of 10 | 2–3: 2 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Fluorene | 77.4 µg/kg | 12 of 18 | 3 of 11 | 3 of 10 | 2–3: 1 of 3 3–5: 0 of 3 5–7: 1 of 2 7–9: 1 of 1 |
| Indeno(1,2,3-c,d)pyrene | 200 µg/kg | 16 of 18 | 7 of 11 | 3 of 10 | 2–3: 2 of 3 3–5: 0 of 3 5–7: 0 of 2 7–9: 0 of 1 |
| Naphthalene | 176 µg/kg | 9 of 18 | 5 of 11 | 5 of 10 | 2–3: 1 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Perylene | 1,000 µg/kg | 5 of 18 | 0 of 11 | 2 of 10 | 2–3: 0 of 3 3–5: 0 of 3 5–7: 0 of 2 7–9: 0 of 1 |
| Phenanthrene | 204 µg/kg | 18 of 18 | 6 of 11 | 5 of 10 | 2–3: 2 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| Pyrene | 195 µg/kg | 18 of 18 | 8 of 11 | 5 of 10 | 2–3: 2 of 3 3–5: 1 of 3 5–7: 2 of 2 7–9: 1 of 1 |
| 2,3,7,8-Tetrachlorodibenzo-p-Dioxin | 0.12 pg/g | 4 of 18 | 1 of 11 | 1 of 10 | 2–3: 0 of 3 3–5: 0 of 3 5–7: 0 of 2 7–9: 0 of 1 |
| Total Dioxin TEQ (Mammal) | 0.12 pg/g | 18 of 18 | 11 of 11 | 10 of 10 | 2–3: 3 of 3 3–5: 3 of 3 5–7: 2 of 2 7–9: 1 of 1 |

µg/kg – micrograms per kilogram; pg/g – picograms per gram

Findings – Maximum Exceedances Distribution Relative to Trenton Channel Shoreline

Maximum exceedances found in the sediment were concentrated primarily adjacent to the site, with a decrease in maximum exceedances the further south the samples were collected. Sample exceedances at each location are shown in **Figures 4a, 4b, and 4c**. The highest number of maximum exceedances were adjacent to the former wastewater treatment plant (WWTP). The other areas of maximum exceedances were adjacent to and upstream of the McLouth bulkhead at the site. **Table 12** lists the sediment borings, their location relative to the shoreline, and the constituents detected at relatively high concentrations in that area.

Table 12 – Sediment Sample Maximum Exceedances – Distribution Relative to Shoreline

| Sediment Boring* | Location | Analytes |
|------------------|--|--|
| MSTC23-SD01 | Site Shoreline – Upstream of Steel Bulkhead | Inorganics (5): Chromium, Cobalt, Manganese, Nickel, Zinc |
| MSTC23-SD02 | Site Shoreline – Along Steel Bulkhead | Pesticides (1): Alpha Endosulfan D/Fs (1): 2,3,7,8-Tetrachlorodibenzofuran Inorganics (2): Aluminum, Cyanide PAHs (2): C1-Fluorenes, C3-Naphthalene |
| MSTC23-SD03 | Site Shoreline – Along Steel Bulkhead | VOCs (1): Methyl Ethyl Ketone (2-Butanone) Pesticides (1): Aldrin D/Fs (1): Total Dioxin TEQ (Mammal) Inorganics (1): Mercury PAHs (6): C1-Naphthalene, C1-Phenanthrenes/Anthracenes, C2-Fluorenes, C2-Naphthalene, C2-Phenanthrenes/Anthracenes, C4-Naphthalene |
| MSTC23-SD05 | Site Shoreline – Along Steel Bulkhead | Pesticides (5): Beta BHC (Beta Hexachlorocyclohexane), Beta Endosulfan, Endrin, Gamma BHC (Lindane), Heptachlor Epoxide PAHs (7): Acenaphthylene, Benzo(a)anthracene, C1-Fluoranthenes/Pyrenes, Chrysene, Fluoranthene, Naphthalene, Phenanthrene |
| MSTC23-SD06 | Site Shoreline – Along Steel Bulkhead; Adjacent to WWTP | VOCs (1): Acetone Pesticides (7): Alpha BHC (Alpha Hexachlorocyclohexane), Alpha-Chlordane, Beta-Chlordane, Dieldrin, Endosulfan Sulfate, p,p'-DDE, p,p'-DDT Aroclors (2): PCB-1248 (Aroclor 1248), PCB-1260 (Aroclor 1260) Inorganics (4): Barium, Cadmium, Selenium, Silver |
| MSTC23-SD07 | Downstream of WWTP – Along Shoreline | PAHs (10): Acenaphthene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzo[e]pyrene, C1-Benz[a]anthracenes/Chrysenes, Dibenz(a,h)anthracene, Indeno(1,2,3-c,d)pyrene, Perylene |
| MSTC23-SD09 | Downstream of Site – Along Shoreline Near Residential Area | Pesticides (2): Heptachlor, p,p'-DDE Inorganics (4): Arsenic, Iron, Lead, Thallium |
| MSTC23-SD14 | Downstream of Site – Along Shoreline Near Residential Area | Pesticides (2): Methoxychlor, p,p'-DDD PAHs (1): Pyrene |

| Sediment Boring* | Location | Analytes |
|------------------|--|--|
| MSTC23-SD19 | Downstream of Site – Along Shoreline Near Residential Area | Inorganics (3): Antimony, Cadmium, Copper PAHs (6): Anthracene, C3-Fluorenes, C3-Phenanthrenes/Anthracenes, C4-Phenanthrenes/Anthracenes, Fluorene, C2-Benz(a)anthracene/Chrysene |

*Figures 3a, 3b, and 3c show the sediment coring locations

Recommendations

A review of the analytical data does not show a distinct vertical trend except possibly for PAHs, which seem to decrease with depth in the samples from the middle portion of OU3. The other chemicals are present throughout the sediment vertical profile at relatively similar concentrations. A potential goal for additional characterization may include investigating areas to the east of sample locations 2, 3, 6, and 19 to better define the lateral extent of contamination.

To fully evaluate the nature and extent of PAL exceedances and the presence of potential source material at OU3, additional sediment borings near maximum exceedance and unbounded locations are recommended. Based on the existing sediment data, decision-makers would benefit from further sediment characterization at the following locations:

- East of MSTC23-SD02, along the McLouth bulkhead, where one maximum exceedance of pesticides and two maximum exceedances of inorganics were detected
- East of MSTC23-SD03, along the McLouth bulkhead, where one maximum exceedance of VOCs, one maximum exceedance of pesticides, and one maximum exceedance of inorganics were detected
- East of MSTC23-SD06, along the McLouth bulkhead and adjacent to the former WWTP, where one maximum exceedance of VOCs, seven maximum exceedances of pesticides, two maximum exceedances of PCB Aroclors, and four maximum exceedances of inorganics were detected
- East of MSTC23-SD19, downstream and along the residential shoreline, where three maximum exceedances of inorganics were detected

To evaluate these four areas along the Trenton Channel, up to four sediment borings per area would be assumed and refined following review of the bathymetric survey data, where the presence of mounds of sediment or depressions filled with sediment will be determined. Based on location-specific PAL exceedances, sediment borings and sediment sampling depths may be limited. Additional analytical characterization of the underlying regional clay is not anticipated. While these areas were identified based on Year 1 sediment borings, the Trenton Channel exhibited detections and exceedances of many analytes throughout. Further sediment borings outside of these zones may be necessary to further understand the full extent of contamination. The final scope of additional sediment characterization and specific boring locations will be finalized after all OU data has been evaluated and reviewed, including the bathymetric survey.

Because of the lack of sediment in sediment traps, a proposed change to both location and duration of sediment traps is recommended. Year 2 sediment traps should be placed in the Trenton Channel for at least 60 days at locations where there is known sediment deposition to better allow for adequate sediment accumulation for analysis.

For Year 2, based on Year 1 observations, sediment partitioning could be used to derive porewater concentrations to avoid potential issues during porewater sample collection.

Last, a survey of habitat quality could help in evaluating potential ecological risks.

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Figures

Figure 1 – Site Location Map

Figure 2 – Site Layout

Figure 3a – Sediment Sampling Locations

Figure 3b – Sediment Sampling Locations

Figure 3c – Sediment Sampling Locations

Figure 4a – Sediment Sampling Exceedances – Inorganics & PCB Aroclors

Figure 4b – Sediment Sampling Exceedances – Inorganics & PCB Aroclors

Figure 4c – Sediment Sampling Exceedances – Inorganics & PCB Aroclors

Figure 5a – Sediment Sampling Exceedances – PAHs & Dioxin/Furans

Figure 5b – Sediment Sampling Exceedances – PAHs & Dioxin/Furans

Figure 5c – Sediment Sampling Exceedances – PAHs & Dioxin/Furans

Tables

Table 1 – Sediment Sample Detections and Exceedances Summary

Table 2 – Sediment Sample Detections and Exceedances – Polychlorinated Biphenyls

Table 3 – Sediment Sample Detections and Exceedances – Volatile Organic Compounds

Table 4 – Sediment Sample Detections and Exceedances – Pesticides

Table 5 – Sediment Sample Detections and Exceedances – Dioxins/Furans

Table 6 – Sediment Sample Detections and Exceedances – Inorganics (Metals and Cyanide)

Table 7 – AVS/SEM Sediment Sample Detections and Exceedances – Inorganics

Table 8 – AVS/SEM Molar Concentration and Bioavailability Ratio Summary

Table 9 – PAL Limits and Average Exceedances per Depth for Selected Inorganics

Table 10 – Sediment Sample Detections and Exceedances – Polycyclic Aromatic Hydrocarbons

Table 11 – Sediment Sample Detections and Exceedances – Vertical Distribution

Table 12 – Sediment Sample Maximum Exceedances – Distribution Relative to Shoreline

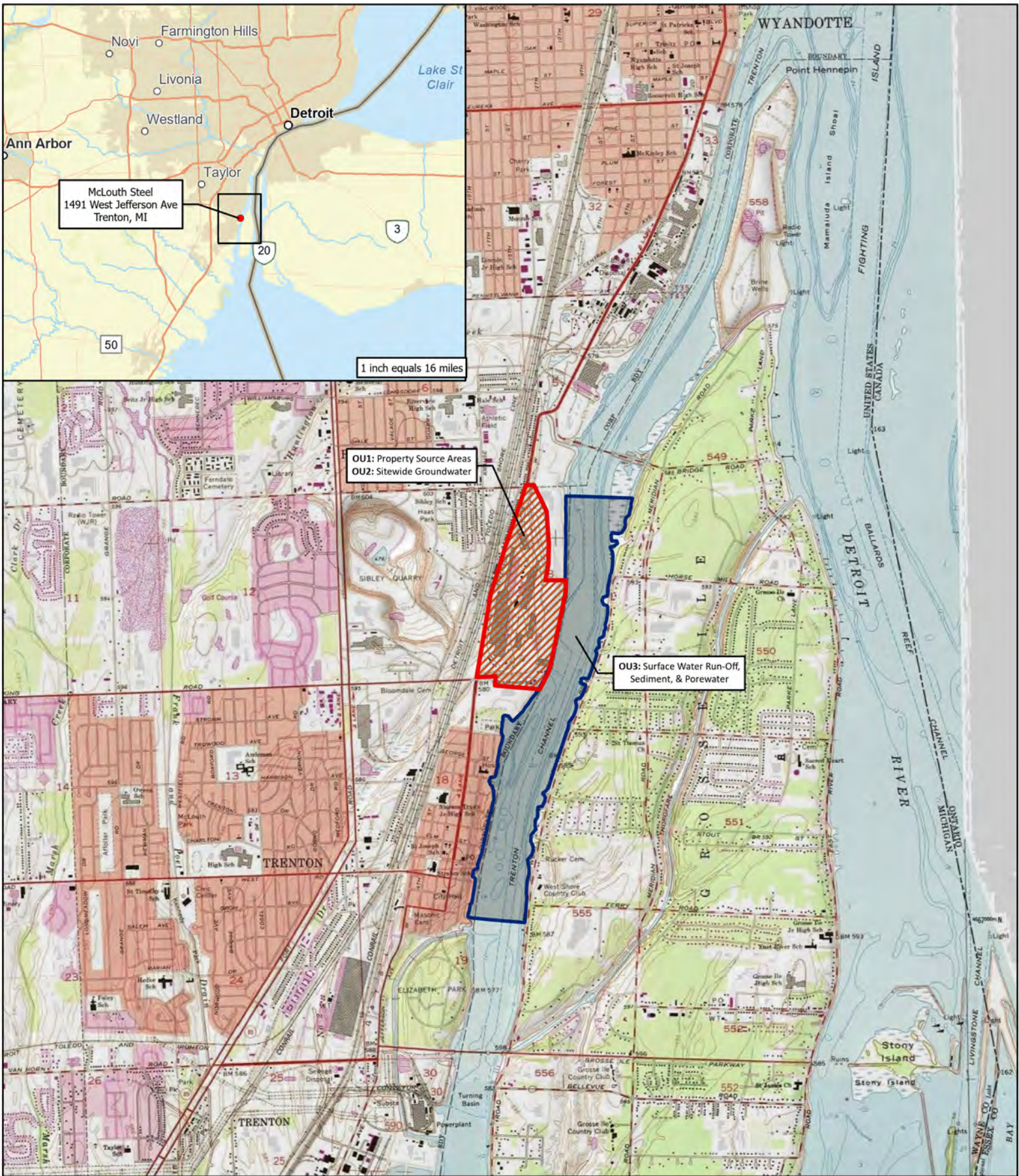
Attachments

Attachment A – Field Documentation (Boring Logs and Equipment Calibration)

Attachment B – Analytical Data Tables

Attachment C – Geotechnical Data

Figures



Legend

- Site Boundary
- Operable Units 1 & 2
- Operable Unit 3

Figure 1
 Site Location Map
 McLouth Steel Corp Superfund Site
 Trenton, Wayne County, Michigan



0 1,750 3,500
 Feet
 NAD 1983 StatePlane Michigan South FIPS 2113 Feet



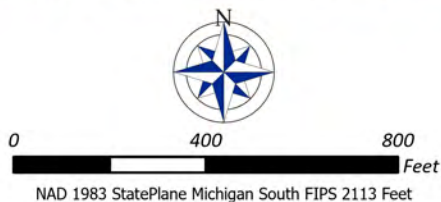
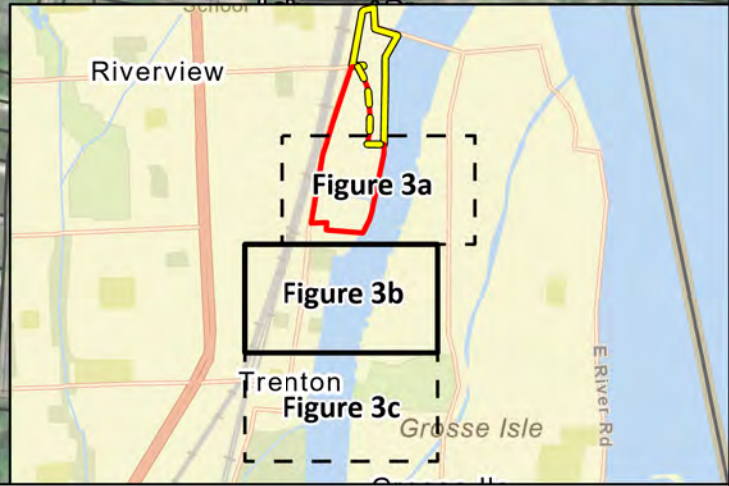


Sediment Sample Collection Status

- Surface & Subsurface Samples
- Surface Sample Only
- Not Sampled - Negligible Sediment Present
- Sediment Trap Deployed/Retrieved - Negligible Sediment Present

- - - Designated Underwater Utility Crossing Corridor
 - Former McLouth Steel Corp. Site
 - RTRR Property Site
 - Wayne County Parcels
- * Location was relocated based on existing conditions

Figure 3a
Sediment Sampling Locations
McLouth Steel Corp Superfund Site
Trenton, Wayne County, Michigan



Sediment Sample Collection Status

- Surface & Subsurface Samples
- Surface Sample Only
- Not Sampled - Negligible Sediment Present
- Sediment Trap Deployed/Retrieved - Negligible Sediment Present

- Former McLouth Steel Corp. Site
- RTRR Property Site
- Wayne County Parcels

* Location was relocated based on existing conditions

Figure 3b
Sediment Sampling Locations
McLouth Steel Corp Superfund Site
Trenton, Wayne County, Michigan



Sediment Sample Collection Status

- Surface & Subsurface Samples
- Surface Sample Only
- Not Sampled - Negligible Sediment Present
- Sediment Trap Deployed/Retrieved - Negligible Sediment Present
- Underwater Utility Crossing
- No Dig Zone (25' Buffer)
- Former McLouth Steel Corp. Site
- RTRR Property Site
- Wayne County Parcels

Figure 3c
Sediment Sampling Locations
McLouth Steel Corp Superfund Site
Trenton, Wayne County, Michigan

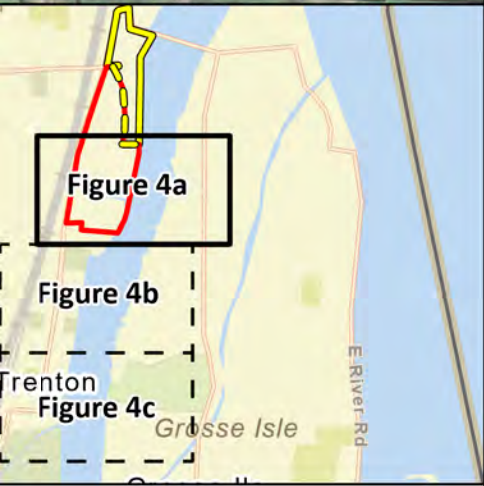
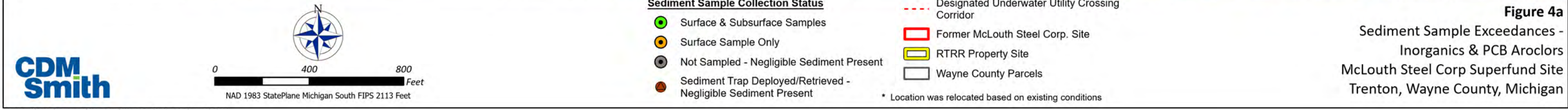
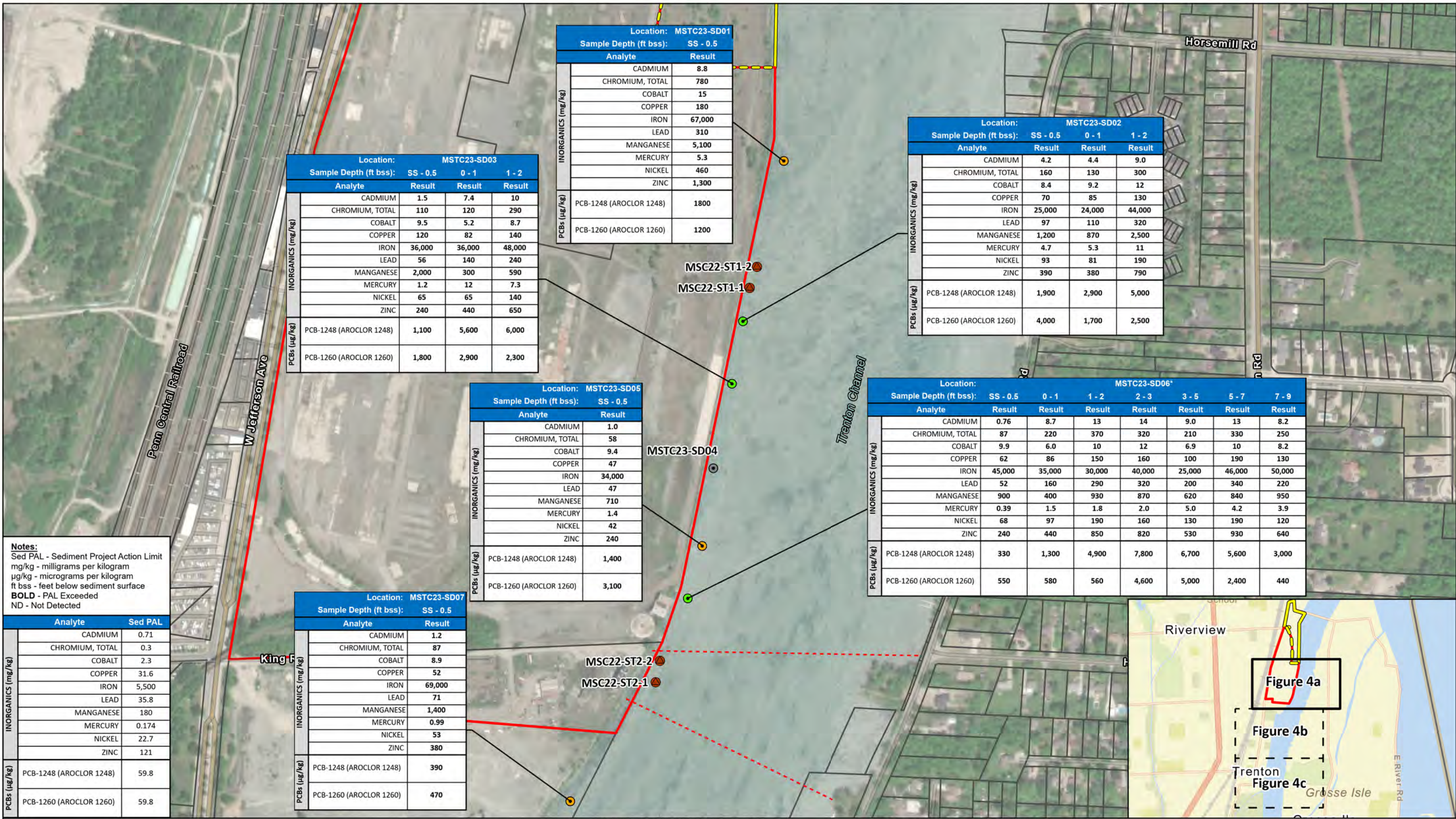
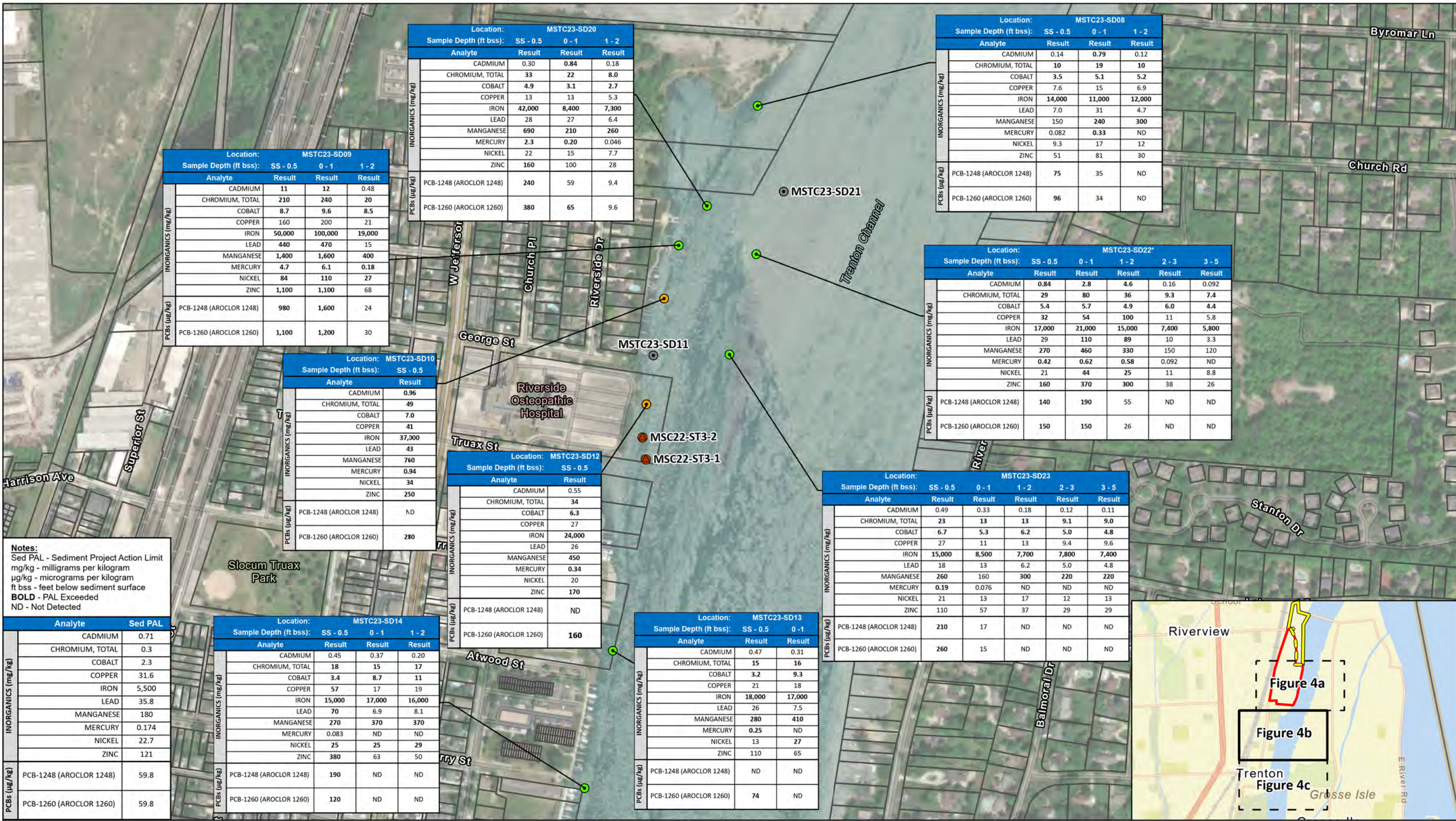


Figure 4a
 Sediment Sample Exceedances -
 Inorganics & PCB Aroclors
 McLouth Steel Corp Superfund Site
 Trenton, Wayne County, Michigan



Notes:
 Sed PAL - Sediment Project Action Limit
 mg/kg - milligrams per kilogram
 µg/kg - micrograms per kilogram
 ft bss - feet below sediment surface
BOLD - PAL Exceeded
 ND - Not Detected

| Analyte | Sed PAL |
|-------------------------|---------|
| CADMIUM | 0.71 |
| CHROMIUM, TOTAL | 0.3 |
| COBALT | 2.3 |
| COPPER | 31.6 |
| IRON | 5,500 |
| LEAD | 35.8 |
| MANGANESE | 180 |
| MERCURY | 0.174 |
| NICKEL | 22.7 |
| ZINC | 121 |
| PCB-1248 (AROCLOR 1248) | 59.8 |
| PCB-1260 (AROCLOR 1260) | 59.8 |

Location: MSTC23-SD09
 Sample Depth (ft bss): SS - 0.5 0 - 1 1 - 2

| Analyte | Result | Result | Result |
|-------------------------|--------|---------|--------|
| CADMIUM | 11 | 12 | 0.48 |
| CHROMIUM, TOTAL | 210 | 240 | 20 |
| COBALT | 8.7 | 9.6 | 8.5 |
| COPPER | 160 | 200 | 21 |
| IRON | 50,000 | 100,000 | 19,000 |
| LEAD | 440 | 470 | 15 |
| MANGANESE | 1,400 | 1,600 | 400 |
| MERCURY | 4.7 | 6.1 | 0.18 |
| NICKEL | 84 | 110 | 27 |
| ZINC | 1,100 | 1,100 | 68 |
| PCB-1248 (AROCLOR 1248) | 980 | 1,600 | 24 |
| PCB-1260 (AROCLOR 1260) | 1,100 | 1,200 | 30 |

Location: MSTC23-SD20
 Sample Depth (ft bss): SS - 0.5 0 - 1 1 - 2

| Analyte | Result | Result | Result |
|-------------------------|--------|--------|--------|
| CADMIUM | 0.30 | 0.84 | 0.18 |
| CHROMIUM, TOTAL | 33 | 22 | 8.0 |
| COBALT | 4.9 | 3.1 | 2.7 |
| COPPER | 13 | 13 | 5.3 |
| IRON | 42,000 | 8,400 | 7,300 |
| LEAD | 28 | 27 | 6.4 |
| MANGANESE | 690 | 210 | 260 |
| MERCURY | 2.3 | 0.20 | 0.046 |
| NICKEL | 22 | 15 | 7.7 |
| ZINC | 160 | 100 | 28 |
| PCB-1248 (AROCLOR 1248) | 240 | 59 | 9.4 |
| PCB-1260 (AROCLOR 1260) | 380 | 65 | 9.6 |

Location: MSTC23-SD08
 Sample Depth (ft bss): SS - 0.5 0 - 1 1 - 2

| Analyte | Result | Result | Result |
|-------------------------|--------|--------|--------|
| CADMIUM | 0.14 | 0.79 | 0.12 |
| CHROMIUM, TOTAL | 10 | 19 | 10 |
| COBALT | 3.5 | 5.1 | 5.2 |
| COPPER | 7.6 | 15 | 6.9 |
| IRON | 14,000 | 11,000 | 12,000 |
| LEAD | 7.0 | 31 | 4.7 |
| MANGANESE | 150 | 240 | 300 |
| MERCURY | 0.082 | 0.33 | ND |
| NICKEL | 9.3 | 17 | 12 |
| ZINC | 51 | 81 | 30 |
| PCB-1248 (AROCLOR 1248) | 75 | 35 | ND |
| PCB-1260 (AROCLOR 1260) | 96 | 34 | ND |

Location: MSTC23-SD10
 Sample Depth (ft bss): SS - 0.5

| Analyte | Result |
|-------------------------|--------|
| CADMIUM | 0.96 |
| CHROMIUM, TOTAL | 49 |
| COBALT | 7.0 |
| COPPER | 41 |
| IRON | 37,000 |
| LEAD | 43 |
| MANGANESE | 760 |
| MERCURY | 0.94 |
| NICKEL | 34 |
| ZINC | 250 |
| PCB-1248 (AROCLOR 1248) | ND |
| PCB-1260 (AROCLOR 1260) | 280 |

Location: MSTC23-SD12
 Sample Depth (ft bss): SS - 0.5

| Analyte | Result |
|-------------------------|--------|
| CADMIUM | 0.55 |
| CHROMIUM, TOTAL | 34 |
| COBALT | 6.3 |
| COPPER | 27 |
| IRON | 24,000 |
| LEAD | 26 |
| MANGANESE | 450 |
| MERCURY | 0.34 |
| NICKEL | 20 |
| ZINC | 170 |
| PCB-1248 (AROCLOR 1248) | ND |
| PCB-1260 (AROCLOR 1260) | 160 |

Location: MSTC23-SD13
 Sample Depth (ft bss): SS - 0.5 0 - 1

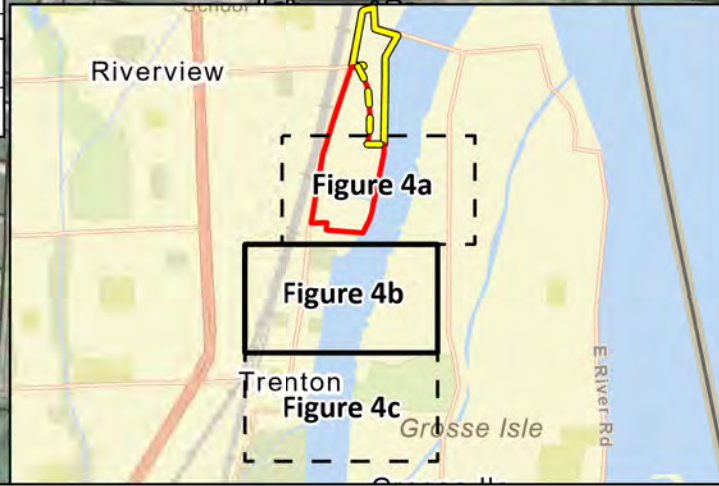
| Analyte | Result | Result |
|-------------------------|--------|--------|
| CADMIUM | 0.47 | 0.31 |
| CHROMIUM, TOTAL | 15 | 16 |
| COBALT | 3.2 | 9.3 |
| COPPER | 21 | 18 |
| IRON | 18,000 | 17,000 |
| LEAD | 26 | 7.5 |
| MANGANESE | 280 | 410 |
| MERCURY | 0.25 | ND |
| NICKEL | 13 | 27 |
| ZINC | 110 | 65 |
| PCB-1248 (AROCLOR 1248) | ND | ND |
| PCB-1260 (AROCLOR 1260) | 74 | ND |

Location: MSTC23-SD23
 Sample Depth (ft bss): SS - 0.5 0 - 1 1 - 2 2 - 3 3 - 5

| Analyte | Result | Result | Result | Result | Result |
|-------------------------|--------|--------|--------|--------|--------|
| CADMIUM | 0.49 | 0.33 | 0.18 | 0.12 | 0.11 |
| CHROMIUM, TOTAL | 23 | 13 | 13 | 9.1 | 9.0 |
| COBALT | 6.7 | 5.3 | 6.2 | 5.0 | 4.8 |
| COPPER | 27 | 11 | 13 | 9.4 | 9.6 |
| IRON | 15,000 | 8,500 | 7,700 | 7,800 | 7,400 |
| LEAD | 18 | 13 | 6.2 | 5.0 | 4.8 |
| MANGANESE | 260 | 160 | 300 | 220 | 220 |
| MERCURY | 0.19 | 0.076 | ND | ND | ND |
| NICKEL | 21 | 13 | 17 | 12 | 13 |
| ZINC | 110 | 57 | 37 | 29 | 29 |
| PCB-1248 (AROCLOR 1248) | 210 | 17 | ND | ND | ND |
| PCB-1260 (AROCLOR 1260) | 260 | 15 | ND | ND | ND |

Location: MSTC23-SD22*
 Sample Depth (ft bss): SS - 0.5 0 - 1 1 - 2 2 - 3 3 - 5

| Analyte | Result | Result | Result | Result | Result |
|-------------------------|--------|--------|--------|--------|--------|
| CADMIUM | 0.84 | 2.8 | 4.6 | 0.16 | 0.092 |
| CHROMIUM, TOTAL | 29 | 80 | 36 | 9.3 | 7.4 |
| COBALT | 5.4 | 5.7 | 4.9 | 6.0 | 4.4 |
| COPPER | 32 | 54 | 100 | 11 | 5.8 |
| IRON | 17,000 | 21,000 | 15,000 | 7,400 | 5,800 |
| LEAD | 29 | 110 | 89 | 10 | 3.3 |
| MANGANESE | 270 | 460 | 330 | 150 | 120 |
| MERCURY | 0.42 | 0.62 | 0.58 | 0.092 | ND |
| NICKEL | 21 | 44 | 25 | 11 | 8.8 |
| ZINC | 160 | 370 | 300 | 38 | 26 |
| PCB-1248 (AROCLOR 1248) | 140 | 190 | 55 | ND | ND |
| PCB-1260 (AROCLOR 1260) | 150 | 150 | 26 | ND | ND |



NAD 1983 StatePlane Michigan South FIPS 2113 Feet

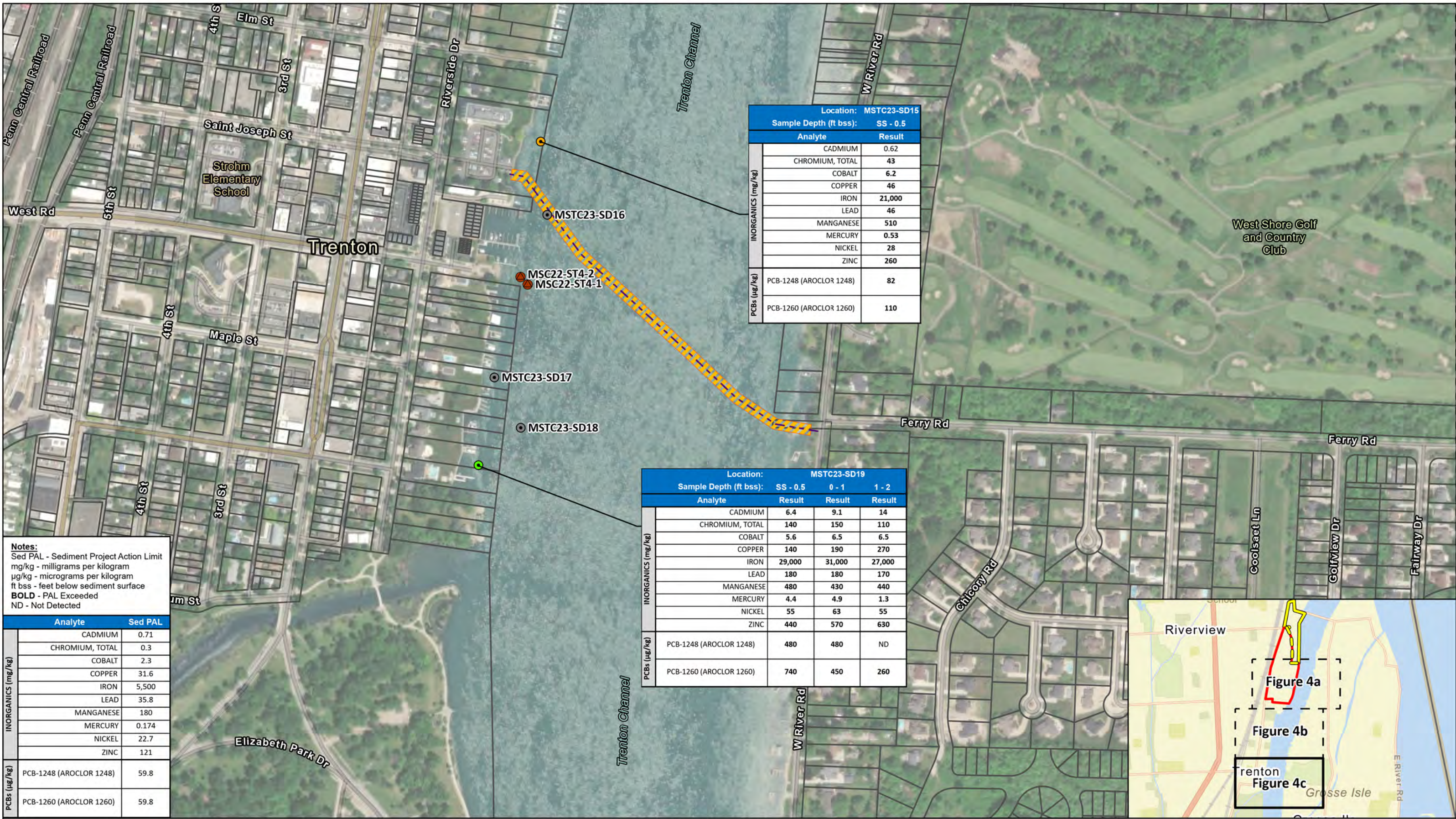
Sediment Sample Collection Status

- Surface & Subsurface Samples
- Surface Sample Only
- Not Sampled - Negligible Sediment Present
- Sediment Trap Deployed/Retrieved - Negligible Sediment Present

- Former McLouth Steel Corp. Site
- RTRR Property Site
- Wayne County Parcels

* Location was relocated based on existing conditions

Figure 4b
 Sediment Sample Exceedances -
 Inorganics & PCB Aroclors
 McLouth Steel Corp Superfund Site
 Trenton, Wayne County, Michigan



Location: MSTC23-SD15
Sample Depth (ft bss): SS - 0.5

| Analyte | Result |
|-----------------|--------|
| CADMIUM | 0.62 |
| CHROMIUM, TOTAL | 43 |
| COBALT | 6.2 |
| COPPER | 46 |
| IRON | 21,000 |
| LEAD | 46 |
| MANGANESE | 510 |
| MERCURY | 0.53 |
| NICKEL | 28 |
| ZINC | 260 |

| PCBs (µg/kg) | Result |
|-------------------------|--------|
| PCB-1248 (AROCLOL 1248) | 82 |
| PCB-1260 (AROCLOL 1260) | 110 |

Location: MSTC23-SD19

| Analyte | Sample Depth (ft bss): | | |
|-----------------|------------------------|--------|--------|
| | SS - 0.5 | 0 - 1 | 1 - 2 |
| CADMIUM | 6.4 | 9.1 | 14 |
| CHROMIUM, TOTAL | 140 | 150 | 110 |
| COBALT | 5.6 | 6.5 | 6.5 |
| COPPER | 140 | 190 | 270 |
| IRON | 29,000 | 31,000 | 27,000 |
| LEAD | 180 | 180 | 170 |
| MANGANESE | 480 | 430 | 440 |
| MERCURY | 4.4 | 4.9 | 1.3 |
| NICKEL | 55 | 63 | 55 |
| ZINC | 440 | 570 | 630 |

| PCBs (µg/kg) | SS - 0.5 | 0 - 1 | 1 - 2 |
|-------------------------|----------|-------|-------|
| PCB-1248 (AROCLOL 1248) | 480 | 480 | ND |
| PCB-1260 (AROCLOL 1260) | 740 | 450 | 260 |

Notes:
Sed PAL - Sediment Project Action Limit
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram
ft bss - feet below sediment surface
BOLD - PAL Exceeded
ND - Not Detected

| Analyte | Sed PAL |
|-----------------|---------|
| CADMIUM | 0.71 |
| CHROMIUM, TOTAL | 0.3 |
| COBALT | 2.3 |
| COPPER | 31.6 |
| IRON | 5,500 |
| LEAD | 35.8 |
| MANGANESE | 180 |
| MERCURY | 0.174 |
| NICKEL | 22.7 |
| ZINC | 121 |

| PCBs (µg/kg) | Sed PAL |
|-------------------------|---------|
| PCB-1248 (AROCLOL 1248) | 59.8 |
| PCB-1260 (AROCLOL 1260) | 59.8 |

Sediment Sample Collection Status

- Surface & Subsurface Samples
- Surface Sample Only
- Not Sampled - Negligible Sediment Present
- Sediment Trap Deployed/Retrieved - Negligible Sediment Present
- Underwater Utility Crossing
- No Dig Zone (25' Buffer)
- Former McLouth Steel Corp. Site
- RTRR Property Site
- Wayne County Parcels



Figure 4c
Sediment Sample Exceedances -
Inorganics & PCB Aroclors
McLouth Steel Corp Superfund Site
Trenton, Wayne County, Michigan

Notes:
A - Unvalidated Result
H - Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J - The identification of the analyte is acceptable; the reported value is an estimation.
Sed PAL - Sediment Project Action Limit
pg/kg - picograms per kilogram
µg/kg - micrograms per kilogram
ft bss - feet below sediment surface
BOLD - PAL Exceeded
ND - Not Detected

| Analyte | Sed PAL |
|-------------------------------------|---------|
| Acenaphthene | 6.71 |
| Acenaphthylene | 5.87 |
| Anthracene | 57.2 |
| Benzo(a)anthracene | 108 |
| C1-Benzanthracene/chrysenes | 1,000 |
| C2-Benzanthracene/chrysenes | 1000 |
| C3-Benzanthracene/chrysenes | 1000 |
| C4-Benzanthracene/chrysenes | 1000 |
| Benzo(a)pyrene | 110 |
| Benzo(b)fluoranthene | 1100 |
| Benzo(e)pyrene | 1000 |
| Benzo(g,h,i)perylene | 170 |
| Benzo(k)fluoranthene | 240 |
| Chrysene | 166 |
| Dibenz(a,h)anthracene | 33 |
| Fluoranthene | 423 |
| C1-Fluoranthene/pyrenes | 1000 |
| Fluorene | 77.4 |
| C1-Fluorenes | 600 |
| C2-Fluorenes | 600 |
| C3-Fluorenes | 600 |
| Indeno(1,2,3-cd)pyrene | 200 |
| Naphthalene | 176 |
| C1-Naphthalenes | 600 |
| C2-Naphthalenes | 600 |
| C3-Naphthalenes | 600 |
| C4-Naphthalenes | 600 |
| Perylene | 1000 |
| Phenanthrene | 204 |
| C1-Phenanthrene/anthracenes | 600 |
| C2-Phenanthrene/anthracenes | 600 |
| C3-Phenanthrene/anthracenes | 600 |
| C4-Phenanthrene/anthracenes | 600 |
| Pyrene | 195 |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 0.12 |
| Total Dioxin TEQ (Mammal) | 0.12 |

| Analyte | Result | Result | Result |
|-------------------------------------|--------|---------|---------|
| Acenaphthene | 220 A | ND | ND |
| Acenaphthylene | 450 A | ND | ND |
| Anthracene | 790 A | 540 A | 1100 A |
| Benzo(a)anthracene | 2700 A | 1400 A | 3400 A |
| Benzo(a)pyrene | 5400 A | 1700 HA | 8400 HA |
| Benzo(b)fluoranthene | 5600 A | 2200 HA | 4100 HA |
| Benzo(g,h,i)perylene | 2400 A | ND | 1400 HA |
| Benzo(k)fluoranthene | 2100 A | 610 HA | 1700 HA |
| Benzo(e)pyrene | 3200 A | 1300 HA | 2100 HA |
| C1-Benz(a)anthracene/Chrysene | 1500 A | ND | 1400 A |
| C2-Benz(a)anthracene/Chrysene | 2600 A | 3200 A | 5200 A |
| C3-Fluorenes | 350 A | 920 A | 1100 A |
| C1-Naphthalene | 150 A | 720 A | 950 A |
| C1-Phenanthrene/Anthracenes | 1800 A | 5800 A | 6700 A |
| C2-Benz(a)anthracene/Chrysene | 310 A | ND | ND |
| C2-Fluorenes | 250 A | 3000 A | 2200 A |
| C2-Naphthalene | 400 A | 2700 A | 8900 A |
| C2-Phenanthrene/Anthracenes | 1700 A | 8000 A | 2900 A |
| C3-Fluorenes | 200 A | 1400 A | 2000 A |
| C3-Naphthalene | 550 A | 4700 A | 6300 A |
| C3-Phenanthrene/Anthracenes | 1100 A | 6900 A | 8100 A |
| C4-Naphthalene | 700 A | 3100 A | 6800 A |
| C4-Phenanthrene/Anthracenes | 720 A | 4000 A | 730 A |
| Chrysene | 2500 A | 1600 A | 3200 A |
| Dibenz(a,h)anthracene | 600 A | ND | ND |
| Fluoranthene | 4000 A | 2800 A | 5000 A |
| Fluorene | 320 A | ND | 690 A |
| Indeno(1,2,3-cd)pyrene | 1900 A | ND | 1500 HA |
| Naphthalene | 550 A | 450 A | 540 A |
| Perylene | 1000 A | ND | ND |
| Phenanthrene | 2500 A | 2700 A | 3600 A |
| Pyrene | 4200 A | 3500 A | 3800 A |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 5.38 J | ND | ND |
| Total Dioxin TEQ (Mammal) | 17.9 | 97.8 | 105 |

| Analyte | Result |
|-------------------------------------|----------|
| Acenaphthene | 660 A |
| Acenaphthylene | 1100 A |
| Anthracene | 2350 A |
| Benzo(a)anthracene | 9200 HA |
| Benzo(a)pyrene | 10000 HA |
| Benzo(b)fluoranthene | 12000 HA |
| Benzo(g,h,i)perylene | 3900 A |
| Benzo(k)fluoranthene | 4150 A |
| Benzo(e)pyrene | 5900 A |
| C1-Benz(a)anthracene/Chrysene | 4600 A |
| C1-Fluoranthene/Pyrenes | 8400 A |
| C1-Fluorenes | 850 A |
| C1-Naphthalene | 420 A |
| C1-Phenanthrene/Anthracenes | 4200 A |
| C2-Benz(a)anthracene/Chrysene | 1200 A |
| C2-Fluorenes | 360 A |
| C2-Naphthalene | 450 A |
| C2-Phenanthrene/Anthracenes | 2500 A |
| C3-Fluorenes | 12000 HA |
| C3-Naphthalene | 380 A |
| C3-Phenanthrene/Anthracenes | 920 A |
| C4-Naphthalene | 660 A |
| C4-Phenanthrene/Anthracenes | 1200 A |
| Chrysene | 10000 HA |
| Dibenz(a,h)anthracene | 790 A |
| Fluoranthene | 15000 HA |
| Fluorene | 870 A |
| Indeno(1,2,3-cd)pyrene | 3300 A |
| Naphthalene | 1300 A |
| Perylene | 1900 A |
| Phenanthrene | 7600 HA |
| Pyrene | 1000 A |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | ND |
| Total Dioxin TEQ (Mammal) | 48.5 |

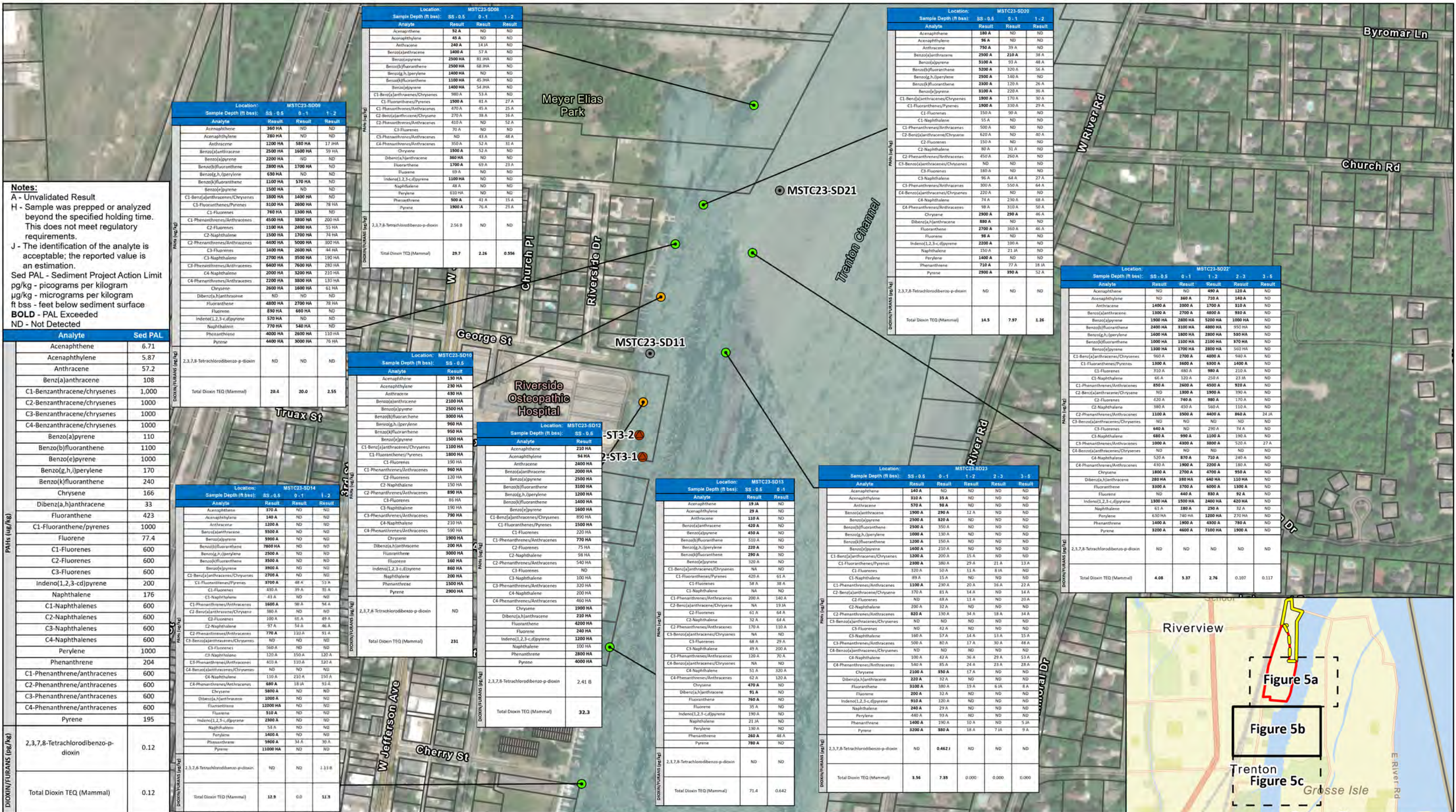
| Analyte | Result | Result | Result | Result | Result | Result | Result |
|-------------------------------------|--------|--------|--------|---------|---------|--------|--------|
| Acenaphthene | 60 A | 210 A | ND | ND | ND | 170 A | ND |
| Acenaphthylene | 84 A | 220 A | ND | ND | ND | 180 A | 230 A |
| Anthracene | 590 A | 450 A | 810 A | 600 A | 530 A | 240 A | 450 A |
| Benzo(a)anthracene | 810 A | ND | ND | ND | 1000 A | 1300 A | 1600 A |
| Benzo(a)pyrene | 900 A | ND | ND | 2200 HA | 1300 HA | 1600 A | 1400 A |
| Benzo(b)fluoranthene | 1200 A | ND | ND | 2600 HA | 1700 HA | 1800 A | 1800 A |
| Benzo(g,h,i)perylene | 500 A | ND | ND | 1100 HA | ND | ND | ND |
| Benzo(k)fluoranthene | 370 A | ND | ND | 820 HA | 740 HA | 680 A | 790 A |
| Benzo(e)pyrene | 610 A | ND | ND | 1400 HA | 860 HA | 1000 A | 970 A |
| C1-Benz(a)anthracene/Chrysene | 340 A | ND | 1300 A | 1100 A | 540 A | 1100 A | ND |
| C1-Fluoranthene/Pyrenes | 680 A | 1700 A | 2900 A | 2400 A | 1500 A | 2500 A | 2200 A |
| C1-Fluorenes | 100 A | 990 A | 1200 A | 720 A | 550 A | 720 A | 590 A |
| C1-Naphthalene | 60 A | 470 A | 560 A | 390 A | 380 A | 410 A | 330 A |
| C1-Phenanthrene/Anthracenes | 450 A | 4100 A | 5000 A | 4300 A | 3000 A | 3400 A | 2600 A |
| C2-Benz(a)anthracene/Chrysene | 110 A | ND | 330 A | ND | ND | 900 A | ND |
| C2-Fluorenes | 68 A | 1900 A | 1900 A | 1600 A | 1100 A | 1500 A | 870 A |
| C2-Naphthalene | 95 A | 1600 A | 1900 A | 1300 A | 1300 A | 1600 A | 960 A |
| C2-Phenanthrene/Anthracenes | 320 A | 6800 A | 8200 A | 6900 A | 4500 A | 6000 A | 3800 A |
| C3-Fluorenes | 110 A | 1300 A | 1500 A | 1300 A | 850 A | 3100 A | 1600 A |
| C3-Naphthalene | 120 A | 3300 A | 3500 A | 3000 A | 2700 A | 3100 A | 1700 A |
| C3-Phenanthrene/Anthracenes | 200 A | 4700 A | 8300 A | 6200 A | 3300 A | 3700 A | 4100 A |
| C4-Naphthalene | 110 A | 2200 A | 2800 A | 4900 A | 1600 A | 4100 A | 2000 A |
| C4-Phenanthrene/Anthracenes | 160 A | 1400 A | 1900 A | 1100 A | 590 A | 1700 A | 1300 A |
| Chrysene | 780 A | ND | ND | 1800 A | 1200 A | 1400 A | 1900 A |
| Dibenz(a,h)anthracene | 120 A | ND | ND | ND | ND | ND | ND |
| Fluoranthene | 1400 A | 2100 A | 3700 A | 2700 A | 1700 A | 2100 A | 2100 A |
| Fluorene | 88 A | 340 A | ND | ND | ND | 300 A | 400 A |
| Indeno(1,2,3-cd)pyrene | 390 A | ND | ND | 860 HA | ND | ND | ND |
| Naphthalene | 160 A | 310 A | 560 A | 400 A | 320 A | 380 A | 430 A |
| Perylene | 200 A | ND | ND | ND | ND | ND | 810 A |
| Phenanthrene | 750 A | 2000 A | 3100 A | 2200 A | 1600 A | 1700 A | 1700 A |
| Pyrene | 1400 A | 2500 A | 4800 A | 3300 A | 2100 A | 3300 A | 3000 A |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | ND | ND | ND | ND | ND | ND | ND |
| Total Dioxin TEQ (Mammal) | 18.8 | 42.7 | 38.8 | 21.6 | 28.1 | 34.3 | |

| Analyte | Result | Result | Result |
|-------------------------------------|--------|---------|---------|
| Acenaphthene | 220 A | ND | ND |
| Acenaphthylene | 450 A | ND | ND |
| Anthracene | 790 A | 540 A | 1100 A |
| Benzo(a)anthracene | 2700 A | 1400 A | 3400 A |
| Benzo(a)pyrene | 5400 A | 1700 HA | 8400 HA |
| Benzo(b)fluoranthene | 5600 A | 2200 HA | 4100 HA |
| Benzo(g,h,i)perylene | 2400 A | ND | 1400 HA |
| Benzo(k)fluoranthene | 2100 A | 610 HA | 1700 HA |
| Benzo(e)pyrene | 3200 A | 1300 HA | 2100 HA |
| C1-Benz(a)anthracene/Chrysene | 1500 A | ND | 1400 A |
| C2-Benz(a)anthracene/Chrysene | 2600 A | 3200 A | 5200 A |
| C3-Fluorenes | 350 A | 920 A | 1100 A |
| C1-Naphthalene | 150 A | 720 A | 950 A |
| C1-Phenanthrene/Anthracenes | 1800 A | 5800 A | 6700 A |
| C2-Benz(a)anthracene/Chrysene | 310 A | ND | ND |
| C2-Fluorenes | 250 A | 3000 A | 2200 A |
| C2-Naphthalene | 400 A | 2700 A | 8900 A |
| C2-Phenanthrene/Anthracenes | 1700 A | 8000 A | 2900 A |
| C3-Fluorenes | 200 A | 1400 A | 2000 A |
| C3-Naphthalene | 550 A | 4700 A | 6300 A |
| C3-Phenanthrene/Anthracenes | 1100 A | 6900 A | 8100 A |
| C4-Naphthalene | 700 A | 3100 A | 6800 A |
| C4-Phenanthrene/Anthracenes | 720 A | 4000 A | 730 A |
| Chrysene | 2500 A | 1600 A | 3200 A |
| Dibenz(a,h)anthracene | 600 A | ND | ND |
| Fluoranthene | 4000 A | 2800 A | 5000 A |
| Fluorene | 320 A | ND | 690 A |
| Indeno(1,2,3-cd)pyrene | 1900 A | ND | 1500 HA |
| Naphthalene | 550 A | 450 A | 540 A |
| Perylene | 1000 A | ND | ND |
| Phenanthrene | 2500 A | 2700 A | 3600 A |
| Pyrene | 4200 A | 3500 A | 3800 A |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 5.38 J | ND | ND |
| Total Dioxin TEQ (Mammal) | 17.9 | 97.8 | 105 |

| Analyte | Result | Result | Result |
|-------------------------------------|---------|---------|---------|
| Acenaphthene | 370 A | ND | ND |
| Acenaphthylene | 900 A | ND | ND |
| Anthracene | 1300 A | 800 A | 1400 A |
| Benzo(a)anthracene | 4200 HA | 2000 HA | 4500 HA |
| Benzo(a)pyrene | 8400 HA | 3500 HA | 8000 HA |
| Benzo(b)fluoranthene | 4100 HA | 1500 HA | 3500 HA |
| Benzo(g,h,i)perylene | 1400 HA | ND | 2000 HA |
| Benzo(k)fluoranthene | 1400 HA | 500 HA | 1400 HA |
| Benzo(e)pyrene | 2100 HA | 800 HA | 1800 HA |
| C1-Benz(a)anthracene/Chrysene | 1400 A | ND | 1400 A |
| C2-Benz(a)anthracene/Chrysene | 2600 A | 3200 A | 5200 A |
| C3-Fluorenes | 350 A | 920 A | 1100 A |
| C1-Naphthalene | 150 A | 720 A | 950 A |
| C1-Phenanthrene/Anthracenes | 1800 A | 5800 A | 6700 A |
| C2-Benz(a)anthracene/Chrysene | 310 A | ND | ND |
| C2-Fluorenes | 250 A | 3000 A | 2200 A |
| C2-Naphthalene | 400 A | 2700 A | 8900 A |
| C2-Phenanthrene/Anthracenes | 1700 A | 8000 A | 2900 A |
| C3-Fluorenes | 200 A | 1400 A | 2000 A |
| C3-Naphthalene | 550 A | 4700 A | 6300 A |
| C3-Phenanthrene/Anthracenes | 1100 A | 6900 A | 8100 A |
| C4-Naphthalene | 700 A | 3100 A | 6800 A |
| C4-Phenanthrene/Anthracenes | 720 A | 4000 A | 730 A |
| Chrysene | 2500 A | 1600 A | 3200 A |
| Dibenz(a,h)anthracene | 600 A | ND | ND |
| Fluoranthene | 4000 A | 2800 A | 5000 A |
| Fluorene | 320 A | ND | 690 A |
| Indeno(1,2,3-cd)pyrene | 1900 A | ND | 1500 HA |
| Naphthalene | 550 A | 450 A | 540 A |
| Perylene | 1000 A | ND | ND |
| Phenanthrene | 2500 A | 2700 A | 3600 A |
| Pyrene | 4200 A | 3500 A | 3800 A |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 5.38 J | ND | ND |
| Total Dioxin TEQ (Mammal) | 17.9 | 97.8 | 105 |

| Analyte | Result | Result | Result |
|-------------------------------------|---------|---------|---------|
| Acenaphthene | 370 A | ND | ND |
| Acenaphthylene | 900 A | ND | ND |
| Anthracene | 1300 A | 800 A | 1400 A |
| Benzo(a)anthracene | 4200 HA | 2000 HA | 4500 HA |
| Benzo(a)pyrene | 8400 HA | 3500 HA | 8000 HA |
| Benzo(b)fluoranthene | 4100 HA | 1500 HA | 3500 HA |
| Benzo(g,h,i)perylene | 1400 HA | ND | 2000 HA |
| Benzo(k)fluoranthene | 1400 HA | 500 HA | 1400 HA |
| Benzo(e)pyrene | 2100 HA | 800 HA | 1800 HA |
| C1-Benz(a)anthracene/Chrysene | 1400 A | ND | 1400 A |
| C2-Benz(a)anthracene/Chrysene | 2600 A | 3200 A | 5200 A |
| C3-Fluorenes | 350 A | 920 A | 1100 A |
| C1-Naphthalene | 150 A | 720 A | 950 A |
| C1-Phenanthrene/Anthracenes | 1800 A | 5800 A | 6700 A |
| C2-Benz(a)anthracene/Chrysene | 310 A | ND | ND |
| C2-Fluorenes | 250 A | 3000 A | 2200 A |
| C2-Naphthalene | 400 A | 2700 A | 8900 A |
| C2-Phenanthrene/Anthracenes | 1700 A | 8000 A | 2900 A |
| C3-Fluorenes | 200 A | 1400 A | 2000 A |
| C3-Naphthalene | 550 A | 4700 A | 6300 A |
| C3-Phenanthrene/Anthracenes | 1100 A | 6900 A | 8100 A |
| C4-Naphthalene | 700 A | 3100 A | 6800 A |
| C4-Phenanthrene/Anthracenes | 720 A | 4000 A | 730 A |
| Chrysene | 2500 A | 1600 A | 3200 A |
| Dibenz(a,h)anthracene | 600 A | ND | ND |
| Fluoranthene | 4000 A | 2800 A | 5000 A |
| Fluorene | 320 A | ND | 690 A |
| Indeno(1,2,3-cd)pyrene | 1900 A | ND | 1500 HA |
| Naphthalene | 550 A | 450 A | 540 A |
| Perylene | 1000 A | ND | ND |
| Phenanthrene | 2500 A | 2700 A | 3600 A |
| Pyrene | 4200 A | 3500 A | 3800 A |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 5.38 J | ND | ND |
| Total Dioxin TEQ (Mammal) | 17.9 | 97.8 | 105 |

| Analyte | Result | Result | Result |
|-------------------------------|--------|---------|---------|
| Acenaphthene | 220 A | ND | ND |
| Acenaphthylene | 450 A | ND | ND |
| Anthracene | 790 A | 540 A | 1100 A |
| Benzo(a)anthracene | 2700 A | 1400 A | 3400 A |
| Benzo(a)pyrene | 5400 A | 1700 HA | 8400 HA |
| Benzo(b)fluoranthene | 5600 A | 2200 HA | 4100 HA |
| Benzo(g,h,i)perylene | 2400 A | ND | 1400 HA |
| Benzo(k)fluoranthene | 2100 A | 610 HA | 1700 HA |
| Benzo(e)pyrene | 3200 A | 1300 HA | 2100 HA |
| C1-Benz(a)anthracene/Chrysene | 1500 A | ND | 1400 A |
| C2-Benz(a)anthracene/Chrysene | 2600 A | 3200 A | 5200 A |
| C3-Fluorenes | 350 A | 920 A | 1100 A |
| C1-Naphthalene | 150 A | 720 A | 950 A |
| C1-Phenanthrene/Anthracenes | 1800 A | 5800 A | 6700 A |
| C2-Benz(a)anthracene/Chrysene | 310 A | ND | ND |
| C2-Fluorenes | 250 A | 3000 A | 2200 A |
| C2-Naphthalene | 400 A | 2700 A | 8900 A |
| C2-Phenanthrene/Anthracenes | 1700 A | 8000 A | 2900 A |
| C3-Fluorenes | 200 A | 1400 A | 2000 A |
| C3-Naphthalene | 550 A | 4700 A | 6300 A |
| C3-Phenanthrene/Anthracenes | 1100 A | 6900 A | 8100 A |
| C4-Naphthalene | 700 A | 3100 A | 6800 A |
| C4-Phenanthrene/Anthracenes | 720 A | 4000 A | 730 A |



Notes:
A - Unvalidated Result
H - Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J - The identification of the analyte is acceptable; the reported value is an estimation.
Sed PAL - Sediment Project Action Limit
pg/kg - picograms per kilogram
μg/kg - micrograms per kilogram
ft bss - feet below sediment surface
BOLD - PAL Exceeded
ND - Not Detected

| Analyte | Sed PAL |
|-------------------------------------|---------|
| Acenaphthene | 6.71 |
| Acenaphthylene | 5.87 |
| Anthracene | 57.2 |
| Benz(a)anthracene | 108 |
| C1-Benzanthracene/chrysenes | 1,000 |
| C2-Benzanthracene/chrysenes | 1000 |
| C3-Benzanthracene/chrysenes | 1000 |
| C4-Benzanthracene/chrysenes | 1000 |
| Benzo(a)pyrene | 110 |
| Benzo(b)fluoranthene | 1100 |
| Benzo(e)pyrene | 1000 |
| Benzo(g,h,i)perylene | 170 |
| Benzo(k)fluoranthene | 240 |
| Chrysene | 166 |
| Dibenz(a,h)anthracene | 33 |
| Fluoranthene | 423 |
| C1-Fluoranthene/pyrenes | 1000 |
| Fluorene | 77.4 |
| C1-Fluorenes | 600 |
| C2-Fluorenes | 600 |
| C3-Fluorenes | 600 |
| Indeno(1,2,3-cd)pyrene | 200 |
| Naphthalene | 176 |
| C1-Naphthalenes | 600 |
| C2-Naphthalenes | 600 |
| C3-Naphthalenes | 600 |
| C4-Naphthalenes | 600 |
| Perylene | 1000 |
| Phenanthrene | 204 |
| C1-Phenanthrene/anthracenes | 600 |
| C2-Phenanthrene/anthracenes | 600 |
| C3-Phenanthrene/anthracenes | 600 |
| C4-Phenanthrene/anthracenes | 600 |
| Pyrene | 195 |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 0.12 |
| Total Dioxin TEQ (Mammal) | 0.12 |

| Location: | MSTC23-SD09 | | |
|-------------------------------------|----------------------|---------|--------|
| Sample Depth (ft bss): | SS - 0.5 0 - 1 1 - 2 | | |
| Acenaphthene | 360 HA | ND | ND |
| Acenaphthylene | 280 HA | ND | ND |
| Anthracene | 1200 HA | 580 HA | 17 JHA |
| Benzo(a)anthracene | 2500 HA | 1600 HA | 59 HA |
| Benzo(a)pyrene | 2200 HA | ND | ND |
| Benzo(b)fluoranthene | 2800 HA | 1700 HA | ND |
| Benzo(g,h,i)perylene | 630 HA | ND | ND |
| Benzo(k)fluoranthene | 1100 HA | 570 HA | ND |
| Chrysene | 1500 HA | ND | ND |
| C1-Benz(a)anthracenes/Chrysenes | 1800 HA | 1400 HA | ND |
| C1-Fluoranthenes/Pyrenes | 3100 HA | 2600 HA | 78 HA |
| C1-Fluorenes | 760 HA | 1300 HA | ND |
| C1-Phenanthrenes/Anthracenes | 4500 HA | 3800 HA | 200 HA |
| C2-Fluorenes | 1100 HA | 2400 HA | 53 HA |
| C2-Naphthalene | 1500 HA | 1700 HA | 74 HA |
| C2-Phenanthrenes/Anthracenes | 4400 HA | 5000 HA | 300 HA |
| C3-Fluorenes | 1400 HA | 2600 HA | 44 HA |
| C3-Naphthalene | 2700 HA | 3500 HA | 190 HA |
| C3-Phenanthrenes/Anthracenes | 6400 HA | 7600 HA | 280 HA |
| C4-Naphthalene | 2000 HA | 3200 HA | 210 HA |
| C4-Phenanthrenes/Anthracenes | 2200 HA | 3800 HA | 130 HA |
| Chrysene | 2600 HA | 1600 HA | 61 HA |
| Dibenz(a,h)anthracene | ND | ND | ND |
| Fluoranthene | 4800 HA | 2700 HA | 78 HA |
| Fluorene | 850 HA | 660 HA | ND |
| Indeno(1,2,3-cd)pyrene | 570 HA | ND | ND |
| Naphthalene | 770 HA | 540 HA | ND |
| Phenanthrene | 4000 HA | 2600 HA | 110 HA |
| Pyrene | 4400 HA | 3000 HA | 76 HA |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | ND | ND | ND |
| Total Dioxin TEQ (Mammal) | 20.4 | 30.0 | 2.55 |

| Location: | MSTC23-SD10 |
|-------------------------------------|-------------|
| Sample Depth (ft bss): | SS - 0.5 |
| Acenaphthene | 130 HA |
| Acenaphthylene | 230 HA |
| Anthracene | 430 HA |
| Benzo(a)anthracene | 2100 HA |
| Benzo(a)pyrene | 2500 HA |
| Benzo(b)fluoranthene | 3000 HA |
| Benzo(g,h,i)perylene | 960 HA |
| Benzo(k)fluoranthene | 950 HA |
| Chrysene | 1500 HA |
| C1-Benz(a)anthracenes/Chrysenes | 1100 HA |
| C1-Fluoranthenes/Pyrenes | 1800 HA |
| C1-Fluorenes | 150 HA |
| C1-Phenanthrenes/Anthracenes | 960 HA |
| C2-Fluorenes | 120 HA |
| C2-Naphthalene | 150 HA |
| C2-Phenanthrenes/Anthracenes | 890 HA |
| C3-Fluorenes | 86 HA |
| C3-Naphthalene | 190 HA |
| C3-Phenanthrenes/Anthracenes | 790 HA |
| C4-Naphthalene | 210 HA |
| C4-Phenanthrenes/Anthracenes | 590 HA |
| Chrysene | 1900 HA |
| Dibenz(a,h)anthracene | 200 HA |
| Fluoranthene | 3000 HA |
| Fluorene | 160 HA |
| Indeno(1,2,3-cd)pyrene | 860 HA |
| Naphthalene | 200 HA |
| Phenanthrene | 1500 HA |
| Pyrene | 2900 HA |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | ND |
| Total Dioxin TEQ (Mammal) | 231 |

| Location: | MSTC23-SD11 |
|-------------------------------------|-------------|
| Sample Depth (ft bss): | SS - 0.5 |
| Acenaphthene | 210 HA |
| Acenaphthylene | 94 HA |
| Anthracene | 2400 HA |
| Benzo(a)anthracene | 2000 HA |
| Benzo(a)pyrene | 2500 HA |
| Benzo(b)fluoranthene | 3100 HA |
| Benzo(g,h,i)perylene | 3100 HA |
| Benzo(k)fluoranthene | 1200 HA |
| Chrysene | 1400 HA |
| C1-Benz(a)anthracenes/Chrysenes | 1600 HA |
| C1-Fluoranthenes/Pyrenes | 890 HA |
| C1-Fluorenes/Pyrenes | 1500 HA |
| C1-Fluorenes | 220 HA |
| C1-Phenanthrenes/Anthracenes | 770 HA |
| C2-Fluorenes | 75 HA |
| C2-Naphthalene | 98 HA |
| C2-Phenanthrenes/Anthracenes | 540 HA |
| C3-Fluorenes | ND |
| C3-Naphthalene | 100 HA |
| C3-Phenanthrenes/Anthracenes | 320 HA |
| C4-Naphthalene | 200 HA |
| C4-Phenanthrenes/Anthracenes | 460 HA |
| Chrysene | 1900 HA |
| Dibenz(a,h)anthracene | 210 HA |
| Fluoranthene | 4200 HA |
| Fluorene | 240 HA |
| Indeno(1,2,3-cd)pyrene | 1200 HA |
| Naphthalene | 100 HA |
| Phenanthrene | 2800 HA |
| Pyrene | 4000 HA |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 2.41 B |
| Total Dioxin TEQ (Mammal) | 32.3 |

| Location: | MSTC23-SD12 |
|-------------------------------------|-------------|
| Sample Depth (ft bss): | SS - 0.5 |
| Acenaphthene | 191 HA |
| Acenaphthylene | 99 HA |
| Anthracene | 2300 HA |
| Benzo(a)anthracene | 1900 HA |
| Benzo(a)pyrene | 2500 HA |
| Benzo(b)fluoranthene | 3100 HA |
| Benzo(g,h,i)perylene | 3100 HA |
| Benzo(k)fluoranthene | 1200 HA |
| Chrysene | 1400 HA |
| C1-Benz(a)anthracenes/Chrysenes | 890 HA |
| C1-Fluoranthenes/Pyrenes | 1500 HA |
| C1-Fluorenes | 220 HA |
| C1-Phenanthrenes/Anthracenes | 770 HA |
| C2-Fluorenes | 75 HA |
| C2-Naphthalene | 98 HA |
| C2-Phenanthrenes/Anthracenes | 540 HA |
| C3-Fluorenes | ND |
| C3-Naphthalene | 100 HA |
| C3-Phenanthrenes/Anthracenes | 320 HA |
| C4-Naphthalene | 200 HA |
| C4-Phenanthrenes/Anthracenes | 460 HA |
| Chrysene | 1900 HA |
| Dibenz(a,h)anthracene | 210 HA |
| Fluoranthene | 4200 HA |
| Fluorene | 240 HA |
| Indeno(1,2,3-cd)pyrene | 1200 HA |
| Naphthalene | 100 HA |
| Phenanthrene | 2800 HA |
| Pyrene | 4000 HA |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 2.41 B |
| Total Dioxin TEQ (Mammal) | 32.3 |

| Location: | MSTC23-SD13 | | | | |
|-------------------------------------|----------------------------------|---------|-------|-------|-------|
| Sample Depth (ft bss): | SS - 0.5 0 - 1 1 - 2 2 - 3 3 - 5 | | | | |
| Acenaphthene | 140 A | ND | ND | ND | ND |
| Acenaphthylene | 310 A | 35 A | ND | ND | ND |
| Anthracene | 570 A | 96 A | ND | ND | ND |
| Benzo(a)anthracene | 1900 A | 290 A | 12 A | ND | ND |
| Benzo(a)pyrene | 2500 A | 320 A | ND | ND | ND |
| Benzo(b)fluoranthene | 2500 A | 350 A | ND | ND | ND |
| Benzo(g,h,i)perylene | 1000 A | 130 A | ND | ND | ND |
| Benzo(k)fluoranthene | 1200 A | 150 A | ND | ND | ND |
| Chrysene | 1600 A | 210 A | ND | ND | ND |
| C1-Benz(a)anthracenes/Chrysenes | 1200 A | 200 A | 15 A | ND | ND |
| C1-Fluoranthenes/Pyrenes | 2100 A | 380 A | 29 A | 21 A | 13 A |
| C1-Fluorenes | 320 A | 50 A | 11 A | 8 A | ND |
| C1-Naphthalene | 89 A | 35 A | ND | ND | ND |
| C1-Phenanthrenes/Anthracenes | 1100 A | 230 A | 20 A | 16 A | 22 A |
| C2-Benz(a)anthracenes/Chrysene | 370 A | 81 A | 14 A | ND | 14 A |
| C2-Fluorenes | ND | 48 A | 11 A | ND | 20 A |
| C2-Naphthalene | 200 A | 32 A | ND | ND | ND |
| C2-Phenanthrenes/Anthracenes | 820 A | 130 A | 34 A | 18 A | 34 A |
| C3-Benz(a)anthracenes/Chrysenes | ND | ND | ND | ND | ND |
| C3-Fluorenes | ND | 42 A | ND | ND | ND |
| C3-Naphthalene | 160 A | 57 A | 14 A | 13 A | 15 A |
| C3-Phenanthrenes/Anthracenes | 500 A | 80 A | 17 A | 30 A | 48 A |
| C4-Benz(a)anthracenes/Chrysenes | ND | ND | ND | ND | ND |
| C4-Naphthalene | 100 A | 42 A | 36 A | 29 A | 53 A |
| C4-Phenanthrenes/Anthracenes | 530 A | 85 A | 24 A | 23 A | 28 A |
| Chrysene | 2100 A | 350 A | 17 A | ND | ND |
| Dibenz(a,h)anthracene | 220 A | 32 A | ND | ND | ND |
| Fluoranthene | 3100 A | 380 A | 19 A | 8 A | 8 A |
| Fluorene | 200 A | 32 A | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | 910 A | 120 A | ND | ND | ND |
| Naphthalene | 240 A | 29 A | ND | ND | ND |
| Perylene | 440 A | 93 A | ND | ND | ND |
| Phenanthrene | 1400 A | 190 A | 10 A | ND | 5 A |
| Pyrene | 3200 A | 580 A | 18 A | 7 A | 9 A |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | ND | 0.442 J | ND | ND | ND |
| Total Dioxin TEQ (Mammal) | 8.56 | 7.35 | 0.000 | 0.000 | 0.000 |

| Location: | MSTC23-SD20 | | |
|-------------------------------------|----------------------|-------|------|
| Sample Depth (ft bss): | SS - 0.5 0 - 1 1 - 2 | | |
| Acenaphthene | 180 A | ND | ND |
| Acenaphthylene | 96 A | ND | ND |
| Anthracene | 750 A | 39 A | ND |
| Benzo(a)anthracene | 2500 A | 210 A | 38 A |
| Benzo(a)pyrene | 3100 A | 93 A | 48 A |
| Benzo(b)fluoranthene | 5200 A | 320 A | 56 A |
| Benzo(g,h,i)perylene | 2500 A | 140 A | ND |
| Benzo(k)fluoranthene | 3300 A | 120 A | 26 A |
| Chrysene | 3100 A | 220 A | 36 A |
| C1-Benz(a)anthracenes/Chrysenes | 1900 A | 170 A | 30 A |
| C1-Fluoranthenes/Pyrenes | 1900 A | 330 A | 29 A |
| C1-Fluorenes | 150 A | 90 A | ND |
| C1-Naphthalene | 55 A | ND | ND |
| C1-Phenanthrenes/Anthracenes | 500 A | ND | ND |
| C2-Benz(a)anthracenes/Chrysene | 620 A | ND | 40 A |
| C2-Fluorenes | 150 A | ND | ND |
| C2-Naphthalene | 80 A | 31 A | ND |
| C2-Phenanthrenes/Anthracenes | 450 A | 260 A | ND |
| C3-Benz(a)anthracenes/Chrysenes | ND | ND | ND |
| C3-Fluorenes | 180 A | ND | ND |
| C3-Naphthalene | 96 A | 64 A | 27 A |
| C3-Phenanthrenes/Anthracenes | 300 A | 550 A | 64 A |
| C4-Benz(a)anthracenes/Chrysenes | 220 A | ND | ND |
| C4-Naphthalene | 74 A | 230 A | 68 A |
| C4-Phenanthrenes/Anthracenes | 98 A | 310 A | 50 A |
| Chrysene | 2900 A | 290 A | 46 A |
| Dibenz(a,h)anthracene | 590 A | ND | ND |
| Fluoranthene | 2700 A | 360 A | 46 A |
| Fluorene | 98 A | ND | ND |
| Indeno(1,2,3-cd)pyrene | 2200 A | 100 A | ND |
| Naphthalene | 150 A | 21 A | ND |
| Perylene | 1400 A | ND | ND |
| Phenanthrene | 710 A | 77 A | 18 A |
| Pyrene | 2900 A | 350 A | 52 A |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | ND | ND | ND |
| Total Dioxin TEQ (Mammal) | 14.5 | 7.97 | 1.24 |

| Location: | MSTC23-SD22 | | | | |
|-------------------------------------|----------------------------------|---------|---------|---------|-------|
| Sample Depth (ft bss): | SS - 0.5 0 - 1 1 - 2 2 - 3 3 - 5 | | | | |
| Acenaphthene | ND | 360 A | 710 A | 140 A | ND |
| Acenaphthylene | ND | 490 A | 120 A | ND | ND |
| Anthracene | 1400 A | 2000 A | 1700 A | 930 A | ND |
| Benzo(a)anthracene | 1300 A | 2700 A | 4800 A | 930 A | ND |
| Benzo(a)pyrene | 1900 HA | 2800 HA | 5200 HA | 1000 HA | ND |
| Benzo(b)fluoranthene | 2400 HA | 3100 HA | 4800 HA | 950 HA | ND |
| Benzo(g,h,i)perylene | 1600 HA | 1800 HA | 2800 HA | 530 HA | ND |
| Benzo(k)fluoranthene | 1000 HA | 1100 HA | 2100 HA | 370 HA | ND |
| Chrysene | 1300 HA | 1700 HA | 2800 HA | 560 HA | ND |
| C1-Benz(a)anthracenes/Chrysenes | 960 A | 2700 A | 4800 A | 940 A | ND |
| C1-Fluoranthenes/Pyrenes | 1300 A | 3600 A | 6300 A | 1400 A | ND |
| C1-Fluorenes | 310 A | 480 A | 980 A | 210 A | ND |
| C1-Naphthalene | 66 A A | 120 A | 250 A | 23 A A | ND |
| C1-Phenanthrenes/Anthracenes | 850 A | 2600 A | 4500 A | 920 A | ND |
| C2-Benz(a)anthracenes/Chrysene | ND | 1900 A | 390 A | 170 A | ND |
| C2-Fluorenes | 420 A | 740 A | 980 A | 170 A | ND |
| C2-Naphthalene | 380 A | 450 A | 560 A | 110 A | ND |
| C2-Phenanthrenes/Anthracenes | 1100 A | 3300 A | 4400 A | 860 A | 24 A |
| C3-Benz(a)anthracenes/Chrysenes | ND | ND | ND | ND | ND |
| C3-Fluorenes | 640 A | ND | 230 A | 74 A | ND |
| C3-Naphthalene | 680 A | 990 A | 1100 A | 190 A | ND |
| C3-Phenanthrenes/Anthracenes | 1000 A | 4300 A | 3800 A | 530 A | 27 A |
| C4-Benz(a)anthracenes/Chrysenes | ND | ND | ND | ND | ND |
| C4-Naphthalene | 530 A | 870 A | 710 A | 240 A | ND |
| C4-Phenanthrenes/Anthracenes | 430 A | 1900 A | 2200 A | 180 A | ND |
| Chrysene | 1800 A | 2700 A | 4700 A | 950 A | ND |
| Dibenz(a,h)anthracene | 280 HA | 380 HA | 640 HA | 110 HA | ND |
| Fluoranthene | 3300 A | 3700 A | 6000 A | 1300 A | ND |
| Fluorene | ND | 440 A | 830 A | 92 A A | ND |
| Indeno(1,2,3-cd)pyrene | 1300 HA | 1500 HA | 2400 HA | 420 HA | ND |
| Naphthalene | 61 A | 180 A | 250 A | 32 A | ND |
| Perylene | 630 HA | 740 HA | 1200 HA | 270 HA | ND |
| Phenanthrene | 1400 A | 1900 A | 4300 A | 780 A | ND |
| Pyrene | 3200 A | 4600 A | 7100 HA | 1900 A | ND |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | ND | ND | ND | ND | ND |
| Total Dioxin TEQ (Mammal) | 4.08 | 5.37 | 2.76 | 0.107 | 0.117 |

Figure 5a
Figure 5b
Figure 5c
Sediment Sample Exceedances - PAHs & Dioxin/Furans McLouth Steel Corp Superfund Site Trenton, Wayne County, Michigan



0 400 800 Feet
NAD 1983 StatePlane Michigan South FIPS 2113 Feet

- Sediment Sample Collection Status**
- Surface & Subsurface Samples
 - Surface Sample Only
 - Not Sampled - Negligible Sediment Present
 - Sediment Trap Deployed/Retrieved - Negligible Sediment Present

- Former McLouth Steel Corp. Site
 - RTRR Property Site
 - Wayne County Parcels
- * Location was relocated based on existing conditions



Notes:
 A - Unvalidated Result
 H - Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
 J - The identification of the analyte is acceptable; the reported value is an estimation.
 Sed PAL - Sediment Project Action Limit
 pg/kg - picograms per kilogram
 µg/kg - micrograms per kilogram
 ft bss - feet below sediment surface
BOLD - PAL Exceeded
 ND - Not Detected

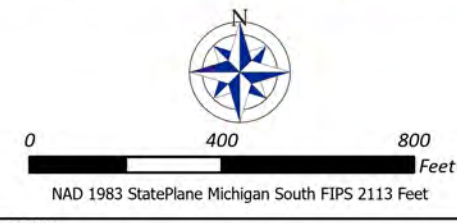
| Analyte | Sed PAL |
|-------------------------------------|---------|
| Acenaphthene | 6.71 |
| Acenaphthylene | 5.87 |
| Anthracene | 57.2 |
| Benz(a)anthracene | 108 |
| C1-Benzanthracene/chrysenes | 1,000 |
| C2-Benzanthracene/chrysenes | 1000 |
| C3-Benzanthracene/chrysenes | 1000 |
| C4-Benzanthracene/chrysenes | 1000 |
| Benzo(a)pyrene | 110 |
| Benzo(b)fluoranthene | 1100 |
| Benzo(e)pyrene | 1000 |
| Benzo(g,h,i)perylene | 170 |
| Benzo(k)fluoranthene | 240 |
| Chrysene | 166 |
| Dibenz(a,h)anthracene | 33 |
| Fluoranthene | 423 |
| C1-Fluoranthene/pyrenes | 1000 |
| Fluorene | 77.4 |
| C1-Fluorenes | 600 |
| C2-Fluorenes | 600 |
| C3-Fluorenes | 600 |
| Indeno(1,2,3-cd)pyrene | 200 |
| Naphthalene | 176 |
| C1-Naphthalenes | 600 |
| C2-Naphthalenes | 600 |
| C3-Naphthalenes | 600 |
| C4-Naphthalenes | 600 |
| Perylene | 1000 |
| Phenanthrene | 204 |
| C1-Phenanthrene/anthracenes | 600 |
| C2-Phenanthrene/anthracenes | 600 |
| C3-Phenanthrene/anthracenes | 600 |
| C4-Phenanthrene/anthracenes | 600 |
| Pyrene | 195 |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 0.12 |
| Total Dioxin TEQ (Mammal) | 0.12 |

Location: MSTC23-SD15
 Sample Depth (ft bss): S5 - 0.5

| Analyte | Result |
|-------------------------------------|--------|
| Acenaphthene | 120 A |
| Acenaphthylene | 62 A |
| Anthracene | 460 A |
| Benz(a)anthracene | 2800 A |
| Benzo(a)pyrene | 3600 A |
| Benzo(b)fluoranthene | 4800 A |
| Benzo(g,h,i)perylene | 1500 A |
| Benzo(k)fluoranthene | 2700 A |
| Chrysene | 2000 A |
| C1-Benz(a)anthracene/Chrysenes | 1400 A |
| C1-Fluoranthene/Pyrenes | 2000 A |
| C1-Fluorenes | 190 A |
| C1-Naphthalene | 21 A |
| C1-Phenanthrene/Anthracenes | 750 A |
| C2-Benz(a)anthracene/Chrysenes | 300 A |
| C2-Fluorenes | 76 A |
| C2-Naphthalene | 27 A |
| C2-Phenanthrene/Anthracenes | 425 A |
| C3-Benz(a)anthracene/Chrysenes | ND |
| C3-Fluorenes | 280 A |
| C3-Naphthalene | 78 A |
| C3-Phenanthrene/Anthracenes | 280 A |
| C4-Benz(a)anthracene/Chrysenes | 250 A |
| C4-Naphthalene | 180 A |
| C4-Phenanthrene/Anthracenes | 690 A |
| Chrysene | 8000 A |
| Dibenz(a,h)anthracene | 540 A |
| Fluoranthene | 6500 A |
| Fluorene | 160 A |
| Indeno(1,2,3-cd)pyrene | 1400 A |
| Naphthalene | 55 A |
| Perylene | 880 A |
| Phenanthrene | 2500 A |
| Pyrene | 6200 A |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | ND |
| Total Dioxin TEQ (Mammal) | 16.0 |

Location: MSTC23-SD18
 Sample Depth (ft bss): S5 - 0.5, 9 - 1, 1 - 2

| Analyte | Result | Result | Result |
|-------------------------------------|---------|---------|---------|
| Acenaphthene | ND | 460 A | 540 A |
| Acenaphthylene | ND | 610 A | 810 A |
| Anthracene | 1500 A | 3900 A | 1300 A |
| Benz(a)anthracene | 3700 A | 3700 A | 4900 A |
| Benzo(a)pyrene | 3900 HA | 4000 HA | 5500 HA |
| Benzo(b)fluoranthene | 2300 HA | 4400 HA | 5800 HA |
| Benzo(g,h,i)perylene | 2500 HA | 2400 HA | 3400 HA |
| Benzo(k)fluoranthene | 1800 HA | 1600 HA | 2700 HA |
| Chrysene | 2400 HA | 2500 HA | 3200 HA |
| C1-Benz(a)anthracene/Chrysenes | 3800 A | 4600 A | 4400 A |
| C1-Fluoranthene/Pyrenes | 5100 A | 7600 A | 5600 A |
| C1-Fluorenes | 970 A | 1400 A | 600 A |
| C1-Naphthalene | 490 A | 510 A | 400 A |
| C1-Phenanthrene/Anthracenes | 4500 A | 5700 A | 2800 A |
| C2-Benz(a)anthracene/Chrysenes | ND | 1800 A | 1700 A |
| C2-Fluorenes | 2380 A | 1800 A | 880 A |
| C2-Naphthalene | 1200 A | 1300 A | 710 A |
| C2-Phenanthrene/Anthracenes | 6200 A | 8200 A | 4800 A |
| C3-Benz(a)anthracene/Chrysenes | ND | ND | ND |
| C3-Fluorenes | 8400 A | 2500 A | ND |
| C3-Naphthalene | 2200 A | 2500 A | 1200 A |
| C3-Phenanthrene/Anthracenes | 8200 A | 8500 A | 5700 A |
| C4-Benz(a)anthracene/Chrysenes | ND | ND | ND |
| C4-Naphthalene | 1400 A | 1800 A | 950 A |
| C4-Phenanthrene/Anthracenes | 5100 A | 7900 A | 5300 A |
| Chrysene | 4000 A | 4200 A | 5000 A |
| Dibenz(a,h)anthracene | 520 HA | 550 HA | 830 HA |
| Fluoranthene | 6100 A | 5800 A | 6500 A |
| Fluorene | 1400 A | 1000 A | 810 A |
| Indeno(1,2,3-cd)pyrene | 2100 HA | 2000 HA | 3200 HA |
| Naphthalene | 420 A | 370 A | 880 A |
| Perylene | ND | ND | 1300 HA |
| Phenanthrene | 4200 A | 3800 A | 1300 A |
| Pyrene | 7000 A | 7200 A | 7000 A |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | ND | ND | ND |
| Total Dioxin TEQ (Mammal) | 19.6 | 97.3 | 33.6 |



- Sediment Sample Collection Status**
- Surface & Subsurface Samples
 - Surface Sample Only
 - Not Sampled - Negligible Sediment Present
 - Sediment Trap Deployed/Retrieved - Negligible Sediment Present
 - Underwater Utility Crossing
 - No Dig Zone (25' Buffer)
 - Former McLouth Steel Corp. Site
 - RTRR Property Site
 - Wayne County Parcels

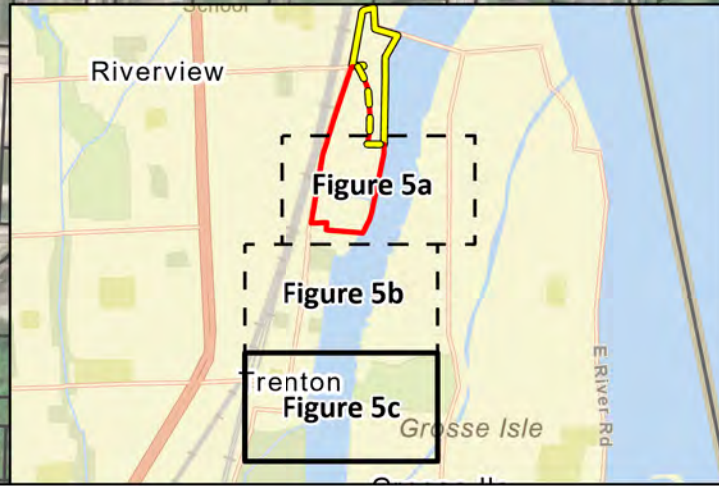


Figure 5c
 Sediment Sample Exceedances - PAHs & Dioxin/Furans
 McLouth Steel Corp Superfund Site
 Trenton, Wayne County, Michigan

Attachment A

Field Documentation (Boring Logs and Equipment Calibration)

McLouth Steel Corp. Superfund Site
GENERAL EQUIPMENT CALIBRATION LOG

Instrument (make/model/serial #): Horiba U-52

Manufacturer: Horiba/YSI

Rental Company: Pine

Upon receipt, all parts are included and this instrument is in working order: *Judy Mause* 10/16/23
(signature/date)

| Calibration Date | Initial Setting | Standard/ Gas Used (Concentration) | Lot Control No. Expiration Date | Adjustments Made | Final Reading | Comments Pass/Fail | Signature |
|------------------|-----------------|--|------------------------------------|------------------|-----------------------|-----------------------|-----------|
| 10/16/23 | — | auto cal 4.0/4.49/0.0 | 24001111 05/31/24 | none | 3.97 pH 4.47/0.0 | pass | <i>JM</i> |
| 10 | | auto cal 4.0/4.49 | 24001111 05/31/24 | none | 4.00 pH 4.49 mS/cm | pass | <i>JM</i> |
| 10/16/23 | — | auto cal 4.0/4.49 | 24001111 05/31/24 | none | 3.96 pH 4.43 mS/cm | Pass | <i>JM</i> |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems .MultiRAE + (4 gas + PID)

| Calibration Completed By | Date | Rental Company | Rental Company Number | Instrument Serial Number | Time Instrument On ¹ | Warm Up 5 to 10 Minutes ² |
|--------------------------|----------|----------------|-----------------------|--------------------------|---------------------------------|--------------------------------------|
| J. Wagenmaker | 10/14/23 | Pine | 214159 | 542-602754 | 0700 | Yes |

| Calibration Gas | Manufacturer | Lot No./Expiration Date | Concentration(s) |
|-----------------|--------------|-------------------------|---|
| ISOBUTYLENE | Pine | 304-402566116-1 | CO: / H ₂ S: / LEL: / O ₂ : / |
| | | 10/18/2026 | Isobutylene: 100.0ppm |

| Fresh Air Calibration | Carbon Monoxide (CO) Reading | VOC ³ Reading (zero) | H ₂ S Reading (zero) | LEL Reading (zero) | Oxygen (O ₂) |
|-------------------------------|------------------------------|---------------------------------|---------------------------------|--------------------|--------------------------|
| Expected Reading ⁴ | Zero | Zero | Zero | Zero | 20.9% |
| Actual Reading | / | 0.0 | / | / | / |

| Multiple Sensor Calibration | CO Reading | H ₂ S Reading | LEL Reading | O ₂ Reading | VOC Sensor Calibration | VOC Reading |
|-------------------------------|------------|--------------------------|-------------|------------------------|------------------------|-------------|
| Expected Reading ⁵ | / | / | / | / | Expected Reading | 100.0ppm |
| Actual Reading | / | / | / | / | Actual Reading | 99.6ppm |

Instrument OK? YES (Calibration Completed) NO (Problem with instrument, detail in comments)

| Calibration Check ⁶ | Completed (Circle one): | YES | NO |
|--------------------------------|-----------------------------|---------------------------|---|
| Time: | Date: | Calibration Completed By: | |
| Calibration Gas | Same as Above (Circle one)? | YES | NO (IF NO COMPLETE INFORMATION BELOW) |
| | Manufacturer | Lot No./Expiration Date | Concentration(s) |
| | | | CO: H ₂ S: LEL: O ₂ : |
| | | | Isobutylene: |

¹ Note time instrument is turned on for initial warm up

² While instrument is warming up, make sure inlet tubing is connected to a hydrophobic filter and fill one Tedlar bag with isobutylene and one with four gas mix

³ VOC - volatile organic compounds, H₂S - hydrogen sulfide, LEL - lower explosive limit

⁴ Instruments should read zero after fresh air calibration is complete, write down actual readings below headings

⁵ Write concentration from calibration gas on this line

⁶ Complete at the end of the day

McLouth Steel Corp Superfund Site
 Instrument Calibration Log
 RAE Systems MultiRAE + (4 gas + PID)

| Calibration Completed By | Date | Rental Company | Rental Company Number | Instrument Serial Number | Time Instrument On ¹ | Warm Up 5 to 10 Minutes ² |
|--------------------------|----------|----------------|-----------------------|--------------------------|---------------------------------|--------------------------------------|
| J. Wenzel | 10/18/23 | Pine | 214159 | 592-602754 | 0700 | yes |

| Calibration Gas | Manufacturer | Lot No./Expiration Date | Concentration(s) |
|-----------------|--------------|-------------------------------|---|
| ISOBUTYLENE | Pine | 301-402556116-1 10/18/2026 | CO: / H ₂ S: / LEL: / O ₂ / Isobutylene: 100.0 ppm |

| Fresh Air Calibration | Carbon Monoxide (CO) Reading | VOC ³ Reading (zero) | H ₂ S Reading (zero) | LEL Reading (zero) | Oxygen (O ₂) |
|-------------------------------|------------------------------|---------------------------------|---------------------------------|--------------------|--------------------------|
| Expected Reading ⁴ | Zero | Zero | Zero | Zero | 20.9% |
| Actual Reading | / | 0.0 | / | / | / |

| Multiple Sensor Calibration | CO Reading | H ₂ S Reading | LEL Reading | O ₂ Reading | VOC Sensor Calibration | VOC Reading |
|-------------------------------|------------|--------------------------|-------------|------------------------|------------------------|-------------|
| Expected Reading ⁵ | / | / | / | / | Expected Reading | 100.0 ppm |
| Actual Reading | / | / | / | / | Actual Reading | 99.1 ppm |

Instrument OK? YES (Calibration Completed) NO (Problem with instrument, detail in comments)

| | | | | |
|--------------------------------|-----------------------------|---------------------------|------------------|---------------------------------------|
| Calibration Check ⁶ | Completed (Circle one): | | YES | NO |
| Time: | Date: | Calibration Completed By: | | |
| Calibration Gas | Same as Above (Circle one)? | | YES | NO (IF NO COMPLETE INFORMATION BELOW) |
| | Manufacturer | Lot No./Expiration Date | Concentration(s) | |
| | | | CO: | H ₂ S: |
| | | | LEL: | O ₂ : |
| | | | Isobutylene: | |

¹ Note time instrument is turned on for initial warm up

² While instrument is warming up, make sure inlet tubing is connected to a hydrophobic filter and fill one Tedlar bag with isobutylene and one with four gas mix

³ VOC - volatile organic compounds, H₂S - hydrogen sulfide, LEL - lower explosive limit

⁴ Instruments should read zero after fresh air calibration is complete, write down actual readings below headings

⁵ Write concentration from calibration gas on this line

⁶ Complete at the end of the day

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems MultiRAE + (4 gas + PID)

| | | | | |
|------------------------------------|-------------------|------|------------------|------|
| Calibration Check Readings: | | | | |
| CO: | H ₂ S: | LEL: | O ₂ : | VOC: |

Comments/Corrective Action: _____

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems MultiRAE + (4 gas + PID)

| Calibration Completed By | Date | Rental Company | Rental Company Number | Instrument Serial Number | Time Instrument On ¹ | Warm Up 5 to 10 Minutes ² |
|--------------------------|------------|----------------|-----------------------|--------------------------|---------------------------------|--------------------------------------|
| J. Vangermeule | 10/18/2023 | Pire | 21455 | 542-602834 | 0700 | yes |

| Calibration Gas | Manufacturer | Lot No./Expiration Date | Concentration(s) |
|-----------------|--------------|-------------------------|---|
| ISOBUTYLENE | Pire | 304-402556/16-1 | CO: / H ₂ S: / LEL: / O ₂ : / |
| | | 10/18/2026 | Isobutylene: 100.0 ppm |

| Fresh Air Calibration | Carbon Monoxide (CO) Reading | VOC ³ Reading (zero) | H ₂ S Reading (zero) | LEL Reading (zero) | Oxygen (O ₂) |
|-------------------------------|------------------------------|---------------------------------|---------------------------------|--------------------|--------------------------|
| Expected Reading ⁴ | Zero | Zero | Zero | Zero | 20.9% |
| Actual Reading | / | 0.0 | / | / | / |

| Multiple Sensor Calibration | CO Reading | H ₂ S Reading | LEL Reading | O ₂ Reading | VOC Sensor Calibration | VOC Reading |
|-------------------------------|------------|--------------------------|-------------|------------------------|------------------------|-------------|
| Expected Reading ⁵ | / | / | / | / | Expected Reading | 100.0 ppm |
| Actual Reading | / | / | / | / | Actual Reading | 99.7 ppm |

Instrument OK? YES (Calibration Completed) NO (Problem with instrument, detail in comments)

| | | | |
|--------------------------------|-----------------------------|---------------------------|---|
| Calibration Check ⁶ | Completed (Circle one): | YES | NO |
| Time: | Date: | Calibration Completed By: | |
| Calibration Gas | Same as Above (Circle one)? | YES | NO (IF NO COMPLETE INFORMATION BELOW) |
| | Manufacturer | Lot No./Expiration Date | Concentration(s) |
| | | | CO: H ₂ S: LEL: O ₂ : |
| | | | Isobutylene: |

¹ Note time instrument is turned on for initial warm up

² While instrument is warming up, make sure inlet tubing is connected to a hydrophobic filter and fill one Tedlar bag with isobutylene and one with four gas mix

³ VOC - volatile organic compounds, H₂S - hydrogen sulfide, LEL - lower explosive limit

⁴ Instruments should read zero after fresh air calibration is complete, write down actual readings below headings

⁵ Write concentration from calibration gas on this line

⁶ Complete at the end of the day

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems .MultiRAE + (4 gas + PID)

| | | | | |
|------------------------------------|-------------------|------|------------------|------|
| Calibration Check Readings: | | | | |
| CO: | H ₂ S: | LEL: | O ₂ : | VOC: |

Comments/Corrective Action: _____

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems MultiRAE + (4 gas + PID)

| Calibration Completed By | Date | Rental Company | Rental Company Number | Instrument Serial Number | Time Instrument On ¹ | Warm Up 5 to 10 Minutes ² |
|--------------------------|------------|----------------|-----------------------|--------------------------|---------------------------------|--------------------------------------|
| J. Weyenmayer | 10/17/2023 | Pire | 304 219155 | 592-602834 | 0700 | Yes |

| Calibration Gas | Manufacturer | Lot No./Expiration Date | Concentration(s) |
|-----------------|--------------|-------------------------|---|
| ISO BUTYLENE | Pire | 304-902556116-1 | CO: / H ₂ S: / LEL: / O ₂ / |
| | | 10/18/2023 | Isobutylene: 100.0 ppm |

| Fresh Air Calibration | Carbon Monoxide (CO) Reading | VOC ³ Reading (zero) | H ₂ S Reading (zero) | LEL Reading (zero) | Oxygen (O ₂) |
|-------------------------------|------------------------------|---------------------------------|---------------------------------|--------------------|--------------------------|
| Expected Reading ⁴ | Zero | Zero | Zero | Zero | 20.9% |
| Actual Reading | / | 0.0 | / | / | / |

| Multiple Sensor Calibration | CO Reading | H ₂ S Reading | LEL Reading | O ₂ Reading | VOC Sensor Calibration | VOC Reading |
|-------------------------------|------------|--------------------------|-------------|------------------------|------------------------|-------------|
| Expected Reading ⁵ | / | / | / | / | Expected Reading | 100.0 ppm |
| Actual Reading | / | / | / | / | Actual Reading | 100.0 ppm |

Instrument OK? YES (Calibration Completed) NO (Problem with instrument, detail in comments)

| Calibration Check ⁶ | Completed (Circle one): | YES | NO |
|--------------------------------|-----------------------------|---------------------------|---|
| Time: | Date: | Calibration Completed By: | |
| Calibration Gas | Same as Above (Circle one)? | YES | NO (IF NO COMPLETE INFORMATION BELOW) |
| | Manufacturer | Lot No./Expiration Date | Concentration(s) |
| | | | CO: H ₂ S: LEL: O ₂ |
| | | | Isobutylene: |

¹ Note time instrument is turned on for initial warm up

² While instrument is warming up, make sure inlet tubing is connected to a hydrophobic filter and fill one Tedlar bag with isobutylene and one with four gas mix

³ VOC - volatile organic compounds, H₂S - hydrogen sulfide, LEL - lower explosive limit

⁴ Instruments should read zero after fresh air calibration is complete, write down actual readings below headings

⁵ Write concentration from calibration gas on this line

⁶ Complete at the end of the day

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems .MultiRAE + (4 gas + PID)

| | | | | |
|------------------------------------|-------------------|------|------------------|------|
| Calibration Check Readings: | | | | |
| CO: | H ₂ S: | LEL: | O ₂ : | VOC: |

Comments/Corrective Action: _____

McLouth Steel Corp Superfund Site
Instrument Calibration Log
 RAE Systems MultiRAE + (4 gas + PID)

| Calibration Completed By | Date | Rental Company | Rental Company Number | Instrument Serial Number | Time Instrument On ¹ | Warm Up 5 to 10 Minutes ² |
|--------------------------|----------|----------------|-----------------------|--------------------------|---------------------------------|--------------------------------------|
| J. Wong | 10/17/23 | 24454 Pinc | 59214159 | 592-602754 | 0709 | Yes |

| Calibration Gas | Manufacturer | Lot No./Expiration Date | Concentration(s) |
|-----------------|--------------|-------------------------|---|
| ISOBUTYLENE | Pinc | 304-402556116-1 | CO: / H ₂ S: / LEL: / O ₂ / |
| | | 10/18/2026 | Isobutylene: 100.0 |

| Fresh Air Calibration | Carbon Monoxide (CO) Reading | VOC ³ Reading (zero) | H ₂ S Reading (zero) | LEL Reading (zero) | Oxygen (O ₂) |
|-------------------------------|------------------------------|---------------------------------|---------------------------------|--------------------|--------------------------|
| Expected Reading ⁴ | Zero | Zero | Zero | Zero | 20.9% |
| Actual Reading | / | 0.0 | / | / | / |

| Multiple Sensor Calibration | CO Reading | H ₂ S Reading | LEL Reading | O ₂ Reading | VOC Sensor Calibration | VOC Reading |
|-------------------------------|------------|--------------------------|-------------|------------------------|------------------------|-------------|
| Expected Reading ⁵ | / | / | / | / | Expected Reading | 100.0 ppm |
| Actual Reading | / | / | / | / | Actual Reading | 100.5 ppm |

Instrument OK? YES (Calibration Completed) NO (Problem with instrument, detail in comments)

| Calibration Check ⁶ | Completed (Circle one): | YES | NO |
|--------------------------------|-----------------------------|---------------------------|---|
| Time: | Date: | Calibration Completed By: | |
| Calibration Gas | Same as Above (Circle one)? | YES | NO (IF NO COMPLETE INFORMATION BELOW) |
| | Manufacturer | Lot No./Expiration Date | Concentration(s) |
| | | | CO: H ₂ S: LEL: O ₂ |
| | | | Isobutylene: |

¹ Note time instrument is turned on for initial warm up

² While instrument is warming up, make sure inlet tubing is connected to a hydrophobic filter and fill one Tedlar bag with isobutylene and one with four gas mix

³ VOC - volatile organic compounds, H₂S - hydrogen sulfide, LEL - lower explosive limit

⁴ Instruments should read zero after fresh air calibration is complete, write down actual readings below headings

⁵ Write concentration from calibration gas on this line

⁶ Complete at the end of the day

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems .MultiRAE + (4 gas + PID)

| | | | | |
|-----------------------------|-------------------|------|------------------|------|
| Calibration Check Readings: | | | | |
| CO: | H ₂ S: | LEL: | O ₂ : | VOC: |

Comments/Corrective Action: _____

McLouth Steel Corp Superfund Site
Instrument Calibration Log
 RAE Systems MultiRAE + (4 gas + PID)

| Calibration Completed By | Date | Rental Company | Rental Company Number | Instrument Serial Number | Time Instrument On ¹ | Warm Up 5 to 10 Minutes ² |
|--------------------------|----------|----------------|-----------------------|--------------------------|---------------------------------|--------------------------------------|
| Elujan Hull | 10/16/23 | Pine | 214155 | 5 | | |

| Calibration Gas | Manufacturer | Lot No./Expiration Date | Concentration(s) |
|-----------------|--------------|-------------------------------|---|
| Isobutylene | Pine | 304-402-55616-1 10/18/2026 | CO: / H ₂ S: / LEL: / O ₂ / Isobutylene: 100.0 ppm |

| Fresh Air Calibration | Carbon Monoxide (CO) Reading | VOC ³ Reading (zero) | H ₂ S Reading (zero) | LEL Reading (zero) | Oxygen (O ₂) |
|-------------------------------|------------------------------|---------------------------------|---------------------------------|--------------------|--------------------------|
| Expected Reading ⁴ | Zero | Zero | Zero | Zero | 20.9% |
| Actual Reading | / | 0.0 | / | / | / |

| Multiple Sensor Calibration | CO Reading | H ₂ S Reading | LEL Reading | O ₂ Reading | VOC Sensor Calibration | VOC Reading |
|-------------------------------|------------|--------------------------|-------------|------------------------|------------------------|-------------|
| Expected Reading ⁵ | / | / | / | / | Expected Reading | 100.0 ppm |
| Actual Reading | / | / | / | / | Actual Reading | 100.1 ppm |

Instrument OK? YES (Calibration Completed) NO (Problem with instrument, detail in comments)

| Calibration Check ⁶ | Completed (Circle one): | YES | NO |
|--------------------------------|-----------------------------|---------------------------|---|
| Time: | Date: | Calibration Completed By: | |
| Calibration Gas | Same as Above (Circle one)? | YES | NO (IF NO COMPLETE INFORMATION BELOW) |
| | Manufacturer | Lot No./Expiration Date | Concentration(s) |
| | | | CO: H ₂ S: LEL: O ₂ : |
| | | | Isobutylene: |

¹ Note time instrument is turned on for initial warm up
² While instrument is warming up, make sure inlet tubing is connected to a hydrophobic filter and fill one Tedlar bag with isobutylene and one with four gas mix
³ VOC - volatile organic compounds, H₂S - hydrogen sulfide, LEL - lower explosive limit
⁴ Instruments should read zero after fresh air calibration is complete, write down actual readings below headings
⁵ Write concentration from calibration gas on this line
⁶ Complete at the end of the day

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems MultiRAE + (4 gas + PID)

| | | | | |
|-----------------------------|-------------------|------|------------------|------|
| Calibration Check Readings: | | | | |
| CO: | H ₂ S: | LEL: | O ₂ : | VOC: |

Comments/Corrective Action:

McLouth Steel Corp Superfund Site
 Instrument Calibration Log
 RAE Systems MultiRAE + (4 gas + PID)

| Calibration Completed By | Date | Rental Company | Rental Company Number | Instrument Serial Number | Time Instrument On ¹ | Warm Up 5 to 10 Minutes ² |
|--------------------------|------------|----------------|-----------------------|--------------------------|---------------------------------|--------------------------------------|
| J. Weyerhues | 10/14/2023 | Pinc | 214169 | 592-602754 | yes 730 | yes |

| Calibration Gas | Manufacturer | Lot No./Expiration Date | Concentration(s) |
|-----------------|--------------|-------------------------|---|
| ISOBUTYLENE | Pinc | 301-402690404-1 | CO: / H ₂ S: / LEL: / O ₂ : / Isobutylene: 100.0 ppm |

| Fresh Air Calibration | Carbon Monoxide (CO) Reading | VOC ³ Reading (zero) | H ₂ S Reading (zero) | LEL Reading (zero) | Oxygen (O ₂) |
|-------------------------------|------------------------------|---------------------------------|---------------------------------|--------------------|--------------------------|
| Expected Reading ⁴ | Zero | Zero | Zero | Zero | 20.9% |
| Actual Reading | / | 0.0 | / | / | / |

| Multiple Sensor Calibration | CO Reading | H ₂ S Reading | LEL Reading | O ₂ Reading | VOC Sensor Calibration | VOC Reading |
|-------------------------------|------------|--------------------------|-------------|------------------------|------------------------|-------------|
| Expected Reading ⁵ | / | / | / | / | Expected Reading | 100.0 ppm |
| Actual Reading | / | / | / | / | Actual Reading | 100.0 ppm |

Instrument OK? YES (Calibration Completed) NO (Problem with instrument, detail in comments)

| Calibration Check ⁶ | Completed (Circle one): | YES | NO |
|--------------------------------|-----------------------------|---------------------------|---|
| Time: | Date: | Calibration Completed By: | |
| Calibration Gas | Same as Above (Circle one)? | YES | NO (IF NO COMPLETE INFORMATION BELOW) |
| | Manufacturer | Lot No./Expiration Date | Concentration(s) |
| | | | CO: H ₂ S: LEL: O ₂ : |
| | | | Isobutylene: |

¹ Note time instrument is turned on for initial warm up

² While instrument is warming up, make sure inlet tubing is connected to a hydrophobic filter and fill one Tedlar bag with isobutylene and one with four gas mix

³ VOC - volatile organic compounds, H₂S - hydrogen sulfide, LEL - lower explosive limit

⁴ Instruments should read zero after fresh air calibration is complete, write down actual readings below headings

⁵ Write concentration from calibration gas on this line

⁶ Complete at the end of the day

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems .MultiRAE + (4 gas + PID)

| | | | | |
|-----------------------------|-------------------|------|------------------|------|
| Calibration Check Readings: | | | | |
| CO: | H ₂ S: | LEL: | O ₂ : | VOC: |

Comments/Corrective Action: _____

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems MultiRAE + (4 gas + PID)

| Calibration Completed By | Date | Rental Company | Rental Company Number | Instrument Serial Number | Time Instrument On ¹ | Warm Up 5 to 10 Minutes ² |
|--------------------------|----------|----------------|-----------------------|--------------------------|---------------------------------|--------------------------------------|
| J. Wagenmunk | 10/11/23 | Pine | 214159 | 592-602754 | 0720 | Yes |

| Calibration Gas | Manufacturer | Lot No./Expiration Date | Concentration(s) |
|-----------------|--------------|-------------------------|---|
| ISOBUTYLENE | Pine | 304-402690404-1 | CO: / H ₂ S: / LEL: / O ₂ / Isobutylene: 100.0 ppm |

| Fresh Air Calibration | Carbon Monoxide (CO) Reading | VOC ³ Reading (zero) | H ₂ S Reading (zero) | LEL Reading (zero) | Oxygen (O ₂) |
|-------------------------------|------------------------------|---------------------------------|---------------------------------|--------------------|--------------------------|
| Expected Reading ⁴ | Zero | Zero | Zero | Zero | 20.9% |
| Actual Reading | / | 0.0 | / | / | / |

| Multiple Sensor Calibration | CO Reading | H ₂ S Reading | LEL Reading | O ₂ Reading | VOC Sensor Calibration | VOC Reading |
|-------------------------------|------------|--------------------------|-------------|------------------------|------------------------|-------------|
| Expected Reading ⁵ | / | / | / | / | Expected Reading | 100.0 ppm |
| Actual Reading | / | / | / | / | Actual Reading | 100.2 ppm |

Instrument OK? YES (Calibration Completed) NO (Problem with instrument, detail in comments)

| Calibration Check ⁶ | Completed (Circle one): | YES | NO |
|--------------------------------|-----------------------------|---------------------------|---|
| Time: | Date: | Calibration Completed By: | |
| Calibration Gas | Same as Above (Circle one)? | YES | NO (IF NO COMPLETE INFORMATION BELOW) |
| | Manufacturer | Lot No./Expiration Date | Concentration(s) |
| | | | CO: H ₂ S: LEL: O ₂ : |
| | | | Isobutylene: |

¹ Note time instrument is turned on for initial warm up

² While instrument is warming up, make sure inlet tubing is connected to a hydrophobic filter and fill one Tedlar bag with isobutylene and one with four gas mix

³ VOC - volatile organic compounds, H₂S - hydrogen sulfide, LEL - lower explosive limit

⁴ Instruments should read zero after fresh air calibration is complete, write down actual readings below headings

⁵ Write concentration from calibration gas on this line

⁶ Complete at the end of the day

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems .MultiRAE + (4 gas + PID)

| Calibration Check Readings: | | | | |
|-----------------------------|-------------------|------|------------------|------|
| CO: | H ₂ S: | LEL: | O ₂ : | VOC: |

Comments/Corrective Action: _____

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems MultiRAE + (4 gas + PID)

| Calibration Completed By | Date | Rental Company | Rental Company Number | Instrument Serial Number | Time Instrument On ¹ | Warm Up 5 to 10 Minutes ² |
|--------------------------|---------|----------------|-----------------------|--------------------------|---------------------------------|--------------------------------------|
| J. Wagemaker | 12/1/23 | Pine | 29919 | 592-00021 | 1300 | yes |

| Calibration Gas | Manufacturer | Lot No./Expiration Date | Concentration(s) |
|-----------------|--------------|-------------------------|---|
| ISOBUTYLENE | Pine | 304-402556116-1 | CO: / H ₂ S: / LEL: / O ₂ / |
| | | 10/18/2026 | Isobutylene: 1000 ppm |

| Fresh Air Calibration | Carbon Monoxide (CO) Reading | VOC ³ Reading (zero) | H ₂ S Reading (zero) | LEL Reading (zero) | Oxygen (O ₂) |
|-------------------------------|------------------------------|---------------------------------|---------------------------------|--------------------|--------------------------|
| Expected Reading ⁴ | Zero | Zero | Zero | Zero | 20.9% |
| Actual Reading | / | 0.0 | / | / | / |

| Multiple Sensor Calibration | CO Reading | H ₂ S Reading | LEL Reading | O ₂ Reading | VOC Sensor Calibration | VOC Reading |
|-------------------------------|------------|--------------------------|-------------|------------------------|------------------------|-------------|
| Expected Reading ⁵ | / | / | / | / | Expected Reading | 100.0 ppm |
| Actual Reading | / | / | / | / | Actual Reading | 100.0 |

Instrument OK? YES (Calibration Completed) NO (Problem with instrument, detail in comments)

| Calibration Check ⁶ | Completed (Circle one): | | YES | NO |
|--------------------------------|-----------------------------|---------------------------|---------------------------------------|-------------------|
| Time: | Date: | Calibration Completed By: | | |
| Calibration Gas | Same as Above (Circle one)? | YES | NO (IF NO COMPLETE INFORMATION BELOW) | |
| | Manufacturer | Lot No./Expiration Date | Concentration(s) | |
| | | | CO: | H ₂ S: |
| | | | LEL: | O ₂ : |
| | | | Isobutylene: | |

¹ Note time instrument is turned on for initial warm up

² While instrument is warming up, make sure inlet tubing is connected to a hydrophobic filter and fill one Tedlar bag with isobutylene and one with four gas mix

³ VOC - volatile organic compounds, H₂S - hydrogen sulfide, LEL - lower explosive limit

⁴ Instruments should read zero after fresh air calibration is complete, write down actual readings below headings

⁵ Write concentration from calibration gas on this line

⁶ Complete at the end of the day

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems .MultiRAE + (4 gas + PID)

| | | | | |
|------------------------------------|-------------------|------|------------------|------|
| Calibration Check Readings: | | | | |
| CO: | H ₂ S: | LEL: | O ₂ : | VOC: |

Comments/Corrective Action:

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems .MultiRAE + (4 gas + PID)

| Calibration Completed By | Date | Rental Company | Rental Company Number | Instrument Serial Number | Time Instrument On ¹ | Warm Up 5 to 10 Minutes ² |
|--------------------------|----------|----------------|-----------------------|--------------------------|---------------------------------|--------------------------------------|
| J. Wayne D. Kohan | 10/12/23 | Pine | 214154 | 592-602754 | 0710 | Yes |

| Calibration Gas | Manufacturer | Lot No./Expiration Date | Concentration(s) |
|-----------------|--------------|-------------------------|--|
| ISOBUTYLENE | Pine | 304-402640404-1 | CO: / H ₂ S: / LEL: / O ₂ / Isobutylene: 100.0ppm |

| Fresh Air Calibration | Carbon Monoxide (CO) Reading | VOC ³ Reading (zero) | H ₂ S Reading (zero) | LEL Reading (zero) | Oxygen (O ₂) |
|-------------------------------|------------------------------|---------------------------------|---------------------------------|--------------------|--------------------------|
| Expected Reading ⁴ | Zero | Zero | Zero | Zero | 20.9% |
| Actual Reading | / | 0.0 | / | / | / |

| Multiple Sensor Calibration | CO Reading | H ₂ S Reading | LEL Reading | O ₂ Reading | VOC Sensor Calibration | VOC Reading |
|-------------------------------|------------|--------------------------|-------------|------------------------|------------------------|-------------|
| Expected Reading ⁵ | / | / | / | / | Expected Reading | 100.0 |
| Actual Reading | / | / | / | / | Actual Reading | 98.7 |

Instrument OK? YES (Calibration Completed) NO (Problem with instrument, detail in comments)

| Calibration Check ⁶ | Completed (Circle one): | YES | NO |
|--------------------------------|-----------------------------|---------------------------|---|
| Time: | Date: | Calibration Completed By: | |
| Calibration Gas | Same as Above (Circle one)? | YES | NO (IF NO COMPLETE INFORMATION BELOW) |
| | Manufacturer | Lot No./Expiration Date | Concentration(s) |
| | | | CO: H ₂ S: LEL: O ₂ Isobutylene: |

¹ Note time instrument is turned on for initial warm up

² While instrument is warming up, make sure inlet tubing is connected to a hydrophobic filter and fill one Tedlar bag with isobutylene and one with four gas mix

³ VOC - volatile organic compounds, H₂S - hydrogen sulfide, LEL - lower explosive limit

⁴ Instruments should read zero after fresh air calibration is complete, write down actual readings below headings

⁵ Write concentration from calibration gas on this line

⁶ Complete at the end of the day

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems MultiRAE + (4 gas + PID)

| | | | | |
|------------------------------------|-------------------|------|------------------|------|
| Calibration Check Readings: | | | | |
| CO: | H ₂ S: | LEL: | O ₂ : | VOC: |

Comments/Corrective Action: _____

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems MultiRAE + (4 gas + PID)

| Calibration Completed By | Date | Rental Company | Rental Company Number | Instrument Serial Number | Time Instrument On ¹ | Warm Up 5 to 10 Minutes ² |
|--------------------------|------------|----------------|-----------------------|--------------------------|---------------------------------|--------------------------------------|
| S. W. Jernaker | 10/13/2023 | Pine | | | 1200 | Yes |

| Calibration Gas | Manufacturer | Lot No./Expiration Date | Concentration(s) |
|-----------------|--------------|-------------------------|---|
| ISOBUTYLENE | Pine | 304-402690 404-1 | CO: / H ₂ S: / LEL: / O ₂ / |
| | | 3/21/2027 | Isobutylene: 100.0 |

| Fresh Air Calibration | Carbon Monoxide (CO) Reading | VOC ³ Reading (zero) | H ₂ S Reading (zero) | LEL Reading (zero) | Oxygen (O ₂) |
|-------------------------------|------------------------------|---------------------------------|---------------------------------|--------------------|--------------------------|
| Expected Reading ⁴ | Zero | Zero | Zero | Zero | 20.9% |
| Actual Reading | / | 0.0 | / | / | / |

| Multiple Sensor Calibration | CO Reading | H ₂ S Reading | LEL Reading | O ₂ Reading | VOC Sensor Calibration | VOC Reading |
|-------------------------------|------------|--------------------------|-------------|------------------------|------------------------|-------------|
| Expected Reading ⁵ | / | / | / | / | Expected Reading | 100.0 ppm |
| Actual Reading | / | / | / | / | Actual Reading | 100.0 ppm |

Instrument OK? YES (Calibration Completed) NO (Problem with instrument, detail in comments)

| Calibration Check ⁶ | Completed (Circle one): | YES | NO |
|--------------------------------|-----------------------------|---------------------------|---|
| Time: | Date: | Calibration Completed By: | |
| Calibration Gas | Same as Above (Circle one)? | YES | NO (IF NO COMPLETE INFORMATION BELOW) |
| | Manufacturer | Lot No./Expiration Date | Concentration(s) |
| | | | CO: H ₂ S: LEL: O ₂ |
| | | | Isobutylene: |

¹ Note time instrument is turned on for initial warm up

² While instrument is warming up, make sure inlet tubing is connected to a hydrophobic filter and fill one Tedlar bag with isobutylene and one with four gas mix

³ VOC - volatile organic compounds, H₂S - hydrogen sulfide, LEL - lower explosive limit

⁴ Instruments should read zero after fresh air calibration is complete, write down actual readings below headings

⁵ Write concentration from calibration gas on this line

⁶ Complete at the end of the day

McLouth Steel Corp Superfund Site
Instrument Calibration Log
RAE Systems .MultiRAE + (4 gas + PID)

| | | | | |
|------------------------------------|-------------------|------|------------------|------|
| Calibration Check Readings: | | | | |
| CO: | H ₂ S: | LEL: | O ₂ : | VOC: |

Comments/Corrective Action: _____

McLouth Steel Corp. Superfund Site
GENERAL EQUIPMENT CALIBRATION LOG

Instrument (make/model/serial #): Horiba U-52

Manufacturer: Horiba

Rental Company: Rine

Upon receipt, all parts are included and this instrument is in working order: Jessy Masala 10/11/23
(signature/date)

| Calibration Date | Initial Setting | Standard/ Gas Used (Concentration) | Lot Control No. Expiration Date | Adjustments Made | Final Reading | Comments Pass/Fail | Signature |
|------------------|--------------------------|--|------------------------------------|------------------|---------------|-----------------------|--------------------|
| 10/11/23 | auto cal — | auto cal 4.0/4.49/0.0 | 24001111 5/31/24 | None | 3.97/4.49/0.0 | pass | <i>[Signature]</i> |
| 11/11 | | | | | | | |
| 10/11/23 | — | auto cal 4.0/4.49/0.0 | 24601111 5/31/2024 | none | 3.90/4.42/0.0 | pass | <i>[Signature]</i> |
| 10/12/23 | — | auto cal 4.0/4.49/0.0 | 24001111 5/31/2024 | none | 4.00/4.48/0.2 | pass | <i>[Signature]</i> |
| 10/12/23 | — | auto cal 4.0/4.49/0.0 | 24001111 5/31/2024 | none | 4.00/4.49/0.0 | pass | <i>[Signature]</i> |
| 10/13/23 | — | auto cal 4.0/4.49/0.0 | 24001111 5/31/2024 | none | 3.99/4.46/0.0 | pass | <i>[Signature]</i> |
| 10/13/23 | — | auto cal 4.0/4.49/0.0 | 24001111 5/31/2024 | none | 3.94/4.49/0.0 | pass | <i>[Signature]</i> |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

McLouth Steel Corp. Superfund Site
GENERAL EQUIPMENT CALIBRATION LOG

Instrument (make/model/serial #): Horiba U-52


Manufacturer: Horiba

Rental Company: Rive

Upon receipt, all parts are included and this instrument is in working order: Jacelyn Marsack 10/2/23;
(signature/date)

| Calibration Date | Initial Setting | Standard/ Gas Used (Concentration) | Lot Control No. Expiration Date | Adjustments Made | Final Reading | Comments Pass/Fail | Signature |
|------------------|-----------------|--|------------------------------------|------------------|------------------------|-----------------------|-----------|
| 10/2/23 | — | autocal 4.0 pH / 4.49 mS/cm | 24001111 5/31/24 | — | 4.01, 4.49 0.0 NTU | Pass | JM |
| 10/4/23 | — | autocal 4.0 / 4.49 / 0.0 | 24001111 5/31/24 | — | 3.94, 4.45 0.0 NTU | Pass | JM |
| 10/3/23 | — | autocal 4.0 / 4.49 / 0.0 | 24001111 5/31/2024 | None | 3.99, 4.52, 0.6 NTU | Pass | JM |
| 10/3/23 | — | autocal 4.0 / 4.49 / 0.0 | 20001111 5/31/2024 | None | 4.00, 4.51, 0.0 NTU | Pass | JM |
| 10/4/23 | — | autocal 4.0 / 4.49 / 0.0 | 24001111 5/31/2024 | None | 4.0, 4.49, 0.0 | Pass | JM |
| 10/4/23 | — | autocal 4.0 / 4.49 / 0.0 | 24001111 5/31/2024 | None | 4.0, 4.49, 0.0 | Pass | JM |
| 10/5/23 | — | Autocal 4.0 / 4.49 / 0.0 | 24001111 5/31/2024 | None | 3.97, 4.52, 0.0 | Pass | JM |
| 10/5/23 | — | Autocal 4.0 / 4.49 / 0.0 | 24001111 5/31/2024 | None | 3.99, 4.48, 0.0 | Pass | JM |
| 10/6/23 | — | autocal 4.0 / 4.49 / 0.0 | 24001111 5/31/24 | — | 3.97, 4.49, 0.2 | Pass | JM |
| 10/6/23 | — | autocal 4.0 / 4.49 / 0.0 | 24001111 5/31/24 | — | 3.98, 4.44, 0.3 | Pass | JM |
| 10/8/23 | — | auto Cal 4.0 / 4.49 / 0.0 | 24001111 5/31/24 | — | 4.00, 4.51, 0.0 | Pass | JM |
| 10/10/23 | — | Auto Cal 4.0 / 4.49 / 0.0 | 24001111 5/31/24 | — | 4.00, 4.50, 0.0 | Pass | JM |

| | | |
|---|---|---|
| PROJECT: McLouth Steel Corp. PROJECT NUMBER: 281860 | WATER DEPTH (FT): MUDLINE ELEVATION (FT): | LOGGED BY: Jason Wagenmaker ATTEMPT NO.: |
| CLIENT: LOCATION: Trenton, Michigan CONTRACTOR: EPA METHOD/CORE DIA. (IN): Vibracore / | VERTICAL DATUM (ft): NAVD88 DRIVE LENGTH (FT): 1.8 RECOVERY (FT)/(%): 1.8 / 100 NAPL PRESENT?: | NORTHING (ft): EASTING (ft): HORIZ. DATUM (CRD. SYS.) NAD 1983 (SP MI S) DATE AND TIME: 10-19-23 00:00 |

| RECOVERED LENGTH (FT) | ELEV. (ft) | GRAPHIC LOG | USCS SYMBOL | SEDIMENT DESCRIPTION (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, Additional Constituents, Sheen, Odor) | GRAVEL (%) | SAND (%) | FINES (%) | PID (PPM) | SAMPLE ID |
|-----------------------|------------|---|-------------|--|------------|----------|-----------|-----------|-----------|
| 1 | |  | ML | SILT. Very soft. Silt is lower plasticity, medium dilatancy, sludge like | 10 | 5 | 85 | 1.4 | |
| | | | | | | | | | |
| | | | ML | SILT. Very soft. Silt is lower plasticity, medium dilatancy, sludge like | 0 | 5 | 95 | 2.8 | |
| | | | | | | | | 3 | |
| 2 | | | CH | REFUSAL | | | | 3.2 | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |

STANDARD LOG: MCLOUTH SEDIMENT MCLOUTH.GPJ STANDARD ENVIRONMENTAL PROJECT.GDT 4/16/24 REV.



SEDIMENT BORING DRAFT LOG
MSTC23-SD02

PROJECT NO.

| | | |
|---|---|---|
| PROJECT: McLouth Steel Corp. PROJECT NUMBER: 281860 | WATER DEPTH (FT): MUDLINE ELEVATION (FT): | LOGGED BY: Jason Wagenmaker ATTEMPT NO.: |
| CLIENT: LOCATION: Trenton, Michigan CONTRACTOR: EPA METHOD/CORE DIA. (IN): Vibracore / | VERTICAL DATUM (ft): NAVD88 DRIVE LENGTH (FT): 2 RECOVERY (FT)/(%): 2 / 100 NAPL PRESENT?: | NORTHING (ft): EASTING (ft): HORIZ. DATUM (CRD. SYS.) NAD 1983 (SP MI S) DATE AND TIME: 10-18-23 00:00 |

| RECOVERED LENGTH (FT) | ELEV. (ft) | GRAPHIC LOG | USCS SYMBOL | SEDIMENT DESCRIPTION (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, Additional Constituents, Sheen, Odor) | GRAVEL (%) | SAND (%) | FINES (%) | PID (PPM) | SAMPLE ID |
|-----------------------|------------|-------------|-------------|--|------------|----------|-----------|-----------|-----------|
| 1 | | | ML | SILT. Very soft. Silt is lower plasticity, medium dilatancy. Core is very sludge like | 0 | 5 | 95 | | |
| 2 | | | CH | REFUSAL | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |

STANDARD LOG: MCLOUTH SEDIMENT MCLOUTH.GPJ STANDARD ENVIRONMENTAL PROJECT.GDT 4/16/24 REV.



SEDIMENT BORING DRAFT LOG
MSTC23-SD03

| | | |
|---|---|---|
| PROJECT: McLouth Steel Corp. PROJECT NUMBER: 281860 | WATER DEPTH (FT): MUDLINE ELEVATION (FT): | LOGGED BY: Jason Wagenmaker ATTEMPT NO.: |
| CLIENT: LOCATION: Trenton, Michigan CONTRACTOR: EPA METHOD/CORE DIA. (IN): Vibracore / | VERTICAL DATUM (ft): NAVD88 DRIVE LENGTH (FT): 9 RECOVERY (FT)/(%): 9 / 100 NAPL PRESENT?: | NORTHING (ft): EASTING (ft): HORIZ. DATUM (CRD. SYS.) NAD 1983 (SP MI S) DATE AND TIME: 10-18-23 00:00 |

| RECOVERED LENGTH (FT) | ELEV. (ft) | GRAPHIC LOG | USCS SYMBOL | SEDIMENT DESCRIPTION (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, Additional Constituents, Sheen, Odor) | GRAVEL (%) | SAND (%) | FINES (%) | PID (PPM) | SAMPLE ID |
|-----------------------|------------|-------------|-------------|--|--|----------|-----------|-----------|-----------|
| 1 | | | SM | SANDY SILT WITH TRACE CLAY. Very soft. Silt is low plasticity, medum dilantancy. Sand is poorly graded, very fine, round. Gravel on surface, 1/4"-1". Sludge like. ~4' layer of odorous low density, possible industrial product. Breaks apart on pressure, solid. | 5 | 20 | 75 | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | CH | NOTE: Sediment characteristics for 5 feet through 9 feet below sediment surface is not available for this boring location. | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | REFUSAL | | | | | |



STANDARD LOG: MCLOUTH SEDIMENT MCLOUTH.GPJ STANDARD ENVIRONMENTAL PROJECT.GDT 4/16/24 REV.



**SEDIMENT BORING DRAFT LOG
MSTC23-SD06**

PROJECT NO.

| | | |
|---|---|---|
| PROJECT: McLouth Steel Corp. PROJECT NUMBER: 281860 | WATER DEPTH (FT): MUDLINE ELEVATION (FT): | LOGGED BY: Jason Wagenmaker ATTEMPT NO.: |
| CLIENT: LOCATION: Trenton, Michigan CONTRACTOR: EPA METHOD/CORE DIA. (IN): Vibracore / | VERTICAL DATUM (ft): NAVD88 DRIVE LENGTH (FT): 2.5 RECOVERY (FT)/(%): 2.5 / 100 NAPL PRESENT?: | NORTHING (ft): EASTING (ft): HORIZ. DATUM (CRD. SYS.) NAD 1983 (SP MI S) DATE AND TIME: 10-17-23 00:00 |

| RECOVERED LENGTH (FT) | ELEV. (ft) | GRAPHIC LOG | USCS SYMBOL | SEDIMENT DESCRIPTION (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, Additional Constituents, Sheen, Odor) | GRAVEL (%) | SAND (%) | FINES (%) | PID (PPM) | SAMPLE ID |
|-----------------------|------------|---|-------------|--|------------|----------|-----------|-----------|-----------|
| 1 | |  | SM | SILTY SAND WITH CLAY. Loose. Sandy is poorly graded, very fine, round. Silt is low plasticity, medium dilatancy, clay is high plasticity, low dilatancy. | 0 | 60 | 40 | | |
| 2 | |  | SM | SILTY SAND. Loose. Sand is poorly graded, fine, silt. Silt is low plasticity, medium dilatancy | 0 | 70 | 30 | | |
| 3 | | | CH | REFUSAL | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |



STANDARD LOG: MCLOUTH SEDIMENT MCLOUTH.GPJ STANDARD ENVIRONMENTAL PROJECT.GDT 4/16/24 REV.



SEDIMENT BORING DRAFT LOG
MSTC23-SD08


PROJECT NO.

| | | |
|---|---|---|
| PROJECT: McLouth Steel Corp. PROJECT NUMBER: 281860 | WATER DEPTH (FT): MUDLINE ELEVATION (FT): | LOGGED BY: Jason Wagenmaker ATTEMPT NO.: |
| CLIENT: LOCATION: Trenton, Michigan CONTRACTOR: EPA METHOD/CORE DIA. (IN): Vibracore / | VERTICAL DATUM (ft): NAVD88 DRIVE LENGTH (FT): 2.8 RECOVERY (FT)/(%): 2.8 / 100 NAPL PRESENT?: | NORTHING (ft): EASTING (ft): HORIZ. DATUM (CRD. SYS.) NAD 1983 (SP MI S) DATE AND TIME: 10-13-23 00:00 |

| RECOVERED LENGTH (FT) | ELEV. (ft) | GRAPHIC LOG | USCS SYMBOL | SEDIMENT DESCRIPTION (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, Additional Constituents, Sheen, Odor) | GRAVEL (%) | SAND (%) | FINES (%) | PID (PPM) | SAMPLE ID |
|-----------------------|------------|---|-------------|--|------------|----------|-----------|-----------|-----------|
| 1 | |  | ML | SILT WITH TRACE CLAY. Soft. Silt is low plasticity, medium dilantancy | 0 | 5 | 90 | | |
| 2 | |  | CH | FAT CLAY WITH SAND. Soft. Clay is high plasticity, low dilantancy, sand is poorly graded, very fine, round | 5 | 15 | 80 | | |
| 3 | | | | REFUSAL | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |

STANDARD LOG: MCLOUTH SEDIMENT MCLOUTH.GPJ STANDARD ENVIRONMENTAL PROJECT.GDT 4/16/24 REV.

| | | |
|---|---|---|
| PROJECT: McLouth Steel Corp. PROJECT NUMBER: 281860 | WATER DEPTH (FT): MUDLINE ELEVATION (FT): | LOGGED BY: Jason Wagenmaker ATTEMPT NO.: |
| CLIENT: LOCATION: Trenton, Michigan CONTRACTOR: EPA METHOD/CORE DIA. (IN): Vibracore / | VERTICAL DATUM (ft): NAVD88 DRIVE LENGTH (FT): 1.4 RECOVERY (FT)/(%): 1.4 / 100 NAPL PRESENT?: | NORTHING (ft): EASTING (ft): HORIZ. DATUM (CRD. SYS.) NAD 1983 (SP MI S) DATE AND TIME: 10-13-23 00:00 |

| RECOVERED LENGTH (FT) | ELEV. (ft) | GRAPHIC LOG | USCS SYMBOL | SEDIMENT DESCRIPTION (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, Additional Constituents, Sheen, Odor) | GRAVEL (%) | SAND (%) | FINES (%) | PID (PPM) | SAMPLE ID |
|-----------------------|------------|---|-------------|---|------------|----------|-----------|-----------|-----------|
| 1 | |  | CH | SILTY CLAY. Very soft. Clay is high plasticity, silt is low plasticity, medium dilatancy. Sand is poorly graded, fine, subround to subangular. Gravel from surface fell inside casing to 2'. Sediments fell through and are lost, gravel is subangular to subround, poorly graded, 1/4"-1/8", shells found in gravel layer. | 5 | 10 | 85 | | |
| 2 | | | | REFUSAL | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |



STANDARD LOG: MCLOUTH SEDIMENT MCLOUTH.GPJ STANDARD ENVIRONMENTAL PROJECT.GDT 4/16/24 REV.



**SEDIMENT BORING DRAFT LOG
MSTC23-SD13**


PROJECT NO.

| | | |
|---|--|--|
| PROJECT: McLouth Steel Corp. PROJECT NUMBER: 281860 | WATER DEPTH (FT): MUDLINE ELEVATION (FT): | LOGGED BY: Jason Wagenmaker ATTEMPT NO.: |
| CLIENT: LOCATION: Trenton, Michigan CONTRACTOR: EPA METHOD/CORE DIA. (IN): Vibracore / | VERTICAL DATUM (ft): NAVD88 DRIVE LENGTH (FT): 2.6 RECOVERY (FT)/(%) : 2.6 / 100 NAPL PRESENT?: | NORTHING (ft): EASTING (ft): HORIZ. DATUM (CRD. SYS.)NAD 1983 (SP MI S) DATE AND TIME: 10-23-23 00:00 |

| RECOVERED LENGTH (FT) | ELEV. (ft) | GRAPHIC LOG | USCS SYMBOL | SEDIMENT DESCRIPTION (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, Additional Constituents, Sheen, Odor) | GRAVEL (%) | SAND (%) | FINES (%) | PID (PPM) | SAMPLE ID |
|-----------------------|------------|---|-------------|---|------------|----------|-----------|-----------|-----------|
| 1 | |  | CH | SILTY CLAY. Very soft. Clay is high plasticity, low dilatancy, silt is low plasticity, medium dilatancy. Tree debris and branches found in upper 2'. 3" rock on top of core | 5 | 5 | 90 | | |
| 2 | |  | CH | FAT CLAY WITH SILT. Stiff. Clay is high plasticity, low dilatancy | 0 | 0 | 100 | | |
| 3 | | | | REFUSAL | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |


STANDARD LOG: MCLOUTH SEDIMENT MCLOUTH.GPJ STANDARD ENVIRONMENTAL PROJECT.GDT 4/16/24 REV.

| | | |
|---|---|---|
| PROJECT: McLouth Steel Corp. PROJECT NUMBER: 281860 | WATER DEPTH (FT): MUDLINE ELEVATION (FT): | LOGGED BY: Jason Wagenmaker ATTEMPT NO.: |
| CLIENT: LOCATION: Trenton, Michigan CONTRACTOR: EPA METHOD/CORE DIA. (IN): Vibracore / | VERTICAL DATUM (ft): NAVD88 DRIVE LENGTH (FT): 0.5 RECOVERY (FT)/(%): 0.5 / 100 NAPL PRESENT?: | NORTHING (ft): EASTING (ft): HORIZ. DATUM (CRD. SYS.) NAD 1983 (SP MI S) DATE AND TIME: 10-11-23 00:00 |

| RECOVERED LENGTH (FT) | ELEV. (ft) | GRAPHIC LOG | USCS SYMBOL | SEDIMENT DESCRIPTION (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, Additional Constituents, Sheen, Odor) | GRAVEL (%) | SAND (%) | FINES (%) | PID (PPM) | SAMPLE ID |
|-----------------------|------------|---|-------------|--|------------|----------|-----------|-----------|-----------|
| 1 | |  | SM | SILTY SAND. Loose. Sand is poorly graded, fine to very fine, subround to subangular. Silt is low plasticity, medium dilatancy. | 5 | 65 | 30 | | |
| 2 | | | CH | REFUSAL | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |

STANDARD LOG: MCLOUTH SEDIMENT MCLOUTH.GPJ STANDARD ENVIRONMENTAL PROJECT.GDT 4/16/24 REV.

| | | |
|---|--|---|
| PROJECT: McLouth Steel Corp. PROJECT NUMBER: 281860 | WATER DEPTH (FT): MUDLINE ELEVATION (FT): | LOGGED BY: Jason Wagenmaker ATTEMPT NO.: |
| CLIENT: LOCATION: Trenton, Michigan CONTRACTOR: EPA METHOD/CORE DIA. (IN): Vibracore / | VERTICAL DATUM (ft): NAVD88 DRIVE LENGTH (FT): 2 RECOVERY (FT)/(%): 1.5 / 75 NAPL PRESENT?: | NORTHING (ft): EASTING (ft): HORIZ. DATUM (CRD. SYS.) NAD 1983 (SP MI S) DATE AND TIME: 10-11-23 00:00 |

| RECOVERED LENGTH (FT) | ELEV. (ft) | GRAPHIC LOG | USCS SYMBOL | SEDIMENT DESCRIPTION (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, Additional Constituents, Sheen, Odor) | GRAVEL (%) | SAND (%) | FINES (%) | PID (PPM) | SAMPLE ID |
|-----------------------|------------|---|-------------|--|------------|----------|-----------|-----------|-----------|
| 1 | |  | ML | SILT. Very soft. Silt is low plasticity, medium dilantancy | 5 | 5 | 90 | | |
| 2 | | | CH | REFUSAL | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |



STANDARD LOG: MCLOUTH SEDIMENT MCLOUTH.GPJ STANDARD ENVIRONMENTAL PROJECT.GDT 4/16/24 REV.



**SEDIMENT BORING DRAFT LOG
MSTC23-SD19**

PROJECT NO.

| | | |
|---|---|---|
| PROJECT: McLouth Steel Corp. PROJECT NUMBER: 281860 | WATER DEPTH (FT): MUDLINE ELEVATION (FT): | LOGGED BY: Jason Wagenmaker ATTEMPT NO.: |
| CLIENT: LOCATION: Trenton, Michigan CONTRACTOR: EPA METHOD/CORE DIA. (IN): Vibracore / | VERTICAL DATUM (ft): NAVD88 DRIVE LENGTH (FT): 2.2 RECOVERY (FT)/(%): 2.2 / 100 NAPL PRESENT?: | NORTHING (ft): EASTING (ft): HORIZ. DATUM (CRD. SYS.) NAD 1983 (SP MI S) DATE AND TIME: 10-16-23 00:00 |

| RECOVERED LENGTH (FT) | ELEV. (ft) | GRAPHIC LOG | USCS SYMBOL | SEDIMENT DESCRIPTION (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, Additional Constituents, Sheen, Odor) | GRAVEL (%) | SAND (%) | FINES (%) | PID (PPM) | SAMPLE ID |
|-----------------------|------------|---|-------------|---|------------|----------|-----------|-----------|-----------|
| 1 | |  | SM | SILTY SAND WITH TRACE CLAY. Loose. Sand is poorly graded, medium to fine, round to subround. Silt is low plasticity, medium dilatancy. Shell fragments from 0'-2.3' | 0 | 70 | 30 | | |
| 2 | |  | SM | SILTY SAND. Loose. Sand is poorly graded, medium course, subround to round, silt is low plasticity, medium dilatancy. Shell fragments from 0'-2.3' | 5 | 75 | 20 | | |
| 3 | | | CH | REFUSAL | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |

STANDARD LOG: MCLOUTH SEDIMENT MCLOUTH.GPJ STANDARD ENVIRONMENTAL PROJECT.GDT 4/16/24 REV.

| | | |
|---|---|---|
| PROJECT: McLouth Steel Corp. PROJECT NUMBER: 281860 | WATER DEPTH (FT): MUDLINE ELEVATION (FT): | LOGGED BY: Jason Wagenmaker ATTEMPT NO.: |
| CLIENT: LOCATION: Trenton, Michigan CONTRACTOR: EPA METHOD/CORE DIA. (IN): Vibracore / | VERTICAL DATUM (ft): NAVD88 DRIVE LENGTH (FT): 5.7 RECOVERY (FT)/(%): 5.7 / 100 NAPL PRESENT?: | NORTHING (ft): EASTING (ft): HORIZ. DATUM (CRD. SYS.) NAD 1983 (SP MI S) DATE AND TIME: 10-13-23 00:00 |

| RECOVERED LENGTH (FT) | ELEV. (ft) | GRAPHIC LOG | USCS SYMBOL | SEDIMENT DESCRIPTION (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, Additional Constituents, Sheen, Odor) | GRAVEL (%) | SAND (%) | FINES (%) | PID (PPM) | SAMPLE ID |
|-----------------------|------------|-------------|-------------|---|------------|----------|-----------|-----------|-----------|
| 1 | | | ML | SANDY SILT. Very soft. Silt is low plasticity, medium dilantancy, sand is poorly graded, very fine, round | 0 | 20 | 80 | | |
| 2 | | | ML | | | | | | |
| 3 | | | ML | SANDY SILT WITH CLAY. Soft. Silt is low plasticity, medium dilantancy, sand is poorly graded, very fine, round, clay is high plasticity, low dilantancy | 0 | 30 | 70 | | |
| 4 | | | ML | | | | | | |
| 5 | | | ML | | | | | | |
| 6 | | | CH | REFUSAL | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |

STANDARD LOG: MCLOUTH SEDIMENT MCLOUTH.GPJ STANDARD ENVIRONMENTAL PROJECT.GDT 4/16/24 REV.

| | | |
|---|---|---|
| PROJECT: McLouth Steel Corp. PROJECT NUMBER: 281860 | WATER DEPTH (FT): MUDLINE ELEVATION (FT): | LOGGED BY: Jason Wagenmaker ATTEMPT NO.: |
| CLIENT: LOCATION: Trenton, Michigan CONTRACTOR: EPA METHOD/CORE DIA. (IN): Vibracore / | VERTICAL DATUM (ft): NAVD88 DRIVE LENGTH (FT): 4.2 RECOVERY (FT)/(%): 4.2 / 100 NAPL PRESENT?: | NORTHING (ft): EASTING (ft): HORIZ. DATUM (CRD. SYS.) NAD 1983 (SP MI S) DATE AND TIME: 10-16-23 00:00 |

| RECOVERED LENGTH (FT) | ELEV. (ft) | GRAPHIC LOG | USCS SYMBOL | SEDIMENT DESCRIPTION (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, Additional Constituents, Sheen, Odor) | GRAVEL (%) | SAND (%) | FINES (%) | PID (PPM) | SAMPLE ID |
|-----------------------|------------|-------------|-------------|--|------------|----------|-----------|-----------|-----------|
| 1 | | | SM | SILTY SAND WITH TRACE CLAY. Loose. Sand is poorly graded, very fine, round, silt is low plasticity, medium dilatancy | 0 | 70 | 30 | | |
| 2 | | | SM | SILTY SAND WITH TRACE CLAY. Very soft. Sand is poorly graded, fine, round. Clay is high plasticity, low dilatancy. Increasing sand grain size from 1'-3' from fine grained to medium grained | 0 | 60 | 40 | | |
| 3 | | | SM | SILTY SAND. Loose. Sand is poorly graded, medium grained, round, silt is low plasticity, medium dilatancy. | 0 | 75 | 25 | | |
| 4 | | | CH | REFUSAL | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |

STANDARD LOG: MCLOUTH SEDIMENT MCLOUTH.GPJ STANDARD ENVIRONMENTAL PROJECT.GDT 4/16/24 REV.

Attachment B

Analytical Data Tables

Table A - VOCs Detection Results

| | | | | Location | MSTC23-SD01 | MSTC23-SD01 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD03 | MSTC23-SD03 |
|------------------------|---|-------------|---------|-----------------|--------------------|-----------------------|-----------------|-----------------|--------------------|-----------------------|-----------------|-----------------|
| | | | | Sample # | MSTC23-SD01-SS-0.5 | MSTC23-SD01-SS-0.5_ME | MSTC23-SD02-1.0 | MSTC23-SD02-2.0 | MSTC23-SD02-SS-0.5 | MSTC23-SD02-SS-0.5_ME | MSTC23-SD03-1.0 | MSTC23-SD03-2.0 |
| | | | | Start Depth | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| | | | | End Depth | 0.5 | 0.5 | 1 | 2 | 0.5 | 0.5 | 1 | 2 |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | N | N | N | N | N | N |
| | | | | Parent Sample # | | | | | | | | |
| | | | | Sample Date | 10/18/2023 | 10/18/2023 | 10/19/2023 | 10/19/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 001-Mclouth_VOC | 1,1,1-TRICHLOROETHANE | 71-55-6 | 213 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | 600 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 76-13-1 | 670000 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | 1,1,2-TRICHLOROETHANE | 79-00-5 | 150 | ug/kg | 0.68 BA | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | 1,1-DICHLOROETHANE | 75-34-3 | 0.575 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | 1,1-DICHLOROETHENE | 75-35-4 | 19.4 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROBENZENE | 87-61-6 | 113 | ug/kg | 7.6 UJ | 440 R | 12 UJ | 6.4 J+ | 7.5 UJ | 560 R | 5.7 J+ | 5.4 J+ |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROPROPANE | 96-18-4 | 5.1 | ug/kg | 7.6 UJ | 440 R | 12 UJ | 11 UJ | 7.5 UJ | 560 R | 11 UJ | 8.4 UJ |
| 001-Mclouth_VOC | 1,2,4-TRICHLOROBENZENE | 120-82-1 | 5062 | ug/kg | 7.6 UJ | 440 R | 12 UJ | 11 UJ | 7.5 UJ | 560 R | 11 UJ | 8.4 UJ |
| 001-Mclouth_VOC | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | 30000 | ug/kg | 7.6 UJ | 440 R | 23 J+ | 54 J+ | 3.9 J+ | 560 R | 27 J+ | 53 J+ |
| 001-Mclouth_VOC | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | 5.3 | ug/kg | 7.6 UJ | 440 R | 12 UJ | 11 UJ | 7.5 UJ | 560 R | 11 UJ | 8.4 UJ |
| 001-Mclouth_VOC | 1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE) | 106-93-4 | 36 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | 1,2-DICHLOROBENZENE | 95-50-1 | 294 | ug/kg | 7.6 UJ | 440 R | 1.6 J+ | 4.2 J+ | 7.5 UJ | 560 R | 2.4 J+ | 4 J+ |
| 001-Mclouth_VOC | 1,2-DICHLOROETHANE | 107-06-2 | 260 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | 1,2-DICHLOROPROPANE | 78-87-5 | 333 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 108-67-8 | 27000 | ug/kg | 7.6 UJ | 440 R | 11 J+ | 24 J+ | 1.8 J+ | 560 R | 12 J+ | 25 J+ |
| 001-Mclouth_VOC | 1,3-DICHLOROBENZENE | 541-73-1 | 1315 | ug/kg | 1.7 J+ | 440 R | 2.6 J+ | 11 UJ | 7.5 UJ | 560 R | 9.4 J+ | 3.9 J+ |
| 001-Mclouth_VOC | 1,4-DICHLOROBENZENE | 106-46-7 | 318 | ug/kg | 7.6 UJ | 440 R | 12 UJ | 1.8 J+ | 7.5 UJ | 560 R | 11 UJ | 1.6 J+ |
| 001-Mclouth_VOC | 2-HEXANONE | 591-78-6 | 58.2 | ug/kg | 15 UJ | 890 R | 25 U | 22 U | 15 UJ | 1100 R | 22 U | 17 U |
| 001-Mclouth_VOC | ACETONE | 67-64-1 | 9.9 | ug/kg | 71 J- | 890 R | 70 J | 60 J | 17 J+ | 1100 R | 99 J | 70 J |
| 001-Mclouth_VOC | BENZENE | 71-43-2 | 142 | ug/kg | 7.6 UJ | 440 R | 4.8 J | 9.7 J | 7.5 UJ | 560 R | 1.8 J | 9.2 |
| 001-Mclouth_VOC | BROMOCHLOROMETHANE | 74-97-5 | 15000 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | BROMODICHLOROMETHANE | 75-27-4 | 210 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | BROMOFORM | 75-25-2 | 492 | ug/kg | 7.6 UJ | 440 R | 12 UJ | 11 UJ | 7.5 UJ | 560 R | 11 UJ | 8.4 UJ |
| 001-Mclouth_VOC | BROMOMETHANE | 74-83-9 | 1.37 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| Approved Final Quality | CARBON DISULFIDE | 75-15-0 | 23.9 | ug/kg | 5.2 J- | 440 R | 4.2 J | 4.9 J | 7.5 UJ | 560 R | 6.8 J | 9.9 |
| 001-Mclouth_VOC | CARBON TETRACHLORIDE | 56-23-5 | 650 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | CHLOROBENZENE | 108-90-7 | 291 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 UJ | 7.5 UJ | 560 R | 11 UJ | 8.4 UJ |
| 001-Mclouth_VOC | CHLOROETHANE | 75-00-3 | 540000 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | CHLOROFORM | 67-66-3 | 121 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | CHLOROMETHANE | 74-87-3 | 11000 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| Approved Final Quality | CIS-1,2-DICHLOROETHYLENE | 156-59-2 | 432 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | 1.5 | | 7.6 R | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | CYCLOHEXANE | 110-82-7 | 650000 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 3.3 J |
| 001-Mclouth_VOC | DIBROMOCHLOROMETHANE | 124-48-1 | 198 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | DICHLORODIFLUOROMETHANE | 75-71-8 | 8700 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | ETHYLBENZENE | 100-41-4 | 175 | ug/kg | 7.6 UJ | 440 R | 12 U | 8.6 J | 7.5 UJ | 560 R | 11 U | 4.6 J |
| 001-Mclouth_VOC | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | 35 | ug/kg | 7.6 UJ | 440 R | 3 J+ | 5.5 J+ | 7.5 UJ | 560 R | 3.6 J+ | 6.3 J+ |
| 001-Mclouth_VOC | m,p-Xylene | 179601-23-1 | 433 | ug/kg | 7.6 UJ | 440 R | 10 J | 32 | 2.5 J+ | 560 R | 12 | 23 |
| 001-Mclouth_VOC | METHYL ACETATE | 79-20-9 | 7800000 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | METHYL ETHYL KETONE (2-BUTANONE) | 78-93-3 | 42.4 | ug/kg | 27 J- | 890 R | 28 | 25 | 16 J+ | 1100 R | 46 | 37 |
| 001-Mclouth_VOC | METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE) | 108-10-1 | 25.1 | ug/kg | 15 UJ | 890 R | 25 U | 22 U | 15 UJ | 1100 R | 22 U | 17 U |

Table A - VOCs Detection Results

| Location | | | | | MSTC23-SD01 | MSTC23-SD01 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD03 | MSTC23-SD03 |
|-----------------|--------------------------------|------------|---------|-------|--------------------|-----------------------|-----------------|-----------------|--------------------|-----------------------|-----------------|-----------------|
| Sample # | | | | | MSTC23-SD01-SS-0.5 | MSTC23-SD01-SS-0.5_ME | MSTC23-SD02-1.0 | MSTC23-SD02-2.0 | MSTC23-SD02-SS-0.5 | MSTC23-SD02-SS-0.5_ME | MSTC23-SD03-1.0 | MSTC23-SD03-2.0 |
| Start Depth | | | | | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| End Depth | | | | | 0.5 | 0.5 | 1 | 2 | 0.5 | 0.5 | 1 | 2 |
| Depth Unit | | | | | ft | ft | ft | ft | ft | ft | ft | ft |
| Sample Type | | | | | N | N | N | N | N | N | N | N |
| Parent Sample # | | | | | | | | | | | | |
| Sample Date | | | | | 10/18/2023 | 10/18/2023 | 10/19/2023 | 10/19/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 001-Mclouth_VOC | METHYLCYCLOHEXANE | 108-87-2 | | ug/kg | 2 J- | 440 R | 5.8 J | 11 | 7.5 UJ | 560 R | 8.5 J | 26 |
| 001-Mclouth_VOC | METHYLENE CHLORIDE | 75-09-2 | 159 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | O-XYLENE (1,2-DIMETHYLBENZENE) | 95-47-6 | 433 | ug/kg | 7.6 UJ | 440 R | 13 | 23 | 1.7 J+ | 560 R | 12 | 23 |
| 001-Mclouth_VOC | STYRENE | 100-42-5 | 254 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | TERT-BUTYL METHYL ETHER | 1634-04-4 | 304 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | TETRACHLOROETHENE (PCE) | 127-18-4 | 990 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | TOLUENE | 108-88-3 | 1220 | ug/kg | 7.6 UJ | 440 R | 12 U | 12 | 7.5 UJ | 560 R | 11 U | 2.7 J |
| 001-Mclouth_VOC | TRANS-1,2-DICHLOROETHENE | 156-60-5 | 654 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | 1.5 | ug/kg | 7.6 R | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | TRICHLOROETHENE (TCE) | 79-01-6 | 112 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | TRICHLOROFLUOROMETHANE | 75-69-4 | 2300000 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |
| 001-Mclouth_VOC | VINYL CHLORIDE | 75-01-4 | 59 | ug/kg | 7.6 UJ | 440 R | 12 U | 11 U | 7.5 UJ | 560 R | 11 U | 8.4 U |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

CAS # - Chemical Abstract Service Number

FD - Field duplicate

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

B - The target analyte was detected in the associated blank.

J - The identification of the analyte is acceptable; the reported value is an estimate

J+ - The result is an estimated quantity, but the results may be biased high

J- - The result is an estimated quantity, but the results may be biased low

R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U - Not detected

Table A - VOCs Detection Results

| | | | | Location | MSTC23-SD03 | MSTC23-SD05 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 |
|------------------------|---|-------------|---------|-----------------|--------------------|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | Sample # | MSTC23-SD03-SS-0.5 | MSTC23-SD05-SS-0.5 | MSTC23-SD06-1.0 | MSTC23-SD06-2.0 | MSTC23-SD06-3.0 | MSTC23-SD06-5.0 | MSTC23-SD06-7.0 | MSTC23-SD06-9.0 | MSTC23-SD06-9.0 |
| | | | | Start Depth | 0 | 0 | 0 | 1 | 2 | 3 | 5 | 7 | 7 |
| | | | | End Depth | 0.5 | 0.5 | 1 | 2 | 3 | 5 | 7 | 9 | 9 |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | N | N | N | N | N | N | N |
| | | | | Parent Sample # | | | | | | | | | |
| | | | | Sample Date | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | |
| 001-Mclouth_VOC | 1,1,1-TRICHLOROETHANE | 71-55-6 | 213 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | 600 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 76-13-1 | 670000 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,1,2-TRICHLOROETHANE | 79-00-5 | 150 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 UJ | 3.7 R | 5.9 U | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,1-DICHLOROETHANE | 75-34-3 | 0.575 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 UJ | 3.7 UJ | 5.9 U | 7.8 U | 7.4 U | 7.4 U |
| 001-Mclouth_VOC | 1,1-DICHLOROETHENE | 75-35-4 | 19.4 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 UJ | 3.7 UJ | 5.9 U | 7.8 U | 7.4 U | 7.4 U |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROBENZENE | 87-61-6 | 113 | ug/kg | 7.1 U | 8.8 UJ | 5.3 UJ | 5.3 J+ | 3.7 R | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROPROPANE | 96-18-4 | 5.1 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,2,4-TRICHLOROBENZENE | 120-82-1 | 5062 | ug/kg | 7.1 U | 8.8 UJ | 5.3 UJ | 5.3 UJ | 3.7 R | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | 30000 | ug/kg | 7.1 U | 8.8 U | 7.3 J- | 12 J+ | 8.5 J+ | 4.3 J | 47 J+ | 30 J+ | 30 J+ |
| 001-Mclouth_VOC | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | 5.3 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 U | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE) | 106-93-4 | 36 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,2-DICHLOROBENZENE | 95-50-1 | 294 | ug/kg | 7.1 U | 8.8 UJ | 5.3 UJ | 0.9 J+ | 3.7 R | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,2-DICHLOROETHANE | 107-06-2 | 260 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,2-DICHLOROPROPANE | 78-87-5 | 333 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 108-67-8 | 27000 | ug/kg | 7.1 U | 8.8 U | 3.9 J- | 5.9 J+ | 4.4 J+ | 2.2 J | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,3-DICHLOROBENZENE | 541-73-1 | 1315 | ug/kg | 7.1 U | 8.8 UJ | 5.3 UJ | 5.3 UJ | 0.79 J+ | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 1,4-DICHLOROBENZENE | 106-46-7 | 318 | ug/kg | 7.1 U | 8.8 UJ | 5.3 UJ | 5.3 UJ | 3.7 R | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | 2-HEXANONE | 591-78-6 | 58.2 | ug/kg | 14 U | 18 U | 11 U | 11 UJ | 7.3 UJ | 12 U | 16 UJ | 15 U | 15 U |
| 001-Mclouth_VOC | ACETONE | 67-64-1 | 9.9 | ug/kg | 12 J | 18 U | 51 J | 68 | 50 J+ | 61 | 85 | 58 J | 58 J |
| 001-Mclouth_VOC | BENZENE | 71-43-2 | 142 | ug/kg | 7.1 U | 8.8 U | 7 | 9.9 J+ | 4.2 J+ | 1.8 J | 5.7 J+ | 4.3 J | 4.3 J |
| 001-Mclouth_VOC | BROMOCHLOROMETHANE | 74-97-5 | 15000 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | BROMODICHLOROMETHANE | 75-27-4 | 210 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | BROMOFORM | 75-25-2 | 492 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 UJ | 3.7 UJ | 5.9 U | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | BROMOMETHANE | 74-83-9 | 1.37 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 U | 3.7 UJ | 5.9 U | 7.8 U | 7.4 U | 7.4 U |
| Approved Final Quality | CARBON DISULFIDE | 75-15-0 | 23.9 | ug/kg | 7.1 U | 8.8 U | 4.3 J | 5.1 J | 2.9 J+ | 5.6 J | 10 | 7.4 | 7.4 |
| 001-Mclouth_VOC | CARBON TETRACHLORIDE | 56-23-5 | 650 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | CHLOROBENZENE | 108-90-7 | 291 | ug/kg | 7.1 U | 8.8 UJ | 5.3 UJ | 5.3 UJ | 3.7 R | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | CHLOROETHANE | 75-00-3 | 540000 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 U | 3.7 UJ | 5.9 U | 7.8 U | 7.4 U | 7.4 U |
| 001-Mclouth_VOC | CHLOROFORM | 67-66-3 | 121 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 UJ | 3.7 UJ | 5.9 U | 7.8 U | 7.4 U | 7.4 U |
| 001-Mclouth_VOC | CHLOROMETHANE | 74-87-3 | 11000 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 U | 3.7 UJ | 5.9 U | 7.8 U | 7.4 U | 7.4 U |
| Approved Final Quality | CIS-1,2-DICHLOROETHYLENE | 156-59-2 | 432 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 UJ | 3.7 UJ | 5.9 U | 7.8 U | 7.4 U | 7.4 U |
| 001-Mclouth_VOC | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | 1.5 | | 7.1 U | 8.8 U | 5.3 U | 5.3 UJ | 3.7 R | 5.9 U | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | CYCLOHEXANE | 110-82-7 | 650000 | ug/kg | 7.1 U | 8.8 U | 1.6 J- | 3.3 J+ | 1.6 J+ | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | DIBROMOCHLOROMETHANE | 124-48-1 | 198 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 UJ | 3.7 UJ | 5.9 U | 7.8 UJ | 7.4 U | 7.4 U |
| 001-Mclouth_VOC | DICHLORODIFLUOROMETHANE | 75-71-8 | 8700 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 U | 3.7 UJ | 5.9 U | 7.8 U | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | ETHYLBENZENE | 100-41-4 | 175 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 2.2 J+ | 0.99 J+ | 0.97 J | 5.5 J+ | 4.1 J | 4.1 J |
| 001-Mclouth_VOC | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | 35 | ug/kg | 7.1 U | 8.8 U | 1.3 J- | 2.1 J+ | 1.2 J+ | 5.9 U | 6.8 J+ | 4.5 J+ | 4.5 J+ |
| 001-Mclouth_VOC | m,p-Xylene | 179601-23-1 | 433 | ug/kg | 7.1 U | 8.8 U | 3.7 J- | 7.2 J+ | 3.6 J+ | 3.2 J | 24 J+ | 17 | 17 |
| 001-Mclouth_VOC | METHYL ACETATE | 79-20-9 | 7800000 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ | 7.4 UJ |
| 001-Mclouth_VOC | METHYL ETHYL KETONE (2-BUTANONE) | 78-93-3 | 42.4 | ug/kg | 14 | 9.4 J | 19 | 27 | 19 J+ | 22 | 35 | 23 | 23 |
| 001-Mclouth_VOC | METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE) | 108-10-1 | 25.1 | ug/kg | 14 U | 18 U | 11 U | 11 UJ | 7.3 UJ | 12 U | 16 UJ | 15 U | 15 U |

Table A - VOCs Detection Results

| Location | | MSTC23-SD03 | MSTC23-SD05 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | | |
|-----------------|--------------------------------|--------------------|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------|--------|--------|
| Sample # | | MSTC23-SD03-SS-0.5 | MSTC23-SD05-SS-0.5 | MSTC23-SD06-1.0 | MSTC23-SD06-2.0 | MSTC23-SD06-3.0 | MSTC23-SD06-5.0 | MSTC23-SD06-7.0 | MSTC23-SD06-9.0 | | | |
| Start Depth | 0 | 0 | 0 | 1 | 2 | 3 | 5 | 7 | 9 | | | |
| End Depth | 0.5 | 0.5 | 1 | 2 | 3 | 5 | 7 | 9 | | | | |
| Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft | | | |
| Sample Type | N | N | N | N | N | N | N | N | N | | | |
| Parent Sample # | | | | | | | | | | | | |
| Sample Date | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 11/17/2023 | 11/17/2023 | | | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 001-Mclouth_VOC | METHYLCYCLOHEXANE | 108-87-2 | | ug/kg | 7.1 U | 8.8 U | 3.3 J- | 5.1 J+ | 2.8 J+ | 1.6 J- | 20 J+ | 12 J- |
| 001-Mclouth_VOC | METHYLENE CHLORIDE | 75-09-2 | 159 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ |
| 001-Mclouth_VOC | O-XYLENE (1,2-DIMETHYLBENZENE) | 95-47-6 | 433 | ug/kg | 7.1 U | 8.8 U | 6.7 J- | 7.7 J+ | 5 J+ | 3.1 J | 21 J+ | 14 |
| 001-Mclouth_VOC | STYRENE | 100-42-5 | 254 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 R | 3.7 R | 5.9 U | 7.8 UJ | 7.4 U |
| 001-Mclouth_VOC | TERT-BUTYL METHYL ETHER | 1634-04-4 | 304 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ |
| 001-Mclouth_VOC | TETRACHLOROETHENE (PCE) | 127-18-4 | 990 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 R | 3.7 R | 5.9 U | 7.8 UJ | 7.4 U |
| 001-Mclouth_VOC | TOLUENE | 108-88-3 | 1220 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 2.6 J+ | 0.74 J+ | 6 | 45 J+ | 49 J |
| 001-Mclouth_VOC | TRANS-1,2-DICHLOROETHENE | 156-60-5 | 654 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 UJ | 3.7 UJ | 5.9 U | 7.8 U | 7.4 U |
| 001-Mclouth_VOC | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | 1.5 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 UJ | 3.7 R | 5.9 U | 7.8 UJ | 7.4 UJ |
| 001-Mclouth_VOC | TRICHLOROETHENE (TCE) | 79-01-6 | 112 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 R | 3.7 R | 5.9 U | 7.8 UJ | 7.4 UJ |
| 001-Mclouth_VOC | TRICHLOROFLUOROMETHANE | 75-69-4 | 2300000 | ug/kg | 7.1 U | 8.8 U | 5.3 UJ | 5.3 UJ | 3.7 UJ | 5.9 UJ | 7.8 UJ | 7.4 UJ |
| 001-Mclouth_VOC | VINYL CHLORIDE | 75-01-4 | 59 | ug/kg | 7.1 U | 8.8 U | 5.3 U | 5.3 U | 3.7 UJ | 5.9 U | 7.8 UJ | 7.4 U |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

CAS # - Chemical Abstract Service Number

FD - Field duplicate

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

B - The target analyte was detected in the associated blank.

J - The identification of the analyte is acceptable; the reported value is an estimate

J+ - The result is an estimated quantity, but the results may be biased high

J- - The result is an estimated quantity, but the results may be biased low

R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U - Not detected

Table A - VOCs Detection Results

| | | Location | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD07 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | |
|------------------------|---|-----------------|------------------|--------------------|--------------------|-----------------|--------------------|-----------------|---------------------|--------------------|--------------------|------|
| | | Sample # | MSTC23-SD06A-7.0 | MSTC23-SD06-SS-0.5 | MSTC23-SD07-SS-0.5 | MSTC23-SD08-1.0 | MSTC23-SD08-1.0_ME | MSTC23-SD08-2.0 | MSTC23-SD08A-SS-0.5 | MSTC23-SD08-SS-0.5 | MSTC23-SD08-SS-0.5 | |
| | | Start Depth | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | |
| | | End Depth | 7 | 0.5 | 0.5 | 1 | 1 | 2 | 0.5 | 1 | 0.5 | |
| | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft | |
| | | Sample Type | FD | N | N | N | N | N | FD | N | N | |
| | | Parent Sample # | MSTC23-SD06-7.0 | | | | | | MSTC23-SD08-SS-0.5 | | | |
| | | Sample Date | 11/17/2023 | 10/18/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 001-Mclouth_VOC | 1,1,1-TRICHLOROETHANE | 71-55-6 | 213 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | 600 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 76-13-1 | 670000 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,1,2-TRICHLOROETHANE | 79-00-5 | 150 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,1-DICHLOROETHANE | 75-34-3 | 0.575 | ug/kg | 9.1 U | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,1-DICHLOROETHENE | 75-35-4 | 19.4 | ug/kg | 9.1 U | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROETHANE | 87-61-6 | 113 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 UJ | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROPROPANE | 96-18-4 | 5.1 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,2,4-TRICHLOROETHANE | 120-82-1 | 5062 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 UJ | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | 30000 | ug/kg | 67 J+ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | 5.3 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE) | 106-93-4 | 36 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,2-DICHLOROBENZENE | 95-50-1 | 294 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 UJ | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,2-DICHLOROETHANE | 107-06-2 | 260 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,2-DICHLOROPROPANE | 78-87-5 | 333 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 108-67-8 | 27000 | ug/kg | 37 J+ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,3-DICHLOROBENZENE | 541-73-1 | 1315 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 UJ | 5.4 U | 6 U |
| 001-Mclouth_VOC | 1,4-DICHLOROBENZENE | 106-46-7 | 318 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 UJ | 5.4 U | 6 U |
| 001-Mclouth_VOC | 2-HEXANONE | 591-78-6 | 58.2 | ug/kg | 18 UJ | 10 U | 21 R | 11 R | 670 R | 10 U | 11 U | 12 U |
| 001-Mclouth_VOC | ACETONE | 67-64-1 | 9.9 | ug/kg | 110 | 10 U | 23 J+ | 11 R | 670 R | 16 J | 11 U | 12 U |
| 001-Mclouth_VOC | BENZENE | 71-43-2 | 142 | ug/kg | 7.8 J+ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | BROMOCHLOROMETHANE | 74-97-5 | 15000 | ug/kg | 9.1 U | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | BROMODICHLOROMETHANE | 75-27-4 | 210 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | BROMOFORM | 75-25-2 | 492 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | BROMOMETHANE | 74-83-9 | 1.37 | ug/kg | 9.1 U | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| Approved Final Quality | CARBON DISULFIDE | 75-15-0 | 23.9 | ug/kg | 14 | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | CARBON TETRACHLORIDE | 56-23-5 | 650 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | CHLOROBENZENE | 108-90-7 | 291 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 UJ | 5.4 U | 6 U |
| 001-Mclouth_VOC | CHLOROETHANE | 75-00-3 | 540000 | ug/kg | 9.1 U | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | CHLOROFORM | 67-66-3 | 121 | ug/kg | 9.1 U | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | CHLOROMETHANE | 74-87-3 | 11000 | ug/kg | 9.1 U | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| Approved Final Quality | CIS-1,2-DICHLOROETHYLENE | 156-59-2 | 432 | ug/kg | 9.1 U | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | 1.5 | | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | CYCLOHEXANE | 110-82-7 | 650000 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | DIBROMOCHLOROMETHANE | 124-48-1 | 198 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | DICHLORODIFLUOROMETHANE | 75-71-8 | 8700 | ug/kg | 9.1 U | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | ETHYLBENZENE | 100-41-4 | 175 | ug/kg | 7.6 J+ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | 35 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | m,p-Xylene | 179601-23-1 | 433 | ug/kg | 33 J+ | 5.2 U | 10 R | 4.3 J+ | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | METHYL ACETATE | 79-20-9 | 7800000 | ug/kg | 3.7 J- | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | METHYL ETHYL KETONE (2-BUTANONE) | 78-93-3 | 42.4 | ug/kg | 42 | 10 U | 21 R | 11 R | 670 R | 5.6 J | 7.9 J | 12 U |
| 001-Mclouth_VOC | METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE) | 108-10-1 | 25.1 | ug/kg | 18 UJ | 10 U | 21 R | 11 R | 670 R | 10 R | 11 U | 12 U |

Table A - VOCs Detection Results

| Location | | | | | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD07 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 |
|-----------------|--------------------------------|------------|---------|-------|------------------|--------------------|--------------------|-----------------|--------------------|-----------------|---------------------|--------------------|
| Sample # | | | | | MSTC23-SD06A-7.0 | MSTC23-SD06-SS-0.5 | MSTC23-SD07-SS-0.5 | MSTC23-SD08-1.0 | MSTC23-SD08-1.0_ME | MSTC23-SD08-2.0 | MSTC23-SD08A-SS-0.5 | MSTC23-SD08-SS-0.5 |
| Start Depth | | | | | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| End Depth | | | | | 7 | 0.5 | 0.5 | 1 | 1 | 2 | 0.5 | 0.5 |
| Depth Unit | | | | | ft | ft | ft | ft | ft | ft | ft | ft |
| Sample Type | | | | | FD | N | N | N | N | N | FD | N |
| Parent Sample # | | | | | MSTC23-SD06-7.0 | | | | | | MSTC23-SD08-SS-0.5 | |
| Sample Date | | | | | 11/17/2023 | 10/18/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 001-Mclouth_VOC | METHYLCYCLOHEXANE | 108-87-2 | | ug/kg | 23 J+ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | METHYLENE CHLORIDE | 75-09-2 | 159 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | O-XYLENE (1,2-DIMETHYLBENZENE) | 95-47-6 | 433 | ug/kg | 29 J+ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | STYRENE | 100-42-5 | 254 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | TERT-BUTYL METHYL ETHER | 1634-04-4 | 304 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | TETRACHLOROETHENE (PCE) | 127-18-4 | 990 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | TOLUENE | 108-88-3 | 1220 | ug/kg | 65 J+ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | TRANS-1,2-DICHLOROETHENE | 156-60-5 | 654 | ug/kg | 9.1 U | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | 1.5 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | TRICHLOROETHENE (TCE) | 79-01-6 | 112 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | TRICHLOROFLUOROMETHANE | 75-69-4 | 2300000 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |
| 001-Mclouth_VOC | VINYL CHLORIDE | 75-01-4 | 59 | ug/kg | 9.1 UJ | 5.2 U | 10 R | 5.6 R | 330 R | 5.2 R | 5.4 U | 6 U |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

CAS # - Chemical Abstract Service Number

FD - Field duplicate

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

B - The target analyte was detected in the associated blank.

J - The identification of the analyte is acceptable; the reported value is an estimate

J+ - The result is an estimated quantity, but the results may be biased high

J- - The result is an estimated quantity, but the results may be biased low

R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U - Not detected

Table A - VOCs Detection Results

| | | Location | | MSTC23-SD09 | MSTC23-SD09 | MSTC23-SD09 | MSTC23-SD10 | MSTC23-SD10 | MSTC23-SD12 | MSTC23-SD13 | MSTC23-SD13 | |
|------------------------|---|-----------------|-----------------|-----------------|--------------------|--------------------|-----------------------|--------------------|-----------------|--------------------|-------------|--------|
| | | Sample # | MSTC23-SD09-1.0 | MSTC23-SD09-2.0 | MSTC23-SD09-SS-0.5 | MSTC23-SD10-SS-0.5 | MSTC23-SD10-SS-0.5_ME | MSTC23-SD12-SS-0.5 | MSTC23-SD13-1.0 | MSTC23-SD13-SS-0.5 | | |
| | | Start Depth | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | End Depth | 1 | 2 | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 0.5 | | |
| | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | | |
| | | Sample Type | N | N | N | N | N | N | N | N | | |
| | | Parent Sample # | | | | | | | | | | |
| | | Sample Date | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/12/2023 | 10/12/2023 | | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 001-Mclouth_VOC | 1,1,1-TRICHLOROETHANE | 71-55-6 | 213 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | 600 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 76-13-1 | 670000 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,1,2-TRICHLOROETHANE | 79-00-5 | 150 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,1-DICHLOROETHANE | 75-34-3 | 0.575 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,1-DICHLOROETHENE | 75-35-4 | 19.4 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROBENZENE | 87-61-6 | 113 | ug/kg | 9.9 R | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROPROPANE | 96-18-4 | 5.1 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,2,4-TRICHLOROBENZENE | 120-82-1 | 5062 | ug/kg | 9.9 R | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | 30000 | ug/kg | 14 J- | 5.9 J+ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | 5.3 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE) | 106-93-4 | 36 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,2-DICHLOROBENZENE | 95-50-1 | 294 | ug/kg | 9.9 R | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,2-DICHLOROETHANE | 107-06-2 | 260 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,2-DICHLOROPROPANE | 78-87-5 | 333 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 108-67-8 | 27000 | ug/kg | 6.2 J- | 4.1 J+ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,3-DICHLOROBENZENE | 541-73-1 | 1315 | ug/kg | 2.1 J- | 4.1 UJ | 1.6 J- | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 1,4-DICHLOROBENZENE | 106-46-7 | 318 | ug/kg | 9.9 R | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | 2-HEXANONE | 591-78-6 | 58.2 | ug/kg | 20 UJ | 8.2 UJ | 16 UJ | 15 R | 1100 UJ | 16 UJ | 8.4 UJ | 11 UJ |
| 001-Mclouth_VOC | ACETONE | 67-64-1 | 9.9 | ug/kg | 62 J | 30 J | 16 UJ | 15 R | 1100 UJ | 16 UJ | 8.4 UJ | 11 UJ |
| 001-Mclouth_VOC | BENZENE | 71-43-2 | 142 | ug/kg | 5 J | 0.96 J | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | BROMOCHLOROMETHANE | 74-97-5 | 15000 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | BROMODICHLOROMETHANE | 75-27-4 | 210 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | BROMOFORM | 75-25-2 | 492 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | BROMOMETHANE | 74-83-9 | 1.37 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| Approved Final Quality | CARBON DISULFIDE | 75-15-0 | 23.9 | ug/kg | 7.2 J | 5.4 J | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | CARBON TETRACHLORIDE | 56-23-5 | 650 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | CHLOROBENZENE | 108-90-7 | 291 | ug/kg | 9.9 R | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | CHLOROETHANE | 75-00-3 | 540000 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | CHLOROFORM | 67-66-3 | 121 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | CHLOROMETHANE | 74-87-3 | 11000 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| Approved Final Quality | CIS-1,2-DICHLOROETHYLENE | 156-59-2 | 432 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | 1.5 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | CYCLOHEXANE | 110-82-7 | 650000 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | DIBROMOCHLOROMETHANE | 124-48-1 | 198 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | DICHLORODIFLUOROMETHANE | 75-71-8 | 8700 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | ETHYLBENZENE | 100-41-4 | 175 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | 35 | ug/kg | 2 J- | 1.1 J+ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | m,p-Xylene | 179601-23-1 | 433 | ug/kg | 6.1 J- | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | METHYL ACETATE | 79-20-9 | 7800000 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 150 J | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | METHYL ETHYL KETONE (2-BUTANONE) | 78-93-3 | 42.4 | ug/kg | 25 J | 8 J | 18 J | 15 R | 1100 UJ | 16 UJ | 8.4 UJ | 10 J |
| 001-Mclouth_VOC | METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE) | 108-10-1 | 25.1 | ug/kg | 20 UJ | 8.2 UJ | 16 UJ | 15 R | 1100 UJ | 16 UJ | 8.4 UJ | 11 UJ |

Table A - VOCs Detection Results

| Location | | | | | MSTC23-SD09 | MSTC23-SD09 | MSTC23-SD09 | MSTC23-SD10 | MSTC23-SD10 | MSTC23-SD12 | MSTC23-SD13 | MSTC23-SD13 |
|-----------------|--------------------------------|------------|---------|-------|-----------------|-----------------|--------------------|--------------------|-----------------------|--------------------|-----------------|--------------------|
| Sample # | | | | | MSTC23-SD09-1.0 | MSTC23-SD09-2.0 | MSTC23-SD09-SS-0.5 | MSTC23-SD10-SS-0.5 | MSTC23-SD10-SS-0.5_ME | MSTC23-SD12-SS-0.5 | MSTC23-SD13-1.0 | MSTC23-SD13-SS-0.5 |
| Start Depth | | | | | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| End Depth | | | | | 1 | 2 | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 0.5 |
| Depth Unit | | | | | ft | ft | ft | ft | ft | ft | ft | ft |
| Sample Type | | | | | N | N | N | N | N | N | N | N |
| Parent Sample # | | | | | | | | | | | | |
| Sample Date | | | | | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/12/2023 | 10/12/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 001-Mclouth_VOC | METHYLCYCLOHEXANE | 108-87-2 | | ug/kg | 11 J- | 6.7 J | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | METHYLENE CHLORIDE | 75-09-2 | 159 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | O-XYLENE (1,2-DIMETHYLBENZENE) | 95-47-6 | 433 | ug/kg | 5 J- | 0.83 J | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | STYRENE | 100-42-5 | 254 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | TERT-BUTYL METHYL ETHER | 1634-04-4 | 304 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | TETRACHLOROETHENE (PCE) | 127-18-4 | 990 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | TOLUENE | 108-88-3 | 1220 | ug/kg | 1.6 J- | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | TRANS-1,2-DICHLOROETHENE | 156-60-5 | 654 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | 1.5 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | TRICHLOROETHENE (TCE) | 79-01-6 | 112 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | TRICHLOROFLUOROMETHANE | 75-69-4 | 2300000 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |
| 001-Mclouth_VOC | VINYL CHLORIDE | 75-01-4 | 59 | ug/kg | 9.9 UJ | 4.1 UJ | 7.8 UJ | 7.5 R | 530 UJ | 7.8 UJ | 4.2 UJ | 5.4 UJ |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

CAS # - Chemical Abstract Service Number

FD - Field duplicate

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

B - The target analyte was detected in the associated blank.

J - The identification of the analyte is acceptable; the reported value is an estimate

J+ - The result is an estimated quantity, but the results may be biased high

J- - The result is an estimated quantity, but the results may be biased low

R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U - Not detected

Table A - VOCs Detection Results

| | | | | Location | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD15 | MSTC23-SD19 | MSTC23-SD19 | MSTC23-SD19 | MSTC23-SD19 | MSTC23-SD20 |
|------------------------|---|-------------|---------|-----------------|-----------------|-----------------|--------------------|--------------------|-----------------|-----------------|--------------------|-----------------|-------------|
| | | | | Sample # | MSTC23-SD14-1.0 | MSTC23-SD14-2.0 | MSTC23-SD14-SS-0.5 | MSTC23-SD15-SS-0.5 | MSTC23-SD19-1.0 | MSTC23-SD19-2.0 | MSTC23-SD19-SS-0.5 | MSTC23-SD20-1.0 | |
| | | | | Start Depth | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | |
| | | | | End Depth | 1 | 2 | 0.5 | 0.5 | 1 | 2 | 0.5 | 1 | |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | |
| | | | | Sample Type | N | N | N | N | N | N | N | N | |
| | | | | Parent Sample # | | | | | | | | | |
| | | | | Sample Date | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/16/2023 | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | |
| 001-Mclouth_VOC | 1,1,1-TRICHLOROETHANE | 71-55-6 | 213 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | 600 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 76-13-1 | 670000 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,1,2-TRICHLOROETHANE | 79-00-5 | 150 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,1-DICHLOROETHANE | 75-34-3 | 0.575 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,1-DICHLOROETHENE | 75-35-4 | 19.4 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROBENZENE | 87-61-6 | 113 | ug/kg | 4.5 R | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROPROPANE | 96-18-4 | 5.1 | ug/kg | 4.5 R | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,2,4-TRICHLOROBENZENE | 120-82-1 | 5062 | ug/kg | 4.5 R | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | 30000 | ug/kg | 4.5 R | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 300 J | 4.8 R | |
| 001-Mclouth_VOC | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | 5.3 | ug/kg | 4.5 R | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE) | 106-93-4 | 36 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,2-DICHLOROBENZENE | 95-50-1 | 294 | ug/kg | 4.5 R | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,2-DICHLOROETHANE | 107-06-2 | 260 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,2-DICHLOROPROPANE | 78-87-5 | 333 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 108-67-8 | 27000 | ug/kg | 4.5 R | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,3-DICHLOROBENZENE | 541-73-1 | 1315 | ug/kg | 4.5 R | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 1,4-DICHLOROBENZENE | 106-46-7 | 318 | ug/kg | 4.5 R | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | 2-HEXANONE | 591-78-6 | 58.2 | ug/kg | 9 UJ | 8.4 UJ | 11 UJ | 830 R | 1300 R | 1100 R | 1400 R | 9.5 R | |
| 001-Mclouth_VOC | ACETONE | 67-64-1 | 9.9 | ug/kg | 5.8 J | 8.4 UJ | 11 UJ | 830 R | 1300 R | 1100 R | 1400 R | 9.5 R | |
| 001-Mclouth_VOC | BENZENE | 71-43-2 | 142 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | BROMOCHLOROMETHANE | 74-97-5 | 15000 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | BROMODICHLOROMETHANE | 75-27-4 | 210 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | BROMOFORM | 75-25-2 | 492 | ug/kg | 4.5 R | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | BROMOMETHANE | 74-83-9 | 1.37 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| Approved Final Quality | CARBON DISULFIDE | 75-15-0 | 23.9 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | CARBON TETRACHLORIDE | 56-23-5 | 650 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | CHLOROBENZENE | 108-90-7 | 291 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | CHLOROETHANE | 75-00-3 | 540000 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | CHLOROFORM | 67-66-3 | 121 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | CHLOROMETHANE | 74-87-3 | 11000 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| Approved Final Quality | CIS-1,2-DICHLOROETHYLENE | 156-59-2 | 432 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | 1.5 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | CYCLOHEXANE | 110-82-7 | 650000 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | DIBROMOCHLOROMETHANE | 124-48-1 | 198 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | DICHLORODIFLUOROMETHANE | 75-71-8 | 8700 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | ETHYLBENZENE | 100-41-4 | 175 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | 35 | ug/kg | 4.5 R | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | m,p-Xylene | 179601-23-1 | 433 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | METHYL ACETATE | 79-20-9 | 7800000 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | METHYL ETHYL KETONE (2-BUTANONE) | 78-93-3 | 42.4 | ug/kg | 9 UJ | 8.4 UJ | 11 UJ | 830 R | 1300 R | 1100 R | 1400 R | 9.5 R | |
| 001-Mclouth_VOC | METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE) | 108-10-1 | 25.1 | ug/kg | 9 UJ | 8.4 UJ | 11 UJ | 830 R | 1300 R | 1100 R | 1400 R | 9.5 R | |

Table A - VOCs Detection Results

| Location | | | | | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD15 | MSTC23-SD19 | MSTC23-SD19 | MSTC23-SD19 | MSTC23-SD19 | MSTC23-SD20 |
|-----------------|--------------------------------|------------|---------|-------|-----------------|-----------------|--------------------|--------------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Sample # | | | | | MSTC23-SD14-1.0 | MSTC23-SD14-2.0 | MSTC23-SD14-SS-0.5 | MSTC23-SD15-SS-0.5 | MSTC23-SD19-1.0 | MSTC23-SD19-2.0 | MSTC23-SD19-SS-0.5 | MSTC23-SD19-SS-0.5 | MSTC23-SD20-1.0 |
| Start Depth | | | | | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| End Depth | | | | | 1 | 2 | 0.5 | 0.5 | 1 | 2 | 0.5 | 0.5 | 1 |
| Depth Unit | | | | | ft | ft | ft | ft | ft | ft | ft | ft | ft |
| Sample Type | | | | | N | N | N | N | N | N | N | N | N |
| Parent Sample # | | | | | | | | | | | | | |
| Sample Date | | | | | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/16/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | |
| 001-Mclouth_VOC | METHYLCYCLOHEXANE | 108-87-2 | | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | METHYLENE CHLORIDE | 75-09-2 | 159 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | O-XYLENE (1,2-DIMETHYLBENZENE) | 95-47-6 | 433 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | STYRENE | 100-42-5 | 254 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | TERT-BUTYL METHYL ETHER | 1634-04-4 | 304 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | TETRACHLOROETHENE (PCE) | 127-18-4 | 990 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | TOLUENE | 108-88-3 | 1220 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | TRANS-1,2-DICHLOROETHENE | 156-60-5 | 654 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | 1.5 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | TRICHLOROETHENE (TCE) | 79-01-6 | 112 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | TRICHLOROFLUOROMETHANE | 75-69-4 | 2300000 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |
| 001-Mclouth_VOC | VINYL CHLORIDE | 75-01-4 | 59 | ug/kg | 4.5 UJ | 4.2 UJ | 5.7 UJ | 410 R | 660 R | 570 R | 680 R | 4.8 R | |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

CAS # - Chemical Abstract Service Number

FD - Field duplicate

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

B - The target analyte was detected in the associated blank.

J - The identification of the analyte is acceptable; the reported value is an estimate

J+ - The result is an estimated quantity, but the results may be biased high

J- - The result is an estimated quantity, but the results may be biased low

R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U - Not detected

Table A - VOCs Detection Results

| | | Location | | | MSTC23-SD20 | MSTC23-SD20 | MSTC23-SD20 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 |
|------------------------|---|-----------------|--------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|--------------------|-------------|-------------|-------------|
| | | Sample # | MSTC23-SD20-1.0_ME | MSTC23-SD20-2.0 | MSTC23-SD20-SS-0.5 | MSTC23-SD22-1.0 | MSTC23-SD22-2.0 | MSTC23-SD22-3.0 | MSTC23-SD22-5.0 | MSTC23-SD22-SS-0.5 | | | |
| | | Start Depth | 0 | 1 | 0 | 0 | 1 | 2 | 3 | 0 | | | |
| | | End Depth | 1 | 2 | 0.5 | 1 | 2 | 3 | 5 | 0.5 | | | |
| | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | | | |
| | | Sample Type | N | N | N | N | N | N | N | N | | | |
| | | Parent Sample # | | | | | | | | | | | |
| | | Sample Date | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | | | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | |
| 001-Mclouth_VOC | 1,1,1-TRICHLOROETHANE | 71-55-6 | 213 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | 600 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 76-13-1 | 670000 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U | |
| 001-Mclouth_VOC | 1,1,2-TRICHLOROETHANE | 79-00-5 | 150 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 1,1-DICHLOROETHANE | 75-34-3 | 0.575 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U | |
| 001-Mclouth_VOC | 1,1-DICHLOROETHENE | 75-35-4 | 19.4 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U | |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROETHENE | 87-61-6 | 113 | ug/kg | 320 U | 280 U | 6.1 U | 3.2 J+ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROPROPANE | 96-18-4 | 5.1 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 1,2,4-TRICHLOROETHENE | 120-82-1 | 5062 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | 30000 | ug/kg | 320 U | 280 U | 6.1 U | 4.7 J+ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | 5.3 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE) | 106-93-4 | 36 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 1,2-DICHLOROBENZENE | 95-50-1 | 294 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 1,2-DICHLOROETHANE | 107-06-2 | 260 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U | |
| 001-Mclouth_VOC | 1,2-DICHLOROPROPANE | 78-87-5 | 333 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 108-67-8 | 27000 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 1,3-DICHLOROBENZENE | 541-73-1 | 1315 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 1,4-DICHLOROBENZENE | 106-46-7 | 318 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | 2-HEXANONE | 591-78-6 | 58.2 | ug/kg | 650 U | 560 U | 12 U | 15 UJ | 19 U | 12 U | 11 R | 26 UJ | |
| 001-Mclouth_VOC | ACETONE | 67-64-1 | 9.9 | ug/kg | 650 U | 560 U | 12 U | 31 | 32 | 20 | 19 J+ | 17 J | |
| 001-Mclouth_VOC | BENZENE | 71-43-2 | 142 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | BROMOCHLOROMETHANE | 74-97-5 | 15000 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U | |
| 001-Mclouth_VOC | BROMODICHLOROMETHANE | 75-27-4 | 210 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | BROMOFORM | 75-25-2 | 492 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | BROMOMETHANE | 74-83-9 | 1.37 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U | |
| Approved Final Quality | CARBON DISULFIDE | 75-15-0 | 23.9 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U | |
| 001-Mclouth_VOC | CARBON TETRACHLORIDE | 56-23-5 | 650 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | CHLOROBENZENE | 108-90-7 | 291 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | CHLOROETHANE | 75-00-3 | 540000 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U | |
| 001-Mclouth_VOC | CHLOROFORM | 67-66-3 | 121 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U | |
| 001-Mclouth_VOC | CHLOROMETHANE | 74-87-3 | 11000 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U | |
| Approved Final Quality | CIS-1,2-DICHLOROETHYLENE | 156-59-2 | 432 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U | |
| 001-Mclouth_VOC | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | 1.5 | | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | CYCLOHEXANE | 110-82-7 | 650000 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | DIBROMOCHLOROMETHANE | 124-48-1 | 198 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | DICHLORODIFLUOROMETHANE | 75-71-8 | 8700 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U | |
| 001-Mclouth_VOC | ETHYLBENZENE | 100-41-4 | 175 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | 35 | ug/kg | 320 U | 280 U | 6.1 U | 1.5 J+ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | m,p-Xylene | 179601-23-1 | 433 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ | |
| 001-Mclouth_VOC | METHYL ACETATE | 79-20-9 | 7800000 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U | |
| 001-Mclouth_VOC | METHYL ETHYL KETONE (2-BUTANONE) | 78-93-3 | 42.4 | ug/kg | 650 U | 560 U | 12 U | 13 J | 13 J | 6.9 J | 11 R | 26 U | |
| 001-Mclouth_VOC | METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE) | 108-10-1 | 25.1 | ug/kg | 650 U | 560 U | 12 U | 15 UJ | 19 U | 12 U | 11 R | 26 UJ | |

Table A - VOCs Detection Results

| Location | | | | | MSTC23-SD20 | MSTC23-SD20 | MSTC23-SD20 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 |
|-----------------|--------------------------------|------------|---------|-------|--------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|--------------------|
| Sample # | | | | | MSTC23-SD20-1.0_ME | MSTC23-SD20-2.0 | MSTC23-SD20-SS-0.5 | MSTC23-SD22-1.0 | MSTC23-SD22-2.0 | MSTC23-SD22-3.0 | MSTC23-SD22-5.0 | MSTC23-SD22-SS-0.5 |
| Start Depth | | | | | 0 | 1 | 0 | 0 | 1 | 2 | 3 | 0 |
| End Depth | | | | | 1 | 2 | 0.5 | 1 | 2 | 3 | 5 | 0.5 |
| Depth Unit | | | | | ft | ft | ft | ft | ft | ft | ft | ft |
| Sample Type | | | | | N | N | N | N | N | N | N | N |
| Parent Sample # | | | | | | | | | | | | |
| Sample Date | | | | | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 001-Mclouth_VOC | METHYLCYCLOHEXANE | 108-87-2 | | ug/kg | 320 U | 280 U | 6.1 U | 4.5 J+ | 9.3 U | 5.9 U | 5.6 R | 13 UJ |
| 001-Mclouth_VOC | METHYLENE CHLORIDE | 75-09-2 | 159 | ug/kg | 320 U | 280 U | 6.1 U | 2.6 J | 9.3 U | 5.9 U | 5.6 R | 13 U |
| 001-Mclouth_VOC | O-XYLENE (1,2-DIMETHYLBENZENE) | 95-47-6 | 433 | ug/kg | 320 U | 280 U | 6.1 U | 1.8 J+ | 9.3 U | 5.9 U | 5.6 R | 13 UJ |
| 001-Mclouth_VOC | STYRENE | 100-42-5 | 254 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ |
| 001-Mclouth_VOC | TERT-BUTYL METHYL ETHER | 1634-04-4 | 304 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U |
| 001-Mclouth_VOC | TETRACHLOROETHENE (PCE) | 127-18-4 | 990 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ |
| 001-Mclouth_VOC | TOLUENE | 108-88-3 | 1220 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ |
| 001-Mclouth_VOC | TRANS-1,2-DICHLOROETHENE | 156-60-5 | 654 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U |
| 001-Mclouth_VOC | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | 1.5 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ |
| 001-Mclouth_VOC | TRICHLOROETHENE (TCE) | 79-01-6 | 112 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 UJ | 9.3 U | 5.9 U | 5.6 R | 13 UJ |
| 001-Mclouth_VOC | TRICHLOROFLUOROMETHANE | 75-69-4 | 2300000 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U |
| 001-Mclouth_VOC | VINYL CHLORIDE | 75-01-4 | 59 | ug/kg | 320 U | 280 U | 6.1 U | 7.4 U | 9.3 U | 5.9 U | 5.6 R | 13 U |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

CAS # - Chemical Abstract Service Number

FD - Field duplicate

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

B - The target analyte was detected in the associated blank.

J - The identification of the analyte is acceptable; the reported value is an estimate

J+ - The result is an estimated quantity, but the results may be biased high

J- - The result is an estimated quantity, but the results may be biased low

R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U - Not detected

Table A - VOCs Detection Results

| Method Group | Analyte | CAS # | Sed PAL | Units | Location | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 |
|------------------------|---|-------------|---------|-------|-----------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------------|
| | | | | | Sample # | MSTC23-SD23-1.0 | MSTC23-SD23-2.0 | MSTC23-SD23-2.0_ME | MSTC23-SD23-3.0 | MSTC23-SD23-5.0 | MSTC23-SD23-SS-0.5 | MSTC23-SD23-SS-0.5_ME |
| | | | | | Start Depth | 0 | 1 | 1 | 2 | 3 | 0 | 0 |
| | | | | | End Depth | 1 | 2 | 2 | 3 | 5 | 0.5 | 0.5 |
| | | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft |
| | | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | | Parent Sample # | | | | | | | |
| | | | | | Sample Date | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 |
| 001-Mclouth_VOC | 1,1,1-TRICHLOROETHANE | 71-55-6 | 213 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | 600 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 76-13-1 | 670000 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,1,2-TRICHLOROETHANE | 79-00-5 | 150 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,1-DICHLOROETHANE | 75-34-3 | 0.575 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,1-DICHLOROETHENE | 75-35-4 | 19.4 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROETHENE | 87-61-6 | 113 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 UJ | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROPROPANE | 96-18-4 | 5.1 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,2,4-TRICHLOROETHENE | 120-82-1 | 5062 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 UJ | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | 30000 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | 5.3 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE) | 106-93-4 | 36 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,2-DICHLOROBENZENE | 95-50-1 | 294 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 UJ | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,2-DICHLOROETHANE | 107-06-2 | 260 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,2-DICHLOROPROPANE | 78-87-5 | 333 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 108-67-8 | 27000 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,3-DICHLOROBENZENE | 541-73-1 | 1315 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 UJ | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 1,4-DICHLOROBENZENE | 106-46-7 | 318 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 UJ | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | 2-HEXANONE | 591-78-6 | 58.2 | ug/kg | | 580 U | 9.4 R | 710 U | 11 U | 590 U | 24 R | 1600 U |
| 001-Mclouth_VOC | ACETONE | 67-64-1 | 9.9 | ug/kg | | 580 U | 9.4 R | 710 U | 27 | 590 U | 24 R | 1600 U |
| 001-Mclouth_VOC | BENZENE | 71-43-2 | 142 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | BROMOCHLOROMETHANE | 74-97-5 | 15000 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | BROMODICHLOROMETHANE | 75-27-4 | 210 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | BROMOFORM | 75-25-2 | 492 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | BROMOMETHANE | 74-83-9 | 1.37 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| Approved Final Quality | CARBON DISULFIDE | 75-15-0 | 23.9 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | CARBON TETRACHLORIDE | 56-23-5 | 650 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | CHLOROBENZENE | 108-90-7 | 291 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 UJ | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | CHLOROETHANE | 75-00-3 | 540000 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | CHLOROFORM | 67-66-3 | 121 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | CHLOROMETHANE | 74-87-3 | 11000 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| Approved Final Quality | CIS-1,2-DICHLOROETHYLENE | 156-59-2 | 432 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | 1.5 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | CYCLOHEXANE | 110-82-7 | 650000 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | DIBROMOCHLOROMETHANE | 124-48-1 | 198 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | DICHLORODIFLUOROMETHANE | 75-71-8 | 8700 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | ETHYLBENZENE | 100-41-4 | 175 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | 35 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | m,p-Xylene | 179601-23-1 | 433 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | METHYL ACETATE | 79-20-9 | 7800000 | ug/kg | | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 350 J |
| 001-Mclouth_VOC | METHYL ETHYL KETONE (2-BUTANONE) | 78-93-3 | 42.4 | ug/kg | | 580 U | 9.4 R | 710 U | 9.2 J | 590 U | 24 R | 1600 U |
| 001-Mclouth_VOC | METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE) | 108-10-1 | 25.1 | ug/kg | | 580 U | 9.4 R | 710 U | 11 U | 590 U | 24 R | 1600 U |

Table A - VOCs Detection Results

| Location | | | | | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 |
|-----------------|--------------------------------|------------|---------|-------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------------|
| Sample # | | | | | MSTC23-SD23-1.0 | MSTC23-SD23-2.0 | MSTC23-SD23-2.0_ME | MSTC23-SD23-3.0 | MSTC23-SD23-5.0 | MSTC23-SD23-SS-0.5 | MSTC23-SD23-SS-0.5_ME |
| Start Depth | | | | | 0 | 1 | 1 | 2 | 3 | 0 | 0 |
| End Depth | | | | | 1 | 2 | 2 | 3 | 5 | 0.5 | 0.5 |
| Depth Unit | | | | | ft | ft | ft | ft | ft | ft | ft |
| Sample Type | | | | | N | N | N | N | N | N | N |
| Parent Sample # | | | | | | | | | | | |
| Sample Date | | | | | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | |
| 001-Mclouth_VOC | METHYLCYCLOHEXANE | 108-87-2 | | ug/kg | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | METHYLENE CHLORIDE | 75-09-2 | 159 | ug/kg | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | O-XYLENE (1,2-DIMETHYLBENZENE) | 95-47-6 | 433 | ug/kg | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | STYRENE | 100-42-5 | 254 | ug/kg | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | TERT-BUTYL METHYL ETHER | 1634-04-4 | 304 | ug/kg | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | TETRACHLOROETHENE (PCE) | 127-18-4 | 990 | ug/kg | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | TOLUENE | 108-88-3 | 1220 | ug/kg | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | TRANS-1,2-DICHLOROETHENE | 156-60-5 | 654 | ug/kg | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | 1.5 | ug/kg | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | TRICHLOROETHENE (TCE) | 79-01-6 | 112 | ug/kg | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | TRICHLOROFLUOROMETHANE | 75-69-4 | 2300000 | ug/kg | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |
| 001-Mclouth_VOC | VINYL CHLORIDE | 75-01-4 | 59 | ug/kg | 290 U | 4.7 R | 360 U | 5.7 U | 290 U | 12 R | 820 U |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

CAS # - Chemical Abstract Service Number

FD - Field duplicate

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

B - The target analyte was detected in the associated blank.

J - The identification of the analyte is acceptable; the reported value is an estimate

J+ - The result is an estimated quantity, but the results may be biased high

J- - The result is an estimated quantity, but the results may be biased low

R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

U - Not detected

Table B - PAHs Detection Results

| Method Group | Analyte | CAS # | Sed PAL | Units | Location | | | | | | | | | | | | |
|-----------------|---------------------------------|------------|---------|-------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|--------------------|-----------------|-----------------|-----------------|-----------------|------------|
| | | | | | MSTC23-SD01 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD03 | MSTC23-SD03 | MSTC23-SD03 | MSTC23-SD05 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | |
| Sample # | | | | | MSTC23-SD01-SS-0.5 | MSTC23-SD02-1.0 | MSTC23-SD02-2.0 | MSTC23-SD02-SS-0.5 | MSTC23-SD03-1.0 | MSTC23-SD03-2.0 | MSTC23-SD03-SS-0.5 | MSTC23-SD05-SS-0.5 | MSTC23-SD06-1.0 | MSTC23-SD06-2.0 | MSTC23-SD06-3.0 | MSTC23-SD06-5.0 | |
| Start Depth | | | | | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 3 |
| End Depth | | | | | 0.5 | 1 | 2 | 0.5 | 1 | 2 | 0.5 | 0.5 | 1 | 2 | 3 | 5 | |
| Depth Unit | | | | | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | |
| Sample Type | | | | | N | N | N | N | N | N | N | N | N | N | N | N | |
| Parent Sample # | | | | | | | | | | | | | | | | | |
| Sample Date | | | | | 10/18/2023 | 10/19/2023 | 10/19/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 |
| 002-Mclouth_PAH | 2-Methylnaphthalene | 91-57-6 | | ug/kg | 27 UA | 700 A | 520 A | 430 A | 580 A | 800 A | 170 A | 380 A | 400 A | 460 A | 320 A | 320 A | |
| 002-Mclouth_PAH | Acenaphthene | 83-32-9 | 6.71 | ug/kg | 27 UA | 31 UA | 29 UA | 30 UA | 29 UA | 29 UA | 220 A | 660 A | 210 A | 27 UA | 28 UA | 25 UA | |
| 002-Mclouth_PAH | Acenaphthylene | 208-96-8 | 5.87 | ug/kg | 27 UA | 31 UA | 29 UA | 480 A | 29 UA | 29 UA | 450 A | 1100 A | 220 A | 27 UA | 28 UA | 25 UA | |
| 002-Mclouth_PAH | Anthracene | 120-12-7 | 57.2 | ug/kg | 320 A | 710 A | 450 A | 2800 A | 560 A | 1100 A | 730 A | 2300 A | 450 A | 810 A | 600 A | 330 A | |
| 002-Mclouth_PAH | Benzo(a)anthracene | 56-55-3 | 108 | ug/kg | 830 A | 2000 A | 1400 A | 2600 A | 1600 A | 3400 A | 2700 A | 9200 HA | 28 UA | 27 UA | 28 UA | 1000 A | |
| 002-Mclouth_PAH | Benzo(a)pyrene | 50-32-8 | 110 | ug/kg | 90 UHA | 2500 HA | 96 UHA | 2900 HA | 1700 HA | 3400 HA | 5400 A | 10000 HA | 28 UA | 91 UHA | 2200 HA | 1300 HA | |
| 002-Mclouth_PAH | Benzo(b)fluoranthene | 205-99-2 | 1100 | ug/kg | 90 UHA | 100 UHA | 96 UHA | 3500 HA | 2200 HA | 4100 HA | 5600 A | 12000 HA | 28 UA | 91 UHA | 2600 HA | 1700 HA | |
| 002-Mclouth_PAH | Benzo(g,h,i)perylene | 191-24-2 | 170 | ug/kg | 90 UHA | 100 UHA | 96 UHA | 1600 HA | 97 UHA | 1600 HA | 2400 A | 3900 A | 28 UA | 91 UHA | 1100 HA | 83 UHA | |
| 002-Mclouth_PAH | Benzo(k)fluoranthene | 207-08-9 | 240 | ug/kg | 90 UHA | 100 UHA | 96 UHA | 1200 HA | 610 HA | 1700 HA | 2100 A | 4100 A | 28 UA | 91 UHA | 820 HA | 740 HA | |
| 002-Mclouth_PAH | Benzo(e)pyrene | 192-97-2 | 1000 | ug/kg | 90 UHA | 1600 HA | 96 UHA | 1300 HA | 1300 HA | 2100 HA | 3200 A | 5900 A | 28 UA | 91 UHA | 1400 HA | 860 HA | |
| 002-Mclouth_PAH | C1-Benz(a)anthracenes/Chrysenes | C18ZACHRYS | 1000 | ug/kg | 27 UA | 1800 A | 1400 A | 2000 A | 29 UA | 1400 A | 1500 A | 4600 A | 28 UA | 1300 A | 1100 A | 540 A | |
| 002-Mclouth_PAH | C1-Dibenz(a,h)anthracenes | 53-70-3-C1 | | ug/kg | 27 UA | 31 UA | 29 UA | 30 UA | 29 UA | 29 UA | 34 A | 660 A | 28 UA | 27 UA | 28 UA | 25 UA | |
| 002-Mclouth_PAH | C1-Fluoranthenes/Pyrenes | C1FLPY | 1000 | ug/kg | 27 UA | 2800 A | 2800 A | 3700 A | 3200 A | 5200 A | 2600 A | 8400 A | 1700 A | 2900 A | 2400 A | 1500 A | |
| 002-Mclouth_PAH | C1-Fluoranthene | C1FLUOR | 600 | ug/kg | 1100 A | 1500 A | 770 A | 1900 A | 920 A | 1100 A | 390 A | 850 A | 950 A | 1200 A | 720 A | 550 A | |
| 002-Mclouth_PAH | C1-Naphthalene | 91-20-3-C1 | 600 | ug/kg | 130 A | 840 A | 620 A | 440 A | 720 A | 950 A | 190 A | 420 A | 470 A | 560 A | 390 A | 380 A | |
| 002-Mclouth_PAH | C1-Phenanthrenes/Anthracenes | C1PHAN | 600 | ug/kg | 850 A | 5900 A | 3200 A | 3800 A | 5800 A | 6700 A | 1800 A | 4200 A | 4100 A | 5000 A | 4300 A | 3000 A | |
| 002-Mclouth_PAH | C2-Benz(a)anthracene/Chrysene | C2BANCHRYS | 1000 | ug/kg | 27 UA | 31 UA | 29 UA | 30 UA | 29 UA | 29 UA | 310 A | 1200 A | 28 UA | 330 A | 28 UA | 25 UA | |
| 002-Mclouth_PAH | C2-Dibenz(a,h)anthracenes | 53-70-3-C2 | | ug/kg | 27 UA | 31 UA | 29 UA | 30 UA | 29 UA | 29 UA | 24 UA | 31 A | 28 UA | 27 UA | 28 UA | 25 UA | |
| 002-Mclouth_PAH | C2-Fluoranthenes/Pyrenes | C2FLPY | | ug/kg | 27 UA | 31 UA | 29 UA | 29 UA | 29 UA | 1100 A | 1200 A | 4600 A | 28 UA | 790 A | 990 A | 920 A | |
| 002-Mclouth_PAH | C2-Fluorenes | C2FLUOR | 600 | ug/kg | 690 A | 2700 A | 29 UA | 2400 A | 3000 A | 2200 A | 290 A | 360 A | 1900 A | 1900 A | 1600 A | 1100 A | |
| 002-Mclouth_PAH | C2-Naphthalene | 91-20-3-C2 | 600 | ug/kg | 480 A | 3600 A | 1800 A | 2700 A | 2700 A | 3900 A | 400 A | 450 A | 1600 A | 1900 A | 1300 A | 1300 A | |
| 002-Mclouth_PAH | C2-Phenanthrenes/Anthracenes | C2PHAN | 600 | ug/kg | 2500 A | 8600 A | 5400 A | 5000 A | 8000 A | 8900 A | 1700 A | 2500 A | 6300 A | 8200 A | 6900 A | 4500 A | |
| 002-Mclouth_PAH | C3-Benz(a)anthracenes/Chrysenes | C3BAACYR | 1000 | ug/kg | 27 UA | 31 UA | 29 UA | 30 UA | 29 UA | 29 UA | 24 UA | 22 UA | 28 UA | 27 UA | 28 UA | 25 UA | |
| 002-Mclouth_PAH | C3-Dibenz(a,h)anthracenes | 53-70-3-C3 | | ug/kg | 27 UA | 31 UA | 29 UA | 30 UA | 29 UA | 29 UA | 24 UA | 22 UA | 28 UA | 27 UA | 28 UA | 25 UA | |
| 002-Mclouth_PAH | C3-Fluoranthenes/Pyrenes | C3FLPY | | ug/kg | 970 A | 980 A | 870 A | 1100 A | 850 A | 880 A | 860 A | 850 A | 810 A | 760 A | 670 A | 270 A | |
| 002-Mclouth_PAH | C3-Fluorenes | C3FLUOR | 600 | ug/kg | 1400 A | 1600 A | 29 UA | 2600 A | 1400 A | 2000 A | 200 A | 140 A | 1300 A | 1500 A | 1300 A | 850 A | |
| 002-Mclouth_PAH | C3-Naphthalene | 91-20-3-C3 | 600 | ug/kg | 1300 A | 6500 A | 2800 A | 3400 A | 4700 A | 6300 A | 550 A | 380 A | 3300 A | 3500 A | 3000 A | 2700 A | |
| 002-Mclouth_PAH | C3-Phenanthrenes/Anthracenes | C3PHAN | 600 | ug/kg | 2500 A | 7500 A | 6000 A | 4200 A | 6900 A | 8100 A | 1100 A | 920 A | 4700 A | 8300 A | 6200 A | 3500 A | |
| 002-Mclouth_PAH | C4-Benz(a)anthracenes/Chrysenes | C4BAACYR | 1000 | ug/kg | 27 UA | 31 UA | 29 UA | 30 UA | 29 UA | 29 UA | 57 A | 200 A | 28 UA | 27 UA | 28 UA | 25 UA | |
| 002-Mclouth_PAH | C4-Naphthalene | 91-20-3-C4 | 600 | ug/kg | 900 A | 5500 A | 2600 A | 3500 A | 5100 A | 6800 A | 700 A | 660 A | 2200 A | 2800 A | 4900 A | 1600 A | |
| 002-Mclouth_PAH | C4-Phenanthrenes/Anthracenes | C4PHAN | 600 | ug/kg | 27 UA | 1900 A | 1500 A | 1700 A | 4000 A | 730 A | 720 A | 1200 A | 1400 A | 1900 A | 1100 A | 590 A | |
| 002-Mclouth_PAH | Chrysene | 218-01-9 | 166 | ug/kg | 2200 A | 1500 A | 2600 A | 1600 A | 3200 A | 2500 A | 10000 HA | 28 UA | 27 UA | 1800 A | 1200 A | | |
| 002-Mclouth_PAH | Dibenz(a,h)anthracene | 53-70-3 | 33 | ug/kg | 90 UHA | 100 UHA | 96 UHA | 99 UHA | 97 UHA | 97 UHA | 600 A | 790 A | 28 UA | 91 UHA | 94 UHA | 83 UHA | |
| 002-Mclouth_PAH | Fluoranthene | 206-44-0 | 423 | ug/kg | 1300 A | 3000 A | 2200 A | 2800 A | 2800 A | 5000 A | 4000 A | 15000 HA | 2100 A | 3700 A | 2700 A | 1700 A | |
| 002-Mclouth_PAH | Fluorene | 86-73-7 | 77.4 | ug/kg | 27 UA | 31 UA | 29 UA | 30 UA | 29 UA | 690 A | 320 A | 870 A | 340 A | 27 UA | 28 UA | 25 UA | |
| 002-Mclouth_PAH | Indeno(1,2,3-c,d)pyrene | 193-39-5 | 200 | ug/kg | 90 UHA | 100 UHA | 96 UHA | 1400 HA | 97 UHA | 1500 HA | 1900 A | 3300 A | 28 UA | 91 UHA | 860 HA | 83 UHA | |
| 002-Mclouth_PAH | Naphthalene | 91-20-3 | 176 | ug/kg | 200 A | 720 A | 810 A | 540 A | 450 A | 540 A | 550 A | 1300 A | 310 A | 560 A | 400 A | 320 A | |
| 002-Mclouth_PAH | Perylene | 198-55-0 | 1000 | ug/kg | 90 UHA | 100 UHA | 96 UHA | 99 UHA | 97 UHA | 97 UHA | 1000 A | 1900 A | 28 UA | 91 UHA | 94 UHA | 83 UHA | |
| 002-Mclouth_PAH | Phenanthrene | 85-01-8 | 204 | ug/kg | 960 A | 3200 A | 1900 A | 2700 A | 2700 A | 3600 A | 2500 A | 7600 HA | 2000 A | 3100 A | 2200 A | 1600 A | |
| 002-Mclouth_PAH | Pyrene | 129-00-0 | 195 | ug/kg | 1400 A | 4000 A | 3000 A | 4900 A | 3500 A | 5800 A | 4200 A | 1000 A | 2500 A | 4800 A | 3300 A | 2100 A | |

Notes:

- 1. Identifies results that exceed the listed PAL value
- 2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

- CAS # - Chemical Abstract Service Number
- FD - Field duplicate
- N - Field sample
- PAL - Project Action Limit
- A - Unvalidated Result
- H - Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
- J - The identification of the analyte is acceptable; the reported value is an estimate
- U - Not detected

Table B - PAHs Detection Results

| Method Group | Analyte | CAS # | Sed PAL | Units | Location | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD07 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD09 | MSTC23-SD09 |
|------------------|---------------------------------|------------|-------------|-----------------|-----------------|-----------------|------------------|--------------------|--------------------|-----------------|-----------------|---------------------|--------------------|-----------------|-----------------|-------------|
| | | | | | MSTC23-SD06-7.0 | MSTC23-SD06-9.0 | MSTC23-SD06A-7.0 | MSTC23-SD06-SS-0.5 | MSTC23-SD07-SS-0.5 | MSTC23-SD08-1.0 | MSTC23-SD08-2.0 | MSTC23-SD08A-SS-0.5 | MSTC23-SD08-SS-0.5 | MSTC23-SD09-1.0 | MSTC23-SD09-2.0 | |
| Start Depth | End Depth | Depth Unit | Sample Type | Parent Sample # | Sample Date | | | | | | | | | | | |
| 002-McClouth_PAH | 2-Methylnaphthalene | 91-57-6 | | ug/kg | | 330 A | 270 A | 390 A | 57 A | 180 A | 20 UA | 6 UA | 21 JA | 32 A | 420 HA | 18 UHA |
| 002-McClouth_PAH | Acenaphthene | 83-32-9 | 6.71 | ug/kg | | 170 A | 24 UA | 26 UA | 60 A | 760 A | 20 UA | 6 UA | 44 A | 52 A | 27 UHA | 18 UHA |
| 002-McClouth_PAH | Acenaphthylene | 208-96-8 | 5.87 | ug/kg | | 180 A | 230 A | 26 UA | 84 A | 230 A | 20 UA | 6 UA | 45 A | 45 A | 27 UHA | 18 UHA |
| 002-McClouth_PAH | Anthracene | 120-12-7 | 57.2 | ug/kg | | 440 A | 450 A | 440 A | 190 A | 2300 A | 14 JA | 6 UA | 92 A | 240 A | 580 HA | 17 JHA |
| 002-McClouth_PAH | Benzo(a)anthracene | 56-55-3 | 108 | ug/kg | | 1300 A | 1600 A | 1500 A | 810 A | 8300 A | 57 A | 6 UA | 490 A | 1400 A | 1600 HA | 59 HA |
| 002-McClouth_PAH | Benzo(a)pyrene | 50-32-8 | 110 | ug/kg | | 1300 A | 1400 A | 87 UA | 900 A | 26000 HA | 81 JHA | 66 UHA | 920 HA | 2500 HA | 27 UHA | 18 UHA |
| 002-McClouth_PAH | Benzo(b)fluoranthene | 205-99-2 | 1100 | ug/kg | | 1600 A | 1800 A | 2200 A | 1200 A | 27000 HA | 68 JHA | 66 UHA | 930 HA | 2500 HA | 1700 HA | 18 UHA |
| 002-McClouth_PAH | Benzo(g,h,i)perylene | 191-24-2 | 170 | ug/kg | | 87 UA | 81 UA | 87 UA | 500 A | 17000 HA | 68 UHA | 66 UHA | 600 HA | 1400 HA | 27 UHA | 18 UHA |
| 002-McClouth_PAH | Benzo(k)fluoranthene | 207-08-9 | 240 | ug/kg | | 680 A | 790 A | 530 A | 370 A | 8800 HA | 45 JHA | 66 UHA | 490 HA | 1100 HA | 570 HA | 18 UHA |
| 002-McClouth_PAH | Benzo(j)pyrene | 192-97-2 | 1000 | ug/kg | | 1000 A | 970 A | 87 UA | 610 A | 16000 HA | 54 JHA | 66 UHA | 1400 HA | 1400 HA | 27 UHA | 18 UHA |
| 002-McClouth_PAH | C1-Benz(a)anthracenes/Chrysenes | C18ZACHRYS | 1000 | ug/kg | | 1100 A | 24 UA | 1300 A | 340 A | 6200 A | 53 A | 6 UA | 340 A | 980 A | 1400 HA | 18 UHA |
| 002-McClouth_PAH | C1-Dibenz(a,h)anthracenes | 53-70-3-C1 | | ug/kg | | 26 UA | 24 UA | 26 UA | 25 JA | 1100 A | 20 UA | 6 UA | 21 UA | 180 A | 27 UHA | 18 UHA |
| 002-McClouth_PAH | C1-Fluoranthenes/Pyrenes | C1FLPY | 1000 | ug/kg | | 2500 A | 2200 A | 2300 A | 680 A | 6100 A | 81 A | 27 A | 470 A | 1500 A | 2600 HA | 78 HA |
| 002-McClouth_PAH | C1-Fluorenes | C1FLUOR | 600 | ug/kg | | 720 A | 590 A | 680 A | 100 A | 470 A | 27 JA | 16 A | 47 A | 140 A | 1300 HA | 18 UHA |
| 002-McClouth_PAH | C1-Naphthalene | 91-20-3-C1 | 600 | ug/kg | | 410 A | 330 A | 490 A | 60 A | 180 A | 20 UA | 6 UA | 21 UA | 34 A | 550 HA | 20 JHA |
| 002-McClouth_PAH | C1-Phenanthrenes/Anthracenes | C1PHAN | 600 | ug/kg | | 3400 A | 2600 A | 3900 A | 450 A | 1300 A | 45 A | 25 A | 210 A | 470 A | 3800 HA | 200 HA |
| 002-McClouth_PAH | C2-Benz(a)anthracene/Chrysene | C2BANCHRYS | 1000 | ug/kg | | 900 A | 24 UA | 26 UA | 110 A | 1600 A | 38 A | 16 A | 92 A | 270 A | 560 HA | 18 UHA |
| 002-McClouth_PAH | C2-Dibenz(a,h)anthracenes | 53-70-3-C2 | | ug/kg | | 26 UA | 24 UA | 26 UA | 20 UA | 32 UA | 20 UA | 6 UA | 21 UA | 21 UA | 27 UHA | 18 UHA |
| 002-McClouth_PAH | C2-Fluoranthenes/Pyrenes | C2FLPY | | ug/kg | | 470 A | 24 UA | 26 UA | 340 A | 2400 A | 45 A | 6 UA | 220 A | 570 A | 27 UHA | 18 UHA |
| 002-McClouth_PAH | C2-Fluorenes | C2FLUOR | 600 | ug/kg | | 1500 A | 870 A | 2100 A | 68 A | 330 A | 20 UA | 12 A | 79 A | 150 A | 2400 HA | 55 HA |
| 002-McClouth_PAH | C2-Naphthalene | 91-20-3-C2 | 600 | ug/kg | | 1400 A | 960 A | 1600 A | 95 A | 290 A | 20 UA | 7 JA | 47 A | 67 A | 1700 HA | 74 HA |
| 002-McClouth_PAH | C2-Phenanthrenes/Anthracenes | C2PHAN | 600 | ug/kg | | 6600 A | 3800 A | 6200 A | 320 A | 1500 A | 20 UA | 52 A | 280 A | 410 A | 5000 HA | 300 HA |
| 002-McClouth_PAH | C3-Benz(a)anthracenes/Chrysenes | C3BACACR | 1000 | ug/kg | | 26 UA | 24 UA | 26 UA | 20 UA | 32 UA | 20 UA | 6 UA | 21 UA | 21 UA | 27 UHA | 18 UHA |
| 002-McClouth_PAH | C3-Dibenz(a,h)anthracenes | 53-70-3-C3 | | ug/kg | | 26 UA | 24 UA | 26 UA | 20 UA | 32 UA | 20 UA | 6 UA | 21 UA | 21 UA | 27 UHA | 18 UHA |
| 002-McClouth_PAH | C3-Fluoranthenes/Pyrenes | C3FLPY | | ug/kg | | 26 UA | 80 A | 800 A | 760 A | 1300 A | 870 A | 760 A | 860 A | 920 A | 820 HA | 670 HA |
| 002-McClouth_PAH | C3-Fluorenes | C3FLUOR | 600 | ug/kg | | 3100 A | 1600 A | 1200 A | 110 A | 690 A | 20 UA | 6 UA | 110 A | 70 A | 2600 HA | 44 HA |
| 002-McClouth_PAH | C3-Naphthalene | 91-20-3-C3 | 600 | ug/kg | | 3100 A | 1700 A | 3400 A | 120 A | 250 A | 27 JA | 17 A | 86 A | 110 A | 3500 HA | 190 HA |
| 002-McClouth_PAH | C3-Phenanthrenes/Anthracenes | C3PHAN | 600 | ug/kg | | 5700 A | 4100 A | 4400 A | 200 A | 1400 A | 43 A | 48 A | 180 A | 21 UA | 7600 HA | 280 HA |
| 002-McClouth_PAH | C4-Benz(a)anthracenes/Chrysenes | C4BAACR | 1000 | ug/kg | | 26 UA | 24 UA | 26 UA | 23 JA | 93 A | 20 UA | 6 UA | 21 UA | 91 A | 27 UHA | 18 UHA |
| 002-McClouth_PAH | C4-Naphthalene | 91-20-3-C4 | 600 | ug/kg | | 4100 A | 2000 A | 2300 A | 110 A | 170 A | 57 A | 29 A | 140 A | 150 A | 3200 HA | 210 HA |
| 002-McClouth_PAH | C4-Phenanthrenes/Anthracenes | C4PHAN | 600 | ug/kg | | 1700 A | 1300 A | 2100 A | 160 A | 1600 A | 52 A | 31 A | 200 A | 350 A | 3800 HA | 130 HA |
| 002-McClouth_PAH | Chrysene | 218-01-9 | 166 | ug/kg | | 1400 A | 1900 A | 1500 A | 780 A | 9800 A | 52 A | 6 UA | 580 A | 1500 A | 1600 HA | 61 HA |
| 002-McClouth_PAH | Dibenz(a,h)anthracene | 53-70-3 | 33 | ug/kg | | 87 UA | 81 UA | 87 UA | 120 A | 3500 HA | 68 UHA | 66 UHA | 100 HA | 360 HA | 27 UHA | 18 UHA |
| 002-McClouth_PAH | Fluoranthene | 206-44-0 | 423 | ug/kg | | 2100 A | 2100 A | 2300 A | 1400 A | 7900 A | 69 A | 23 A | 730 A | 1700 A | 2700 HA | 78 HA |
| 002-McClouth_PAH | Fluorene | 86-73-7 | 77.4 | ug/kg | | 300 A | 400 A | 26 UA | 88 A | 300 A | 20 UA | 6 UA | 47 A | 69 A | 660 HA | 18 UHA |
| 002-McClouth_PAH | Indeno(1,2,3-c,d)pyrene | 193-39-5 | 200 | ug/kg | | 87 UA | 81 UA | 87 UA | 380 A | 13000 HA | 68 UHA | 66 UHA | 420 HA | 1100 HA | 27 UHA | 18 UHA |
| 002-McClouth_PAH | Naphthalene | 91-20-3 | 176 | ug/kg | | 380 A | 430 A | 470 A | 160 A | 370 A | 20 UA | 6 UA | 47 A | 48 A | 540 HA | 18 UHA |
| 002-McClouth_PAH | Perylene | 198-55-0 | 1000 | ug/kg | | 87 UA | 81 UA | 87 UA | 200 A | 6400 HA | 68 UHA | 66 UHA | 68 UHA | 610 HA | 27 UHA | 18 UHA |
| 002-McClouth_PAH | Phenanthrene | 85-01-8 | 204 | ug/kg | | 1700 A | 1700 A | 1900 A | 750 A | 2200 A | 41 A | 15 A | 270 A | 500 A | 2600 HA | 110 HA |
| 002-McClouth_PAH | Pyrene | 129-00-0 | 195 | ug/kg | | 2300 A | 3000 A | 2600 A | 1400 A | 10000 A | 76 A | 23 A | 790 A | 1900 A | 3000 HA | 76 HA |

Notes:

1. Identifies results that exceed the listed PAL value
2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

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CAS # - Chemical Abstract Service Number
FD - Field duplicate
N - Field sample
PAL - Project Action Limit
A - Unvalidated Result
H - Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J - The identification of the analyte is acceptable; the reported value is an estimate
U - Not detected

Table B - PAHs Detection Results

| | | Location | MSTC23-SD09 | MSTC23-SD10 | MSTC23-SD12 | MSTC23-SD13 | MSTC23-SD13 | MSTC23-SD13 | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD15 | MSTC23-SD19 | MSTC23-SD19 |
|------------------|---------------------------------|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------|-----------------|--------------------|--------------------|-----------------|-----------------|----------------|----------------|
| | | Sample # | MSTC23-SD09-SS-0.5 | MSTC23-SD10-SS-0.5 | MSTC23-SD12-SS-0.5 | MSTC23-SD13-SS-0.5 | MSTC23-SD13-SS-1.0 | MSTC23-SD14-1.0 | MSTC23-SD14-2.0 | MSTC23-SD14-SS-0.5 | MSTC23-SD15-SS-0.5 | MSTC23-SD19-1.0 | MSTC23-SD19-2.0 | | |
| | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 1 | 2 | 0.5 | 0.5 | 1 | 2 | 1 | 2 |
| | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft |
| | | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N | N |
| | | Parent Sample # | | | | | | | | | | | | | |
| | | Sample Date | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | | | |
| 002-McClouth_PAH | 2-Methylnaphthalene | 91-57-6 | | ug/kg | 390 HA | 66 HA | 41 HA | 12 JA | 18 UA | 18 UA | 19 UA | 35 A | 20 JA | 27 UA | 270 A |
| 002-McClouth_PAH | Acenaphthene | 83-32-9 | 6.71 | ug/kg | 360 HA | 130 HA | 210 HA | 19 JA | 18 UA | 18 UA | 19 UA | 370 A | 120 A | 460 A | 560 A |
| 002-McClouth_PAH | Acenaphthylene | 208-96-8 | 5.87 | ug/kg | 280 HA | 230 HA | 94 HA | 29 A | 18 UA | 18 UA | 19 UA | 140 A | 62 A | 610 A | 810 A |
| 002-McClouth_PAH | Anthracene | 120-12-7 | 57.2 | ug/kg | 1200 HA | 430 HA | 2400 HA | 110 A | 18 UA | 18 UA | 19 UA | 1200 A | 460 A | 3900 A | 1300 A |
| 002-McClouth_PAH | Benzo(a)anthracene | 56-55-3 | 108 | ug/kg | 2500 HA | 2100 HA | 2000 HA | 420 A | 18 UA | 18 UA | 19 UA | 5500 A | 2800 A | 3700 A | 4900 A |
| 002-McClouth_PAH | Benzo(a)pyrene | 50-32-8 | 110 | ug/kg | 2200 HA | 2500 HA | 2500 HA | 450 A | 18 UA | 18 UA | 19 UA | 5900 A | 3600 A | 4000 HA | 5500 HA |
| 002-McClouth_PAH | Benzo(b)fluoranthene | 205-99-2 | 1100 | ug/kg | 2800 HA | 3000 HA | 3100 HA | 510 A | 18 UA | 18 UA | 19 UA | 7800 HA | 4800 A | 4400 HA | 5800 HA |
| 002-McClouth_PAH | Benzo(g,h,i)perylene | 191-24-2 | 170 | ug/kg | 630 HA | 960 HA | 1200 HA | 220 A | 18 UA | 18 UA | 19 UA | 2500 A | 1500 A | 2400 HA | 3600 HA |
| 002-McClouth_PAH | Benzo(k)fluoranthene | 207-08-9 | 240 | ug/kg | 1100 HA | 950 HA | 1400 HA | 290 A | 18 UA | 18 UA | 19 UA | 3500 A | 2200 A | 1600 HA | 2700 HA |
| 002-McClouth_PAH | Benzo(e)pyrene | 192-97-2 | 1000 | ug/kg | 1500 HA | 1500 HA | 1600 HA | 320 A | 18 UA | 18 UA | 19 UA | 3900 A | 2600 A | 2500 HA | 3200 HA |
| 002-McClouth_PAH | C1-Benz(a)anthracenes/Chrysenes | C18ZACHRYS | 1000 | ug/kg | 1800 HA | 1100 HA | 890 HA | 19 UA | 18 UA | 18 UA | 19 UA | 2700 A | 1400 A | 4600 A | 4400 A |
| 002-McClouth_PAH | C1-Dibenz(a,h)anthracenes | 53-70-3-C1 | 1000 | ug/kg | 27 UHA | 130 HA | 52 HA | 19 UA | 18 UA | 18 UA | 19 UA | 20 UA | 350 A | 27 UA | 23 UA |
| 002-McClouth_PAH | C1-Fluoranthenes/Pyrenes | C1FLPY | 1000 | ug/kg | 3100 HA | 1800 HA | 1500 HA | 420 A | 61 A | 48 A | 53 A | 3700 A | 2000 A | 7600 A | 5600 A |
| 002-McClouth_PAH | C1-Fluorenes | C1FLUOR | 600 | ug/kg | 760 HA | 190 HA | 220 HA | 58 A | 39 A | 35 A | 430 A | 190 A | 1600 A | 600 A | 600 A |
| 002-McClouth_PAH | C1-Naphthalene | 91-20-3-C1 | 600 | ug/kg | 510 HA | 75 HA | 51 HA | 19 UA | 18 UA | 18 UA | 19 UA | 43 A | 21 JA | 530 A | 400 A |
| 002-McClouth_PAH | C1-Phenanthrenes/Anthracenes | C1PHAN | 600 | ug/kg | 4500 HA | 960 HA | 770 HA | 200 A | 140 A | 98 A | 94 A | 1600 A | 750 A | 5700 A | 2800 A |
| 002-McClouth_PAH | C2-Benz(a)anthracene/Chrysene | C2BANCHRYS | 1000 | ug/kg | 690 HA | 490 HA | 270 HA | 19 UA | 19 JA | 18 UA | 19 UA | 380 A | 300 A | 1800 A | 1900 A |
| 002-McClouth_PAH | C2-Dibenz(a,h)anthracenes | 53-70-3-C2 | 1000 | ug/kg | 27 UHA | 23 UHA | 23 UHA | 19 UA | 18 UA | 18 UA | 19 UA | 20 UA | 21 UA | 27 UA | 23 UA |
| 002-McClouth_PAH | C2-Fluoranthenes/Pyrenes | C2FLPY | 1000 | ug/kg | 27 UHA | 190 HA | 230 HA | 120 A | 72 A | 60 A | 68 A | 2600 A | 1500 A | 4200 A | 3400 A |
| 002-McClouth_PAH | C2-Fluorenes | C2FLUOR | 600 | ug/kg | 1100 HA | 120 HA | 75 HA | 61 A | 64 A | 65 A | 49 A | 100 A | 76 A | 1800 A | 880 A |
| 002-McClouth_PAH | C2-Naphthalene | 91-20-3-C2 | 600 | ug/kg | 1500 HA | 150 HA | 98 HA | 32 A | 64 A | 54 A | 46 A | 97 A | 47 A | 1300 A | 730 A |
| 002-McClouth_PAH | C2-Phenanthrenes/Anthracenes | C2PHAN | 600 | ug/kg | 4400 HA | 890 HA | 540 HA | 170 A | 110 A | 110 A | 91 A | 770 A | 410 A | 8200 A | 4800 A |
| 002-McClouth_PAH | C3-Benz(a)anthracenes/Chrysenes | C3BAAACR | 1000 | ug/kg | 27 UHA | 23 UHA | 23 UHA | 19 UA | 18 UA | 18 UA | 19 UA | 20 UA | 21 UA | 27 UA | 23 UA |
| 002-McClouth_PAH | C3-Dibenz(a,h)anthracenes | 53-70-3-C3 | 1000 | ug/kg | 27 UHA | 23 UHA | 23 UHA | 19 UA | 18 UA | 18 UA | 19 UA | 20 UA | 21 UA | 27 UA | 23 UA |
| 002-McClouth_PAH | C3-Fluoranthenes/Pyrenes | C3FLPY | 1000 | ug/kg | 910 HA | 890 HA | 800 HA | 30 A | 830 A | 770 A | 750 A | 820 A | 860 A | 970 A | 780 A |
| 002-McClouth_PAH | C3-Fluorenes | C3FLUOR | 600 | ug/kg | 1400 HA | 86 HA | 23 UHA | 68 A | 29 A | 18 UA | 19 UA | 560 A | 280 A | 2500 A | 23 UA |
| 002-McClouth_PAH | C3-Naphthalene | 91-20-3-C3 | 600 | ug/kg | 2700 HA | 190 HA | 100 HA | 49 A | 200 A | 150 A | 120 A | 120 A | 78 A | 2500 A | 1200 A |
| 002-McClouth_PAH | C3-Phenanthrenes/Anthracenes | C3PHAN | 600 | ug/kg | 6400 HA | 790 HA | 320 HA | 120 A | 70 A | 110 A | 120 A | 410 A | 280 A | 8500 A | 5700 A |
| 002-McClouth_PAH | C4-Benz(a)anthracenes/Chrysenes | C4BAAACR | 1000 | ug/kg | 27 UHA | 78 HA | 32 HA | 19 UA | 18 UA | 18 UA | 19 UA | 20 UA | 250 A | 27 UA | 23 UA |
| 002-McClouth_PAH | C4-Naphthalene | 91-20-3-C4 | 600 | ug/kg | 2000 HA | 210 HA | 200 HA | 51 A | 320 A | 210 A | 150 A | 110 A | 180 A | 1800 A | 950 A |
| 002-McClouth_PAH | C4-Phenanthrenes/Anthracenes | C4PHAN | 600 | ug/kg | 2200 HA | 590 HA | 460 HA | 62 A | 120 A | 18 JA | 93 A | 680 A | 690 A | 7900 A | 5300 A |
| 002-McClouth_PAH | Chrysene | 218-01-9 | 166 | ug/kg | 2600 HA | 1900 HA | 1900 HA | 470 A | 18 UA | 18 UA | 19 UA | 5800 A | 3400 A | 4200 A | 5000 A |
| 002-McClouth_PAH | Dibenz(a,h)anthracene | 53-70-3 | 33 | ug/kg | 27 UHA | 200 HA | 210 HA | 91 A | 18 UA | 18 UA | 19 UA | 1000 A | 540 A | 550 HA | 830 HA |
| 002-McClouth_PAH | Fluoranthene | 206-44-0 | 423 | ug/kg | 4800 HA | 3000 HA | 4200 HA | 760 A | 18 UA | 18 UA | 19 UA | 12000 HA | 6500 A | 5800 A | 6500 A |
| 002-McClouth_PAH | Fluorene | 86-73-7 | 77.4 | ug/kg | 830 HA | 160 HA | 240 HA | 35 A | 18 UA | 18 UA | 19 UA | 510 A | 160 A | 1000 A | 810 A |
| 002-McClouth_PAH | Indeno(1,2,3-c,d)pyrene | 193-39-5 | 200 | ug/kg | 570 HA | 860 HA | 1200 HA | 190 A | 18 UA | 18 UA | 19 UA | 2300 A | 1400 A | 2000 HA | 3200 HA |
| 002-McClouth_PAH | Naphthalene | 91-20-3 | 176 | ug/kg | 770 HA | 200 HA | 100 HA | 21 JA | 18 UA | 18 UA | 19 UA | 54 A | 55 A | 370 A | 880 A |
| 002-McClouth_PAH | Perylene | 198-55-0 | 1000 | ug/kg | 27 UHA | 570 HA | 800 HA | 130 A | 18 UA | 18 UA | 19 UA | 1400 A | 880 A | 90 UHA | 1300 HA |
| 002-McClouth_PAH | Phenanthrene | 85-01-8 | 204 | ug/kg | 4000 HA | 1500 HA | 2800 HA | 260 A | 48 A | 34 A | 30 A | 5900 A | 2500 A | 3800 A | 3300 A |
| 002-McClouth_PAH | Pyrene | 129-00-0 | 195 | ug/kg | 4400 HA | 2900 HA | 4000 HA | 780 A | 18 UA | 18 UA | 19 UA | 11000 HA | 6200 A | 7200 A | 7000 A |

Notes:

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Table B - PAHs Detection Results

| Location | | | | MSTC23-SD19 | MSTC23-SD20 | MSTC23-SD20 | MSTC23-SD20 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 |
|------------------|---------------------------------|------------|-------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|
| Sample # | | | | MSTC23-SD19-SS-0.5 | MSTC23-SD20-1.0 | MSTC23-SD20-2.0 | MSTC23-SD20-SS-0.5 | MSTC23-SD22-1.0 | MSTC23-SD22-2.0 | MSTC23-SD22-3.0 | MSTC23-SD22-5.0 | MSTC23-SD22-SS-0.5 | MSTC23-SD23-1.0 | MSTC23-SD23-2.0 | MSTC23-SD23-3.0 |
| Start Depth | | | | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 1 | 2 |
| End Depth | | | | 0.5 | 1 | 2 | 0.5 | 1 | 2 | 3 | 5 | 0.5 | 1 | 2 | 3 |
| Depth Unit | | | | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft |
| Sample Type | | | | N | N | N | N | N | N | N | N | N | N | N | N |
| Parent Sample # | | | | | | | | | | | | | | | |
| Sample Date | | | | 10/11/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | | | |
| 002-McClouth_PAH | 2-Methylnaphthalene | 91-57-6 | | ug/kg | 29 UA | 20 UA | 18 UA | 57 A | 23 UA | 220 A | 22 JA | 19 UA | 64 A | 14 A | 6 UA |
| 002-McClouth_PAH | Acenaphthene | 83-32-9 | 6.71 | ug/kg | 29 UA | 20 UA | 18 UA | 180 A | 23 UA | 490 A | 120 A | 19 UA | 38 UA | 6 UA | 6 UA |
| 002-McClouth_PAH | Acenaphthylene | 208-96-8 | 5.87 | ug/kg | 29 UA | 20 UA | 18 UA | 96 A | 360 A | 710 A | 140 A | 19 UA | 38 UA | 35 A | 6 UA |
| 002-McClouth_PAH | Anthracene | 120-12-7 | 57.2 | ug/kg | 1500 A | 39 A | 18 UA | 750 A | 2000 A | 1700 A | 310 A | 19 UA | 1400 A | 98 A | 6 UA |
| 002-McClouth_PAH | Benzo(a)anthracene | 56-55-3 | 108 | ug/kg | 3700 A | 210 A | 38 A | 2500 A | 2700 A | 4800 A | 930 A | 19 UA | 1300 A | 290 A | 12 A |
| 002-McClouth_PAH | Benzo(a)pyrene | 50-32-8 | 110 | ug/kg | 3900 HA | 93 A | 48 A | 5100 A | 2800 HA | 5200 HA | 1000 HA | 64 UHA | 1900 HA | 320 A | 64 UHA |
| 002-McClouth_PAH | Benzo(b)fluoranthene | 205-99-2 | 1100 | ug/kg | 4300 HA | 320 A | 56 A | 5200 A | 3100 HA | 4800 HA | 950 HA | 64 UHA | 2400 HA | 350 A | 64 UHA |
| 002-McClouth_PAH | Benzo(g,h,i)perylene | 191-24-2 | 170 | ug/kg | 2500 HA | 140 A | 18 UA | 2500 A | 1800 HA | 2800 HA | 530 HA | 64 UHA | 1600 HA | 130 A | 64 UHA |
| 002-McClouth_PAH | Benzo(k)fluoranthene | 207-08-9 | 240 | ug/kg | 1800 HA | 120 A | 26 A | 2300 A | 1100 HA | 2100 HA | 370 HA | 64 UHA | 1000 HA | 150 A | 64 UHA |
| 002-McClouth_PAH | Benzo(e)pyrene | 192-97-2 | 1000 | ug/kg | 2400 HA | 220 A | 36 A | 3100 A | 1700 HA | 2800 HA | 560 HA | 64 UHA | 1300 HA | 210 A | 64 UHA |
| 002-McClouth_PAH | C1-Benz(a)anthracenes/Chrysenes | C18ZACHRYS | 1000 | ug/kg | 3800 A | 170 A | 30 A | 1900 A | 2700 A | 4800 A | 940 A | 19 UA | 960 A | 200 A | 15 A |
| 002-McClouth_PAH | C1-Dibenz(a,h)anthracenes | 53-70-3-C1 | | ug/kg | 29 UA | 20 UA | 18 UA | 29 A | 23 UA | 23 UA | 21 UA | 19 UA | 38 UA | 24 A | 6 UA |
| 002-McClouth_PAH | C1-Fluoranthenes/Pyrenes | C1FLPY | 1000 | ug/kg | 5300 A | 330 A | 29 A | 1900 A | 3600 A | 6300 A | 1400 A | 19 UA | 1300 A | 380 A | 29 A |
| 002-McClouth_PAH | C1-Fluorenes | C1FLUOR | 600 | ug/kg | 970 A | 90 A | 18 UA | 150 A | 480 A | 980 A | 210 A | 19 UA | 310 A | 50 A | 11 A |
| 002-McClouth_PAH | C1-Naphthalene | 91-20-3-C1 | 600 | ug/kg | 490 A | 20 UA | 18 UA | 55 A | 120 A | 250 A | 23 JA | 19 UA | 66 A | 15 A | 6 UA |
| 002-McClouth_PAH | C1-Phenanthrenes/Anthracenes | C1PHAN | 600 | ug/kg | 4500 A | 20 UA | 18 UA | 500 A | 2600 A | 4500 A | 920 A | 19 UA | 850 A | 230 A | 20 A |
| 002-McClouth_PAH | C2-Benz(a)anthracene/Chrysene | C2BANCHRYS | 1000 | ug/kg | 29 UA | 20 UA | 40 A | 620 A | 1300 A | 1900 A | 390 A | 19 UA | 38 UA | 81 A | 14 A |
| 002-McClouth_PAH | C2-Dibenz(a,h)anthracenes | 53-70-3-C2 | | ug/kg | 29 UA | 20 UA | 18 UA | 20 UA | 23 UA | 23 UA | 21 UA | 19 UA | 38 UA | 6 UA | 6 UA |
| 002-McClouth_PAH | C2-Fluoranthenes/Pyrenes | C2FLPY | | ug/kg | 29 UA | 20 UA | 18 UA | 19 UA | 1300 A | 3600 A | 720 A | 19 UA | 1000 A | 170 A | 6 UA |
| 002-McClouth_PAH | C2-Fluorenes | C2FLUOR | 600 | ug/kg | 2300 A | 20 UA | 18 UA | 150 A | 740 A | 980 A | 170 A | 19 UA | 420 A | 48 A | 11 A |
| 002-McClouth_PAH | C2-Naphthalene | 91-20-3-C2 | 600 | ug/kg | 1200 A | 31 A | 18 UA | 80 A | 450 A | 560 A | 110 A | 19 UA | 380 A | 32 A | 6 UA |
| 002-McClouth_PAH | C2-Phenanthrenes/Anthracenes | C2PHAN | 600 | ug/kg | 6200 A | 260 A | 18 UA | 450 A | 3500 A | 4400 A | 860 A | 24 JA | 1100 A | 130 A | 34 A |
| 002-McClouth_PAH | C3-Benz(a)anthracenes/Chrysenes | C3BAACYR | 1000 | ug/kg | 29 UA | 20 UA | 18 UA | 20 UA | 23 UA | 23 UA | 21 UA | 19 UA | 38 UA | 6 UA | 6 UA |
| 002-McClouth_PAH | C3-Dibenz(a,h)anthracenes | 53-70-3-C3 | | ug/kg | 29 UA | 20 UA | 18 UA | 20 UA | 23 UA | 23 UA | 21 UA | 19 UA | 38 UA | 6 UA | 6 UA |
| 002-McClouth_PAH | C3-Fluoranthenes/Pyrenes | C3FLPY | | ug/kg | 900 A | 880 A | 820 A | 740 A | 860 A | 860 A | 790 A | 700 A | 1600 A | 850 A | 6 UA |
| 002-McClouth_PAH | C3-Fluorenes | C3FLUOR | 600 | ug/kg | 3400 A | 20 UA | 18 UA | 180 A | 23 UA | 290 A | 74 A | 19 UA | 640 A | 42 A | 6 UA |
| 002-McClouth_PAH | C3-Naphthalene | 91-20-3-C3 | 600 | ug/kg | 2200 A | 64 A | 27 A | 96 A | 990 A | 1100 A | 190 A | 19 UA | 680 A | 57 A | 13 A |
| 002-McClouth_PAH | C3-Phenanthrenes/Anthracenes | C3PHAN | 600 | ug/kg | 8200 A | 550 A | 64 A | 300 A | 4300 A | 3800 A | 520 A | 27 A | 1000 A | 80 A | 17 A |
| 002-McClouth_PAH | C4-Benz(a)anthracenes/Chrysenes | C4BAACYR | 1000 | ug/kg | 29 UA | 20 UA | 18 UA | 220 A | 23 UA | 23 UA | 21 UA | 19 UA | 38 UA | 6 UA | 6 UA |
| 002-McClouth_PAH | C4-Naphthalene | 91-20-3-C4 | 600 | ug/kg | 1400 A | 230 A | 68 A | 74 A | 870 A | 710 A | 240 A | 19 UA | 520 A | 42 A | 36 A |
| 002-McClouth_PAH | C4-Phenanthrenes/Anthracenes | C4PHAN | 600 | ug/kg | 5100 A | 310 A | 50 A | 98 A | 1900 A | 2200 A | 180 A | 19 UA | 430 A | 85 A | 24 A |
| 002-McClouth_PAH | Chrysene | 218-01-9 | 166 | ug/kg | 4000 A | 290 A | 46 A | 2900 A | 2700 A | 4700 A | 950 A | 19 UA | 1800 A | 350 A | 17 A |
| 002-McClouth_PAH | Dibenz(a,h)anthracene | 53-70-3 | 33 | ug/kg | 520 HA | 20 UA | 18 UA | 880 A | 380 HA | 640 HA | 110 HA | 64 UHA | 280 HA | 32 A | 64 UHA |
| 002-McClouth_PAH | Fluoranthene | 206-44-0 | 423 | ug/kg | 6100 A | 360 A | 46 A | 2700 A | 3700 A | 6000 A | 19 UA | 3300 A | 380 A | 19 A | 6 JA |
| 002-McClouth_PAH | Fluorene | 86-73-7 | 77.4 | ug/kg | 1400 A | 20 UA | 18 UA | 98 A | 440 A | 830 A | 92 A | 19 UA | 38 UA | 32 A | 6 UA |
| 002-McClouth_PAH | Indeno(1,2,3-c,d)pyrene | 193-39-5 | 200 | ug/kg | 2100 HA | 100 A | 18 UA | 2200 A | 1500 HA | 2400 HA | 420 HA | 64 UHA | 1300 HA | 120 A | 64 UHA |
| 002-McClouth_PAH | Naphthalene | 91-20-3 | 176 | ug/kg | 420 A | 21 JA | 18 UA | 150 A | 180 A | 250 A | 32 A | 19 UA | 61 A | 29 A | 6 UA |
| 002-McClouth_PAH | Perylene | 198-55-0 | 1000 | ug/kg | 96 UHA | 20 UA | 18 UA | 1400 A | 740 HA | 1200 HA | 780 HA | 64 UHA | 630 HA | 93 A | 64 UHA |
| 002-McClouth_PAH | Phenanthrene | 85-01-8 | 204 | ug/kg | 4200 A | 77 A | 18 JA | 710 A | 1900 A | 4300 A | 270 A | 19 UA | 1400 A | 190 A | 10 A |
| 002-McClouth_PAH | Pyrene | 129-00-0 | 195 | ug/kg | 7000 A | 390 A | 52 A | 2900 A | 4600 A | 7100 HA | 1900 A | 19 UA | 3200 A | 380 A | 18 A |

Notes:

1. Identifies results that exceed the listed PAL value
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CAS # - Chemical Abstract Service Number

FD - Field duplicate

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

H - Sample was prepped or analyzed beyond the specified holding time.

This does not meet regulatory requirements.

J - The identification of the analyte is acceptable; the reported value is an estimate

U - Not detected

Table B - PAHs Detection Results

| | | | | Location | MSTC23-SD23 | MSTC23-SD23 |
|-----------------|---------------------------------|------------|---------|-----------------|-----------------|--------------------|
| | | | | Sample # | MSTC23-SD23-5.0 | MSTC23-SD23-SS-0.5 |
| | | | | Start Depth | 3 | 0 |
| | | | | End Depth | 5 | 0.5 |
| | | | | Depth Unit | ft | ft |
| | | | | Sample Type | N | N |
| | | | | Parent Sample # | | |
| | | | | Sample Date | 10/16/2023 | 10/16/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | |
| 002-Mclouth_PAH | 2-Methylnaphthalene | 91-57-6 | | ug/kg | 6 UA | 92 A |
| 002-Mclouth_PAH | Acenaphthene | 83-32-9 | 6.71 | ug/kg | 6 UA | 140 A |
| 002-Mclouth_PAH | Acenaphthylene | 208-96-8 | 5.87 | ug/kg | 6 UA | 310 A |
| 002-Mclouth_PAH | Anthracene | 120-12-7 | 57.2 | ug/kg | 6 UA | 570 A |
| 002-Mclouth_PAH | Benzo(a)anthracene | 56-55-3 | 108 | ug/kg | 6 UA | 1900 A |
| 002-Mclouth_PAH | Benzo(a)pyrene | 50-32-8 | 110 | ug/kg | 63 UHA | 2500 A |
| 002-Mclouth_PAH | Benzo(b)fluoranthene | 205-99-2 | 1100 | ug/kg | 63 UHA | 2500 A |
| 002-Mclouth_PAH | Benzo(g,h,i)perylene | 191-24-2 | 170 | ug/kg | 63 UHA | 1000 A |
| 002-Mclouth_PAH | Benzo(k)fluoranthene | 207-08-9 | 240 | ug/kg | 63 UHA | 1200 A |
| 002-Mclouth_PAH | Benzo(e)pyrene | 192-97-2 | 1000 | ug/kg | 63 UHA | 1600 A |
| 002-Mclouth_PAH | C1-Benz(a)anthracenes/Chrysenes | C18ZACHRYS | 1000 | ug/kg | 6 UA | 1200 A |
| 002-Mclouth_PAH | C1-Dibenz(a,h)anthracenes | 53-70-3-C1 | | ug/kg | 6 UA | 200 A |
| 002-Mclouth_PAH | C1-Fluoranthenes/Pyrenes | C1FLPY | 1000 | ug/kg | 13 A | 2300 A |
| 002-Mclouth_PAH | C1-Fluorenes | C1FLUOR | 600 | ug/kg | 6 UA | 320 A |
| 002-Mclouth_PAH | C1-Naphthalene | 91-20-3-C1 | 600 | ug/kg | 6 UA | 89 A |
| 002-Mclouth_PAH | C1-Phenanthrenes/Anthracenes | C1PHAN | 600 | ug/kg | 22 A | 1100 A |
| 002-Mclouth_PAH | C2-Benz(a)anthracene/Chrysene | C2BANCHRYS | 1000 | ug/kg | 14 A | 370 A |
| 002-Mclouth_PAH | C2-Dibenz(a,h)anthracenes | 53-70-3-C2 | | ug/kg | 6 UA | 35 UA |
| 002-Mclouth_PAH | C2-Fluoranthenes/Pyrenes | C2FLPY | | ug/kg | 20 A | 1400 A |
| 002-Mclouth_PAH | C2-Fluorenes | C2FLUOR | 600 | ug/kg | 20 A | 35 UA |
| 002-Mclouth_PAH | C2-Naphthalene | 91-20-3-C2 | 600 | ug/kg | 6 UA | 200 A |
| 002-Mclouth_PAH | C2-Phenanthrenes/Anthracenes | C2PHAN | 600 | ug/kg | 34 A | 820 A |
| 002-Mclouth_PAH | C3-Benz(a)anthracenes/Chrysenes | C3BAACYR | 1000 | ug/kg | 6 UA | 35 UA |
| 002-Mclouth_PAH | C3-Dibenz(a,h)anthracenes | 53-70-3-C3 | | ug/kg | 6 UA | 35 UA |
| 002-Mclouth_PAH | C3-Fluoranthenes/Pyrenes | C3FLPY | | ug/kg | 790 A | 1600 A |
| 002-Mclouth_PAH | C3-Fluorenes | C3FLUOR | 600 | ug/kg | 6 UA | 35 UA |
| 002-Mclouth_PAH | C3-Naphthalene | 91-20-3-C3 | 600 | ug/kg | 15 A | 160 A |
| 002-Mclouth_PAH | C3-Phenanthrenes/Anthracenes | C3PHAN | 600 | ug/kg | 48 A | 500 A |
| 002-Mclouth_PAH | C4-Benz(a)anthracenes/Chrysenes | C4BAACYR | 1000 | ug/kg | 6 UA | 35 UA |
| 002-Mclouth_PAH | C4-Naphthalene | 91-20-3-C4 | 600 | ug/kg | 53 A | 100 A |
| 002-Mclouth_PAH | C4-Phenanthrenes/Anthracenes | C4PHAN | 600 | ug/kg | 28 A | 540 A |
| 002-Mclouth_PAH | Chrysene | 218-01-9 | 166 | ug/kg | 6 UA | 2100 A |
| 002-Mclouth_PAH | Dibenz(a,h)anthracene | 53-70-3 | 33 | ug/kg | 63 UHA | 220 A |
| 002-Mclouth_PAH | Fluoranthene | 206-44-0 | 423 | ug/kg | 8 A | 3100 A |
| 002-Mclouth_PAH | Fluorene | 86-73-7 | 77.4 | ug/kg | 6 UA | 200 A |
| 002-Mclouth_PAH | Indeno(1,2,3-c,d)pyrene | 193-39-5 | 200 | ug/kg | 63 UHA | 910 A |
| 002-Mclouth_PAH | Naphthalene | 91-20-3 | 176 | ug/kg | 6 UA | 240 A |
| 002-Mclouth_PAH | Perylene | 198-55-0 | 1000 | ug/kg | 63 UHA | 440 A |
| 002-Mclouth_PAH | Phenanthrene | 85-01-8 | 204 | ug/kg | 5 JA | 1400 A |
| 002-Mclouth_PAH | Pyrene | 129-00-0 | 195 | ug/kg | 9 A | 3200 A |

Notes:

1. Identifies results that exceed the listed PAL value
2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

CAS # - Chemical Abstract Service Number

FD - Field duplicate

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

H - Sample was prepped or analyzed beyond the specified holding time.

This does not meet regulatory requirements.

J - The identification of the analyte is acceptable; the reported value is an estimate

U - Not detected

Table C - Pesticides & PCBs Detection Results

| | | | | Location | MSTC23-SD01 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD03 | MSTC23-SD03 | MSTC23-SD03 |
|------------------------|---|------------|---------|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|
| | | | | Sample # | MSTC23-SD01-SS-0.5 | MSTC23-SD02-1.0 | MSTC23-SD02-2.0 | MSTC23-SD02-SS-0.5 | MSTC23-SD03-1.0 | MSTC23-SD03-2.0 | MSTC23-SD03-SS-0.5 |
| | | | | Start Depth | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| | | | | End Depth | 0.5 | 1 | 2 | 0.5 | 1 | 2 | 0.5 |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Parent Sample # | | | | | | | |
| | | | | Sample Date | 10/18/2023 | 10/19/2023 | 10/19/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | |
| 003-Mclouth_PestPCB | ALDRIN | 309-00-2 | 2 | ug/kg | 29 | 45 J | 35 J | 19 J+ | 36 J | 46 J | 3.7 J |
| 003-Mclouth_PestPCB | ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE) | 319-84-6 | 6 | ug/kg | 5.7 J | 3.2 J | 12 J | 8.9 J | 12 J | 0.52 J | 0.77 J |
| 003-Mclouth_PestPCB | ALPHA ENDOSULFAN | 959-98-8 | 3.26 | ug/kg | 13 J | 26 J | 11 J | 30 J | 17 J | 17 J | 2.8 UJ |
| 003-Mclouth_PestPCB | ALPHA-CHLORDANE | 5103-71-9 | 3.24 | ug/kg | 0.68 BA | 60 J | 38 NJ | 21 NJ | 36 J | 24 J | 1 J |
| 003-Mclouth_PestPCB | BETA BHC (BETA HEXACHLOROCYCLOHEXANE) | 319-85-7 | 5 | ug/kg | 51 | 86 J | 49 J | 170 J | 43 J | 58 J | 240 J |
| 003-Mclouth_PestPCB | BETA ENDOSULFAN | 33213-65-9 | 1.94 | ug/kg | 19 J | 23 J | 20 J | 84 J+ | 23 J | 2.5 J | 52 J |
| 003-Mclouth_PestPCB | BETA-CHLORDANE | 5103-74-2 | 3.24 | ug/kg | 43 J | 62 J+ | 91 J | 51 J+ | 41 J | 16 J | 30 J |
| 003-Mclouth_PestPCB | DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE) | 319-86-8 | 300 | ug/kg | 47 | 45 J | 28 J | 78 J+ | 32 J | 50 J | 37 J |
| 003-Mclouth_PestPCB | DIELDRIN | 60-57-1 | 1.9 | ug/kg | 62 | 200 J+ | 170 | 90 | 160 J | 120 J | 19 J |
| 003-Mclouth_PestPCB | ENDOSULFAN SULFATE | 1031-07-8 | 34.6 | ug/kg | 13 J | 35 J | 25 | 17 J+ | 24 J | 20 J | 11 J |
| 003-Mclouth_PestPCB | ENDRIN | 72-20-8 | 2.22 | ug/kg | 19 J | 16 J | 11 J | 260 | 11 J | 6.7 J | 5.4 UJ |
| 003-Mclouth_PestPCB | ENDRIN ALDEHYDE | 7421-93-4 | 480 | ug/kg | 63 | 19 J | 17 J | 110 J | 15 J | 4.9 J | 5.4 UJ |
| 003-Mclouth_PestPCB | ENDRIN KETONE | 53494-70-5 | | ug/kg | 60 | 96 | 56 J | 87 J+ | 50 J | 78 J | 82 J |
| 003-Mclouth_PestPCB | GAMMA BHC (LINDANE) | 58-89-9 | 2.37 | ug/kg | 8.8 | 4.5 J | 1.3 J | 11 J+ | 6.3 J | 1.9 J | 13 J |
| 003-Mclouth_PestPCB | HEPTACHLOR | 76-44-8 | 0.6 | ug/kg | 3 U | 3.8 U | 3 U | 3.6 U | 3.5 UJ | 3.3 UJ | 2.8 UJ |
| 003-Mclouth_PestPCB | HEPTACHLOR EPOXIDE | 1024-57-3 | 2.47 | ug/kg | 59 | 12 J | 84 J | 61 J+ | 7.8 J | 4.5 J | 8.8 J |
| 003-Mclouth_PestPCB | METHOXYCHLOR | 72-43-5 | 13.6 | ug/kg | 15 J | 30 J | 25 J | 50 J | 25 J | 20 J | 19 J |
| 003-Mclouth_PestPCB | P,P'-DDD | 72-54-8 | 4.88 | ug/kg | 12 J | 17 J | 23 | 11 J | 24 J | 51 J | 8.5 J |
| 003-Mclouth_PestPCB | P,P'-DDE | 72-55-9 | 3.16 | ug/kg | 70 J | 85 J | 72 J | 16 J+ | 83 J | 76 J+ | 6.7 J |
| 003-Mclouth_PestPCB | P,P'-DDT | 50-29-3 | 4.16 | ug/kg | 100 | 270 J | 220 J | 190 | 250 J | 180 J | 43 J |
| 003-Mclouth_PestPCB | PCB-1016 (AROCLOR 1016) | 12674-11-2 | 59.8 | ug/kg | 58 U | 150 U | 120 U | 350 U | 340 UJ | 320 UJ | 54 UJ |
| 003-Mclouth_PestPCB | PCB-1221 (AROCLOR 1221) | 11104-28-2 | 59.8 | ug/kg | 58 U | 150 R | 120 U | 350 U | 340 UJ | 320 UJ | 54 UJ |
| 003-Mclouth_PestPCB | PCB-1232 (AROCLOR 1232) | 11141-16-5 | 59.8 | ug/kg | 58 U | 150 R | 120 U | 350 U | 340 UJ | 320 UJ | 54 UJ |
| 003-Mclouth_PestPCB | PCB-1242 (AROCLOR 1242) | 53469-21-9 | 59.8 | ug/kg | 58 U | 150 R | 120 U | 350 U | 340 UJ | 320 UJ | 54 UJ |
| 003-Mclouth_PestPCB | PCB-1248 (AROCLOR 1248) | 12672-29-6 | 59.8 | ug/kg | 1800 J+ | 2900 J+ | 5000 J+ | 1900 J+ | 5600 J | 6000 J | 1100 J |
| approved Final Quality | PCB-1254 (AROCLOR 1254) | 11097-69-1 | 59.8 | ug/kg | 58 U | 150 R | 120 U | 350 U | 340 UJ | 320 UJ | 54 UJ |
| 003-Mclouth_PestPCB | PCB-1260 (AROCLOR 1260) | 11096-82-5 | 59.8 | ug/kg | 1200 J+ | 1700 J+ | 2500 J+ | 4000 J+ | 2900 J | 2300 J | 1800 J |
| 003-Mclouth_PestPCB | PCB-1262 (AROCLOR 1262) | 37324-23-5 | 59.8 | ug/kg | 58 U | 150 R | 120 U | 350 U | 340 UJ | 320 UJ | 54 UJ |
| 003-Mclouth_PestPCB | PCB-1268 (AROCLOR 1268) | 11100-14-4 | 59.8 | ug/kg | 58 U | 150 R | 120 U | 350 U | 340 UJ | 320 UJ | 54 UJ |
| 003-Mclouth_PestPCB | TOXAPHENE | 8001-35-2 | 0.077 | ug/kg | 300 U | 380 U | 300 U | 360 U | 350 UJ | 330 UJ | 280 UJ |

Notes:

1. Identifies results that exceed the listed PAL value
2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the Mclouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

- CAS # - Chemical Abstract Service Number
 - FD - Field duplicate
 - N - Field sample
 - PAL - Project Action Limit
 - A - Unvalidated Result
 - B - The target analyte was detected in the associated blank.
 - J - The identification of the analyte is acceptable; the reported value is an estimate
 - J+ - The result is an estimated quantity, but the results may be biased high
 - J- - The result is an estimated quantity, but the results may be biased low
 - R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria.
- The analyte may or may not be present in the sample.
- U - Not detected

Table C - Pesticides & PCBs Detection Results

| | | | | Location | MSTC23-SD05 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 |
|------------------------|---|------------|---------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-------------|
| | | | | Sample # | MSTC23-SD05-SS-0.5 | MSTC23-SD06-1.0 | MSTC23-SD06-2.0 | MSTC23-SD06-3.0 | MSTC23-SD06-5.0 | MSTC23-SD06-7.0 | MSTC23-SD06-9.0 | MSTC23-SD06A-7.0 | |
| | | | | Start Depth | 0 | 0 | 1 | 2 | 3 | 5 | 7 | 5 | |
| | | | | End Depth | 0.5 | 1 | 2 | 3 | 5 | 7 | 9 | 7 | |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | |
| | | | | Sample Type | N | N | N | N | N | N | N | FD | |
| | | | | Parent Sample # | | | | | | | | MSTC23-SD06-7.0 | |
| | | | | Sample Date | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | |
| 003-Mclouth_PestPCB | ALDRIN | 309-00-2 | 2 | ug/kg | 27 J | 11 J | 13 J | 29 J | 14 J | 11 J+ | 3.9 J | 14 J+ | |
| 003-Mclouth_PestPCB | ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE) | 319-84-6 | 6 | ug/kg | 2.8 UJ | 12 J | 24 J | 31 J | 28 J | 0.69 J+ | 0.43 J | 0.68 J+ | |
| 003-Mclouth_PestPCB | ALPHA ENDOSULFAN | 959-98-8 | 3.26 | ug/kg | 21 J | 6.3 J | 15 J | 18 J | 18 J | 18 J+ | 9.4 J+ | 15 J+ | |
| 003-Mclouth_PestPCB | ALPHA-CHLORDANE | 5103-71-9 | 3.24 | ug/kg | 2.8 UJ | 6.1 NJ | 18 NJ | 25 NJ | 23 NJ | 74 J+ | 30 J+ | 65 J+ | |
| 003-Mclouth_PestPCB | BETA BHC (BETA HEXACHLOROCYCLOHEXANE) | 319-85-7 | 5 | ug/kg | 370 J | 36 J | 66 J | 45 J | 78 J+ | 97 J+ | 83 J | 110 J+ | |
| 003-Mclouth_PestPCB | BETA ENDOSULFAN | 33213-65-9 | 1.94 | ug/kg | 110 J | 20 J | 20 J | 45 J | 59 J | 49 J+ | 33 J | 56 J+ | |
| 003-Mclouth_PestPCB | BETA-CHLORDANE | 5103-74-2 | 3.24 | ug/kg | 92 J | 26 J | 68 J | 120 J+ | 160 J+ | 120 J+ | 12 J+ | 110 J+ | |
| 003-Mclouth_PestPCB | DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE) | 319-86-8 | 300 | ug/kg | 64 J | 37 J | 46 J+ | 59 J+ | 57 J+ | 42 J+ | 27 J+ | 53 J+ | |
| 003-Mclouth_PestPCB | DIELDRIN | 60-57-1 | 1.9 | ug/kg | 16 J | 35 J | 130 J | 240 J+ | 220 J+ | 210 J+ | 82 J | 180 J+ | |
| 003-Mclouth_PestPCB | ENDOSULFAN SULFATE | 1031-07-8 | 34.6 | ug/kg | 37 J | 15 J | 26 J+ | 54 J | 62 J | 38 J+ | 32 J+ | 41 J+ | |
| 003-Mclouth_PestPCB | ENDRIN | 72-20-8 | 2.22 | ug/kg | 410 J | 16 J | 7.4 J | 17 J | 13 J | 14 J+ | 3.8 J | 10 J+ | |
| 003-Mclouth_PestPCB | ENDRIN ALDEHYDE | 7421-93-4 | 480 | ug/kg | 77 J | 6.8 J | 11 J | 16 J | 14 J | 16 J+ | 8.8 J | 15 J+ | |
| 003-Mclouth_PestPCB | ENDRIN KETONE | 53494-70-5 | | ug/kg | 170 J | 75 J | 64 J | 74 J | 110 J | 86 J+ | 79 | 84 J+ | |
| 003-Mclouth_PestPCB | GAMMA BHC (LINDANE) | 58-89-9 | 2.37 | ug/kg | 16 J | 8.9 J | 13 J+ | 3.6 J | 1.9 J | 3.2 J+ | 2.9 U | 2.2 J+ | |
| 003-Mclouth_PestPCB | HEPTACHLOR | 76-44-8 | 0.6 | ug/kg | 2.8 UJ | 2.7 UJ | 3.2 UJ | 2.9 UJ | 2.8 UJ | 2.9 U | 2.9 U | 3 U | |
| 003-Mclouth_PestPCB | HEPTACHLOR EPOXIDE | 1024-57-3 | 2.47 | ug/kg | 270 J | 28 J | 6.5 J | 12 J | 9.3 J | 8.5 J+ | 2.8 J | 6.8 J+ | |
| 003-Mclouth_PestPCB | METHOXYCHLOR | 72-43-5 | 13.6 | ug/kg | 63 J | 27 J | 24 J | 54 J | 79 J | 51 J+ | 34 J | 57 J+ | |
| 003-Mclouth_PestPCB | P,P'-DDD | 72-54-8 | 4.88 | ug/kg | 28 J | 6 J | 14 J | 24 J | 27 J | 61 J+ | 21 J | 58 J+ | |
| 003-Mclouth_PestPCB | P,P'-DDE | 72-55-9 | 3.16 | ug/kg | 95 J+ | 14 J | 27 J+ | 55 J | 73 J | 150 J+ | 93 J+ | 150 J+ | |
| 003-Mclouth_PestPCB | P,P'-DDT | 50-29-3 | 4.16 | ug/kg | 34 J | 65 J | 340 J | 470 J+ | 420 J+ | 320 J+ | 150 J+ | 290 J+ | |
| 003-Mclouth_PestPCB | PCB-1016 (AROCLOR 1016) | 12674-11-2 | 59.8 | ug/kg | 550 UJ | 52 UJ | 61 UJ | 280 UJ | 270 UJ | 57 U | 56 U | 58 UJ | |
| 003-Mclouth_PestPCB | PCB-1221 (AROCLOR 1221) | 11104-28-2 | 59.8 | ug/kg | 550 UJ | 52 UJ | 61 UJ | 280 UJ | 270 UJ | 57 U | 56 R | 58 UJ | |
| 003-Mclouth_PestPCB | PCB-1232 (AROCLOR 1232) | 11141-16-5 | 59.8 | ug/kg | 550 UJ | 52 UJ | 61 UJ | 280 UJ | 270 UJ | 57 U | 56 R | 58 UJ | |
| 003-Mclouth_PestPCB | PCB-1242 (AROCLOR 1242) | 53469-21-9 | 59.8 | ug/kg | 550 UJ | 52 UJ | 61 UJ | 280 UJ | 270 UJ | 57 U | 56 R | 58 UJ | |
| 003-Mclouth_PestPCB | PCB-1248 (AROCLOR 1248) | 12672-29-6 | 59.8 | ug/kg | 1400 J | 1300 J | 4900 J+ | 7800 J+ | 6700 J+ | 5600 J+ | 3000 J | 5600 J+ | |
| approved Final Quality | PCB-1254 (AROCLOR 1254) | 11097-69-1 | 59.8 | ug/kg | 550 UJ | 52 UJ | 61 UJ | 280 UJ | 270 UJ | 57 U | 56 R | 58 UJ | |
| 003-Mclouth_PestPCB | PCB-1260 (AROCLOR 1260) | 11096-82-5 | 59.8 | ug/kg | 3100 J | 580 J | 560 J+ | 4600 J+ | 5000 J+ | 2400 J+ | 440 J | 940 J+ | |
| 003-Mclouth_PestPCB | PCB-1262 (AROCLOR 1262) | 37324-23-5 | 59.8 | ug/kg | 550 UJ | 52 UJ | 61 UJ | 280 UJ | 270 UJ | 57 U | 56 R | 58 UJ | |
| 003-Mclouth_PestPCB | PCB-1268 (AROCLOR 1268) | 11100-14-4 | 59.8 | ug/kg | 550 UJ | 52 UJ | 61 UJ | 280 UJ | 270 UJ | 57 U | 56 R | 58 UJ | |
| 003-Mclouth_PestPCB | TOXAPHENE | 8001-35-2 | 0.077 | ug/kg | 280 UJ | 270 UJ | 320 UJ | 290 UJ | 280 UJ | 290 U | 290 U | 300 U | |

Notes:

1. Identifies results that exceed the listed PAL value
2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the Mclouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

- CAS # - Chemical Abstract Service Number
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 - N - Field sample
 - PAL - Project Action Limit
 - A - Unvalidated Result
 - B - The target analyte was detected in the associated blank.
 - J - The identification of the analyte is acceptable; the reported value is an estimate
 - J+ - The result is an estimated quantity, but the results may be biased high
 - J- - The result is an estimated quantity, but the results may be biased low
 - R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria.
- The analyte may or may not be present in the sample.
- U - Not detected

Table C - Pesticides & PCBs Detection Results

| | | | | Location | MSTC23-SD06 | MSTC23-SD07 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD09 |
|------------------------|---|------------|-------------|-----------------|--------------------|--------------------|-----------------|-----------------|---------------------|--------------------|-----------------|
| | | | | Sample # | MSTC23-SD06-SS-0.5 | MSTC23-SD07-SS-0.5 | MSTC23-SD08-1.0 | MSTC23-SD08-2.0 | MSTC23-SD08A-SS-0.5 | MSTC23-SD08-SS-0.5 | MSTC23-SD09-1.0 |
| | | | | Start Depth | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 1 | 2 | 0.5 | 0.5 | 1 |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | N | N | FD | N | N |
| | | | | Parent Sample # | | | | | MSTC23-SD08-SS-0.5 | | |
| | | | | Sample Date | 10/18/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/13/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | |
| 003-Mclouth_PestPCB | ALDRIN | 309-00-2 | 2 | ug/kg | 0.68 J | 1.3 J+ | 2.3 U | 2.1 U | 1.3 J | 1.1 J | 30 J |
| 003-Mclouth_PestPCB | ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE) | 319-84-6 | 6 | ug/kg | 2.3 UJ | 3.2 U | 0.38 J | 2.1 U | 2.3 U | 2.7 | 1.2 J |
| 003-Mclouth_PestPCB | ALPHA ENDOSULFAN | 959-98-8 | 3.26 | ug/kg | 2.3 UJ | 5.4 J+ | 0.32 J | 2.1 U | 1.7 J | 1.4 J | 13 J |
| 003-Mclouth_PestPCB | ALPHA-CHLORDANE | 5103-71-9 | 3.24 | ug/kg | 2.3 UJ | 0.61 NJ | 2.3 R | 2.1 R | 2.3 R | 2.3 R | 23 J |
| 003-Mclouth_PestPCB | BETA BHC (BETA HEXACHLOROCYCLOHEXANE) | 319-85-7 | 5 | ug/kg | 100 J | 67 J | 3.2 J | 2.1 U | 35 J | 20 J | 81 J |
| 003-Mclouth_PestPCB | BETA ENDOSULFAN | 33213-65-9 | 1.94 | ug/kg | 21 J | 30 J+ | 4.4 U | 4.1 U | 2.9 J | 2.2 J | 47 J |
| 003-Mclouth_PestPCB | BETA-CHLORDANE | 5103-74-2 | 3.24 | ug/kg | 20 J | 16 J | 2.3 U | 2.1 U | 6.3 | 3.3 J | 16 J |
| 003-Mclouth_PestPCB | DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE) | 319-86-8 | 300 | ug/kg | 12 J | 17 NJ | 1.4 NJ | 2.1 R | 5.2 NJ | 2.7 J | 66 J+ |
| 003-Mclouth_PestPCB | DIELDRIN | 60-57-1 | 1.9 | ug/kg | 4.9 J | 11 J | 1.7 J | 4.1 U | 3 J | 0.66 J | 92 J |
| 003-Mclouth_PestPCB | ENDOSULFAN SULFATE | 1031-07-8 | 34.6 | ug/kg | 5.7 J | 11 J | 0.66 J | 4.1 U | 1.8 J | 1.2 J | 26 J |
| 003-Mclouth_PestPCB | ENDRIN | 72-20-8 | 2.22 | ug/kg | 4.5 UJ | 6.2 U | 4.4 U | 4.1 U | 22 | 6.7 | 7 J |
| 003-Mclouth_PestPCB | ENDRIN ALDEHYDE | 7421-93-4 | 480 | ug/kg | 4.5 UJ | 6.2 U | 4.4 U | 4.1 U | 4.7 J | 4.5 U | 8.3 J |
| 003-Mclouth_PestPCB | ENDRIN KETONE | 53494-70-5 | | ug/kg | 32 J | 50 J | 1.4 J | 4.1 U | 10 J | 5.8 | 65 J |
| 003-Mclouth_PestPCB | GAMMA BHC (LINDANE) | 58-89-9 | 2.37 | ug/kg | 3.8 J | 3.7 J+ | 2.3 U | 2.1 U | 1.8 J | 1.2 J | 0.34 J |
| 003-Mclouth_PestPCB | HEPTACHLOR | 76-44-8 | 0.6 | ug/kg | 2.3 UJ | 3.2 UJ | 0.65 J | 2.1 UJ | 0.79 J | 0.95 J | 22 J |
| 003-Mclouth_PestPCB | HEPTACHLOR EPOXIDE | 1024-57-3 | 2.47 | ug/kg | 2.3 U | 3.2 U | 2.3 U | 2.1 U | 2.3 U | 2 J | 1.7 J |
| 003-Mclouth_PestPCB | METHOXYCHLOR | 72-43-5 | 13.6 | ug/kg | 6.7 J | 13 J | 23 UJ | 21 UJ | 12 J | 23 UJ | 57 J |
| 003-Mclouth_PestPCB | P,P'-DDD | 72-54-8 | 4.88 | ug/kg | 2.5 J | 4.4 J+ | 4.4 U | 4.1 U | 1.9 J | 3.3 J | 38 J |
| 003-Mclouth_PestPCB | P,P'-DDE | 72-55-9 | 3.16 | ug/kg | 1 J | 6.4 J+ | 1.3 J | 4.1 U | 2.4 J | 2 J | 150 J+ |
| 003-Mclouth_PestPCB | P,P'-DDT | 50-29-3 | 4.16 | ug/kg | 21 J | 28 J | 3.3 J | 4.1 UJ | 4.5 J | 3.2 J | 270 J+ |
| 003-Mclouth_PestPCB | PCB-1016 (AROCLOR 1016) | 12674-11-2 | 59.8 | ug/kg | 45 UJ | 62 U | 44 U | 41 U | 45 U | 45 U | 63 UJ |
| 003-Mclouth_PestPCB | PCB-1221 (AROCLOR 1221) | 11104-28-2 | 59.8 | ug/kg | 45 UJ | 62 R | 44 U | 41 U | 45 U | 45 U | 63 UJ |
| 003-Mclouth_PestPCB | PCB-1232 (AROCLOR 1232) | 11141-16-5 | 59.8 | ug/kg | 45 UJ | 62 R | 44 U | 41 U | 45 U | 45 U | 63 UJ |
| 003-Mclouth_PestPCB | PCB-1242 (AROCLOR 1242) | 53469-21-9 | 59.8 | ug/kg | 45 UJ | 62 R | 44 U | 41 U | 45 U | 45 U | 63 UJ |
| 003-Mclouth_PestPCB | PCB-1248 (AROCLOR 1248) | 12672-29-6 | 59.8 | ug/kg | 330 J | 390 J | 35 J | 41 U | 97 J | 75 J | 1600 J+ |
| approved Final Quality | PCB-1254 (AROCLOR 1254) | 11097-69-1 | 59.8 | ug/kg | 45 UJ | 62 R | 44 U | 41 U | 45 U | 45 U | 63 UJ |
| 003-Mclouth_PestPCB | PCB-1260 (AROCLOR 1260) | 11096-82-5 | 59.8 | ug/kg | 550 J | 470 J | 34 J | 41 U | 79 J | 96 J | 1200 J+ |
| 003-Mclouth_PestPCB | PCB-1262 (AROCLOR 1262) | 37324-23-5 | 59.8 | ug/kg | 45 UJ | 62 R | 44 U | 41 U | 45 U | 45 U | 63 UJ |
| 003-Mclouth_PestPCB | PCB-1268 (AROCLOR 1268) | 11100-14-4 | 59.8 | ug/kg | 45 UJ | 62 R | 44 U | 41 U | 45 U | 45 U | 63 UJ |
| 003-Mclouth_PestPCB | TOXAPHENE | 8001-35-2 | 0.077 | ug/kg | 230 UJ | 320 UJ | 230 U | 210 U | 230 U | 230 U | 320 UJ |

Notes:

1. Identifies results that exceed the listed PAL value
2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the Mclouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

- CAS # - Chemical Abstract Service Number
 - FD - Field duplicate
 - N - Field sample
 - PAL - Project Action Limit
 - A - Unvalidated Result
 - B - The target analyte was detected in the associated blank.
 - J - The identification of the analyte is acceptable; the reported value is an estimate
 - J+ - The result is an estimated quantity, but the results may be biased high
 - J- - The result is an estimated quantity, but the results may be biased low
 - R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria.
- The analyte may or may not be present in the sample.
- U - Not detected

Table C - Pesticides & PCBs Detection Results

| | | | | Location | MSTC23-SD09 | MSTC23-SD09 | MSTC23-SD10 | MSTC23-SD12 | MSTC23-SD13 | MSTC23-SD13 | MSTC23-SD14 |
|------------------------|---|------------|---------|-----------------|-----------------|--------------------|--------------------|--------------------|-----------------|--------------------|-----------------|
| | | | | Sample # | MSTC23-SD09-2.0 | MSTC23-SD09-SS-0.5 | MSTC23-SD10-SS-0.5 | MSTC23-SD12-SS-0.5 | MSTC23-SD13-1.0 | MSTC23-SD13-SS-0.5 | MSTC23-SD14-1.0 |
| | | | | Start Depth | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 2 | 0.5 | 0.5 | 0.5 | 1 | 0.5 | 1 |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Parent Sample # | | | | | | | |
| | | | | Sample Date | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | |
| 003-Mclouth_PestPCB | ALDRIN | 309-00-2 | 2 | ug/kg | 2 UJ | 7.4 J | 1.4 J | 1.1 J | 2 UJ | 0.53 J | 2.1 UJ |
| 003-Mclouth_PestPCB | ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE) | 319-84-6 | 6 | ug/kg | 2 UJ | 3.2 UJ | 8.6 J | 4.6 J | 2 UJ | 2.1 UJ | 2.1 UJ |
| 003-Mclouth_PestPCB | ALPHA ENDOSULFAN | 959-98-8 | 3.26 | ug/kg | 0.21 J | 5.3 J | 4.5 J | 5.4 J | 2 UJ | 1.3 J | 2.1 UJ |
| 003-Mclouth_PestPCB | ALPHA-CHLORDANE | 5103-71-9 | 3.24 | ug/kg | 0.25 J | 8.5 J | 2.7 UJ | 2.8 UJ | 2 UJ | 0.57 J | 2.1 UJ |
| 003-Mclouth_PestPCB | BETA BHC (BETA HEXACHLOROCYCLOHEXANE) | 319-85-7 | 5 | ug/kg | 2 UJ | 59 J | 82 J | 28 J | 2 UJ | 12 J | 2.1 UJ |
| 003-Mclouth_PestPCB | BETA ENDOSULFAN | 33213-65-9 | 1.94 | ug/kg | 2.4 J | 29 J | 22 J | 22 J | 3.8 UJ | 1.9 J | 4 UJ |
| 003-Mclouth_PestPCB | BETA-CHLORDANE | 5103-74-2 | 3.24 | ug/kg | 0.36 J | 9.4 J | 13 J | 7.1 J | 2 UJ | 1.3 J | 2.1 UJ |
| 003-Mclouth_PestPCB | DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE) | 319-86-8 | 300 | ug/kg | 1 J | 57 J | 11 J | 3.2 J | 2 UJ | 2.3 J | 2.1 UJ |
| 003-Mclouth_PestPCB | DIELDRIN | 60-57-1 | 1.9 | ug/kg | 1.3 J | 72 J | 3.3 J | 4.9 J | 3.8 UJ | 2.4 J | 4 UJ |
| 003-Mclouth_PestPCB | ENDOSULFAN SULFATE | 1031-07-8 | 34.6 | ug/kg | 3.9 UJ | 24 J | 4 J | 2.3 J | 3.8 UJ | 0.87 J | 4 UJ |
| 003-Mclouth_PestPCB | ENDRIN | 72-20-8 | 2.22 | ug/kg | 3.9 UJ | 5.1 J | 36 J | 23 J | 3.8 UJ | 6 J | 4 UJ |
| 003-Mclouth_PestPCB | ENDRIN ALDEHYDE | 7421-93-4 | 480 | ug/kg | 3.9 UJ | 4.4 J | 14 J | 14 J | 3.8 UJ | 2.7 J | 4 UJ |
| 003-Mclouth_PestPCB | ENDRIN KETONE | 53494-70-5 | | ug/kg | 1.2 J | 53 J | 23 J | 13 J | 3.8 UJ | 4.2 J | 4 UJ |
| 003-Mclouth_PestPCB | GAMMA BHC (LINDANE) | 58-89-9 | 2.37 | ug/kg | 0.22 J | 3.2 UJ | 3.1 J | 1.6 J | 2 UJ | 0.74 J | 2.1 UJ |
| 003-Mclouth_PestPCB | HEPTACHLOR | 76-44-8 | 0.6 | ug/kg | 0.38 J | 3.2 UJ | 2.7 UJ | 2.8 UJ | 2 UJ | 2.1 UJ | 2.1 UJ |
| 003-Mclouth_PestPCB | HEPTACHLOR EPOXIDE | 1024-57-3 | 2.47 | ug/kg | 0.54 J | 3.2 UJ | 2 J | 1.8 J | 2 UJ | 0.68 J | 2.1 UJ |
| 003-Mclouth_PestPCB | METHOXYCHLOR | 72-43-5 | 13.6 | ug/kg | 20 UJ | 39 J | 9.7 J | 5.1 J | 20 UJ | 21 UJ | 21 UJ |
| 003-Mclouth_PestPCB | P,P'-DDD | 72-54-8 | 4.88 | ug/kg | 3.9 UJ | 30 J | 8.1 J | 4.7 J | 3.8 UJ | 2.5 J | 4 UJ |
| 003-Mclouth_PestPCB | P,P'-DDE | 72-55-9 | 3.16 | ug/kg | 1.7 J | 50 J | 3.2 J | 5 J | 3.8 UJ | 2.1 J | 4 UJ |
| 003-Mclouth_PestPCB | P,P'-DDT | 50-29-3 | 4.16 | ug/kg | 0.88 J | 220 J | 14 J | 5.8 J | 3.8 UJ | 6.3 J | 4 UJ |
| 003-Mclouth_PestPCB | PCB-1016 (AROCLOR 1016) | 12674-11-2 | 59.8 | ug/kg | 39 UJ | 62 UJ | 53 UJ | 53 UJ | 38 UJ | 41 UJ | 40 UJ |
| 003-Mclouth_PestPCB | PCB-1221 (AROCLOR 1221) | 11104-28-2 | 59.8 | ug/kg | 39 UJ | 62 UJ | 53 UJ | 53 UJ | 38 UJ | 41 UJ | 40 UJ |
| 003-Mclouth_PestPCB | PCB-1232 (AROCLOR 1232) | 11141-16-5 | 59.8 | ug/kg | 39 UJ | 62 UJ | 53 UJ | 53 UJ | 38 UJ | 41 UJ | 40 UJ |
| 003-Mclouth_PestPCB | PCB-1242 (AROCLOR 1242) | 53469-21-9 | 59.8 | ug/kg | 39 UJ | 62 UJ | 53 UJ | 53 UJ | 38 UJ | 41 UJ | 40 UJ |
| 003-Mclouth_PestPCB | PCB-1248 (AROCLOR 1248) | 12672-29-6 | 59.8 | ug/kg | 24 J | 980 J+ | 53 UJ | 53 UJ | 38 UJ | 42 J | 40 UJ |
| approved Final Quality | PCB-1254 (AROCLOR 1254) | 11097-69-1 | 59.8 | ug/kg | 39 UJ | 62 UJ | 53 UJ | 53 UJ | 38 UJ | 41 UJ | 40 UJ |
| 003-Mclouth_PestPCB | PCB-1260 (AROCLOR 1260) | 11096-82-5 | 59.8 | ug/kg | 30 J | 1100 J+ | 280 J | 160 J | 38 UJ | 74 J | 40 UJ |
| 003-Mclouth_PestPCB | PCB-1262 (AROCLOR 1262) | 37324-23-5 | 59.8 | ug/kg | 39 UJ | 62 UJ | 53 UJ | 53 UJ | 38 UJ | 41 UJ | 40 UJ |
| 003-Mclouth_PestPCB | PCB-1268 (AROCLOR 1268) | 11100-14-4 | 59.8 | ug/kg | 39 UJ | 62 UJ | 53 UJ | 53 UJ | 38 UJ | 41 UJ | 40 UJ |
| 003-Mclouth_PestPCB | TOXAPHENE | 8001-35-2 | 0.077 | ug/kg | 200 UJ | 320 UJ | 270 UJ | 280 UJ | 200 UJ | 210 UJ | 210 UJ |

Notes:

1. Identifies results that exceed the listed PAL value
2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the Mclouth Steel Corp. Superfund Site (October 2023)

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- CAS # - Chemical Abstract Service Number
 - FD - Field duplicate
 - N - Field sample
 - PAL - Project Action Limit
 - A - Unvalidated Result
 - B - The target analyte was detected in the associated blank.
 - J - The identification of the analyte is acceptable; the reported value is an estimate
 - J+ - The result is an estimated quantity, but the results may be biased high
 - J- - The result is an estimated quantity, but the results may be biased low
 - R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria.
- The analyte may or may not be present in the sample.
- U - Not detected

Table C - Pesticides & PCBs Detection Results

| | | | | Location | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD15 | MSTC23-SD19 | MSTC23-SD19 | MSTC23-SD19 | MSTC23-SD20 |
|------------------------|---|------------|---------|-----------------|-----------------|--------------------|--------------------|-----------------|-----------------|--------------------|-----------------|
| | | | | Sample # | MSTC23-SD14-2.0 | MSTC23-SD14-SS-0.5 | MSTC23-SD15-SS-0.5 | MSTC23-SD19-1.0 | MSTC23-SD19-2.0 | MSTC23-SD19-SS-0.5 | MSTC23-SD20-1.0 |
| | | | | Start Depth | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| | | | | End Depth | 2 | 0.5 | 0.5 | 1 | 2 | 0.5 | 1 |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Parent Sample # | | | | | | | |
| | | | | Sample Date | 10/12/2023 | 10/12/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/16/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | |
| 003-Mclouth_PestPCB | ALDRIN | 309-00-2 | 2 | ug/kg | 2 UJ | 2.3 UJ | 2.4 U | 2.3 J | 2.7 U | 4.2 J | 0.8 J |
| 003-Mclouth_PestPCB | ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE) | 319-84-6 | 6 | ug/kg | 2 UJ | 2.3 UJ | 2.4 U | 1.8 J | 0.19 J | 0.43 J | 1.6 J |
| 003-Mclouth_PestPCB | ALPHA ENDOSULFAN | 959-98-8 | 3.26 | ug/kg | 2 UJ | 0.23 J+ | 2.4 U | 1.5 J | 2.7 U | 2.9 J | 0.46 J |
| 003-Mclouth_PestPCB | ALPHA-CHLORDANE | 5103-71-9 | 3.24 | ug/kg | 2 UJ | 2.3 UJ | 0.97 NJ | 1 J | 2.7 U | 2.7 J | 0.47 J |
| 003-Mclouth_PestPCB | BETA BHC (BETA HEXACHLOROCYCLOHEXANE) | 319-85-7 | 5 | ug/kg | 2 UJ | 8.2 J | 10 J | 19 J | 6.2 J | 27 J | 3.1 |
| 003-Mclouth_PestPCB | BETA ENDOSULFAN | 33213-65-9 | 1.94 | ug/kg | 3.9 UJ | 6.7 J+ | 4.3 J | 5 J | 5.2 U | 6.8 J | 2.6 J |
| 003-Mclouth_PestPCB | BETA-CHLORDANE | 5103-74-2 | 3.24 | ug/kg | 2 UJ | 5.4 J | 2.9 J | 2.1 J | 0.45 J | 5.1 J | 0.48 J |
| 003-Mclouth_PestPCB | DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE) | 319-86-8 | 300 | ug/kg | 2 UJ | 2.8 J | 2.5 J | 29 J | 12 J | 26 J | 2.1 NJ |
| 003-Mclouth_PestPCB | DIELDRIN | 60-57-1 | 1.9 | ug/kg | 3.9 UJ | 16 J+ | 4.7 J | 20 | 2.9 J | 32 | 4.2 U |
| 003-Mclouth_PestPCB | ENDOSULFAN SULFATE | 1031-07-8 | 34.6 | ug/kg | 3.9 UJ | 1.5 J | 1.1 J | 11 J | 22 J | 18 J | 0.99 J |
| 003-Mclouth_PestPCB | ENDRIN | 72-20-8 | 2.22 | ug/kg | 3.9 UJ | 4.4 UJ | 4.7 U | 1.7 J | 17 J | 2.7 J | 3.5 J |
| 003-Mclouth_PestPCB | ENDRIN ALDEHYDE | 7421-93-4 | 480 | ug/kg | 3.9 UJ | 4.3 J+ | 4.7 U | 4.2 J | 15 J | 4.7 J | 4.2 U |
| 003-Mclouth_PestPCB | ENDRIN KETONE | 53494-70-5 | | ug/kg | 3.9 UJ | 11 J+ | 3.8 J | 19 J | 5.9 J | 18 J | 4.4 |
| 003-Mclouth_PestPCB | GAMMA BHC (LINDANE) | 58-89-9 | 2.37 | ug/kg | 2 UJ | 10 J+ | 0.6 J | 3 U | 2.3 J | 3.1 U | 0.44 J |
| 003-Mclouth_PestPCB | HEPTACHLOR | 76-44-8 | 0.6 | ug/kg | 2 UJ | 2.3 UJ | 2.4 U | 3 U | 1.1 J | 3.1 U | 1 J |
| 003-Mclouth_PestPCB | HEPTACHLOR EPOXIDE | 1024-57-3 | 2.47 | ug/kg | 2 UJ | 2.3 J | 1.7 J | 9.9 | 2.7 U | 4.1 J | 2.3 |
| 003-Mclouth_PestPCB | METHOXYCHLOR | 72-43-5 | 13.6 | ug/kg | 20 UJ | 140 J+ | 52 J | 20 J | 5.3 J | 32 J | 22 UJ |
| 003-Mclouth_PestPCB | P,P'-DDD | 72-54-8 | 4.88 | ug/kg | 3.9 UJ | 66 J+ | 8.4 J | 14 J | 1.3 J | 29 J | 2.5 J |
| 003-Mclouth_PestPCB | P,P'-DDE | 72-55-9 | 3.16 | ug/kg | 3.9 UJ | 11 J | 5.2 J | 12 J | 1 J | 31 J | 4.9 J |
| 003-Mclouth_PestPCB | P,P'-DDT | 50-29-3 | 4.16 | ug/kg | 3.9 UJ | 8 J | 5.4 J | 15 J | 5.2 UJ | 190 J | 2.2 J |
| 003-Mclouth_PestPCB | PCB-1016 (AROCLOR 1016) | 12674-11-2 | 59.8 | ug/kg | 39 UJ | 44 UJ | 47 U | 59 U | 39 UJ | 61 U | 42 U |
| 003-Mclouth_PestPCB | PCB-1221 (AROCLOR 1221) | 11104-28-2 | 59.8 | ug/kg | 39 UJ | 44 UJ | 47 U | 59 U | 52 U | 61 U | 42 U |
| 003-Mclouth_PestPCB | PCB-1232 (AROCLOR 1232) | 11141-16-5 | 59.8 | ug/kg | 39 UJ | 44 UJ | 47 U | 59 U | 52 U | 61 U | 42 U |
| 003-Mclouth_PestPCB | PCB-1242 (AROCLOR 1242) | 53469-21-9 | 59.8 | ug/kg | 39 UJ | 44 UJ | 47 U | 59 U | 52 U | 61 U | 42 U |
| 003-Mclouth_PestPCB | PCB-1248 (AROCLOR 1248) | 12672-29-6 | 59.8 | ug/kg | 39 UJ | 190 J | 82 J | 480 J | 52 U | 480 J | 59 J |
| approved Final Quality | PCB-1254 (AROCLOR 1254) | 11097-69-1 | 59.8 | ug/kg | 39 UJ | 44 UJ | 47 U | 59 U | 52 U | 61 U | 42 U |
| 003-Mclouth_PestPCB | PCB-1260 (AROCLOR 1260) | 11096-82-5 | 59.8 | ug/kg | 39 UJ | 120 J | 110 J | 450 J | 260 J | 740 J | 65 J |
| 003-Mclouth_PestPCB | PCB-1262 (AROCLOR 1262) | 37324-23-5 | 59.8 | ug/kg | 39 UJ | 44 UJ | 47 U | 59 U | 52 U | 61 U | 42 U |
| 003-Mclouth_PestPCB | PCB-1268 (AROCLOR 1268) | 11100-14-4 | 59.8 | ug/kg | 39 UJ | 44 UJ | 47 U | 59 U | 52 U | 61 U | 42 U |
| 003-Mclouth_PestPCB | TOXAPHENE | 8001-35-2 | 0.077 | ug/kg | 200 UJ | 230 UJ | 240 U | 300 U | 270 U | 310 U | 220 U |

Notes:

1. Identifies results that exceed the listed PAL value
2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the Mclouth Steel Corp. Superfund Site (October 2023)

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 - J - The identification of the analyte is acceptable; the reported value is an estimate
 - J+ - The result is an estimated quantity, but the results may be biased high
 - J- - The result is an estimated quantity, but the results may be biased low
 - R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria.
- The analyte may or may not be present in the sample.
- U - Not detected

Table C - Pesticides & PCBs Detection Results

| | | | | Location | MSTC23-SD20 | MSTC23-SD20 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD23 |
|------------------------|---|------------|---------|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|--------------------|-----------------|-------------|
| | | | | Sample # | MSTC23-SD20-2.0 | MSTC23-SD20-SS-0.5 | MSTC23-SD22-1.0 | MSTC23-SD22-2.0 | MSTC23-SD22-3.0 | MSTC23-SD22-5.0 | MSTC23-SD22-SS-0.5 | MSTC23-SD23-1.0 | |
| | | | | Start Depth | 1 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | |
| | | | | End Depth | 2 | 0.5 | 1 | 2 | 3 | 5 | 0.5 | 1 | |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | |
| | | | | Sample Type | N | N | N | N | N | N | N | N | |
| | | | | Parent Sample # | | | | | | | | | |
| | | | | Sample Date | 10/16/2023 | 10/16/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/16/2023 | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | |
| 003-Mclouth_PestPCB | ALDRIN | 309-00-2 | 2 | ug/kg | 2 U | 2.3 U | 1.3 J | 2.6 U | 2.3 U | 2.2 U | 1.4 J | 2.1 U | |
| 003-Mclouth_PestPCB | ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE) | 319-84-6 | 6 | ug/kg | 2 U | 9.4 J | 0.57 J | 2.6 U | 2.3 U | 2.2 U | 3.8 U | 0.31 J | |
| 003-Mclouth_PestPCB | ALPHA ENDOSULFAN | 959-98-8 | 3.26 | ug/kg | 2 U | 3.4 J | 2 J | 0.86 J | 2.3 U | 2.2 U | 0.52 J | 0.32 J | |
| 003-Mclouth_PestPCB | ALPHA-CHLORDANE | 5103-71-9 | 3.24 | ug/kg | 2 R | 2.3 R | 2.5 U | 2.6 U | 2.3 U | 2.2 U | 0.77 NJ | 2.1 R | |
| 003-Mclouth_PestPCB | BETA BHC (BETA HEXACHLOROCYCLOHEXANE) | 319-85-7 | 5 | ug/kg | 2 U | 100 J | 5.1 J | 3.2 J | 2.3 U | 2.2 U | 3.4 J | 2.1 U | |
| 003-Mclouth_PestPCB | BETA ENDOSULFAN | 33213-65-9 | 1.94 | ug/kg | 3.9 U | 17 J | 0.62 J | 5 U | 4.4 U | 4.2 U | 2.2 J | 2.8 J | |
| 003-Mclouth_PestPCB | BETA-CHLORDANE | 5103-74-2 | 3.24 | ug/kg | 0.2 J | 19 | 0.47 J | 2.6 U | 2.3 U | 2.2 U | 3.8 U | 0.27 J | |
| 003-Mclouth_PestPCB | DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE) | 319-86-8 | 300 | ug/kg | 2 R | 7.8 J | 8.2 | 2.1 J | 2.3 U | 2.2 U | 1.4 J | 0.77 J | |
| 003-Mclouth_PestPCB | DIELDRIN | 60-57-1 | 1.9 | ug/kg | 3.9 U | 4.5 J | 5.8 J | 0.67 J | 4.4 U | 4.2 U | 5.5 J | 0.49 J | |
| 003-Mclouth_PestPCB | ENDOSULFAN SULFATE | 1031-07-8 | 34.6 | ug/kg | 3.9 U | 2.6 J | 1.6 J | 5 U | 4.4 U | 4.2 U | 2 J | 4 U | |
| 003-Mclouth_PestPCB | ENDRIN | 72-20-8 | 2.22 | ug/kg | 0.72 J | 53 | 4.8 U | 2.5 J | 4.4 U | 4.2 U | 7.4 U | 2.8 J | |
| 003-Mclouth_PestPCB | ENDRIN ALDEHYDE | 7421-93-4 | 480 | ug/kg | 3.9 U | 13 J | 4.8 U | 2.4 J | 4.4 U | 4.2 U | 7.4 U | 4 U | |
| 003-Mclouth_PestPCB | ENDRIN KETONE | 53494-70-5 | | ug/kg | 3.9 U | 19 J | 5.8 J | 5 U | 4.4 U | 4.2 U | 2.5 J | 2.3 J | |
| 003-Mclouth_PestPCB | GAMMA BHC (LINDANE) | 58-89-9 | 2.37 | ug/kg | 2 U | 2.8 J | 0.66 J | 0.66 J | 2.3 U | 2.2 U | 3.8 U | 2.1 U | |
| 003-Mclouth_PestPCB | HEPTACHLOR | 76-44-8 | 0.6 | ug/kg | 0.55 J | 2.3 UJ | 2.5 U | 2.6 U | 2.3 U | 2.2 UJ | 3.8 U | 2.1 UJ | |
| 003-Mclouth_PestPCB | HEPTACHLOR EPOXIDE | 1024-57-3 | 2.47 | ug/kg | 0.24 J | 2.1 J | 2.5 U | 0.36 J | 2.3 U | 2.2 U | 3.8 U | 0.24 J | |
| 003-Mclouth_PestPCB | METHOXYCHLOR | 72-43-5 | 13.6 | ug/kg | 20 UJ | 5.8 J | 13 J | 26 UJ | 23 UJ | 22 UJ | 38 UJ | 21 UJ | |
| 003-Mclouth_PestPCB | P,P'-DDD | 72-54-8 | 4.88 | ug/kg | 3.9 U | 6.9 J | 2.3 J | 5 U | 4.4 U | 4.2 U | 1.8 J | 0.7 J | |
| 003-Mclouth_PestPCB | P,P'-DDE | 72-55-9 | 3.16 | ug/kg | 0.76 J | 1.8 J | 4.1 J | 5 U | 4.4 U | 4.2 U | 4.5 J | 4 U | |
| 003-Mclouth_PestPCB | P,P'-DDT | 50-29-3 | 4.16 | ug/kg | 3.9 UJ | 3.1 J | 4.1 J | 5 UJ | 4.4 UJ | 4.2 UJ | 9.2 J | 1.4 J | |
| 003-Mclouth_PestPCB | PCB-1016 (AROCLOR 1016) | 12674-11-2 | 59.8 | ug/kg | 39 U | 46 U | 48 U | 50 U | 44 U | 42 U | 74 U | 40 U | |
| 003-Mclouth_PestPCB | PCB-1221 (AROCLOR 1221) | 11104-28-2 | 59.8 | ug/kg | 39 U | 46 U | 48 U | 50 U | 44 U | 42 U | 74 U | 40 U | |
| 003-Mclouth_PestPCB | PCB-1232 (AROCLOR 1232) | 11141-16-5 | 59.8 | ug/kg | 39 U | 46 U | 48 U | 50 U | 44 U | 42 U | 74 U | 40 U | |
| 003-Mclouth_PestPCB | PCB-1242 (AROCLOR 1242) | 53469-21-9 | 59.8 | ug/kg | 39 U | 46 U | 48 U | 50 U | 44 U | 42 U | 74 U | 40 U | |
| 003-Mclouth_PestPCB | PCB-1248 (AROCLOR 1248) | 12672-29-6 | 59.8 | ug/kg | 9.4 J | 240 J | 190 J | 55 | 44 U | 42 U | 140 J | 17 J | |
| approved Final Quality | PCB-1254 (AROCLOR 1254) | 11097-69-1 | 59.8 | ug/kg | 39 U | 46 U | 48 U | 50 U | 44 U | 42 U | 74 U | 40 U | |
| 003-Mclouth_PestPCB | PCB-1260 (AROCLOR 1260) | 11096-82-5 | 59.8 | ug/kg | 9.6 J | 380 J | 150 J | 26 J | 44 U | 42 U | 150 | 15 J | |
| 003-Mclouth_PestPCB | PCB-1262 (AROCLOR 1262) | 37324-23-5 | 59.8 | ug/kg | 39 U | 46 U | 48 U | 50 U | 44 U | 42 U | 74 U | 40 U | |
| 003-Mclouth_PestPCB | PCB-1268 (AROCLOR 1268) | 11100-14-4 | 59.8 | ug/kg | 39 U | 46 U | 48 U | 50 U | 44 U | 42 U | 74 U | 40 U | |
| 003-Mclouth_PestPCB | TOXAPHENE | 8001-35-2 | 0.077 | ug/kg | 200 U | 230 U | 250 U | 260 U | 230 U | 220 U | 380 U | 210 U | |

Notes:

1. Identifies results that exceed the listed PAL value
2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the Mclouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

- CAS # - Chemical Abstract Service Number
 - FD - Field duplicate
 - N - Field sample
 - PAL - Project Action Limit
 - A - Unvalidated Result
 - B - The target analyte was detected in the associated blank.
 - J - The identification of the analyte is acceptable; the reported value is an estimate
 - J+ - The result is an estimated quantity, but the results may be biased high
 - J- - The result is an estimated quantity, but the results may be biased low
 - R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria.
- The analyte may or may not be present in the sample.
- U - Not detected

Table C - Pesticides & PCBs Detection Results

| | | | | Location | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 |
|------------------------|---|------------|---------|-----------------|-----------------|-----------------|-----------------|--------------------|
| | | | | Sample # | MSTC23-SD23-2.0 | MSTC23-SD23-3.0 | MSTC23-SD23-5.0 | MSTC23-SD23-SS-0.5 |
| | | | | Start Depth | 1 | 2 | 3 | 0 |
| | | | | End Depth | 2 | 3 | 5 | 0.5 |
| | | | | Depth Unit | ft | ft | ft | ft |
| | | | | Sample Type | N | N | N | N |
| | | | | Parent Sample # | | | | |
| | | | | Sample Date | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | |
| 003-Mclouth_PestPCB | ALDRIN | 309-00-2 | 2 | ug/kg | 2.2 U | 2.3 U | 2 U | 1.6 J |
| 003-Mclouth_PestPCB | ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE) | 319-84-6 | 6 | ug/kg | 2.2 U | 2.3 U | 2 U | 4.9 J |
| 003-Mclouth_PestPCB | ALPHA ENDOSULFAN | 959-98-8 | 3.26 | ug/kg | 2.2 U | 2.3 U | 2 U | 5 J |
| 003-Mclouth_PestPCB | ALPHA-CHLORDANE | 5103-71-9 | 3.24 | ug/kg | 2.2 R | 2.3 R | 2 R | 3.3 R |
| 003-Mclouth_PestPCB | BETA BHC (BETA HEXACHLOROCYCLOHEXANE) | 319-85-7 | 5 | ug/kg | 2.2 U | 2.3 U | 2 U | 100 J |
| 003-Mclouth_PestPCB | BETA ENDOSULFAN | 33213-65-9 | 1.94 | ug/kg | 4.2 U | 4.4 U | 3.9 U | 37 |
| 003-Mclouth_PestPCB | BETA-CHLORDANE | 5103-74-2 | 3.24 | ug/kg | 0.57 J | 2.3 U | 2 U | 14 J |
| 003-Mclouth_PestPCB | DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE) | 319-86-8 | 300 | ug/kg | 2.2 R | 2.3 R | 2 R | 9.6 J |
| 003-Mclouth_PestPCB | DIELDRIN | 60-57-1 | 1.9 | ug/kg | 4.2 U | 4.4 U | 3.9 U | 2.9 J |
| 003-Mclouth_PestPCB | ENDOSULFAN SULFATE | 1031-07-8 | 34.6 | ug/kg | 4.2 U | 4.4 U | 3.9 U | 6.1 J |
| 003-Mclouth_PestPCB | ENDRIN | 72-20-8 | 2.22 | ug/kg | 2.4 J | 4.4 U | 3.9 U | 47 J |
| 003-Mclouth_PestPCB | ENDRIN ALDEHYDE | 7421-93-4 | 480 | ug/kg | 4.2 U | 4.4 U | 3.9 U | 21 J |
| 003-Mclouth_PestPCB | ENDRIN KETONE | 53494-70-5 | | ug/kg | 4.2 U | 4.4 U | 3.9 U | 30 J |
| 003-Mclouth_PestPCB | GAMMA BHC (LINDANE) | 58-89-9 | 2.37 | ug/kg | 2.2 U | 2.3 U | 2 U | 5.4 J |
| 003-Mclouth_PestPCB | HEPTACHLOR | 76-44-8 | 0.6 | ug/kg | 2.2 UJ | 2.3 UJ | 2 UJ | 3.3 UJ |
| 003-Mclouth_PestPCB | HEPTACHLOR EPOXIDE | 1024-57-3 | 2.47 | ug/kg | 2.2 U | 2.3 U | 2 U | 3.2 J |
| 003-Mclouth_PestPCB | METHOXYCHLOR | 72-43-5 | 13.6 | ug/kg | 22 UJ | 23 UJ | 20 UJ | 6.7 J |
| 003-Mclouth_PestPCB | P,P'-DDD | 72-54-8 | 4.88 | ug/kg | 4.2 U | 4.4 U | 3.9 U | 13 J |
| 003-Mclouth_PestPCB | P,P'-DDE | 72-55-9 | 3.16 | ug/kg | 4.2 U | 4.4 U | 3.9 U | 4.8 J |
| 003-Mclouth_PestPCB | P,P'-DDT | 50-29-3 | 4.16 | ug/kg | 4.2 UJ | 4.4 UJ | 3.9 UJ | 10 J |
| 003-Mclouth_PestPCB | PCB-1016 (AROCLOR 1016) | 12674-11-2 | 59.8 | ug/kg | 42 U | 44 U | 39 U | 64 U |
| 003-Mclouth_PestPCB | PCB-1221 (AROCLOR 1221) | 11104-28-2 | 59.8 | ug/kg | 42 U | 44 U | 39 U | 64 U |
| 003-Mclouth_PestPCB | PCB-1232 (AROCLOR 1232) | 11141-16-5 | 59.8 | ug/kg | 42 U | 44 U | 39 U | 64 U |
| 003-Mclouth_PestPCB | PCB-1242 (AROCLOR 1242) | 53469-21-9 | 59.8 | ug/kg | 42 U | 44 U | 39 U | 64 U |
| 003-Mclouth_PestPCB | PCB-1248 (AROCLOR 1248) | 12672-29-6 | 59.8 | ug/kg | 42 U | 44 U | 39 U | 210 J |
| approved Final Quality | PCB-1254 (AROCLOR 1254) | 11097-69-1 | 59.8 | ug/kg | 42 U | 44 U | 39 U | 64 U |
| 003-Mclouth_PestPCB | PCB-1260 (AROCLOR 1260) | 11096-82-5 | 59.8 | ug/kg | 42 U | 44 U | 39 U | 260 J |
| 003-Mclouth_PestPCB | PCB-1262 (AROCLOR 1262) | 37324-23-5 | 59.8 | ug/kg | 42 U | 44 U | 39 U | 64 U |
| 003-Mclouth_PestPCB | PCB-1268 (AROCLOR 1268) | 11100-14-4 | 59.8 | ug/kg | 42 U | 44 U | 39 U | 64 U |
| 003-Mclouth_PestPCB | TOXAPHENE | 8001-35-2 | 0.077 | ug/kg | 220 U | 230 U | 200 U | 330 U |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the Mclouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

CAS # - Chemical Abstract Service Number

FD - Field duplicate

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

B - The target analyte was detected in the associated blank.

J - The identification of the analyte is acceptable; the reported value is an estimate

J+ - The result is an estimated quantity, but the results may be biased high

J- - The result is an estimated quantity, but the results may be biased low

R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria.

The analyte may or may not be present in the sample.

U - Not detected

Table D - Dioxins/Furans Detection Results

| | | Location | MSTC23-SD01 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD03 | MSTC23-SD03 | MSTC23-SD03 | MSTC23-SD05 | MSTC23-SD06 | |
|---------------------|---|-----------------|--------------------|-----------------|-----------------|--------------------|----------------|-----------------|--------------------|--------------------|-----------------|-------------|-------------|
| | | Sample # | MSTC23-SD01-SS-0.5 | MSTC23-SD02-1.0 | MSTC23-SD02-2.0 | MSTC23-SD02-SS-0.5 | MSTC23-SD03-1. | MSTC23-SD03-2.0 | MSTC23-SD03-SS-0.5 | MSTC23-SD05-SS-0.5 | MSTC23-SD06-1.0 | | |
| | | Start Depth | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | |
| | | End Depth | 0.5 | 1 | 2 | 0.5 | 1 | 2 | 0.5 | 0.5 | 0.5 | 1 | |
| | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | |
| | | Sample Type | N | N | N | N | N | N | N | N | N | N | |
| | | Parent Sample # | | | | | | | | | | | |
| | | Sample Date | 10/18/2023 | 10/19/2023 | 10/19/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | |
| 007-Mclouth_DioxFur | 1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN | 67562-39-4 | | pg/g | 57.8 JA | 177 JA | 328 A | 101 JA | 354 A | 329 A | 56.4 JA | 129 JA | 244 A |
| 007-Mclouth_DioxFur | 1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN | 35822-46-9 | | pg/g | 62.5 JA | 698 A | 886 A | 113 JA | 655 A | 943 A | 54 JA | 72.2 JA | 996 A |
| 007-Mclouth_DioxFur | 1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN | 55673-89-7 | | pg/g | 17.1 JKA | 257 UA | 219 UA | 21.6 JA | 71 JKA | 235 UA | 24 JA | 33.2 JA | 215 UA |
| 007-Mclouth_DioxFur | 1,2,3,4,7,8-HEXACHLORODIBENZOFURAN | 70648-26-9 | | pg/g | 22.8 JA | 70.2 JA | 219 UA | 49 JA | 65.5 JA | 235 UA | 24.7 JA | 85 JA | 215 UA |
| 007-Mclouth_DioxFur | 1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN | 39227-28-6 | | pg/g | 221 UA | 257 UA | 219 UA | 231 UA | 242 UA | 235 UA | 204 UA | 181 UA | 215 UA |
| 007-Mclouth_DioxFur | 1,2,3,6,7,8-HEXACHLORODIBENZOFURAN | 57117-44-9 | | pg/g | 19.4 JA | 257 UA | 150 JKA | 32.1 JKA | 157 JA | 195 JA | 21 JA | 57.9 JKA | 88 JKA |
| 007-Mclouth_DioxFur | 1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN | 57653-85-7 | | pg/g | 24.8 JA | 257 A | 190 JA | 30.5 JKA | 197 JA | 365 A | 204 UA | 11.4 JA | 128 JKA |
| 007-Mclouth_DioxFur | 1,2,3,7,8,9-HEXACHLORODIBENZOFURAN | 72918-21-9 | | pg/g | 221 UA | 257 UA | 219 UA | 231 UA | 242 UA | 235 UA | 204 UA | 27.1 JA | 215 UA |
| 007-Mclouth_DioxFur | 1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN | 19408-74-3 | | pg/g | 221 UA | 91.8 JKA | 122 JKA | 16 JA | 81.9 JA | 221 JA | 204 UA | 181 UA | 215 UA |
| 007-Mclouth_DioxFur | 1,2,3,7,8-PENTACHLORODIBENZOFURAN | 57117-41-6 | | pg/g | 221 UA | 257 UA | 219 UA | 39.3 JA | 57.6 JA | 64.6 JKA | 204 UA | 54.6 JA | 215 UA |
| 007-Mclouth_DioxFur | 1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN | 40321-76-4 | | pg/g | 221 UA | 257 UA | 219 UA | 231 UA | 242 UA | 235 UA | 204 UA | 181 UA | 215 UA |
| 007-Mclouth_DioxFur | 2,3,4,6,7,8-HEXACHLORODIBENZOFURAN | 60851-34-5 | | pg/g | 221 UA | 257 UA | 219 UA | 231 UA | 242 UA | 235 UA | 204 UA | 13.2 JKA | 215 UA |
| 007-Mclouth_DioxFur | 2,3,4,7,8-PENTACHLORODIBENZOFURAN | 57117-31-4 | | pg/g | 221 UA | 59.4 JKA | 79 JA | 27.2 JKA | 72.8 JA | 235 UA | 13.6 JA | 61.4 JA | 215 UA |
| 007-Mclouth_DioxFur | 2,3,7,8-TETRACHLORODIBENZOFURAN | 51207-31-9 | | pg/g | 11.6 JKA | 73.7 A | 72.7 A | 19.7 JA | 88 A | 74.4 KA | 19.5 JA | 71.8 A | 64.5 A |
| 007-Mclouth_DioxFur | 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN | 1746-01-6 | 0.12 | pg/g | 44.2 UA | 51.3 UA | 43.7 UA | 6.18 JKA | 48.4 UA | 47 UA | 5.38 JA | 36.2 UA | 43 UA |
| 007-Mclouth_DioxFur | OCTACHLORODIBENZOFURAN | 39001-02-0 | | pg/g | 174 JA | 1670 A | 3910 A | 506 A | 9660 A | 6360 A | 1630 A | 609 A | 2280 A |
| 007-Mclouth_DioxFur | OCTACHLORODIBENZO-P-DIOXIN | 3268-87-9 | | pg/g | 306 JA | 3680 A | 4090 A | 767 A | 3290 A | 3280 A | 464 A | 346 JA | 6050 A |
| 007-Mclouth_DioxFur | Total Dioxin TEQ (Mammal) | TEQ(M) | 0.12 | pg/g | 21.4559 JA | 140.6664 JA | 210.6933 JA | 45.3515 JA | 371.5907 JA | 389.2984 JA | 232.7235 JA | 239.1119 JA | 296.3256 JA |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

CAS # - Chemical Abstract Service Number

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

B - The target analyte was detected in the associated blank.

J - The identification of the analyte is acceptable; the reported value is an estimate

K - Estimated Maximum Possible Concentration

Table D - Dioxins/Furans Detection Results

| | | Location | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD07 | MSTC23-SD08 | |
|---------------------|---|-----------------|---------------|---------------|-----------------|-----------------|-----------------|------------------|--------------------|--------------------|---------------------|--------------------|-----------|
| | | Sample # | MSTC23-SD06-2 | MSTC23-SD06-3 | MSTC23-SD06-5.0 | MSTC23-SD06-7.0 | MSTC23-SD06-9.0 | MSTC23-SD06A-7.0 | MSTC23-SD06-SS-0.5 | MSTC23-SD07-SS-0.5 | MSTC23-SD08A-SS-0.5 | | |
| | | Start Depth | 1 | 2 | 3 | 5 | 7 | 5 | 0 | 0 | 0 | | |
| | | End Depth | 2 | 3 | 5 | 7 | 9 | 7 | 0.5 | 0.5 | 0.5 | | |
| | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft | | |
| | | Sample Type | N | N | N | N | N | FD | N | N | FD | | |
| | | Parent Sample # | | | | | | MSTC23-SD06-7.0 | | | | MSTC23-SD08-SS-0.5 | |
| | | Sample Date | 10/18/2023 | 10/18/2023 | 10/18/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 | 10/18/2023 | 10/17/2023 | | 10/17/2023 | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | |
| 007-McLouth_DioxFur | 1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN | 67562-39-4 | | pg/g | 233 A | 121 JA | 143 JKA | 405 A | 300 A | 429 A | 123 A | 76.2 A | 23.4 BA |
| 007-McLouth_DioxFur | 1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN | 35822-46-9 | | pg/g | 845 A | 386 A | 543 A | 672 A | 438 A | 620 A | 52.2 A | 71.3 A | 18.3 BKA |
| 007-McLouth_DioxFur | 1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN | 55673-89-7 | | pg/g | 211 UA | 219 UA | 212 UA | 212 UA | 35.5 JKA | 212 UA | 14.1 A | 23.4 BJA | 3.1 UA |
| 007-McLouth_DioxFur | 1,2,3,4,7,8-HEXACHLORODIBENZOFURAN | 70648-26-9 | | pg/g | 211 UA | 69.1 JA | 212 UA | 93.3 JKA | 77.6 JA | 69 JKA | 30.7 A | 68.1 A | 9.07 BA |
| 007-McLouth_DioxFur | 1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN | 39227-28-6 | | pg/g | 211 UA | 219 UA | 212 UA | 212 UA | 196 UA | 212 UA | 3.33 UA | 50 UA | 3.1 UA |
| 007-McLouth_DioxFur | 1,2,3,6,7,8-HEXACHLORODIBENZOFURAN | 57117-44-9 | | pg/g | 143 JA | 219 UA | 212 UA | 96.1 JA | 73.7 JA | 76.6 JA | 27.1 A | 18.4 BJKA | 9.83 BKA |
| 007-McLouth_DioxFur | 1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN | 57653-85-7 | | pg/g | 211 UA | 84.2 JA | 127 JA | 299 A | 101 JKA | 206 JA | 10.5 KA | 21.8 BJKA | 3.1 UA |
| 007-McLouth_DioxFur | 1,2,3,7,8,9-HEXACHLORODIBENZOFURAN | 72918-21-9 | | pg/g | 211 UA | 219 UA | 212 UA | 212 UA | 196 UA | 212 UA | 3.33 UA | 50 UA | 3.1 UA |
| 007-McLouth_DioxFur | 1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN | 19408-74-3 | | pg/g | 211 UA | 219 UA | 212 UA | 116 JKA | 32.3 JA | 77.2 JA | 5.79 KA | 50 UA | 3.1 UA |
| 007-McLouth_DioxFur | 1,2,3,7,8-PENTACHLORODIBENZOFURAN | 57117-41-6 | | pg/g | 211 UA | 219 UA | 212 UA | 42.4 JKA | 29.1 JKA | 45.6 JA | 21.9 A | 46.4 JA | 7.71 BKA |
| 007-McLouth_DioxFur | 1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN | 40321-76-4 | | pg/g | 211 UA | 219 UA | 212 UA | 212 UA | 196 UA | 212 UA | 3.33 UA | 50 UA | 3.1 UA |
| 007-McLouth_DioxFur | 2,3,4,6,7,8-HEXACHLORODIBENZOFURAN | 60851-34-5 | | pg/g | 211 UA | 219 UA | 212 UA | 212 UA | 196 UA | 212 UA | 6.91 A | 50 UA | 3.1 UA |
| 007-McLouth_DioxFur | 2,3,4,7,8-PENTACHLORODIBENZOFURAN | 57117-31-4 | | pg/g | 211 UA | 219 UA | 212 UA | 46 JKA | 37.4 JA | 54.4 JA | 17 KA | 32 BJKA | 3.1 UA |
| 007-McLouth_DioxFur | 2,3,7,8-TETRACHLORODIBENZOFURAN | 51207-31-9 | | pg/g | 135 KA | 43.8 UA | 59.8 A | 62.2 A | 33.3 JA | 72.3 A | 25.5 A | 32 A | 7.79 BA |
| 007-McLouth_DioxFur | 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN | 1746-01-6 | 0.12 | pg/g | 42.1 UA | 43.8 UA | 42.4 UA | 42.4 UA | 39.3 UA | 42.3 UA | 0.667 UA | 10 UA | 0.62 UA |
| 007-McLouth_DioxFur | OCTACHLORODIBENZOFURAN | 39001-02-0 | | pg/g | 1520 A | 1700 A | 1160 A | 5730 A | 2100 A | 3050 A | 526 A | 229 A | 64.5 BA |
| 007-McLouth_DioxFur | OCTACHLORODIBENZO-P-DIOXIN | 3268-87-9 | | pg/g | 5260 A | 2440 A | 3630 A | 2110 A | 2120 A | 2810 A | 454 A | 448 A | 158 A |
| 007-McLouth_DioxFur | Total Dioxin TEQ (Mammal) | TEQ(M) | 0.12 | pg/g | 296.9525 JA | 263.9975 JA | 272.9429 JA | 333.7133 JA | 266.512 JA | 320.1173 JA | 20.134 A | 83.7189 JA | 7.4631 JA |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

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A - Unvalidated Result

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K - Estimated Maximum Possible Concentration

Table D - Dioxins/Furans Detection Results

| Location | | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD09 | MSTC23-SD09 | MSTC23-SD09 | MSTC23-SD10 | MSTC23-SD12 | | | |
|---------------------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------|------------|-----------|
| Sample # | MSTC23-SD08-SS-0.5 | MSTC23-SD08-SS-1.0 | MSTC23-SD08-SS-2.0 | MSTC23-SD09-SS-0.5 | MSTC23-SD09-SS-1.0 | MSTC23-SD09-SS-2.0 | MSTC23-SD10-SS-0.5 | MSTC23-SD12-SS-0.5 | MSTC23-SD12-SS-1.0 | | | |
| Start Depth | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | | | |
| End Depth | 0.5 | 1 | 2 | 0.5 | 1 | 2 | 0.5 | 0.5 | 0.5 | | | |
| Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft | | | |
| Sample Type | N | N | N | N | N | N | N | N | N | | | |
| Parent Sample # | | | | | | | | | | | | |
| Sample Date | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | | | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 007-McLouth_DioxFur | 1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN | 67562-39-4 | | pg/g | 69.3 A | 8.56 BA | 2.56 BJA | 151 JA | 125 JA | 16.7 BA | 224 A | 52.7 A |
| 007-McLouth_DioxFur | 1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN | 35822-46-9 | | pg/g | 30.1 BA | 8.74 BA | 3.57 BKA | 76.6 JA | 266 A | 17.9 BKA | 10.5 BA | 37 BA |
| 007-McLouth_DioxFur | 1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN | 55673-89-7 | | pg/g | 16.7 BA | 3.13 UA | 3.26 UA | 221 UA | 206 UA | 3.09 UA | 79.7 A | 12 BA |
| 007-McLouth_DioxFur | 1,2,3,4,7,8-HEXACHLORODIBENZOFURAN | 70648-26-9 | | pg/g | 21 BA | 2.62 BKA | 3.26 UA | 66.8 JA | 35.9 JKA | 4.39 BA | 814 A | 56.6 A |
| 007-McLouth_DioxFur | 1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN | 39227-28-6 | | pg/g | 11.4 BKA | 3.13 UA | 3.26 UA | 221 UA | 206 UA | 3.09 UA | 3.66 UA | 3.88 UA |
| 007-McLouth_DioxFur | 1,2,3,6,7,8-HEXACHLORODIBENZOFURAN | 57117-44-9 | | pg/g | 25.7 BA | 4.51 BA | 2.34 BJA | 68.7 JKA | 39.9 JKA | 5 BA | 205 A | 24.2 BA |
| 007-McLouth_DioxFur | 1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN | 57653-85-7 | | pg/g | 14 BKA | 4.49 BKA | 3.26 UA | 221 UA | 52.5 JA | 3.09 UA | 3.66 UA | 8.73 BA |
| 007-McLouth_DioxFur | 1,2,3,7,8,9-HEXACHLORODIBENZOFURAN | 72918-21-9 | | pg/g | 12.9 BA | 3.13 UA | 3.26 UA | 221 UA | 206 UA | 3.09 UA | 106 A | 13.3 BA |
| 007-McLouth_DioxFur | 1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN | 19408-74-3 | | pg/g | 12.6 BA | 3.13 UA | 2.54 BJA | 221 UA | 206 UA | 3.09 UA | 3.66 UA | 6.83 BA |
| 007-McLouth_DioxFur | 1,2,3,7,8-PENTACHLORODIBENZOFURAN | 57117-41-6 | | pg/g | 13.9 BA | 3.13 UA | 3.26 UA | 42.9 JA | 33.3 BJA | 3.87 BA | 517 A | 40 BA |
| 007-McLouth_DioxFur | 1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN | 40321-76-4 | | pg/g | 9.47 BA | 3.13 UA | 3.26 UA | 221 UA | 206 UA | 3.09 UA | 3.66 UA | 5.06 BKA |
| 007-McLouth_DioxFur | 2,3,4,6,7,8-HEXACHLORODIBENZOFURAN | 60851-34-5 | | pg/g | 11.4 BA | 3.13 UA | 3.26 UA | 221 UA | 206 UA | 3.09 UA | 45.5 A | 7.6 BA |
| 007-McLouth_DioxFur | 2,3,4,7,8-PENTACHLORODIBENZOFURAN | 57117-31-4 | | pg/g | 14.6 BA | 3.02 BJA | 3.26 UA | 221 UA | 206 UA | 2.69 BKA | 246 A | 25.4 BA |
| 007-McLouth_DioxFur | 2,3,7,8-TETRACHLORODIBENZOFURAN | 51207-31-9 | | pg/g | 7.53 BA | 0.626 UA | 0.652 UA | 30.4 JA | 20.8 JA | 2.37 BA | 212 A | 27.8 A |
| 007-McLouth_DioxFur | 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN | 1746-01-6 | 0.12 | pg/g | 2.56 BA | 0.626 UA | 0.652 UA | 44.2 UA | 41.2 UA | 0.618 UA | 0.732 UA | 2.41 BA |
| 007-McLouth_DioxFur | OCTACHLORODIBENZOFURAN | 39001-02-0 | | pg/g | 66.2 BA | 12.4 BA | 6.03 BJA | 310 JA | 176 JA | 36.8 BA | 179 A | 135 A |
| 007-McLouth_DioxFur | OCTACHLORODIBENZO-P-DIOXIN | 3268-87-9 | | pg/g | 188 A | 46.9 BA | 19.3 BA | 412 JA | 473 A | 62.7 BA | 73.8 BA | 293 A |
| 007-McLouth_DioxFur | Total Dioxin TEQ (Mammal) | TEQ(M) | 0.12 | pg/g | 29.7173 JA | 5.8124 JA | 4.3266 JA | 258.5565 JA | 238.9994 JA | 6.2694 JA | 231.4033 A | 32.096 JA |

Notes:

1. Identifies results that exceed the listed PAL value

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A - Unvalidated Result

B - The target analyte was detected in the associated blank.

J - The identification of the analyte is acceptable; the reported value is an estimate

K - Estimated Maximum Possible Concentration

Table D - Dioxins/Furans Detection Results

| | | Location | MSTC23-SD13 | MSTC23-SD13 | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD15 | MSTC23-SD19 | MSTC23-SD19 | |
|---------------------|---|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------|
| | | Sample # | MSTC23-SD13-SS-0.5 | MSTC23-SD13-SS-1.0 | MSTC23-SD14-SS-0.5 | MSTC23-SD14-SS-1.0 | MSTC23-SD14-SS-2.0 | MSTC23-SD15-SS-0.5 | MSTC23-SD19-SS-0.5 | MSTC23-SD19-SS-1.0 | MSTC23-SD19-SS-1.0 | |
| | | Start Depth | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | |
| | | End Depth | 0.5 | 1 | 0.5 | 1 | 2 | 0.5 | 0.5 | 0.5 | 1 | |
| | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft | |
| | | Sample Type | N | N | N | N | N | N | N | N | N | |
| | | Parent Sample # | | | | | | | | | | |
| | | Sample Date | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 007-McLouth_DioxFur | 1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN | 67562-39-4 | | pg/g | 144 A | 1.27 BJKA | 41.4 A | 3.01 UA | 5.01 BA | 44 BA | 173 JA | 171 JKA |
| 007-McLouth_DioxFur | 1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN | 35822-46-9 | | pg/g | 23.2 BA | 2.96 UA | 66.2 A | 3.01 UA | 5.04 BA | 48 KA | 105 JA | 44.2 JA |
| 007-McLouth_DioxFur | 1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN | 55673-89-7 | | pg/g | 45.9 BA | 2.96 UA | 3.07 UJA | 3.01 UA | 5.07 BA | 3.52 UA | 229 UA | 225 UA |
| 007-McLouth_DioxFur | 1,2,3,4,7,8-HEXACHLORODIBENZOFURAN | 70648-26-9 | | pg/g | 393 A | 0.967 BJA | 17.7 KA | 3.01 UA | 4.85 BKA | 19.5 BKA | 65.1 JKA | 235 A |
| 007-McLouth_DioxFur | 1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN | 39227-28-6 | | pg/g | 3.02 UA | 2.96 UA | 3.07 UJA | 3.01 UA | 5.74 BKA | 3.52 UJA | 229 UA | 225 UA |
| 007-McLouth_DioxFur | 1,2,3,6,7,8-HEXACHLORODIBENZOFURAN | 57117-44-9 | | pg/g | 110 A | 0.798 BJKA | 17.1 KA | 3.01 UA | 4.96 BA | 8.24 BKA | 66.8 JA | 92.5 JA |
| 007-McLouth_DioxFur | 1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN | 57653-85-7 | | pg/g | 4.09 BA | 2.96 UA | 3.07 UJA | 3.01 UA | 4.67 BA | 8.93 BKA | 229 UA | 225 UA |
| 007-McLouth_DioxFur | 1,2,3,7,8,9-HEXACHLORODIBENZOFURAN | 72918-21-9 | | pg/g | 37.5 BA | 2.96 UA | 3.07 UJA | 3.01 UA | 5.54 BA | 3.52 UJA | 229 UA | 39.6 BJKA |
| 007-McLouth_DioxFur | 1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN | 19408-74-3 | | pg/g | 3.02 UA | 2.96 UA | 3.07 UJA | 3.01 UA | 4.43 BKA | 5.07 BKA | 229 UA | 225 UA |
| 007-McLouth_DioxFur | 1,2,3,7,8-PENTACHLORODIBENZOFURAN | 57117-41-6 | | pg/g | 101 A | 2.96 UA | 10.9 A | 3.01 UA | 4.74 BA | 9.08 BA | 229 UA | 202 JA |
| 007-McLouth_DioxFur | 1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN | 40321-76-4 | | pg/g | 3.02 UA | 2.96 UA | 3.07 UJA | 3.01 UA | 4.92 BA | 3.52 UJA | 229 UA | 225 UA |
| 007-McLouth_DioxFur | 2,3,4,6,7,8-HEXACHLORODIBENZOFURAN | 60851-34-5 | | pg/g | 18 BA | 1 BJA | 3.07 UJA | 3.01 UA | 4.87 BA | 6.65 BKA | 229 UA | 25.1 BJKA |
| 007-McLouth_DioxFur | 2,3,4,7,8-PENTACHLORODIBENZOFURAN | 57117-31-4 | | pg/g | 29.1 BA | 0.771 BJKA | 19.5 A | 3.01 UA | 4.79 BA | 9.06 BA | 229 UA | 124 JA |
| 007-McLouth_DioxFur | 2,3,7,8-TETRACHLORODIBENZOFURAN | 51207-31-9 | | pg/g | 13.9 A | 1.17 BKA | 23 A | 0.602 UA | 1.5 BKA | 11.2 A | 34.1 JA | 116 A |
| 007-McLouth_DioxFur | 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN | 1746-01-6 | 0.12 | pg/g | 0.604 UA | 0.591 UA | 0.614 UJA | 0.602 UA | 1.13 BA | 0.705 UJA | 45.8 UA | 45 UA |
| 007-McLouth_DioxFur | OCTACHLORODIBENZOFURAN | 39001-02-0 | | pg/g | 107 A | 3.45 BJA | 180 A | 6.02 UA | 10.4 BA | 96.7 A | 325 JA | 166 JA |
| 007-McLouth_DioxFur | OCTACHLORODIBENZO-P-DIOXIN | 3268-87-9 | | pg/g | 135 A | 8.86 BKA | 1090 A | 6.02 UA | 11.3 BA | 378 A | 464 A | 251 JA |
| 007-McLouth_DioxFur | Total Dioxin TEQ (Mammal) | TEQ(M) | 0.12 | pg/g | 72.576 A | 3.9345 JA | 14.3224 A | 3.4332 A | 11.4429 JA | 14.0585 JA | 269.7418 JA | 339.9806 JA |

Notes:

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Table D - Dioxins/Furans Detection Results

| Location | | MSTC23-SD19 | MSTC23-SD20 | MSTC23-SD20 | MSTC23-SD20 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | | | |
|---------------------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------|-----------|-----------|
| Sample # | | MSTC23-SD19-SS-2.0 | MSTC23-SD20-SS-0.5 | MSTC23-SD20-SS-1.0 | MSTC23-SD20-SS-2.0 | MSTC23-SD22-SS-0.5 | MSTC23-SD22-SS-1.0 | MSTC23-SD22-SS-2.0 | MSTC23-SD22-SS-3.0 | | | |
| Start Depth | | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | | | |
| End Depth | | 2 | 0.5 | 1 | 2 | 0.5 | 1 | 2 | 3 | | | |
| Depth Unit | | ft | ft | ft | ft | ft | ft | ft | ft | | | |
| Sample Type | | N | N | N | N | N | N | N | N | | | |
| Parent Sample # | | | | | | | | | | | | |
| Sample Date | | 10/11/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | | | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 007-McLouth_DioxFur | 1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN | 67562-39-4 | | pg/g | 87.1 JA | 45.8 A | 43.8 A | 15.4 A | 29 A | 24.5 JA | 7.1 KA | 1.27 JKA |
| 007-McLouth_DioxFur | 1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN | 35822-46-9 | | pg/g | 195 UA | 33.4 A | 55.3 A | 10.6 A | 41.6 A | 33.8 JKA | 3.98 UA | 2.92 UA |
| 007-McLouth_DioxFur | 1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN | 55673-89-7 | | pg/g | 195 UA | 20.4 A | 3.09 UJA | 2.85 UA | 6.34 UJA | 168 UA | 3.98 UA | 2.92 UA |
| 007-McLouth_DioxFur | 1,2,3,4,7,8-HEXACHLORODIBENZOFURAN | 70648-26-9 | | pg/g | 67.2 JKA | 57.1 A | 23.2 A | 3.74 A | 6.34 UA | 17.4 JA | 5.51 KA | 2.92 UA |
| 007-McLouth_DioxFur | 1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN | 39227-28-6 | | pg/g | 195 UA | 3.46 UA | 3.09 UJA | 2.85 UA | 6.34 UA | 168 UA | 3.98 UA | 2.92 UA |
| 007-McLouth_DioxFur | 1,2,3,6,7,8-HEXACHLORODIBENZOFURAN | 57117-44-9 | | pg/g | 53.3 JKA | 9.43 A | 3.09 UJA | 3.76 KA | 6.4 KA | 13.7 JA | 4.71 A | 2.92 UA |
| 007-McLouth_DioxFur | 1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN | 57653-85-7 | | pg/g | 195 UA | 5.63 KA | 13.3 KA | 2.85 UA | 7.19 KA | 15.8 JKA | 3.98 UA | 2.92 UA |
| 007-McLouth_DioxFur | 1,2,3,7,8,9-HEXACHLORODIBENZOFURAN | 72918-21-9 | | pg/g | 195 UA | 7.54 A | 3.09 UJA | 2.85 UA | 6.34 UA | 168 UA | 3.98 UA | 2.92 UA |
| 007-McLouth_DioxFur | 1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN | 19408-74-3 | | pg/g | 195 UA | 3.46 UA | 3.09 UJA | 2.85 UA | 6.34 UA | 168 UA | 3.98 UA | 2.92 UA |
| 007-McLouth_DioxFur | 1,2,3,7,8-PENTACHLORODIBENZOFURAN | 57117-41-6 | | pg/g | 63.2 JKA | 9.05 A | 8.56 KA | 2.85 UA | 3.78 JKA | 168 UA | 4.15 A | 2.92 UA |
| 007-McLouth_DioxFur | 1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN | 40321-76-4 | | pg/g | 195 UA | 3.46 UA | 3.09 UJA | 2.85 UA | 6.34 UA | 168 UA | 3.98 UA | 2.92 UA |
| 007-McLouth_DioxFur | 2,3,4,6,7,8-HEXACHLORODIBENZOFURAN | 60851-34-5 | | pg/g | 195 UA | 13.4 A | 3.09 UJA | 2.85 UA | 6.34 UA | 168 UA | 3.98 UA | 2.92 UA |
| 007-McLouth_DioxFur | 2,3,4,7,8-PENTACHLORODIBENZOFURAN | 57117-31-4 | | pg/g | 41.9 JA | 7.8 A | 6.9 A | 2.85 UA | 4.01 JA | 168 UA | 3.06 JKA | 2.92 UA |
| 007-McLouth_DioxFur | 2,3,7,8-TETRACHLORODIBENZOFURAN | 51207-31-9 | | pg/g | 66.3 A | 11.4 A | 6.58 KA | 1.64 KA | 5.13 A | 33.5 UA | 5.08 A | 0.754 KA |
| 007-McLouth_DioxFur | 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN | 1746-01-6 | 0.12 | pg/g | 38.9 UA | 0.692 UJA | 0.617 UJA | 0.569 UJA | 1.27 UJA | 33.5 UA | 0.795 UJA | 0.584 UA |
| 007-McLouth_DioxFur | OCTACHLORODIBENZOFURAN | 39001-02-0 | | pg/g | 45.8 JA | 1350 A | 120 A | 21.9 A | 53.8 A | 90.4 JA | 9.52 A | 5.84 UA |
| 007-McLouth_DioxFur | OCTACHLORODIBENZO-P-DIOXIN | 3268-87-9 | | pg/g | 77.6 JKA | 172 A | 469 A | 65 A | 275 A | 232 JA | 22.3 A | 7.58 BKA |
| 007-McLouth_DioxFur | Total Dioxin TEQ (Mammal) | TEQ(M) | 0.12 | pg/g | 251.7296 JA | 15.8824 A | 10.9062 JA | 4.64 JA | 11.7191 JA | 179.9493 JA | 6.9588 JA | 2.9883 JA |

Notes:

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PAL - Project Action Limit

A - Unvalidated Result

B - The target analyte was detected in the associated blank.

J - The identification of the analyte is acceptable; the reported value is an estimate

K - Estimated Maximum Possible Concentration

Table D - Dioxins/Furans Detection Results

| | | Location | MSTC23-SD22 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | |
|---------------------|---|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|
| | | Sample # | MSTC23-SD22-SS-5.0 | MSTC23-SD23-SS-0.5 | MSTC23-SD23-SS-1.0 | MSTC23-SD23-SS-2.0 | MSTC23-SD23-SS-3.0 | MSTC23-SD23-SS-5.0 | MSTC23-SD23-SS-5.0 | |
| | | Start Depth | 4 | 0 | 0 | 1 | 2 | 4 | | |
| | | End Depth | 5 | 0.5 | 1 | 2 | 3 | 5 | | |
| | | Depth Unit | ft | ft | ft | ft | ft | ft | | |
| | | Sample Type | N | N | N | N | N | N | | |
| | | Parent Sample # | | | | | | | | |
| | | Sample Date | 10/12/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | |
| 007-McLouth_DioxFur | 1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN | 67562-39-4 | | pg/g | 1.4 JKA | 18.8 KA | 96.4 A | 3.14 UA | 3.18 UA | 3.04 UA |
| 007-McLouth_DioxFur | 1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN | 35822-46-9 | | pg/g | 1.72 JKA | 21.7 A | 7.01 KA | 3.14 UA | 3.18 UA | 3.04 UA |
| 007-McLouth_DioxFur | 1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN | 55673-89-7 | | pg/g | 3.08 UA | 4.24 JA | 12.6 A | 3.14 UA | 3.18 UA | 3.04 UA |
| 007-McLouth_DioxFur | 1,2,3,4,7,8-HEXACHLORODIBENZOFURAN | 70648-26-9 | | pg/g | 3.08 UA | 5.5 KA | 9.1 A | 3.14 UA | 3.18 UA | 3.04 UA |
| 007-McLouth_DioxFur | 1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN | 39227-28-6 | | pg/g | 3.08 UA | 5.25 UA | 0.914 BJKA | 3.14 UA | 3.18 UA | 3.04 UA |
| 007-McLouth_DioxFur | 1,2,3,6,7,8-HEXACHLORODIBENZOFURAN | 57117-44-9 | | pg/g | 3.08 UA | 5.81 A | 22.5 A | 3.14 UA | 3.18 UA | 3.04 UA |
| 007-McLouth_DioxFur | 1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN | 57653-85-7 | | pg/g | 3.08 UA | 5.25 UA | 1.12 BJA | 3.14 UA | 3.18 UA | 3.04 UA |
| 007-McLouth_DioxFur | 1,2,3,7,8,9-HEXACHLORODIBENZOFURAN | 72918-21-9 | | pg/g | 3.08 UA | 5.25 UA | 10.4 A | 3.14 UA | 3.18 UA | 3.04 UA |
| 007-McLouth_DioxFur | 1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN | 19408-74-3 | | pg/g | 3.08 UA | 5.25 UA | 1.04 JA | 3.14 UA | 3.18 UA | 3.04 UA |
| 007-McLouth_DioxFur | 1,2,3,7,8-PENTACHLORODIBENZOFURAN | 57117-41-6 | | pg/g | 3.08 UA | 3.31 JA | 2.41 JA | 3.14 UA | 3.18 UA | 3.04 UA |
| 007-McLouth_DioxFur | 1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN | 40321-76-4 | | pg/g | 3.08 UA | 5.25 UA | 3.02 UA | 3.14 UA | 3.18 UA | 3.04 UA |
| 007-McLouth_DioxFur | 2,3,4,6,7,8-HEXACHLORODIBENZOFURAN | 60851-34-5 | | pg/g | 3.08 UA | 5.25 UA | 3.02 UA | 3.14 UA | 3.18 UA | 3.04 UA |
| 007-McLouth_DioxFur | 2,3,4,7,8-PENTACHLORODIBENZOFURAN | 57117-31-4 | | pg/g | 3.08 UA | 3.6 JKA | 2.1 JKA | 3.14 UA | 3.18 UA | 3.04 UA |
| 007-McLouth_DioxFur | 2,3,7,8-TETRACHLORODIBENZOFURAN | 51207-31-9 | | pg/g | 0.739 A | 5.11 A | 3.78 KA | 0.628 UA | 0.636 UA | 0.607 UA |
| 007-McLouth_DioxFur | 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN | 1746-01-6 | 0.12 | pg/g | 0.616 UA | 1.05 UJA | 0.462 JA | 0.628 UA | 0.636 UA | 0.607 UA |
| 007-McLouth_DioxFur | OCTACHLORODIBENZOFURAN | 39001-02-0 | | pg/g | 27.6 A | 77 A | 382 A | 6.28 UA | 6.36 UA | 6.07 UA |
| 007-McLouth_DioxFur | OCTACHLORODIBENZO-P-DIOXIN | 3268-87-9 | | pg/g | 12.6 BKA | 543 A | 114 A | 6.28 UA | 6.36 UA | 6.07 UA |
| 007-McLouth_DioxFur | Total Dioxin TEQ (Mammal) | TEQ(M) | 0.12 | pg/g | 3.4213 JA | 9.8261 JA | 10.4692 A | 3.5815 A | 3.6271 A | 3.4669 A |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

CAS # - Chemical Abstract Service Number

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

B - The target analyte was detected in the associated blank.

J - The identification of the analyte is acceptable; the reported value is an estimate

K - Estimated Maximum Possible Concentration

Table E - PFAS Detection Results

| | | | | Location | MSTC23-SD01 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD03 | MSTC23-SD03 | MSTC23-SD03 | MSTC23-SD06 |
|-----------------|---|--------------|---------|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------|
| | | | | Sample # | MSTC23-SD01-SS-0.5 | MSTC23-SD02-1.0 | MSTC23-SD02-2.0 | MSTC23-SD02-SS-0.5 | MSTC23-SD03-1.0 | MSTC23-SD03-2.0 | MSTC23-SD03-SS-0.5 | MSTC23-SD06-1.0 |
| | | | | Start Depth | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| | | | | End Depth | 0.5 | 1 | 2 | 0.5 | 1 | 2 | 0.5 | 1 |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | N | N | N | N | N | N |
| | | | | Parent Sample # | | | | | | | | |
| | | | | Sample Date | 10/18/2023 | 10/19/2023 | 10/19/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 012-McLouth_PFA | 11CI-PF3OUdS | 83329-89-9 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | 1H,1H,2H,2H-perfluorodecane sulfonate (8:2 FTS) | 27619-96-1 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | 1H,1H,2H,2H-perfluorohexane sulfonate (4:2 FTS) | 27619-93-8 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | 1H,1H,2H,2H-perfluorooctane sulfonate (6:2 FTS) | 27619-94-9 | | ng/kg | 0.68 BA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | 2H,2H,3H,3H-Perfluorooctanoic acid | 914637-49-3 | | ng/kg | 38.6 UA | 709 A | 614 A | 43.8 UA | 315 A | 338 A | 54.1 A | 41 UA |
| 012-McLouth_PFA | 3:3 FTCA | 356-02-05 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | 3-Perfluoroheptyl propanoic acid | 812-70-4 | | ng/kg | 38.6 UA | 1050 A | 207 A | 71.2 A | 243 A | 49.7 UA | 53.3 A | 108 A |
| 012-McLouth_PFA | 9CI-PF3ONS | 73606-19-6 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | ADONA | 958445-44-8 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | Hexafluoropropylene oxide dimer acid | 13252-13-6 | 23000 | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | N-ethyl perfluorooctanesulfonamide | 4151-50-2 | | ng/kg | 38.6 UA | 84.2 A | 89.4 A | 43.8 UA | 51.1 UA | 62.1 A | 40.9 UA | 84.7 A |
| 012-McLouth_PFA | N-ethyl perfluorooctanesulfonamidoacetic acid | 2991-50-6 | | ng/kg | 239 A | 1990 A | 1760 A | 965 A | 1930 A | 2300 A | 303 A | 1880 A |
| 012-McLouth_PFA | N-ethyl perfluorooctanesulfonamidoethanol | 1691-99-2 | | ng/kg | 180 A | 381 A | 765 A | 272 A | 135 A | 142 A | 66.4 A | 533 A |
| 012-McLouth_PFA | N-methyl perfluorooctanesulfonamide | 31506-32-8 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 781 A | 40.9 UA | 41 UA |
| 012-McLouth_PFA | N-methyl perfluorooctanesulfonamidoacetic acid | 2355-31-9 | | ng/kg | 41.6 A | 1840 A | 1350 A | 684 A | 3150 A | 186 A | 230 A | 1260 A |
| 012-McLouth_PFA | N-methyl perfluorooctanesulfonamidoethanol | 24448-09-7 | | ng/kg | 76 A | 4430 A | 4840 A | 1260 A | 1530 A | 49.7 UA | 146 A | 1510 A |
| 012-McLouth_PFA | Nonafluoro-3,6-dioxiheptanoic acid | 15172-58-6 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | perfluoro-1-decanesulfonate (PFDS) | 2806-15-7 | | ng/kg | 38.6 UA | 114 A | 44.2 UA | 139 A | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | perfluoro-1-heptanesulfonate (PFHpS) | 21934-50-9 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | perfluoro-1-nonanesulfonate (PFNS) | 98789-57-2 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | perfluoro-1-pentanesulfonate (PFPeS) | 630402-22-1 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | Perfluoro-3-methoxypropanoic acid | 377-73-1 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | Perfluoro-4-methoxybutanoic acid | 863090-89-5 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | Perfluorobutanesulfonic acid | 375-73-5 | 1900000 | ng/kg | 193 UA | 246 UA | 221 UA | 219 UA | 255 UA | 249 UA | 205 UA | 205 UA |
| 012-McLouth_PFA | perfluorobutyl sulfonate | 29420-49-3 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | Perfluorodecanoic acid | 335-76-2 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | Perfluorododecanoic acid | 307-55-1 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | Perfluoroheptanoic acid | 375-85-9 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | Perfluorohexanoic acid | 307-24-4 | 3200000 | ng/kg | 77.2 UA | 98.6 UA | 88.5 UA | 87.6 UA | 102 UA | 99.4 UA | 81.9 UA | 82 UA |
| 012-McLouth_PFA | perfluorohexyl sulfonate | 3871-99-6 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | Perfluorononanoic acid | 375-95-1 | 19000 | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | Perfluorooctanesulfonamide | 754-91-6 | | ng/kg | 38.6 UA | 76.9 A | 51.7 A | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | perfluorooctanoate | 3825-26-1 | | | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | perfluorooctyl sulfonate | 2795-39-3 | | ng/kg | 46.3 UA | 99 A | 61.6 A | 112 A | 61.3 UA | 59.7 UA | 104 A | 49.2 UA |
| 012-McLouth_PFA | Perfluoropentanoic acid | 2706-90-3 | | ng/kg | 193 UA | 246 UA | 221 UA | 219 UA | 255 UA | 249 UA | 205 UA | 205 UA |
| 012-McLouth_PFA | Perfluorotetradecanoic acid | 376-06-7 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 58 A | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | Perfluorotridecanoic acid | 72629-94-8 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | Perfluoroundecanoic acid | 2058-94-8 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | PFDoS | 1260224-54-1 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |
| 012-McLouth_PFA | PFEESA | 117205-07-9 | | ng/kg | 38.6 UA | 49.3 UA | 44.2 UA | 43.8 UA | 51.1 UA | 49.7 UA | 40.9 UA | 41 UA |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

CAS # - Chemical Abstract Service Number

FD - Field duplicate

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

B - The target analyte was detected in the associated blank.

U - Not detected

Table E - PFAS Detection Results

| | | | | Location | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD07 |
|-----------------|---|--------------|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------------|--------------------|-------------|
| | | | | Sample # | MSTC23-SD06-2.0 | MSTC23-SD06-3.0 | MSTC23-SD06-5.0 | MSTC23-SD06-7.0 | MSTC23-SD06-9.0 | MSTC23-SD06A-7.0 | MSTC23-SD06-SS-0.5 | MSTC23-SD07-SS-0.5 | |
| | | | | Start Depth | 1 | 2 | 3 | 5 | 7 | 5 | 0 | 0 | |
| | | | | End Depth | 2 | 3 | 5 | 7 | 9 | 7 | 0.5 | 0.5 | |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | |
| | | | | Sample Type | N | N | N | N | N | FD | N | N | |
| | | | | Parent Sample # | | | | | | MSTC23-SD06-7.0 | | | |
| | | | | Sample Date | 10/18/2023 | 10/18/2023 | 10/18/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 | 10/18/2023 | 10/17/2023 | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | |
| 012-Mclouth_PFA | 11CI-PF3OUdS | 83329-89-9 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | 1H,1H,2H,2H-perfluorodecane sulfonate (8:2 FTS) | 27619-96-1 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | 1H,1H,2H,2H-perfluorohexane sulfonate (4:2 FTS) | 27619-93-8 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | 1H,1H,2H,2H-perfluorooctane sulfonate (6:2 FTS) | 27619-94-9 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | 2H,2H,3H,3H-Perfluorooctanoic acid | 914637-49-3 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | 3:3 FTCA | 356-02-05 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | 3-Perfluoroheptyl propanoic acid | 812-70-4 | | ng/kg | 46.8 A | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | 9CI-PF3ONS | 73606-19-6 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | ADONA | 958445-44-8 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | Hexafluoropropylene oxide dimer acid | 13252-13-6 | 23000 | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | N-ethyl perfluorooctanesulfonamide | 4151-50-2 | | ng/kg | 69.6 A | 64 A | 36.5 UA | 42.7 A | 37.9 UA | 50.8 A | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | N-ethyl perfluorooctanesulfonamidoacetic acid | 2991-50-6 | | ng/kg | 1600 A | 1530 A | 911 A | 1180 A | 703 A | 1450 A | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | N-ethyl perfluorooctanesulfonamidoethanol | 1691-99-2 | | ng/kg | 306 A | 366 A | 648 A | 527 A | 376 A | 581 A | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | N-methyl perfluorooctanesulfonamide | 31506-32-8 | | ng/kg | 41.3 UA | 51.6 A | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | N-methyl perfluorooctanesulfonamidoacetic acid | 2355-31-9 | | ng/kg | 928 A | 1180 A | 2500 A | 1190 A | 39.1 A | 1150 A | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | N-methyl perfluorooctanesulfonamidoethanol | 24448-09-7 | | ng/kg | 1590 A | 2650 A | 2150 A | 2400 A | 56.3 A | 1600 A | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | Nonafluoro-3,6-dioxahexanoic acid | 15172-58-6 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | perfluoro-1-decanesulfonate (PFDS) | 2806-15-7 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | perfluoro-1-heptanesulfonate (PFHps) | 21934-50-9 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | perfluoro-1-nonanesulfonate (PFNS) | 98789-57-2 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | perfluoro-1-pentanesulfonate (PFPeS) | 630402-22-1 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | Perfluoro-3-methoxypropanoic acid | 377-73-1 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | Perfluoro-4-methoxybutanoic acid | 863090-89-5 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | Perfluorobutanesulfonic acid | 375-73-5 | 1900000 | ng/kg | 207 UA | 211 UA | 183 UA | 204 UA | 190 UA | 210 UA | 169 UA | 252 UA | |
| 012-Mclouth_PFA | perfluorobutyl sulfonate | 29420-49-3 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | Perfluorodecanoic acid | 335-76-2 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | Perfluorododecanoic acid | 307-55-1 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | Perfluoroheptanoic acid | 375-85-9 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | Perfluorohexanoic acid | 307-24-4 | 3200000 | ng/kg | 82.7 UA | 84.4 UA | 73.1 UA | 81.5 UA | 75.8 UA | 83.9 UA | 67.6 UA | 101 UA | |
| 012-Mclouth_PFA | perfluorohexyl sulfonate | 3871-99-6 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | Perfluorononanoic acid | 375-95-1 | 19000 | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | Perfluorooctanesulfonamide | 754-91-6 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | perfluorooctanoate | 3825-26-1 | | | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 61.8 A | |
| 012-Mclouth_PFA | perfluorooctyl sulfonate | 2795-39-3 | | ng/kg | 49.6 UA | 50.6 UA | 43.8 UA | 48.9 UA | 45.5 UA | 50.3 UA | 43.6 A | 85.1 A | |
| 012-Mclouth_PFA | Perfluoropentanoic acid | 2706-90-3 | | ng/kg | 207 UA | 211 UA | 183 UA | 204 UA | 190 UA | 210 UA | 169 UA | 252 UA | |
| 012-Mclouth_PFA | Perfluorotetradecanoic acid | 376-06-7 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | Perfluorotridecanoic acid | 72629-94-8 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | Perfluoroundecanoic acid | 2058-94-8 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | PFDoS | 1260224-54-1 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |
| 012-Mclouth_PFA | PFEESA | 117205-07-9 | | ng/kg | 41.3 UA | 42.2 UA | 36.5 UA | 40.7 UA | 37.9 UA | 41.9 UA | 33.8 UA | 50.4 UA | |

Notes:

- Identifies results that exceed the listed PAL value
- The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

- CAS # - Chemical Abstract Service Number
- FD - Field duplicate
- N - Field sample
- PAL - Project Action Limit
- A - Unvalidated Result
- B - The target analyte was detected in the associated blank.
- U - Not detected

Table E - PFAS Detection Results

| | | | | Location | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD12 | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD14 |
|-----------------|---|--------------|---------|-----------------|-----------------|-----------------|---------------------|--------------------|--------------------|-----------------|-----------------|--------------------|
| | | | | Sample # | MSTC23-SD08-1.0 | MSTC23-SD08-2.0 | MSTC23-SD08A-SS-0.5 | MSTC23-SD08-SS-0.5 | MSTC23-SD12-SS-0.5 | MSTC23-SD14-1.0 | MSTC23-SD14-2.0 | MSTC23-SD14-SS-0.5 |
| | | | | Start Depth | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| | | | | End Depth | 1 | 2 | 0.5 | 0.5 | 0.5 | 1 | 2 | 0.5 |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | FD | N | N | N | N | N |
| | | | | Parent Sample # | | | MSTC23-SD08-SS-0.5 | | | | | |
| | | | | Sample Date | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/13/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 012-McLouth_PFA | 11CI-PF3OUdS | 83329-89-9 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | 1H,1H,2H,2H-perfluorodecane sulfonate (8:2 FTS) | 27619-96-1 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | 1H,1H,2H,2H-perfluorohexane sulfonate (4:2 FTS) | 27619-93-8 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | 1H,1H,2H,2H-perfluorooctane sulfonate (6:2 FTS) | 27619-94-9 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | 2H,2H,3H,3H-Perfluorooctanoic acid | 914637-49-3 | | ng/kg | 32.6 UA | 32.3 UA | 33.6 A | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | 3:3 FTCA | 356-02-05 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | 3-Perfluoroheptyl propanoic acid | 812-70-4 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | 9CI-PF3ONS | 73606-19-6 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | ADONA | 958445-44-8 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | Hexafluoropropylene oxide dimer acid | 13252-13-6 | 23000 | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | N-ethyl perfluorooctanesulfonamide | 4151-50-2 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | N-ethyl perfluorooctanesulfonamidoacetic acid | 2991-50-6 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | N-ethyl perfluorooctanesulfonamidoethanol | 1691-99-2 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | N-methyl perfluorooctanesulfonamide | 31506-32-8 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | N-methyl perfluorooctanesulfonamidoacetic acid | 2355-31-9 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | N-methyl perfluorooctanesulfonamidoethanol | 24448-09-7 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | Nonafluoro-3,6-dioxahexanoic acid | 15172-58-6 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | perfluoro-1-decanesulfonate (PFDS) | 2806-15-7 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | perfluoro-1-heptanesulfonate (PFHpS) | 21934-50-9 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | perfluoro-1-nonanesulfonate (PFNS) | 98789-57-2 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | perfluoro-1-pentanesulfonate (PFPeS) | 630402-22-1 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | Perfluoro-3-methoxypropanoic acid | 377-73-1 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | Perfluoro-4-methoxybutanoic acid | 863090-89-5 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | Perfluorobutanesulfonic acid | 375-73-5 | 1900000 | ng/kg | 163 UA | 162 UA | 165 UA | 161 UA | 171 UA | 150 UA | 149 UA | 154 UA |
| 012-McLouth_PFA | perfluorobutyl sulfonate | 29420-49-3 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 45.5 A |
| 012-McLouth_PFA | Perfluorodecanoic acid | 335-76-2 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 31.1 A | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | Perfluorododecanoic acid | 307-55-1 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 73.9 A | 30 UA | 29.7 UA | 33.4 A |
| 012-McLouth_PFA | Perfluoroheptanoic acid | 375-85-9 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 66.7 A | 49.2 A | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | Perfluorohexanoic acid | 307-24-4 | 3200000 | ng/kg | 65.2 UA | 64.6 UA | 66 UA | 64.3 UA | 68.4 A | 59.4 UA | 59.4 UA | 61.5 UA |
| 012-McLouth_PFA | perfluorohexyl sulfonate | 3871-99-6 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | Perfluorononanoic acid | 375-95-1 | 19000 | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | Perfluorooctanesulfonamide | 754-91-6 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | perfluorooctanoate | 3825-26-1 | | | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 54.6 A | 44.9 A | 31.2 A | 30.8 UA |
| 012-McLouth_PFA | perfluorooctyl sulfonate | 2795-39-3 | | ng/kg | 39.1 UA | 38.8 UA | 45.2 A | 38.6 UA | 70.6 A | 36 UA | 35.6 UA | 36.9 UA |
| 012-McLouth_PFA | Perfluoropentanoic acid | 2706-90-3 | | ng/kg | 163 UA | 162 UA | 165 UA | 161 UA | 171 UA | 150 UA | 149 UA | 154 UA |
| 012-McLouth_PFA | Perfluorotetradecanoic acid | 376-06-7 | | ng/kg | 32.6 UA | 32.3 UA | 42.6 A | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 39 A |
| 012-McLouth_PFA | Perfluorotridecanoic acid | 72629-94-8 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 39.5 A | 30 UA | 29.7 UA | 215 A |
| 012-McLouth_PFA | Perfluoroundecanoic acid | 2058-94-8 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | PFDoS | 1260224-54-1 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |
| 012-McLouth_PFA | PFEESA | 117205-07-9 | | ng/kg | 32.6 UA | 32.3 UA | 33 UA | 32.1 UA | 34.2 UA | 30 UA | 29.7 UA | 30.8 UA |

Notes:

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- A - Unvalidated Result
- B - The target analyte was detected in the associated blank.
- U - Not detected

Table E - PFAS Detection Results

| | | | | Location | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 |
|-----------------|---|--------------|---------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------|
| | | | | Sample # | MSTC23-SD22-1.0 | MSTC23-SD22-2.0 | MSTC23-SD22-3.0 | MSTC23-SD22-5.0 | MSTC23-SD22-SS-0.5 |
| | | | | Start Depth | 0 | 1 | 2 | 3 | 0 |
| | | | | End Depth | 1 | 2 | 3 | 5 | 0.5 |
| | | | | Depth Unit | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | N | N | N |
| | | | | Parent Sample # | | | | | |
| | | | | Sample Date | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | |
| 012-Mclouth_PFA | 11CI-PF3OUdS | 83329-89-9 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | 1H,1H,2H,2H-perfluorodecane sulfonate (8:2 FTS) | 27619-96-1 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | 1H,1H,2H,2H-perfluorohexane sulfonate (4:2 FTS) | 27619-93-8 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | 1H,1H,2H,2H-perfluorooctane sulfonate (6:2 FTS) | 27619-94-9 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | 2H,2H,3H,3H-Perfluorooctanoic acid | 914637-49-3 | | ng/kg | 58.7 A | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | 3:3 FTCA | 356-02-05 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | 3-Perfluoroheptyl propanoic acid | 812-70-4 | | ng/kg | 42.6 A | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | 9CI-PF3ONS | 73606-19-6 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | ADONA | 958445-44-8 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | Hexafluoropropylene oxide dimer acid | 13252-13-6 | 23000 | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | N-ethyl perfluorooctanesulfonamide | 4151-50-2 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | N-ethyl perfluorooctanesulfonamidoacetic acid | 2991-50-6 | | ng/kg | 884 A | 40.7 UA | 31.9 UA | 31.5 UA | 81.5 A |
| 012-Mclouth_PFA | N-ethyl perfluorooctanesulfonamidoethanol | 1691-99-2 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | N-methyl perfluorooctanesulfonamide | 31506-32-8 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | N-methyl perfluorooctanesulfonamidoacetic acid | 2355-31-9 | | ng/kg | 1050 A | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | N-methyl perfluorooctanesulfonamidoethanol | 24448-09-7 | | ng/kg | 38 A | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | Nonafluoro-3,6-dioxahexanoic acid | 15172-58-6 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | perfluoro-1-decanesulfonate (PFDS) | 2806-15-7 | | ng/kg | 103 A | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | perfluoro-1-heptanesulfonate (PFHpS) | 21934-50-9 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | perfluoro-1-nonanesulfonate (PFNS) | 98789-57-2 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | perfluoro-1-pentanesulfonate (PFPeS) | 630402-22-1 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | Perfluoro-3-methoxypropanoic acid | 377-73-1 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | Perfluoro-4-methoxybutanoic acid | 863090-89-5 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | Perfluorobutanesulfonic acid | 375-73-5 | 1900000 | ng/kg | 177 UA | 204 UA | 160 UA | 158 UA | 290 UA |
| 012-Mclouth_PFA | perfluorobutyl sulfonate | 29420-49-3 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | Perfluorodecanoic acid | 335-76-2 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | Perfluorododecanoic acid | 307-55-1 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | Perfluoroheptanoic acid | 375-85-9 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | Perfluorohexanoic acid | 307-24-4 | 3200000 | ng/kg | 70.9 UA | 81.5 UA | 63.9 UA | 63.1 UA | 116 UA |
| 012-Mclouth_PFA | perfluorohexyl sulfonate | 3871-99-6 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | Perfluorononanoic acid | 375-95-1 | 19000 | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | Perfluorooctanesulfonamide | 754-91-6 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | perfluorooctanoate | 3825-26-1 | | | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | perfluorooctyl sulfonate | 2795-39-3 | | ng/kg | 42.6 UA | 48.9 UA | 38.3 UA | 37.9 UA | 167 A |
| 012-Mclouth_PFA | Perfluoropentanoic acid | 2706-90-3 | | ng/kg | 177 UA | 204 UA | 160 UA | 158 UA | 290 UA |
| 012-Mclouth_PFA | Perfluorotetradecanoic acid | 376-06-7 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | Perfluorotridecanoic acid | 72629-94-8 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | Perfluoroundecanoic acid | 2058-94-8 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | PFDoS | 1260224-54-1 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |
| 012-Mclouth_PFA | PFEESA | 117205-07-9 | | ng/kg | 35.5 UA | 40.7 UA | 31.9 UA | 31.5 UA | 58 UA |

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- A - Unvalidated Result
- B - The target analyte was detected in the associated blank.
- U - Not detected

Table F - Inorganics Detection Results

| | | | | Location | MSTC23-SD01 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD03 | MSTC23-SD03 | MSTC23-SD03 | MSTC23-SD05 |
|--------------------|-----------|-----------|---------------|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|--------------------|
| | | | | Sample # | MSTC23-SD01-SS-0.5 | MSTC23-SD02-1.0 | MSTC23-SD02-2.0 | MSTC23-SD02-SS-0.5 | MSTC23-SD03-1.0 | MSTC23-SD03-2.0 | MSTC23-SD03-SS-0.5 | MSTC23-SD05-SS-0.5 |
| | | | | Start Depth | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| | | | | End Depth | 0.5 | 1 | 2 | 0.5 | 1 | 2 | 0.5 | 0.5 |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | N | N | N | N | N | N |
| | | | | Parent Sample # | | | | | | | | |
| | | | | Sample Date | 10/18/2023 | 10/19/2023 | 10/19/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 014-McClouth_Inorg | Aluminum | 7429-90-5 | 7700 | mg/kg | 5700 | 6800 | 10000 | 4400 | 7300 | 8300 | 2500 | 2800 |
| 014-McClouth_Inorg | Antimony | 7440-36-0 | 2 | mg/kg | 2.1 | 1 J | 1.7 | 0.79 J | 1.1 J | 1.5 | 1.5 | 0.53 J |
| 014-McClouth_Inorg | Arsenic | 7440-38-2 | 0.68 | mg/kg | 14 J | 8.4 J | 14 J | 7.6 J | 5.9 J | 12 J | 8.5 J | 8.6 J |
| 014-McClouth_Inorg | Barium | 7440-39-3 | 20 | mg/kg | 0.68 BA | 120 | 260 | 150 | 84 | 220 | 79 | 61 |
| 014-McClouth_Inorg | Beryllium | 7440-41-7 | 16 | mg/kg | 0.56 J | 0.57 J | 1.3 | 1.2 | 0.35 J | 0.59 J | 0.59 J | 0.36 J |
| 014-McClouth_Inorg | Cadmium | 7440-43-9 | 0.71 | mg/kg | 8.8 J | 4.4 J | 9 J | 4.2 J | 7.4 J | 10 J | 1.5 J | 1 J |
| 014-McClouth_Inorg | Calcium | 7440-70-2 | | mg/kg | 60000 | 33000 | 62000 | 30000 | 47000 | 98000 | 33000 | 28000 |
| 014-McClouth_Inorg | Chromium | 7440-47-3 | 0.3 | mg/kg | 780 | 130 | 300 | 160 | 120 | 290 | 110 | 58 |
| 014-McClouth_Inorg | Cobalt | 7440-48-4 | 2.3 | mg/kg | 15 | 9.2 | 12 | 8.4 | 5.2 | 8.7 | 9.5 | 9.4 |
| 014-McClouth_Inorg | Copper | 7440-50-8 | 31.6 | mg/kg | 180 J | 85 J | 130 J | 70 J | 82 J | 140 J | 120 J | 47 J |
| 014-McClouth_Inorg | CYANIDE | 57-12-5 | 0.0001 | mg/kg | 0.66 J | 2.6 | 0.99 U | 0.65 J | 1.1 U | 1.3 | 0.73 U | 0.35 J |
| 014-McClouth_Inorg | Iron | 7439-89-6 | 5500 | mg/kg | 67000 | 24000 | 44000 | 25000 | 36000 | 48000 | 36000 | 34000 |
| 014-McClouth_Inorg | Lead | 7439-92-1 | 35.8 | mg/kg | 310 | 110 | 320 | 97 | 140 | 240 | 56 | 47 |
| 014-McClouth_Inorg | Magnesium | 7439-95-4 | | mg/kg | 8700 | 9700 | 14000 | 6800 | 12000 | 14000 | 7300 | 8300 |
| 014-McClouth_Inorg | Manganese | 7439-96-5 | 180 | mg/kg | 5100 J+ | 870 J+ | 2500 J+ | 1200 J+ | 300 J+ | 590 J+ | 2000 J+ | 710 J+ |
| 014-McClouth_Inorg | Mercury | 7439-97-6 | 0.174 | mg/kg | 5.3 | 5.3 | 11 | 4.7 | 12 | 7.3 | 1.2 | 1.4 |
| 014-McClouth_Inorg | Nickel | 7440-02-0 | 22.7 | mg/kg | 460 J | 81 J | 190 J | 93 J | 65 J | 140 J | 65 J | 42 J |
| 014-McClouth_Inorg | Potassium | 7440-09-7 | | mg/kg | 740 J | 990 | 1200 | 500 J | 1100 | 1100 | 310 J | 300 J |
| 014-McClouth_Inorg | Selenium | 7782-49-2 | 0.72 | mg/kg | 1.3 J | 1.1 J | 1.3 J | 0.96 J | 1.1 J | 1.3 J | 0.81 J | 0.61 J |
| 014-McClouth_Inorg | Silver | 7440-22-4 | 0.5 | mg/kg | 4.7 | 1.6 | 3.2 | 1.4 | 1.9 | 3.4 | 0.54 J | 0.29 J |
| 014-McClouth_Inorg | Sodium | 7440-23-5 | | mg/kg | 400 J | 220 J | 440 J | 180 J | 240 J | 570 J | 150 J | 160 J |
| 014-McClouth_Inorg | Thallium | 7440-28-0 | 0.078 | mg/kg | 0.17 J | 0.2 J | 0.3 J | 0.19 J | 0.21 J | 0.3 J | 0.14 J | 0.12 J |
| 014-McClouth_Inorg | Vanadium | 7440-62-2 | 39 | mg/kg | 38 | 20 | 32 | 14 | 12 | 21 | 12 | 11 |
| 014-McClouth_Inorg | Zinc | 7440-66-6 | 121 | mg/kg | 1300 | 380 | 790 | 390 | 440 | 650 | 240 | 240 |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

CAS # - Chemical Abstract Service Number

FD - Field duplicate

N - Field sample

PAL - Project Action Limit

A - Unvalidated Result

B - The target analyte was detected in the associated blank.

J - The identification of the analyte is acceptable; the reported value is an estimate

J+ - The result is an estimated quantity, but the results may be biased high

J- - The result is an estimated quantity, but the results may be biased low

U - Not detected

Table F - Inorganics Detection Results

| | | | | Location | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD07 |
|--------------------|-----------|-----------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------------|--------------------|-------------|
| | | | | Sample # | MSTC23-SD06-1.0 | MSTC23-SD06-2.0 | MSTC23-SD06-3.0 | MSTC23-SD06-5.0 | MSTC23-SD06-7.0 | MSTC23-SD06-9.0 | MSTC23-SD06A-7.0 | MSTC23-SD06-SS-0.5 | MSTC23-SD07-SS-0.5 | |
| | | | | Start Depth | 0 | 1 | 2 | 3 | 5 | 7 | 5 | 0 | 0 | |
| | | | | End Depth | 1 | 2 | 3 | 5 | 7 | 9 | 7 | 0.5 | 0.5 | |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft | |
| | | | | Sample Type | N | N | N | N | N | N | FD | N | N | |
| | | | | Parent Sample # | | | | | | | MSTC23-SD06-7.0 | | | |
| | | | | Sample Date | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 | 10/18/2023 | 10/17/2023 | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | | |
| 014-McClouth_Inorg | Aluminum | 7429-90-5 | 7700 | mg/kg | 7600 | 4400 | 7000 | 5000 | 7800 | 6900 | 7900 | 1700 | 5700 | |
| 014-McClouth_Inorg | Antimony | 7440-36-0 | 2 | mg/kg | 2.3 | 2.2 | 1.8 | 1.3 | 1.3 J | 0.95 J | 1.4 | 0.85 J | 1.9 U | |
| 014-McClouth_Inorg | Arsenic | 7440-38-2 | 0.68 | mg/kg | 5.8 J | 12 J | 12 J | 8 J | 12 | 10 | 13 | 11 J | 7.7 | |
| 014-McClouth_Inorg | Barium | 7440-39-3 | 20 | mg/kg | 140 | 230 | 270 | 130 | 210 | 160 | 230 | 49 | 69 | |
| 014-McClouth_Inorg | Beryllium | 7440-41-7 | 16 | mg/kg | 0.37 J | 0.59 J | 0.77 | 0.48 J | 0.76 U | 0.68 U | 0.7 J+ | 0.32 J | 0.64 J | |
| 014-McClouth_Inorg | Cadmium | 7440-43-9 | 0.71 | mg/kg | 8.7 J | 13 J | 14 J | 9 J | 13 J- | 8.2 J- | 14 J- | 0.76 J | 1.2 | |
| 014-McClouth_Inorg | Calcium | 7440-70-2 | | mg/kg | 38000 | 29000 | 42000 | 24000 | 88000 | 97000 | 74000 | 41000 | 39000 | |
| 014-McClouth_Inorg | Chromium | 7440-47-3 | 0.3 | mg/kg | 220 | 370 | 320 | 210 | 330 | 250 | 340 | 87 | 87 J | |
| 014-McClouth_Inorg | Cobalt | 7440-48-4 | 2.3 | mg/kg | 6 | 10 | 12 | 6.9 | 10 | 8.2 | 10 | 9.9 | 8.9 | |
| 014-McClouth_Inorg | Copper | 7440-50-8 | 31.6 | mg/kg | 86 J | 150 J | 160 J | 100 J | 190 | 130 | 190 | 62 J | 52 | |
| 014-McClouth_Inorg | CYANIDE | 57-12-5 | 0.0001 | mg/kg | 1.1 U | 0.82 J | 0.87 U | 1.2 | 0.79 J | 0.51 J | 0.41 J | 0.63 U | 0.92 U | |
| 014-McClouth_Inorg | Iron | 7439-89-6 | 5500 | mg/kg | 35000 | 30000 | 40000 | 25000 | 46000 | 50000 | 63000 | 45000 | 69000 | |
| 014-McClouth_Inorg | Lead | 7439-92-1 | 35.8 | mg/kg | 160 | 290 | 320 | 200 | 340 J+ | 220 J+ | 400 J+ | 52 | 71 | |
| 014-McClouth_Inorg | Magnesium | 7439-95-4 | | mg/kg | 13000 | 8500 | 12000 | 7200 | 13000 | 17000 | 15000 | 17000 | 11000 | |
| 014-McClouth_Inorg | Manganese | 7439-96-5 | 180 | mg/kg | 400 J+ | 930 J+ | 870 J+ | 620 J+ | 840 | 950 | 1200 | 900 J+ | 1400 | |
| 014-McClouth_Inorg | Mercury | 7439-97-6 | 0.174 | mg/kg | 1.5 | 1.8 | 2 | 5 | 4.2 | 3.9 | 4.8 | 0.39 | 0.99 | |
| 014-McClouth_Inorg | Nickel | 7440-02-0 | 22.7 | mg/kg | 97 J | 190 J | 160 J | 130 J | 190 J- | 120 J- | 190 J- | 68 J | 53 J- | |
| 014-McClouth_Inorg | Potassium | 7440-09-7 | | mg/kg | 1200 | 670 | 1000 | 760 | 1100 | 890 | 1100 | 170 J | 710 | |
| 014-McClouth_Inorg | Selenium | 7782-49-2 | 0.72 | mg/kg | 4.6 U | 1.3 J | 2 J | 0.65 J | 3.8 U | 3.4 U | 3 U | 0.53 J | 4.7 UJ | |
| 014-McClouth_Inorg | Silver | 7440-22-4 | 0.5 | mg/kg | 3.1 | 4.8 | 4.7 | 2.7 | 5.4 | 3.3 | 5.2 | 0.27 J | 0.41 J | |
| 014-McClouth_Inorg | Sodium | 7440-23-5 | | mg/kg | 280 J | 200 J | 320 J | 210 J | 530 J | 480 J | 440 J | 160 J | 350 J | |
| 014-McClouth_Inorg | Thallium | 7440-28-0 | 0.078 | mg/kg | 0.18 J | 0.29 J | 0.44 J | 0.22 J | 0.24 J | 0.19 J | 0.22 J | 0.086 J | 0.21 J | |
| 014-McClouth_Inorg | Vanadium | 7440-62-2 | 39 | mg/kg | 13 | 21 | 27 | 19 | 22 | 21 | 26 | 14 | 18 | |
| 014-McClouth_Inorg | Zinc | 7440-66-6 | 121 | mg/kg | 440 | 850 | 820 | 530 | 930 J+ | 640 J+ | 960 J+ | 240 | 380 J+ | |

Notes:

1. Identifies results that exceed the listed PAL value

2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McClouth Steel Corp. Superfund Site (October 2023)

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J+ - The result is an estimated quantity, but the results may be biased high

J- - The result is an estimated quantity, but the results may be biased low

U - Not detected

Table F - Inorganics Detection Results

| | | | | Location | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD09 | MSTC23-SD09 | MSTC23-SD09 | MSTC23-SD10 |
|--------------------|-----------|-----------|---------------|-----------------|-----------------|-----------------|---------------------|--------------------|-----------------|-----------------|--------------------|--------------------|
| | | | | Sample # | MSTC23-SD08-1.0 | MSTC23-SD08-2.0 | MSTC23-SD08A-SS-0.5 | MSTC23-SD08-SS-0.5 | MSTC23-SD09-1.0 | MSTC23-SD09-2.0 | MSTC23-SD09-SS-0.5 | MSTC23-SD10-SS-0.5 |
| | | | | Start Depth | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| | | | | End Depth | 1 | 2 | 0.5 | 0.5 | 1 | 2 | 0.5 | 0.5 |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | FD | N | N | N | N | N |
| | | | | Parent Sample # | | | MSTC23-SD08-SS-0.5 | | | | | |
| | | | | Sample Date | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 014-McClouth_Inorg | Aluminum | 7429-90-5 | 7700 | mg/kg | 3000 | 4200 | 2300 | 2200 | 8900 | 6800 | 5600 | 3000 |
| 014-McClouth_Inorg | Antimony | 7440-36-0 | 2 | mg/kg | 1.1 U | 0.1 J | 1 U | 1.2 U | 3.6 J+ | 1.1 U | 3.9 J+ | 1.2 U |
| 014-McClouth_Inorg | Arsenic | 7440-38-2 | 0.68 | mg/kg | 6.5 | 2.4 | 3.9 | 1.9 | 22 J | 6.8 J | 18 J | 6.9 J |
| 014-McClouth_Inorg | Barium | 7440-39-3 | 20 | mg/kg | 26 | 20 | 25 | 13 | 150 J | 61 J | 130 J | 50 J |
| 014-McClouth_Inorg | Beryllium | 7440-41-7 | 16 | mg/kg | 0.27 J | 0.27 J | 0.31 J | 0.15 J | 0.96 U | 0.56 U | 0.87 U | 0.61 U |
| 014-McClouth_Inorg | Cadmium | 7440-43-9 | 0.71 | mg/kg | 0.79 | 0.12 J | 0.48 J | 0.14 J | 12 | 0.48 J | 11 | 0.96 |
| 014-McClouth_Inorg | Calcium | 7440-70-2 | | mg/kg | 25000 | 25000 | 16000 | 17000 | 160000 | 74000 | 78000 | 40000 |
| 014-McClouth_Inorg | Chromium | 7440-47-3 | 0.3 | mg/kg | 19 J | 10 J | 18 J | 10 J | 240 J | 20 J | 210 J | 49 J |
| 014-McClouth_Inorg | Cobalt | 7440-48-4 | 2.3 | mg/kg | 5.1 | 5.2 | 6.1 | 3.5 | 9.6 | 8.5 | 8.7 | 7 |
| 014-McClouth_Inorg | Copper | 7440-50-8 | 31.6 | mg/kg | 15 | 6.9 | 16 | 7.6 | 200 | 21 | 160 | 41 |
| 014-McClouth_Inorg | CYANIDE | 57-12-5 | 0.0001 | mg/kg | 0.71 U | 0.56 U | 0.71 U | 0.7 U | 0.92 U | 0.58 U | 0.51 J | 0.71 U |
| 014-McClouth_Inorg | Iron | 7439-89-6 | 5500 | mg/kg | 11000 | 12000 | 14000 | 14000 | 100000 | 19000 | 50000 | 37000 |
| 014-McClouth_Inorg | Lead | 7439-92-1 | 35.8 | mg/kg | 31 | 4.7 | 15 | 7 | 470 J+ | 15 J+ | 440 J+ | 43 J+ |
| 014-McClouth_Inorg | Magnesium | 7439-95-4 | | mg/kg | 9400 | 11000 | 6100 | 7000 | 27000 | 17000 | 8600 | 8700 |
| 014-McClouth_Inorg | Manganese | 7439-96-5 | 180 | mg/kg | 240 | 300 | 310 | 150 | 1600 J | 400 J | 1400 J | 760 J |
| 014-McClouth_Inorg | Mercury | 7439-97-6 | 0.174 | mg/kg | 0.33 | 0.12 U | 0.094 J | 0.082 J | 6.1 | 0.18 | 4.7 | 0.94 |
| 014-McClouth_Inorg | Nickel | 7440-02-0 | 22.7 | mg/kg | 17 J- | 12 J- | 15 J- | 9.3 J- | 110 | 27 | 84 | 34 |
| 014-McClouth_Inorg | Potassium | 7440-09-7 | | mg/kg | 500 J | 750 | 280 J | 270 J | 940 | 1300 | 650 J | 350 J |
| 014-McClouth_Inorg | Selenium | 7782-49-2 | 0.72 | mg/kg | 2.9 UJ | 2.4 UJ | 2.6 UJ | 3 UJ | 4.8 U | 2.8 U | 4.3 U | 3.1 U |
| 014-McClouth_Inorg | Silver | 7440-22-4 | 0.5 | mg/kg | 0.16 J | 0.49 U | 0.52 U | 0.6 U | 3.8 | 0.14 J | 3 | 0.26 J |
| 014-McClouth_Inorg | Sodium | 7440-23-5 | | mg/kg | 140 J | 140 J | 150 J | 160 J | 840 | 190 J | 520 J | 140 J |
| 014-McClouth_Inorg | Thallium | 7440-28-0 | 0.078 | mg/kg | 0.25 J | 0.11 J | 0.14 J | 0.09 J | 0.52 J | 0.26 J | 0.35 J | 0.1 J |
| 014-McClouth_Inorg | Vanadium | 7440-62-2 | 39 | mg/kg | 12 | 15 | 9.3 | 5 | 26 | 21 | 22 | 11 |
| 014-McClouth_Inorg | Zinc | 7440-66-6 | 121 | mg/kg | 81 J+ | 30 J+ | 110 J+ | 51 J+ | 1100 | 68 | 1100 | 250 |

Notes:

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J+ - The result is an estimated quantity, but the results may be biased high

J- - The result is an estimated quantity, but the results may be biased low

U - Not detected

Table F - Inorganics Detection Results

| | | | | Location | MSTC23-SD12 | MSTC23-SD13 | MSTC23-SD13 | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD15 | MSTC23-SD19 |
|--------------------|-----------|-----------|---------------|-----------------|--------------------|-----------------|--------------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| | | | | Sample # | MSTC23-SD12-SS-0.5 | MSTC23-SD13-1.0 | MSTC23-SD13-SS-0.5 | MSTC23-SD14-1.0 | MSTC23-SD14-2.0 | MSTC23-SD14-SS-0.5 | MSTC23-SD15-SS-0.5 | MSTC23-SD19-1.0 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 1 | 0.5 | 1 | 2 | 0.5 | 0.5 | 1 |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | N | N | N | N | N | N |
| | | | | Parent Sample # | | | | | | | | |
| | | | | Sample Date | 10/13/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/11/2023 | 10/11/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 014-McClouth_Inorg | Aluminum | 7429-90-5 | 7700 | mg/kg | 6700 | 7700 | 2800 | 7900 | 7300 | 3200 | 2800 | 6000 |
| 014-McClouth_Inorg | Antimony | 7440-36-0 | 2 | mg/kg | 1.3 U | 1.2 U | 1 U | 0.82 U | 0.97 U | 1.5 J+ | 0.9 U | 2.3 J+ |
| 014-McClouth_Inorg | Arsenic | 7440-38-2 | 0.68 | mg/kg | 4.5 J | 7.8 J | 4.8 J | 6.4 J | 7.5 J | 3.7 J | 6.6 J | 9.9 J |
| 014-McClouth_Inorg | Barium | 7440-39-3 | 20 | mg/kg | 36 J | 81 J | 23 J | 61 J | 75 J | 27 J | 44 J | 160 J |
| 014-McClouth_Inorg | Beryllium | 7440-41-7 | 16 | mg/kg | 0.67 U | 0.58 U | 0.5 U | 0.43 J+ | 0.49 U | 0.67 U | 0.45 U | 0.82 U |
| 014-McClouth_Inorg | Cadmium | 7440-43-9 | 0.71 | mg/kg | 0.55 J | 0.31 J | 0.47 J | 0.37 J | 0.2 J | 0.45 J | 0.62 | 9.1 |
| 014-McClouth_Inorg | Calcium | 7440-70-2 | | mg/kg | 54000 | 85000 | 55000 | 69000 | 68000 | 35000 | 41000 | 130000 |
| 014-McClouth_Inorg | Chromium | 7440-47-3 | 0.3 | mg/kg | 34 J | 16 J | 15 J | 15 J | 17 J | 18 J | 43 J | 150 J |
| 014-McClouth_Inorg | Cobalt | 7440-48-4 | 2.3 | mg/kg | 6.3 | 9.3 | 3.2 | 8.7 | 11 | 3.4 | 6.2 | 6.5 |
| 014-McClouth_Inorg | Copper | 7440-50-8 | 31.6 | mg/kg | 27 | 18 | 21 | 17 | 19 | 57 | 46 | 190 |
| 014-McClouth_Inorg | CYANIDE | 57-12-5 | 0.0001 | mg/kg | 0.86 U | 0.57 U | 0.61 U | 0.59 U | 0.59 U | 0.67 U | 0.63 U | 0.86 U |
| 014-McClouth_Inorg | Iron | 7439-89-6 | 5500 | mg/kg | 24000 | 17000 | 18000 | 17000 | 16000 | 15000 | 21000 | 31000 |
| 014-McClouth_Inorg | Lead | 7439-92-1 | 35.8 | mg/kg | 26 J+ | 7.5 J+ | 26 J+ | 6.9 J+ | 8.1 J+ | 70 J+ | 46 J+ | 180 J+ |
| 014-McClouth_Inorg | Magnesium | 7439-95-4 | | mg/kg | 16000 | 17000 | 19000 | 19000 | 15000 | 9600 | 15000 | 12000 |
| 014-McClouth_Inorg | Manganese | 7439-96-5 | 180 | mg/kg | 450 J | 410 J | 280 J | 370 J | 370 J | 270 J | 510 J | 430 J |
| 014-McClouth_Inorg | Mercury | 7439-97-6 | 0.174 | mg/kg | 0.34 | 0.12 U | 0.25 | 0.12 U | 0.11 U | 0.083 J | 0.53 | 4.9 |
| 014-McClouth_Inorg | Nickel | 7440-02-0 | 22.7 | mg/kg | 20 | 27 | 13 | 25 | 29 | 25 | 28 | 63 |
| 014-McClouth_Inorg | Potassium | 7440-09-7 | | mg/kg | 680 | 1500 | 370 J | 1500 | 1500 | 240 J | 300 J | 770 J |
| 014-McClouth_Inorg | Selenium | 7782-49-2 | 0.72 | mg/kg | 3.3 U | 2.9 U | 2.5 U | 2.1 U | 2.4 U | 3.3 U | 2.3 U | 4.1 U |
| 014-McClouth_Inorg | Silver | 7440-22-4 | 0.5 | mg/kg | 0.21 J | 0.58 U | 0.5 U | 0.41 U | 0.49 U | 0.11 J | 0.25 J | 2.8 |
| 014-McClouth_Inorg | Sodium | 7440-23-5 | | mg/kg | 250 J | 160 J | 140 J | 150 J | 180 J | 87 J | 98 J | 870 |
| 014-McClouth_Inorg | Thallium | 7440-28-0 | 0.078 | mg/kg | 0.11 J | 0.26 J | 0.5 U | 0.18 J | 0.23 J | 0.067 J | 0.14 J | 0.25 J |
| 014-McClouth_Inorg | Vanadium | 7440-62-2 | 39 | mg/kg | 11 | 22 | 7.4 | 21 | 24 | 8.6 | 9.7 | 14 |
| 014-McClouth_Inorg | Zinc | 7440-66-6 | 121 | mg/kg | 170 | 65 | 110 | 63 | 50 | 380 | 260 | 570 |

Notes:

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A - Unvalidated Result

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J - The identification of the analyte is acceptable; the reported value is an estimate

J+ - The result is an estimated quantity, but the results may be biased high

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U - Not detected

Table F - Inorganics Detection Results

| | | | | Location | MSTC23-SD19 | MSTC23-SD19 | MSTC23-SD20 | MSTC23-SD20 | MSTC23-SD20 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 |
|--------------------|-----------|-----------|---------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|
| | | | | Sample # | MSTC23-SD19-2.0 | MSTC23-SD19-SS-0.5 | MSTC23-SD20-1.0 | MSTC23-SD20-2.0 | MSTC23-SD20-SS-0.5 | MSTC23-SD22-1.0 | MSTC23-SD22-2.0 | MSTC23-SD22-3.0 |
| | | | | Start Depth | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| | | | | End Depth | 2 | 0.5 | 1 | 2 | 0.5 | 1 | 2 | 3 |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | N | N | N | N | N | N |
| | | | | Parent Sample # | | | | | | | | |
| | | | | Sample Date | 10/11/2023 | 10/11/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 014-McClouth_Inorg | Aluminum | 7429-90-5 | 7700 | mg/kg | 5400 | 4200 | 3000 | 2000 | 2800 | 2700 | 5000 | 3600 |
| 014-McClouth_Inorg | Antimony | 7440-36-0 | 2 | mg/kg | 4.3 J+ | 2 J+ | 0.89 U | 0.78 U | 0.062 J | 0.96 J+ | 2.1 J+ | 1 U |
| 014-McClouth_Inorg | Arsenic | 7440-38-2 | 0.68 | mg/kg | 11 J | 7.9 J | 3.1 | 3 | 6.2 | 7.1 J | 7.6 J | 2.4 J |
| 014-McClouth_Inorg | Barium | 7440-39-3 | 20 | mg/kg | 160 J | 110 J | 36 | 14 | 83 | 68 J | 88 J | 19 J |
| 014-McClouth_Inorg | Beryllium | 7440-41-7 | 16 | mg/kg | 0.58 U | 0.64 U | 0.2 J | 0.13 J | 0.36 J | 0.47 U | 0.64 U | 0.52 U |
| 014-McClouth_Inorg | Cadmium | 7440-43-9 | 0.71 | mg/kg | 14 | 6.4 | 0.84 | 0.18 J | 0.3 J | 2.8 | 4.6 | 0.16 J |
| 014-McClouth_Inorg | Calcium | 7440-70-2 | | mg/kg | 120000 | 80000 | 33000 | 33000 | 37000 | 42000 | 130000 | 30000 |
| 014-McClouth_Inorg | Chromium | 7440-47-3 | 0.3 | mg/kg | 110 J | 140 J | 22 J | 8 J | 33 J | 80 J | 36 J | 9.3 J |
| 014-McClouth_Inorg | Cobalt | 7440-48-4 | 2.3 | mg/kg | 6.5 | 5.6 | 3.1 | 2.7 | 4.9 | 5.7 | 4.9 | 6 |
| 014-McClouth_Inorg | Copper | 7440-50-8 | 31.6 | mg/kg | 270 | 140 | 13 | 5.3 | 13 | 54 | 100 | 11 |
| 014-McClouth_Inorg | CYANIDE | 57-12-5 | 0.0001 | mg/kg | 0.63 J | 0.75 U | 0.62 U | 0.56 U | 0.55 U | 0.66 U | 0.78 U | 0.64 U |
| 014-McClouth_Inorg | Iron | 7439-89-6 | 5500 | mg/kg | 27000 | 29000 | 8400 | 7300 | 42000 | 21000 | 15000 | 7400 |
| 014-McClouth_Inorg | Lead | 7439-92-1 | 35.8 | mg/kg | 170 J+ | 180 J+ | 27 | 6.4 | 28 | 110 J+ | 89 J+ | 10 J+ |
| 014-McClouth_Inorg | Magnesium | 7439-95-4 | | mg/kg | 16000 | 6700 | 13000 | 12000 | 17000 | 9500 | 15000 | 13000 |
| 014-McClouth_Inorg | Manganese | 7439-96-5 | 180 | mg/kg | 440 J | 480 J | 210 | 260 | 690 | 460 J | 330 J | 150 J |
| 014-McClouth_Inorg | Mercury | 7439-97-6 | 0.174 | mg/kg | 1.3 | 4.4 | 0.2 | 0.046 J | 2.3 | 0.62 | 0.58 | 0.092 J |
| 014-McClouth_Inorg | Nickel | 7440-02-0 | 22.7 | mg/kg | 55 | 55 | 15 J- | 7.7 J- | 22 J- | 44 | 25 | 11 |
| 014-McClouth_Inorg | Potassium | 7440-09-7 | | mg/kg | 720 | 550 J | 630 | 250 J | 300 J | 340 J | 700 | 550 |
| 014-McClouth_Inorg | Selenium | 7782-49-2 | 0.72 | mg/kg | 2.9 U | 3.2 U | 2.2 UJ | 2 UJ | 1.9 UJ | 2.4 U | 3.2 U | 2.6 U |
| 014-McClouth_Inorg | Silver | 7440-22-4 | 0.5 | mg/kg | 1.7 | 2 | 0.22 J | 0.39 U | 0.13 J | 0.99 | 0.65 | 0.52 U |
| 014-McClouth_Inorg | Sodium | 7440-23-5 | | mg/kg | 770 | 590 J | 140 J | 120 J | 230 J | 150 J | 660 | 140 J |
| 014-McClouth_Inorg | Thallium | 7440-28-0 | 0.078 | mg/kg | 0.32 J | 0.2 J | 0.084 J | 0.051 J | 0.062 J | 0.23 J | 0.21 J | 0.098 J |
| 014-McClouth_Inorg | Vanadium | 7440-62-2 | 39 | mg/kg | 16 | 12 | 11 | 8.8 | 9.4 | 13 | 12 | 11 |
| 014-McClouth_Inorg | Zinc | 7440-66-6 | 121 | mg/kg | 630 | 440 | 100 J+ | 28 J+ | 160 J+ | 370 | 300 | 38 |

Notes:

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- J+ - The result is an estimated quantity, but the results may be biased high
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- U - Not detected

Table F - Inorganics Detection Results

| | | | | Location | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 |
|--------------------|-----------|-----------|---------------|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|--------------------|--------------------|
| | | | | Sample # | MSTC23-SD22-5.0 | MSTC23-SD22-SS-0.5 | MSTC23-SD23-1.0 | MSTC23-SD23-2.0 | MSTC23-SD23-3.0 | MSTC23-SD23-5.0 | MSTC23-SD23-SS-0.5 | MSTC23-SD23-SS-0.5 |
| | | | | Start Depth | 3 | 0 | 0 | 1 | 2 | 3 | 0 | 0 |
| | | | | End Depth | 5 | 0.5 | 1 | 2 | 3 | 5 | 0.5 | 0.5 |
| | | | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft |
| | | | | Sample Type | N | N | N | N | N | N | N | N |
| | | | | Parent Sample # | | | | | | | | |
| | | | | Sample Date | 10/12/2023 | 10/12/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | |
| 014-McClouth_Inorg | Aluminum | 7429-90-5 | 7700 | mg/kg | 2800 | 4300 | 2200 | 3500 | 3400 | 3400 | 3500 | 3500 |
| 014-McClouth_Inorg | Antimony | 7440-36-0 | 2 | mg/kg | 0.92 U | 1.7 U | 1.1 U | 1.1 U | 0.92 U | 0.9 U | 1.7 U | 1.7 U |
| 014-McClouth_Inorg | Arsenic | 7440-38-2 | 0.68 | mg/kg | 2 J | 3.3 J | 3 | 3.7 | 4.9 | 3.2 | 3.4 | 3.4 |
| 014-McClouth_Inorg | Barium | 7440-39-3 | 20 | mg/kg | 11 J | 31 J | 16 | 27 | 20 | 21 | 33 | 33 |
| 014-McClouth_Inorg | Beryllium | 7440-41-7 | 16 | mg/kg | 0.46 U | 0.87 U | 0.21 J | 0.39 J | 0.3 J | 0.26 J | 0.33 J | 0.33 J |
| 014-McClouth_Inorg | Cadmium | 7440-43-9 | 0.71 | mg/kg | 0.092 J | 0.84 J | 0.33 J | 0.18 J | 0.12 J | 0.11 J | 0.49 J | 0.49 J |
| 014-McClouth_Inorg | Calcium | 7440-70-2 | | mg/kg | 24000 | 30000 | 15000 | 24000 | 45000 | 39000 | 21000 | 21000 |
| 014-McClouth_Inorg | Chromium | 7440-47-3 | 0.3 | mg/kg | 7.4 J | 29 J | 13 J | 13 J | 9.1 J | 9 J | 23 J | 23 J |
| 014-McClouth_Inorg | Cobalt | 7440-48-4 | 2.3 | mg/kg | 4.4 | 5.4 | 5.3 | 6.2 | 5 | 4.8 | 6.7 | 6.7 |
| 014-McClouth_Inorg | Copper | 7440-50-8 | 31.6 | mg/kg | 5.8 | 32 | 11 | 13 | 9.4 | 9.6 | 27 | 27 |
| 014-McClouth_Inorg | CYANIDE | 57-12-5 | 0.0001 | mg/kg | 0.56 U | 1.1 U | 0.61 U | 0.62 U | 0.58 U | 0.6 U | 0.96 U | 0.96 U |
| 014-McClouth_Inorg | Iron | 7439-89-6 | 5500 | mg/kg | 5800 | 17000 | 8500 | 7700 | 7800 | 7400 | 15000 | 15000 |
| 014-McClouth_Inorg | Lead | 7439-92-1 | 35.8 | mg/kg | 3.3 J+ | 29 J+ | 13 | 6.2 | 5 | 4.8 | 18 | 18 |
| 014-McClouth_Inorg | Magnesium | 7439-95-4 | | mg/kg | 13000 | 10000 | 7300 | 12000 | 12000 | 12000 | 7800 | 7800 |
| 014-McClouth_Inorg | Manganese | 7439-96-5 | 180 | mg/kg | 120 J | 270 J | 160 | 300 | 220 | 220 | 260 | 260 |
| 014-McClouth_Inorg | Mercury | 7439-97-6 | 0.174 | mg/kg | 0.098 U | 0.42 | 0.076 J | 0.11 U | 0.12 U | 0.12 U | 0.19 J | 0.19 J |
| 014-McClouth_Inorg | Nickel | 7440-02-0 | 22.7 | mg/kg | 8.8 | 21 | 13 J- | 17 J- | 12 J- | 13 J- | 21 J- | 21 J- |
| 014-McClouth_Inorg | Potassium | 7440-09-7 | | mg/kg | 430 | 720 J | 360 J | 560 | 550 | 540 | 620 J | 620 J |
| 014-McClouth_Inorg | Selenium | 7782-49-2 | 0.72 | mg/kg | 2.3 U | 4.3 U | 2.8 UJ | 2.7 UJ | 2.3 UJ | 2.3 UJ | 4.1 UJ | 4.1 UJ |
| 014-McClouth_Inorg | Silver | 7440-22-4 | 0.5 | mg/kg | 0.46 U | 0.26 J | 0.18 J | 0.54 U | 0.46 U | 0.45 U | 0.82 U | 0.82 U |
| 014-McClouth_Inorg | Sodium | 7440-23-5 | | mg/kg | 81 J | 140 J | 160 J | 130 J | 120 J | 110 J | 170 J | 170 J |
| 014-McClouth_Inorg | Thallium | 7440-28-0 | 0.078 | mg/kg | 0.069 J | 0.15 J | 0.14 J | 0.11 J | 0.1 J | 0.13 J | 0.13 J | 0.13 J |
| 014-McClouth_Inorg | Vanadium | 7440-62-2 | 39 | mg/kg | 9 | 10 | 9.9 | 17 | 12 | 12 | 13 | 13 |
| 014-McClouth_Inorg | Zinc | 7440-66-6 | 121 | mg/kg | 26 | 160 | 57 J+ | 37 J+ | 29 J+ | 29 J+ | 110 J+ | 110 J+ |

Notes:

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U - Not detected

Table G - AVS/SEM Detection Results

| | | Location | MSTC23-SD01 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD03 | MSTC23-SD03 | MSTC23-SD03 | | |
|---------|------------------------|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------|----------------|
| | | Sample # | MSTC23-SD01-SS-0.5 | MSTC23-SD02-1.0 | MSTC23-SD02-2.0 | MSTC23-SD02-SS-0.5 | MSTC23-SD03-1.0 | MSTC23-SD03-2.0 | MSTC23-SD03-SS-0.5 | | |
| | | Start Depth | 0 | 0 | 1 | 0 | 0 | 1 | 0 | | |
| | | End Depth | 0.5 | 1 | 2 | 0.5 | 1 | 2 | 0.5 | | |
| | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | | |
| | | Sample Type | N | N | N | N | N | N | N | | |
| | | Parent Sample # | | | | | | | | | |
| | | Sample Date | 10/18/2023 | 10/19/2023 | 10/19/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | | |
| Method | Analyte | CAS # | Sed PAL | Units | | | | | | | |
| AVS | ACID VOLATILE SULFIDES | AVS | | umol/g | 25 A | 13 A | 9.6 A | 7.2 A | 1.8 JA | 1.7 JA | 3.8 A |
| SW6020B | CADMIUM | 7440-43-9 | 0.00178 | umol/g | 0.032 BA | 0.078 BA | 0.081 BA | 0.03 BA | 0.061 A | 0.042 BA | 0.013 A |
| SW6020B | COPPER | 7440-50-8 | 0.0157 | umol/g | 0.68 JA | 1.2 JA | 0.86 JA | 0.59 JA | 0.81 JA | 1 JA | 0.31 JA |
| SW6020B | LEAD | 7439-92-1 | 0.00965 | umol/g | 0.68 BA | 0.82 BA | 0.71 BA | 0.34 BA | 0.65 A | 0.59 BA | 0.21 JA |
| SW6020B | NICKEL | 7440-02-0 | 0.0341 | umol/g | 10 UA | 10 UA | 10 UA | 10 UA | 0.72 J^2A | 1.2 ^2A | 1 UA |
| SW6020B | ZINC | 7440-66-6 | 0.0306 | umol/g | 5.2 JBA | 7.3 JBA | 5.9 JBA | 3.5 JBA | 5.3 JBA | 5.5 JBA | 2.4 JBA |
| SW7470 | MERCURY | 7439-97-6 | | umol/g | 0.00041 UA | 0.0004 UA | 0.0004 UA | 0.0004 UA | 0.0004 UA | 0.00041 UA | 0.00041 UA |

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Table G - AVS/SEM Detection Results

| Location | | MSTC23-SD05 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD07 | MSTC23-SD08 | | |
|-----------------|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------------------|--------------------|--------------------|----------------------------------|-------------|-------------|------------|------------|
| Sample # | MSTC23-SD05-SS-0.5 | MSTC23-SD06-1.0 | MSTC23-SD06-2.0 | MSTC23-SD06-3.0 | MSTC23-SD06-5.0 | MSTC23-SD06-7.0 | MSTC23-SD06-9.0 | MSTC23-SD06A-7.0 | MSTC23-SD06-SS-0.5 | MSTC23-SD07-SS-0.5 | MSTC23-SD08A-SS-0.5 | | | | |
| Start Depth | 0 | 0 | 1 | 2 | 3 | 5 | 7 | 9 | 5 | 0 | 0 | 0 | | | |
| End Depth | 0.5 | 1 | 2 | 3 | 5 | 7 | 9 | 7 | 0.5 | 0.5 | 0.5 | 0.5 | | | |
| Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | | | |
| Sample Type | N | N | N | N | N | N | N | N | FD | N | N | FD | | | |
| Parent Sample # | | | | | | | | | | | | | | | |
| Sample Date | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 11/17/2023 | 11/17/2023 | MSTC23-SD06-7.0 11/17/2023 | 10/18/2023 | 10/17/2023 | MSTC23-SD08-SS-0.5 10/17/2023 | | | | |
| Method | Analyte | CAS # | Sed PAL | Units | | | | | | | | | | | |
| AVS | ACID VOLITILE SULFIDES | AVS | | umol/g | 2.9 UF1A | 3.6 A | 8.1 A | 4.2 A | 4.5 A | 1.8 JF1A | 2.1 JA | 3.7 A | 2.6 UA | 14 A | 2 JA |
| SW6020B | CADMIUM | 7440-43-9 | 0.00178 | umol/g | 0.007 BA | 0.032 BA | 0.073 BA | 0.046 BA | 0.067 BA | 0.044 F1A | 0.031 A | 0.042 A | 0.0041 BA | 0.006 A | 0.0018 A |
| SW6020B | COPPER | 7440-50-8 | 0.0157 | umol/g | 0.3 A | 0.57 JA | 1.1 JA | 0.86 JA | 1 JA | 0.87 JA | 0.78 JA | 0.71 JA | 0.26 A | 0.23 A | 0.097 A |
| SW6020B | LEAD | 7439-92-1 | 0.00965 | umol/g | 0.16 BA | 0.52 BA | 0.81 BA | 0.67 BA | 0.74 BA | 0.54 A | 0.44 A | 0.52 A | 1.5 BA | 0.23 JA | 0.054 ^2A |
| SW6020B | NICKEL | 7440-02-0 | 0.0341 | umol/g | 0.23 A | 0.73 J^2A | 0.94 J^2A | 0.85 J^2A | 0.84 J^2A | 0.81 JA | 0.71 JA | 0.75 JA | 1.1 UA | 0.22 A | 0.11 A |
| SW6020B | ZINC | 7440-66-6 | 0.0306 | umol/g | 1.9 BA | 4.5 JBA | 6.4 JBA | 4.9 JBA | 6.1 JBA | 5.8 JBA | 4.1 JBA | 5.8 JBA | 4.7 JBA | 2.5 JBA | 0.59 JBA |
| SW7470 | MERCURY | 7439-97-6 | | umol/g | 0.00041 UF1A | 0.0004 UA | 0.00041 UA | 0.00041 UA | 0.00041 UA | 0.00041 UF1A | 0.00041 UA | 0.00041 UA | 0.00042 UA | 0.00041 UA | 0.00041 UA |

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| Location | | | | | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD09 | MSTC23-SD09 | MSTC23-SD09 | MSTC23-SD10 | MSTC23-SD12 | MSTC23-SD13 | MSTC23-SD13 |
|-----------------|------------------------|-----------|----------------|--------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Sample # | | | | | MSTC23-SD08-SS-0.5 | MSTC23-SD08-SS-1.0 | MSTC23-SD08-SS-2.0 | MSTC23-SD09-SS-0.5 | MSTC23-SD09-SS-1.0 | MSTC23-SD09-SS-2.0 | MSTC23-SD10-SS-0.5 | MSTC23-SD12-SS-0.5 | MSTC23-SD13-SS-0.5 | MSTC23-SD13-SS-1.0 |
| Start Depth | | | | | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| End Depth | | | | | 0.5 | 1 | 2 | 0.5 | 1 | 2 | 0.5 | 0.5 | 0.5 | 1 |
| Depth Unit | | | | | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft |
| Sample Type | | | | | N | N | N | N | N | N | N | N | N | N |
| Parent Sample # | | | | | | | | | | | | | | |
| Sample Date | | | | | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/12/2023 | 10/12/2023 |
| Method | Analyte | CAS # | Sed PAL | Units | | | | | | | | | | |
| AVS | ACID VOLITILE SULFIDES | AVS | | umol/g | 2.2 JA | 4.6 A | 2.5 UA | 3.5 JA | 3.2 JA | 2.4 UA | 2.9 UA | 3.6 F1A | 2.5 UF1A | 2.4 UA |
| SW6020B | CADMIUM | 7440-43-9 | 0.00178 | umol/g | 0.0019 A | 0.0013 A | 0.00058 A | 0.024 A | 0.046 A | 0.00087 A | 0.0045 A | 0.0048 A | 0.0024 A | 0.00047 A |
| SW6020B | COPPER | 7440-50-8 | 0.0157 | umol/g | 0.19 A | 0.054 JA | 0.041 JA | 0.79 JA | 1.1 JA | 0.057 JA | 0.23 A | 0.13 A | 0.11 JF1A | 0.053 JA |
| SW6020B | LEAD | 7439-92-1 | 0.00965 | umol/g | 0.049 ^2A | 0.028 ^2A | 0.013 ^2A | 0.5 A | 1 A | 0.019 ^2A | 0.11 A | 0.066 ^2A | 0.097 A | 0.016 ^2A |
| SW6020B | NICKEL | 7440-02-0 | 0.0341 | umol/g | 0.51 JA | 0.29 A | 0.042 JA | 0.5 JA | 0.63 J^2A | 0.058 JA | 0.18 A | 0.22 F1A | 0.1 JA | 0.058 JA |
| SW6020B | ZINC | 7440-66-6 | 0.0306 | umol/g | 0.6 JBA | 0.31 BA | 0.14 BA | 3.8 JA | 6.4 JBA | 0.15 BA | 1.2 BA | 1.2 BF1A | 1.1 F1A | 0.12 A |
| SW7470 | MERCURY | 7439-97-6 | | umol/g | 0.00042 UA | 0.00041 UA | 0.00042 UA | 0.00042 UA | 0.0004 UA | 0.00042 UA | 0.00041 UA | 0.0004 UF1A | 0.00042 UF1A | 0.00041 UA |

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- U - Not detected

Table G - AVS/SEM Detection Results

| Location | | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD15 | MSTC23-SD19 | MSTC23-SD19 | MSTC23-SD19 | MSTC23-SD20 | MSTC23-SD20 | MSTC23-SD20 | | | |
|-----------------|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------|-----------------|----------------|------------------|
| Sample # | MSTC23-SD14-SS-0.5 | MSTC23-SD14-SS-1.0 | MSTC23-SD14-SS-2.0 | MSTC23-SD15-SS-0.5 | MSTC23-SD19-SS-0.5 | MSTC23-SD19-SS-1.0 | MSTC23-SD19-SS-2.0 | MSTC23-SD20-SS-0.5 | MSTC23-SD20-SS-1.0 | MSTC23-SD20-SS-2.0 | | | | |
| Start Depth | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | | | | |
| End Depth | 0.5 | 1 | 2 | 0.5 | 0.5 | 1 | 2 | 0.5 | 1 | 2 | | | | |
| Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | | | | |
| Sample Type | N | N | N | N | N | N | N | N | N | N | | | | |
| Parent Sample # | | | | | | | | | | | | | | |
| Sample Date | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | | | | |
| Method | Analyte | CAS # | Sed PAL | Units | | | | | | | | | | |
| AVS | ACID VOLITILE SULFIDES | AVS | | umol/g | 1.2 JH3A | 2.4 UA | 2.4 UA | 2.6 UA | 2.4 JA | 1.4 JA | 3 UA | 2.8 UA | 110 A | 2.5 UA |
| SW6020B | CADMIUM | 7440-43-9 | 0.00178 | umol/g | 0.0033 A | 0.00049 A | 0.00053 A | 0.0032 A | 0.033 A | 0.039 A | 0.058 A | 0.0024 A | 0.034 A | 0.00088 A |
| SW6020B | COPPER | 7440-50-8 | 0.0157 | umol/g | 0.51 JA | 0.06 JA | 0.07 JA | 0.21 A | 1.2 A | 1 A | 1.2 A | 0.14 A | 0.66 JA | 0.06 JA |
| SW6020B | LEAD | 7439-92-1 | 0.00965 | umol/g | 0.2 A | 0.015 ^2A | 0.015 ^2A | 0.16 A | 0.66 A | 0.62 A | 1.2 A | 0.12 A | 0.73 A | 0.017 ^2A |
| SW6020B | NICKEL | 7440-02-0 | 0.0341 | umol/g | 0.16 A | 0.063 JA | 0.069 JA | 0.17 A | 0.75 JA | 0.45 JA | 0.29 A | 0.33 A | 1.1 UA | 0.16 A |
| SW6020B | ZINC | 7440-66-6 | 0.0306 | umol/g | 3.7 JA | 0.11 A | 0.11 A | 1.9 A | 4.9 JA | 5.7 JA | 4.9 JA | 1.6 BA | 5.8 JBA | 0.17 BA |
| SW7470 | MERCURY | 7439-97-6 | | umol/g | 0.00041 UA | 0.0004 UA | 0.00041 UA | 0.00042 UA | 0.00041 UA | 0.0004 UA | 0.0004 UA | 0.00041 UA | 0.00042 UA | 0.0004 UA |

Notes:

1. Identifies results that exceed the listed PAL value
2. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

Acronyms and Abbreviations:

- CAS # - Chemical Abstract Service Number
- FD - Field duplicate
- N - Field sample
- PAL - Project Action Limit
- ^2 - Calibration Blank (ICB and/or CCB) is outside acceptance limits.
- A - Unvalidated Result
- B - The target analyte was detected in the associated blank.
- F1 - MS and/or MSD recovery exceeds control limits.
- H - Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
- J - The identification of the analyte is acceptable; the reported value is an estimate
- U - Not detected

Table G - AVS/SEM Detection Results

| Location | | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | | | |
|-----------------|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------|------------|------------|
| Sample # | MSTC23-SD22-SS-0.5 | MSTC23-SD22-SS-1.0 | MSTC23-SD22-SS-2.0 | MSTC23-SD22-SS-3.0 | MSTC23-SD22-SS-5.0 | MSTC23-SD23-SS-0.5 | MSTC23-SD23-SS-1.0 | MSTC23-SD23-SS-2.0 | MSTC23-SD23-SS-3.0 | MSTC23-SD23-SS-5.0 | MSTC23-SD23-SS-5.0 | | | |
| Start Depth | 0 | 0 | 1 | 2 | 4 | 0 | 0 | 1 | 2 | 4 | | | | |
| End Depth | 0.5 | 1 | 2 | 3 | 5 | 0.5 | 1 | 2 | 3 | 5 | | | | |
| Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | | | | |
| Sample Type | N | N | N | N | N | N | N | N | N | N | | | | |
| Parent Sample # | | | | | | | | | | | | | | |
| Sample Date | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | | | | |
| Method | Analyte | CAS # | Sed PAL | Units | | | | | | | | | | |
| AVS | ACID VOLITILE SULFIDES | AVS | | umol/g | 2.3 JA | 6 A | 3.4 A | 2.6 UA | 2.6 UA | 12 A | 2.4 UA | 2.4 UA | 2.6 UA | 2.4 UA |
| SW6020B | CADMIUM | 7440-43-9 | 0.00178 | umol/g | 0.0036 A | 0.019 A | 0.0051 A | 0.00076 A | 0.00072 A | 0.0019 A | 0.00063 A | 0.00041 A | 0.0005 A | 0.00033 A |
| SW6020B | COPPER | 7440-50-8 | 0.0157 | umol/g | 0.13 A | 0.54 JA | 0.37 JA | 0.054 JA | 0.049 JA | 0.096 JA | 0.036 JA | 0.074 JA | 0.07 JA | 0.033 JA |
| SW6020B | LEAD | 7439-92-1 | 0.00965 | umol/g | 0.069 ^2A | 0.22 A | 0.2 A | 0.015 ^2A | 0.016 ^2A | 0.041 ^2A | 0.012 ^2A | 0.0093 ^2A | 0.011 ^2A | 0.0098 ^2A |
| SW6020B | NICKEL | 7440-02-0 | 0.0341 | umol/g | 0.31 A | 0.61 JA | 0.07 JA | 0.093 JA | 0.047 JA | 0.064 JA | 0.038 JA | 0.36 A | 0.31 A | 0.1 UA |
| SW6020B | ZINC | 7440-66-6 | 0.0306 | umol/g | 0.99 A | 2.3 A | 1.4 A | 0.15 A | 0.16 A | 0.42 JBA | 0.14 BA | 0.1 BA | 0.11 BA | 0.081 JBA |
| SW7470 | MERCURY | 7439-97-6 | | umol/g | 0.00041 UA | 0.00041 UA | 0.00041 UA | 0.00041 UA | 0.00041 UA | 0.00042 UA | 0.0004 UA | 0.00042 UA | 0.00042 UA | 0.00041 UA |

Notes:

- Identifies results that exceed the listed PAL value
- The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

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- A - Unvalidated Result
- B - The target analyte was detected in the associated blank.
- F1 - MS and/or MSD recovery exceeds control limits.
- H - Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
- J - The identification of the analyte is acceptable; the reported value is an estimate
- U - Not detected

Table H - General Chemistry Detection Results

| Location | | MSTC23-SD01 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD02 | MSTC23-SD03 | MSTC23-SD03 | MSTC23-SD03 | | | |
|---------------------|------------------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|----------|-----------|---------|
| Sample # | | MSTC23-SD01-SS-0.5 | MSTC23-SD02-1.0 | MSTC23-SD02-2.0 | MSTC23-SD02-SS-0.5 | MSTC23-SD03-1.0 | MSTC23-SD03-2.0 | MSTC23-SD03-SS-0.5 | | | |
| Start Depth | | 0 | 0 | 1 | 0 | 0 | 1 | 0 | | | |
| End Depth | | 0.5 | 1 | 2 | 0.5 | 1 | 2 | 0.5 | | | |
| Depth Unit | | ft | ft | ft | ft | ft | ft | ft | | | |
| Sample Type | | N | N | N | N | N | N | N | | | |
| Parent Sample # | | | | | | | | | | | |
| Sample Date | | 10/18/2023 | 10/19/2023 | 10/19/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | | | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | |
| 025-Mclouth_GenChem | Moisture, Percent | MOIST | | % | 45 A | 52 A | 48 A | 49 A | 49 A | 49 A | 38 A |
| 025-Mclouth_GenChem | pH | PH | | su | 7 HA | 7 HA | 8 HA | 7 HA | 7 HA | 7 HA | 7 HA |
| 025-Mclouth_GenChem | Temperature | TEMP | | deg c | 23 HA | 23 HA | 23 HA | 23 HA | 23 HA | 23 HA | 23 HA |
| 025-Mclouth_GenChem | Total Inorganic Carbon | TIC | | mg/kg | 5200 UA | 5000 UA | 7100 UA | 6400 UA | 7600 UHA | 5800 UHA | 4500 UA |
| 025-Mclouth_GenChem | Total Organic Carbon | 7440-44-0 | | mg/kg | 3100 UA | 3000 UA | 4300 UA | 3800 UA | 4500 UHA | 3500 UHA | 2700 UA |
| 025-Mclouth_GenChem | Total Organic Carbon | TOC | | mg/kg | 91000 A | 66000 A | 110000 A | 160000 A | 95000 HA | 100000 HA | 99000 A |

Notes:

1. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

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Table H - General Chemistry Detection Results

| Location | | MSTC23-SD05 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD06 | MSTC23-SD07 | MSTC23-SD08 | | |
|---------------------|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------------------|--------------------|--------------------|-----------------|-------------|-------------|-----------|----------|
| Sample # | MSTC23-SD05-SS-0.5 | MSTC23-SD06-1.0 | MSTC23-SD06-2.0 | MSTC23-SD06-3.0 | MSTC23-SD06-5.0 | MSTC23-SD06-7.0 | MSTC23-SD06-9.0 | MSTC23-SD06A-7.0 | MSTC23-SD06-SS-0.5 | MSTC23-SD07-SS-0.5 | MSTC23-SD08-1.0 | | | | |
| Start Depth | 0 | 0 | 1 | 2 | 3 | 5 | 7 | 7 | 0 | 0 | 0 | | | | |
| End Depth | 0.5 | 1 | 2 | 3 | 5 | 7 | 9 | 7 | 0.5 | 0.5 | 1 | | | | |
| Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | | | | |
| Sample Type | N | N | N | N | N | N | N | N | N | N | N | | | | |
| Parent Sample # | | | | | | | | | | | | | | | |
| Sample Date | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 10/18/2023 | 11/17/2023 | 11/17/2023 | MSTC23-SD06-7.0 11/17/2023 | 10/18/2023 | 10/17/2023 | 10/17/2023 | | | | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | | | |
| 025-Mclouth_GenChem | Moisture, Percent | MOIST | | % | 33 A | 47 A | 45 A | 47 A | 40 A | 43 A | 38 A | 42 A | 25 A | 53 A | 26 A |
| 025-Mclouth_GenChem | pH | PH | | su | 7 HA | 7 HA | 7 HA | 7 HA | 7 HA | 8 A | 8 A | 8 A | 7 HA | 7 A | 8 A |
| 025-Mclouth_GenChem | Temperature | TEMP | | deg c | 23 HA | 23 HA | 23 HA | 22 HA | 23 HA | 21 A | 20 A | 21 A | 23 HA | 24 A | 23 A |
| 025-Mclouth_GenChem | Total Inorganic Carbon | TIC | | mg/kg | 3300 UHA | 4600 UHA | 4000 UHA | 3800 UHA | 3500 UHA | 3700 UHA | 3700 UHA | 3700 UHA | 3900 UHA | 5600 UHA | 5200 UHA |
| 025-Mclouth_GenChem | Total Organic Carbon | 7440-44-0 | | mg/kg | 2000 UHA | 2800 UHA | 2400 UHA | 2300 UHA | 2100 UHA | 2200 UHA | 2200 UHA | 2200 UHA | 2300 UHA | 3400 UHA | 3100 UHA |
| 025-Mclouth_GenChem | Total Organic Carbon | TOC | | mg/kg | 3700 HA | 32000 HA | 40000 HA | 34000 HA | 37000 HA | 75000 HA | 67000 HA | 71000 HA | 23000 HA | 110000 HA | 24000 HA |

Notes:

1. The Sediment PAL values were sourced from Worksheet #15 of the approved Final Quality Assurance Plan for the McLouth Steel Corp. Superfund Site (October 2023)

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Table H - General Chemistry Detection Results

| Location | | | | | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD08 | MSTC23-SD09 | MSTC23-SD09 | MSTC23-SD09 | MSTC23-SD10 | MSTC23-SD12 | MSTC23-SD13 | MSTC23-SD13 |
|---------------------|------------------------|-----------|---------|-------|-----------------|---------------------|--------------------|-----------------|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Sample # | | | | | MSTC23-SD08-2.0 | MSTC23-SD08A-SS-0.5 | MSTC23-SD08-SS-0.5 | MSTC23-SD09-1.0 | MSTC23-SD09-2.0 | MSTC23-SD09-SS-0.5 | MSTC23-SD10-SS-0.5 | MSTC23-SD12-SS-0.5 | MSTC23-SD13-SS-0.5 | MSTC23-SD13-SS-1.0 |
| Start Depth | | | | | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| End Depth | | | | | 2 | 0.5 | 0.5 | 1 | 2 | 0.5 | 0.5 | 0.5 | 0.5 | 1 |
| Depth Unit | | | | | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft |
| Sample Type | | | | | N | FD | N | N | N | N | N | N | N | N |
| Parent Sample # | | | | | | MSTC23-SD08-SS-0.5 | | | | | | | | |
| Sample Date | | | | | 10/17/2023 | 10/17/2023 | 10/17/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/13/2023 | 10/12/2023 | 10/12/2023 |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | | |
| 025-Mclouth_GenChem | Moisture, Percent | MOIST | | % | 25 A | 27 A | 29 A | 44 A | 16 A | 44 A | 35 A | 35 A | 23 A | 16 A |
| 025-Mclouth_GenChem | pH | PH | | su | 7 A | 7 A | 7 A | 7 A | 8 A | 7 A | 7 A | 7 A | 7 A | 8 A |
| 025-Mclouth_GenChem | Temperature | TEMP | | deg c | 23 A | 24 A | 24 A | 24 A | 24 A | 24 A | 24 A | 25 A | 25 A | 24 A |
| 025-Mclouth_GenChem | Total Inorganic Carbon | TIC | | mg/kg | 4800 UHA | 4500 UHA | 4700 UA | 7100 UA | 4100 UA | 6000 UA | 3800 UA | 2900 UA | 3700 UA | 3300 UA |
| 025-Mclouth_GenChem | Total Organic Carbon | 7440-44-0 | | mg/kg | 2900 UHA | 2700 UHA | 2800 UA | 4300 UA | 2500 UA | 3600 UA | 2300 UA | 1700 UA | 2200 UA | 2000 UA |
| 025-Mclouth_GenChem | Total Organic Carbon | TOC | | mg/kg | 19000 HA | 18000 HA | 18000 A | 100000 A | 28000 A | 100000 A | 53000 A | 42000 A | 16000 A | 33000 A |

Notes:

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U - Not detected

Table H - General Chemistry Detection Results

| Location | | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD14 | MSTC23-SD15 | MSTC23-SD19 | MSTC23-SD19 | MSTC23-SD19 | MSTC23-SD20 | MSTC23-SD20 | MSTC23-SD20 | | | |
|---------------------|------------------------|-----------------|-----------------|--------------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|----------|----------|----------|
| Sample # | | MSTC23-SD14-1.0 | MSTC23-SD14-2.0 | MSTC23-SD14-SS-0.5 | MSTC23-SD15-SS-0.5 | MSTC23-SD19-1.0 | MSTC23-SD19-2.0 | MSTC23-SD19-SS-0.5 | MSTC23-SD20-1.0 | MSTC23-SD20-2.0 | MSTC23-SD20-SS-0.5 | | | |
| Start Depth | | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | | | |
| End Depth | | 1 | 2 | 0.5 | 0.5 | 1 | 2 | 0.5 | 1 | 2 | 0.5 | | | |
| Depth Unit | | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | | | |
| Sample Type | | N | N | N | N | N | N | N | N | N | N | | | |
| Parent Sample # | | | | | | | | | | | | | | |
| Sample Date | | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/11/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | | | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | | |
| 025-Mclouth_GenChem | Moisture, Percent | MOIST | | % | 18 A | 20 A | 23 A | 29 A | 44 A | 35 A | 48 A | 23 A | 15 A | 27 A |
| 025-Mclouth_GenChem | pH | PH | | su | 8 A | 8 A | 8 A | 7 A | 7 A | 7 A | 7 A | 8 A | 8 A | 7 A |
| 025-Mclouth_GenChem | Temperature | TEMP | | deg c | 23 A | 23 A | 24 A | 23 A | 24 A | 24 A | 23 A | 23 A | 23 A | 23 A |
| 025-Mclouth_GenChem | Total Inorganic Carbon | TIC | | mg/kg | 2700 UA | 3200 UA | 2700 UA | 3400 UHA | 4700 UHA | 11000 UHA | 9200 UHA | 6000 UHA | 6300 UHA | 4500 UHA |
| 025-Mclouth_GenChem | Total Organic Carbon | 7440-44-0 | | mg/kg | 1600 UA | 1900 UA | 1600 UA | 2000 UHA | 2800 UHA | 6500 UHA | 5500 UHA | 3600 UHA | 3800 UHA | 2700 UHA |
| 025-Mclouth_GenChem | Total Organic Carbon | TOC | | mg/kg | 36000 A | 24000 A | 16000 A | 28000 HA | 110000 HA | 38000 HA | 86000 HA | 36000 HA | 25000 HA | 63000 HA |

Notes:

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A - Unvalidated Result

H - Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

U - Not detected

Table H - General Chemistry Detection Results

| | | Location | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD22 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | MSTC23-SD23 | | |
|---------------------|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|--------------------|----------|----------|
| | | Sample # | MSTC23-SD22-1.0 | MSTC23-SD22-2.0 | MSTC23-SD22-3.0 | MSTC23-SD22-5.0 | MSTC23-SD22-SS-0.5 | MSTC23-SD23-1.0 | MSTC23-SD23-2.0 | MSTC23-SD23-3.0 | MSTC23-SD23-5.0 | MSTC23-SD23-SS-0.5 | | |
| | | Start Depth | 0 | 1 | 2 | 3 | 0 | 0 | 1 | 2 | 3 | 0 | | |
| | | End Depth | 1 | 2 | 3 | 5 | 0.5 | 1 | 2 | 3 | 5 | 0.5 | | |
| | | Depth Unit | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft | | |
| | | Sample Type | N | N | N | N | N | N | N | N | N | N | | |
| | | Parent Sample # | | | | | | | | | | | | |
| | | Sample Date | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/12/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | 10/16/2023 | | |
| Method Group | Analyte | CAS # | Sed PAL | Units | | | | | | | | | | |
| 025-Mclouth_GenChem | Moisture, Percent | MOIST | | % | 36 A | 34 A | 27 A | 22 A | 61 A | 20 A | 22 A | 28 A | 20 A | 57 A |
| 025-Mclouth_GenChem | pH | PH | | su | 7 A | 7 A | 8 A | 8 A | 7 A | 7 A | 8 A | 7 A | 8 A | 7 A |
| 025-Mclouth_GenChem | Temperature | TEMP | | deg c | 24 A | 24 A | 24 A | 23 A | 24 A | 24 A | 24 A | 23 A | 24 A | 23 A |
| 025-Mclouth_GenChem | Total Inorganic Carbon | TIC | | mg/kg | 8300 UHA | 12000 UHA | 3100 UHA | 3900 UHA | 4000 UHA | 4600 UHA | 4800 UHA | 4400 UHA | 4600 UHA | 5000 UHA |
| 025-Mclouth_GenChem | Total Organic Carbon | 7440-44-0 | | mg/kg | 5000 UHA | 7400 UHA | 1800 UHA | 2300 UHA | 2400 UHA | 2700 UHA | 2900 UHA | 2600 UHA | 2700 UHA | 3000 UHA |
| 025-Mclouth_GenChem | Total Organic Carbon | TOC | | mg/kg | 56000 HA | 20000 HA | 30000 HA | 22000 HA | 52000 HA | 7100 HA | 10000 HA | 23000 HA | 13000 HA | 44000 HA |

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U - Not detected

Table I - QC Sample Results

| Method Group | Analyte | CAS # | Sample # Sample Type Sample Date | EB-SD-Y1-01 | EB-SD-Y1-02 | EB-SD-Y1-03 | FB-SD-Y1-01 | FB-SD-Y1-02 | FB-SD-Y1-03 | TB-SD-Y1-01 | TB-SD-Y1-02 | TB-SD-Y1-03 |
|---------------------|---|-------------|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | | | EB 10/16/2023 | EB 10/17/2023 | EB 10/18/2023 | FB 10/16/2023 | FB 10/17/2023 | FB 10/18/2023 | TB 10/16/2023 | TB 10/17/2023 | TB 10/18/2023 |
| 001-Mclouth_VOC | 1,1,1-TRICHLOROETHANE | 71-55-6 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,1,2,2-TETRACHLOROETHANE | 79-34-5 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 76-13-1 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,1,2-TRICHLOROETHANE | 79-00-5 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,1-DICHLOROETHANE | 75-34-3 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,1-DICHLOROETHENE | 75-35-4 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROBENZENE | 87-61-6 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,2,3-TRICHLOROPROPANE | 96-18-4 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,2,4-TRICHLOROBENZENE | 120-82-1 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,2,4-TRIMETHYLBENZENE | 95-63-6 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE) | 106-93-4 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,2-DICHLOROBENZENE | 95-50-1 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,2-DICHLOROETHANE | 107-06-2 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,2-DICHLOROPROPANE | 78-87-5 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 108-67-8 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,3-DICHLOROBENZENE | 541-73-1 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 1,4-DICHLOROBENZENE | 106-46-7 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | 2-HEXANONE | 591-78-6 | ug/l | | | | | | | 10 U | 10 U | 10 U |
| 001-Mclouth_VOC | ACETONE | 67-64-1 | ug/l | | | | | | | 7 J | 8.3 J | 9.6 J |
| 001-Mclouth_VOC | BENZENE | 71-43-2 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | BROMOCHLOROMETHANE | 74-97-5 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | BROMODICHLOROMETHANE | 75-27-4 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | BROMOFORM | 75-25-2 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | BROMOMETHANE | 74-83-9 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | CARBON DISULFIDE | 75-15-0 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | CARBON TETRACHLORIDE | 56-23-5 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | CHLOROBENZENE | 108-90-7 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | CHLOROETHANE | 75-00-3 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | CHLOROFORM | 67-66-3 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | CHLOROMETHANE | 74-87-3 | ug/l | | | | | | | 5 U | 5 U | 1.7 J |
| 001-Mclouth_VOC | CIS-1,2-DICHLOROETHYLENE | 156-59-2 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | CIS-1,3-DICHLOROPROPENE | 10061-01-5 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | CYCLOHEXANE | 110-82-7 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | DIBROMOCHLOROMETHANE | 124-48-1 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | DICHLORODIFLUOROMETHANE | 75-71-8 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | ETHYLBENZENE | 100-41-4 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | ISOPROPYLBENZENE (CUMENE) | 98-82-8 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | m,p-Xylene | 179601-23-1 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | METHYL ACETATE | 79-20-9 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | METHYL ETHYL KETONE (2-BUTANONE) | 78-93-3 | ug/l | | | | | | | 10 U | 10 U | 10 U |
| 001-Mclouth_VOC | METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE) | 108-10-1 | ug/l | | | | | | | 10 U | 10 U | 10 U |
| 001-Mclouth_VOC | METHYLCYCLOHEXANE | 108-87-2 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | METHYLENE CHLORIDE | 75-09-2 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | O-XYLENE (1,2-DIMETHYLBENZENE) | 95-47-6 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | STYRENE | 100-42-5 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | TERT-BUTYL METHYL ETHER | 1634-04-4 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | TETRACHLOROETHENE (PCE) | 127-18-4 | ug/l | | | | | | | 0.63 J | 5 U | 5 U |
| 001-Mclouth_VOC | TOLUENE | 108-88-3 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | TRANS-1,2-DICHLOROETHENE | 156-60-5 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | TRANS-1,3-DICHLOROPROPENE | 10061-02-6 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | TRICHLOROETHENE (TCE) | 79-01-6 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | TRICHLOROFLUOROMETHANE | 75-69-4 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 001-Mclouth_VOC | VINYL CHLORIDE | 75-01-4 | ug/l | | | | | | | 5 U | 5 U | 5 U |
| 003-Mclouth_PestPCB | ALDRIN | 309-00-2 | ug/l | | 0.05 UJ | 0.053 UJ | | | | | | |
| 003-Mclouth_PestPCB | ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE) | 319-84-6 | ug/l | | 0.05 UJ | 0.053 UJ | | | | | | |
| 003-Mclouth_PestPCB | ALPHA ENDOSULFAN | 959-98-8 | ug/l | | 0.05 UJ | 0.053 UJ | | | | | | |
| 003-Mclouth_PestPCB | ALPHA-CHLORDANE | 5103-71-9 | ug/l | | 0.05 UJ | 0.053 UJ | | | | | | |

Table I - QC Sample Results

| Method Group | Analyte | CAS # | Sample # Sample Type Sample Date | EB-SD-Y1-01 | EB-SD-Y1-02 | EB-SD-Y1-03 | FB-SD-Y1-01 | FB-SD-Y1-02 | FB-SD-Y1-03 | TB-SD-Y1-01 | TB-SD-Y1-02 | TB-SD-Y1-03 |
|---------------------|---|-------------|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | | | EB 10/16/2023 | EB 10/17/2023 | EB 10/18/2023 | FB 10/16/2023 | FB 10/17/2023 | FB 10/18/2023 | TB 10/16/2023 | TB 10/17/2023 | TB 10/18/2023 |
| 003-Mclouth_PestPCB | BETA BHC (BETA HEXACHLOROCYCLOHEXANE) | 319-85-7 | | ug/l | | 0.05 UJ | 0.053 UJ | | | | | |
| 003-Mclouth_PestPCB | BETA ENDOSULFAN | 33213-65-9 | | ug/l | | 0.1 UJ | 0.11 UJ | | | | | |
| 003-Mclouth_PestPCB | BETA-CHLORDANE | 5103-74-2 | | ug/l | | 0.05 UJ | 0.053 UJ | | | | | |
| 003-Mclouth_PestPCB | DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE) | 319-86-8 | | ug/l | | 0.05 UJ | 0.0074 J- | | | | | |
| 003-Mclouth_PestPCB | DIELDRIN | 60-57-1 | | ug/l | | 0.1 UJ | 0.003 J- | | | | | |
| 003-Mclouth_PestPCB | ENDOSULFAN SULFATE | 1031-07-8 | | ug/l | | 0.1 UJ | 0.11 UJ | | | | | |
| 003-Mclouth_PestPCB | ENDRIN | 72-20-8 | | ug/l | | 0.1 UJ | 0.11 UJ | | | | | |
| 003-Mclouth_PestPCB | ENDRIN ALDEHYDE | 7421-93-4 | | ug/l | | 0.1 UJ | 0.11 UJ | | | | | |
| 003-Mclouth_PestPCB | ENDRIN KETONE | 53494-70-5 | | ug/l | | 0.1 UJ | 0.0097 J- | | | | | |
| 003-Mclouth_PestPCB | GAMMA BHC (LINDANE) | 58-89-9 | | ug/l | | 0.05 UJ | 0.053 UJ | | | | | |
| 003-Mclouth_PestPCB | HEPTACHLOR | 76-44-8 | | ug/l | | 0.05 UJ | 0.053 UJ | | | | | |
| 003-Mclouth_PestPCB | HEPTACHLOR EPOXIDE | 1024-57-3 | | ug/l | | 0.05 UJ | 0.053 UJ | | | | | |
| 003-Mclouth_PestPCB | METHOXYCHLOR | 72-43-5 | | ug/l | | 0.5 UJ | 0.53 UJ | | | | | |
| 003-Mclouth_PestPCB | P,P'-DDD | 72-54-8 | | ug/l | | 0.1 UJ | 0.11 UJ | | | | | |
| 003-Mclouth_PestPCB | P,P'-DDE | 72-55-9 | | ug/l | | 0.1 UJ | 0.11 UJ | | | | | |
| 003-Mclouth_PestPCB | P,P'-DDT | 50-29-3 | | ug/l | | 0.1 UJ | 0.11 UJ | | | | | |
| 003-Mclouth_PestPCB | PCB-1016 (AROCLOR 1016) | 12674-11-2 | | ug/l | | 1 UJ | 1.1 UJ | | | | | |
| 003-Mclouth_PestPCB | PCB-1221 (AROCLOR 1221) | 11104-28-2 | | ug/l | | 1 UJ | 1.1 UJ | | | | | |
| 003-Mclouth_PestPCB | PCB-1232 (AROCLOR 1232) | 11141-16-5 | | ug/l | | 1 UJ | 1.1 UJ | | | | | |
| 003-Mclouth_PestPCB | PCB-1242 (AROCLOR 1242) | 53469-21-9 | | ug/l | | 1 UJ | 1.1 UJ | | | | | |
| 003-Mclouth_PestPCB | PCB-1248 (AROCLOR 1248) | 12672-29-6 | | ug/l | | 1 UJ | 1.1 UJ | | | | | |
| 003-Mclouth_PestPCB | PCB-1254 (AROCLOR 1254) | 11097-69-1 | | ug/l | | 1 UJ | 1.1 UJ | | | | | |
| 003-Mclouth_PestPCB | PCB-1260 (AROCLOR 1260) | 11096-82-5 | | ug/l | | 1 UJ | 1.1 UJ | | | | | |
| 003-Mclouth_PestPCB | PCB-1262 (AROCLOR 1262) | 37324-23-5 | | ug/l | | 1 UJ | 1.1 UJ | | | | | |
| 003-Mclouth_PestPCB | PCB-1268 (AROCLOR 1268) | 11100-14-4 | | ug/l | | 1 UJ | 1.1 UJ | | | | | |
| 003-Mclouth_PestPCB | TOXAPHENE | 8001-35-2 | | ug/l | | 5 UJ | 5.3 UJ | | | | | |
| 012-Mclouth_PFAS | 11CI-PF3OUds | 83329-89-9 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | 1H,1H,2H,2H-perfluorodecane sulfonate (8:2 FTS) | 27619-96-1 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | 1H,1H,2H,2H-perfluorohexane sulfonate (4:2 FTS) | 27619-93-8 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | 1H,1H,2H,2H-perfluorooctane sulfonate (6:2 FTS) | 27619-94-9 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | 2H,2H,3H,3H-Perfluorooctanoic acid | 914637-49-3 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | 3:3 FTCA | 356-02-05 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | 3-Perfluoroheptyl propanoic acid | 812-70-4 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | 9CI-PF3ONS | 73606-19-6 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | ADONA | 958445-44-8 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | FHUEA | 70887-88-6 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | FOUEA | 70887-84-2 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | Hexafluoropropylene oxide dimer acid | 13252-13-6 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | HQ-115 | 90076-65-6 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | N-ethyl perfluorooctanesulfonamide | 4151-50-2 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | N-ethyl perfluorooctanesulfonamidoacetic acid | 2991-50-6 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | N-ethyl perfluorooctanesulfonamidoethanol | 1691-99-2 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | N-methyl perfluorooctanesulfonamide | 31506-32-8 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | N-methyl perfluorooctanesulfonamidoacetic acid | 2355-31-9 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | N-methyl perfluorooctanesulfonamidoethanol | 24448-09-7 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | Nonafluoro-3,6-dioxahexanoic acid | 151772-58-6 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | perfluoro-1-decanesulfonate (PFDS) | 2806-15-7 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | perfluoro-1-heptanesulfonate (PFHpS) | 21934-50-9 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | perfluoro-1-nonanesulfonate (PFNS) | 98789-57-2 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | perfluoro-1-pentanesulfonate (PFPeS) | 630402-22-1 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | Perfluoro-3-methoxypropanoic acid | 377-73-1 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | Perfluoro-4-methoxybutanoic acid | 863090-89-5 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | Perfluorobutanesulfonic acid | 375-73-5 | | ng/l | 49.6 UA | 51.6 UA | 49.3 UA | 50.4 UA | 49.7 UA | 49.8 UA | | |
| 012-Mclouth_PFAS | perfluorobutyl sulfonate | 29420-49-3 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | Perfluorodecanoic acid | 335-76-2 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | Perfluorododecanoic acid | 307-55-1 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | Perfluoroheptanoic acid | 375-85-9 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |
| 012-Mclouth_PFAS | Perfluorohexanoic acid | 307-24-4 | | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | |

Table I - QC Sample Results

| Method Group | Analyte | CAS # | Sample # Sample Type Sample Date | EB-SD-Y1-01 | EB-SD-Y1-02 | EB-SD-Y1-03 | FB-SD-Y1-01 | FB-SD-Y1-02 | FB-SD-Y1-03 | TB-SD-Y1-01 | TB-SD-Y1-02 | TB-SD-Y1-03 |
|-------------------|-----------------------------|--------------|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | | | EB 10/16/2023 | EB 10/17/2023 | EB 10/18/2023 | FB 10/16/2023 | FB 10/17/2023 | FB 10/18/2023 | TB 10/16/2023 | TB 10/17/2023 | TB 10/18/2023 |
| 012-Mclouth_PFAS | perfluorohexyl sulfonate | 3871-99-6 | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | | |
| 012-Mclouth_PFAS | Perfluorononanoic acid | 375-95-1 | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | | |
| 012-Mclouth_PFAS | Perfluorooctanesulfonamide | 754-91-6 | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | | |
| 012-Mclouth_PFAS | perfluorooctanoate | 3825-26-1 | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | | |
| 012-Mclouth_PFAS | perfluorooctyl sulfonate | 2795-39-3 | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | | |
| 012-Mclouth_PFAS | Perfluoropentanoic acid | 2706-90-3 | ng/l | 49.6 UA | 51.6 UA | 49.3 UA | 50.4 UA | 49.7 UA | 49.8 UA | | | |
| 012-Mclouth_PFAS | Perfluorotetradecanoic acid | 376-06-7 | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | | |
| 012-Mclouth_PFAS | Perfluorotridecanoic acid | 72629-94-8 | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | | |
| 012-Mclouth_PFAS | Perfluoroundecanoic acid | 2058-94-8 | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | | |
| 012-Mclouth_PFAS | PFDoS | 1260224-54-1 | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | | |
| 012-Mclouth_PFAS | PFEESA | 117205-07-9 | ng/l | 9.91 UA | 10.3 UA | 9.85 UA | 10.1 UA | 9.94 UA | 9.96 UA | | | |
| 012-Mclouth_PFAS | PFPRA | 422-64-0 | ng/l | 49.6 UA | 51.6 UA | 49.3 UA | 50.4 UA | 49.7 UA | 49.8 UA | | | |
| 014-Mclouth_Inorg | Aluminum | 7429-90-5 | ug/l | 20 U | 20 U | 14 J | | | | | | |
| 014-Mclouth_Inorg | Antimony | 7440-36-0 | ug/l | 2 U | 2 U | 2 U | | | | | | |
| 014-Mclouth_Inorg | Arsenic | 7440-38-2 | ug/l | 1 U | 1 U | 1 U | | | | | | |
| 014-Mclouth_Inorg | Barium | 7440-39-3 | ug/l | 10 U | 10 U | 10 U | | | | | | |
| 014-Mclouth_Inorg | Beryllium | 7440-41-7 | ug/l | 1 U | 1 U | 1 U | | | | | | |
| 014-Mclouth_Inorg | Cadmium | 7440-43-9 | ug/l | 1 U | 1 U | 1 U | | | | | | |
| 014-Mclouth_Inorg | Calcium | 7440-70-2 | ug/l | 500 U | 500 U | 500 U | | | | | | |
| 014-Mclouth_Inorg | Chromium | 7440-47-3 | ug/l | 2 U | 2 U | 2 U | | | | | | |
| 014-Mclouth_Inorg | Cobalt | 7440-48-4 | ug/l | 1 U | 1 U | 1 U | | | | | | |
| 014-Mclouth_Inorg | Copper | 7440-50-8 | ug/l | 2 U | 2 U | 2 U | | | | | | |
| 014-Mclouth_Inorg | CYANIDE | 57-12-5 | ug/l | 10 U | 10 U | 10 U | | | | | | |
| 014-Mclouth_Inorg | Iron | 7439-89-6 | ug/l | 200 U | 200 U | 200 U | | | | | | |
| 014-Mclouth_Inorg | Lead | 7439-92-1 | ug/l | 1 U | 1 U | 1 U | | | | | | |
| 014-Mclouth_Inorg | Magnesium | 7439-95-4 | ug/l | 500 U | 500 U | 500 U | | | | | | |
| 014-Mclouth_Inorg | Manganese | 7439-96-5 | ug/l | 1 U | 1 U | 1 U | | | | | | |
| 014-Mclouth_Inorg | Mercury | 7439-97-6 | ug/l | 0.2 U | 0.2 U | 0.2 U | | | | | | |
| 014-Mclouth_Inorg | Nickel | 7440-02-0 | ug/l | 1 UJ | 1 UJ | 1 UJ | | | | | | |
| 014-Mclouth_Inorg | Potassium | 7440-09-7 | ug/l | 500 U | 500 U | 500 U | | | | | | |
| 014-Mclouth_Inorg | Selenium | 7782-49-2 | ug/l | 5 U | 5 U | 5 U | | | | | | |
| 014-Mclouth_Inorg | Silver | 7440-22-4 | ug/l | 1 U | 1 U | 1 U | | | | | | |
| 014-Mclouth_Inorg | Sodium | 7440-23-5 | ug/l | 500 U | 500 U | 500 U | | | | | | |
| 014-Mclouth_Inorg | Thallium | 7440-28-0 | ug/l | 1 U | 1 U | 1 U | | | | | | |
| 014-Mclouth_Inorg | Vanadium | 7440-62-2 | ug/l | 5 U | 5 U | 5 U | | | | | | |
| 014-Mclouth_Inorg | Zinc | 7440-66-6 | ug/l | 5 U | 5 U | 5 U | | | | | | |

Acronyms:

CAS # - Chemical Abstract Service Number

EB - Equipment Blank

FB - Field Blank

TB - Trip Blank

A - Unvalidated Result

J - The identification of the analyte is acceptable; the reported value is an estimate

J - The result is an estimated quantity, but the results may be biased low

U - Not Detected

Attachment C

Geotechnical Data



CDM Smith Geotechnical Laboratory Testing Summary Sheet

Client: EPA Region 5

Project Number: 107178-281860

Reviewed By: M. Polsky - Lab Manager

Project Name: McLouth Steel Superfund Site, OU3 Y1

Task: 3501-5F0033-0001.2.1.2

Project Location: Trenton, MI

Assigned By: T. Bennett

Date Reviewed: 11/2/2023

| Sample Date | Sample | Identification Tests | | | | | | | | | | | Soil Description | |
|-------------|----------------------|----------------------|------|------|----------|--------|---------|-------------------|----------------------|-------------------------------|------------|--------------|------------------|---|
| | | Water Content % | LL % | PL % | Gravel % | Sand % | Fines % | Organic Content % | Shear Strength (psf) | Remolded Shear Strength (psf) | Porosity % | Permeability | | Spec. Grav. |
| 10/18/2023 | MSTC23 SD02 0-1.0 | 98.0 | 76 | 33 | 0.0 | 3.1 | 96.9 | 8.7 | 63.1 | 59.9 | | | 2.588 | Gray organic clay |
| 10/19/2023 | MSTC23 SD03 0-1.0 | 91.3 | 69 | 32 | 0.8 | 12.3 | 86.9 | 7.4 | 21.4 | 1.1 | | | 2.324 | Gray organic clay |
| 10/18/2023 | MSTC23 SD20 0-1.0 | 17.1 | NP | NP | 3.1 | 59.2 | 37.7 | 0.7 | 441.2 | 17.9 | | | 2.621 | Gray silty sand |
| 10/18/2023 | MSTC23 SD01-SS 0-0.5 | 56.3 | | | 22.9 | 50.0 | 27.1 | | | | | | | Gray silty sand with gravel |
| 10/18/2023 | MSTC23 SD05-SS 0-0.5 | 60.6 | | | 0.0 | 81.8 | 18.2 | | | | | | | Gray-brown silty sand |
| 10/17/2023 | MSTC23 SD07-SS 0-0.5 | 96.4 | | | 1.5 | 56.8 | 41.7 | | | | | | | Gray silty sand |
| 10/16/2023 | MSTC23 SD20-SS 0-0.5 | 25.4 | | | 9.3 | 84.0 | 6.7 | | | | | | | Gray-brown poorly graded sand with silt |
| 10/16/2023 | MSTC23 SD20 0-1.0 | 31.2 | | | 6.3 | 81.4 | 12.3 | | | | | | | Gray-brown silty sand |
| 10/16/2023 | MSTC23 SD20 1.0-2.0 | 16.7 | | | 12.5 | 77.3 | 10.2 | | | | | | | Gray-brown poorly graded sand with silt |
| | | | | | | | | | | | | | | |
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