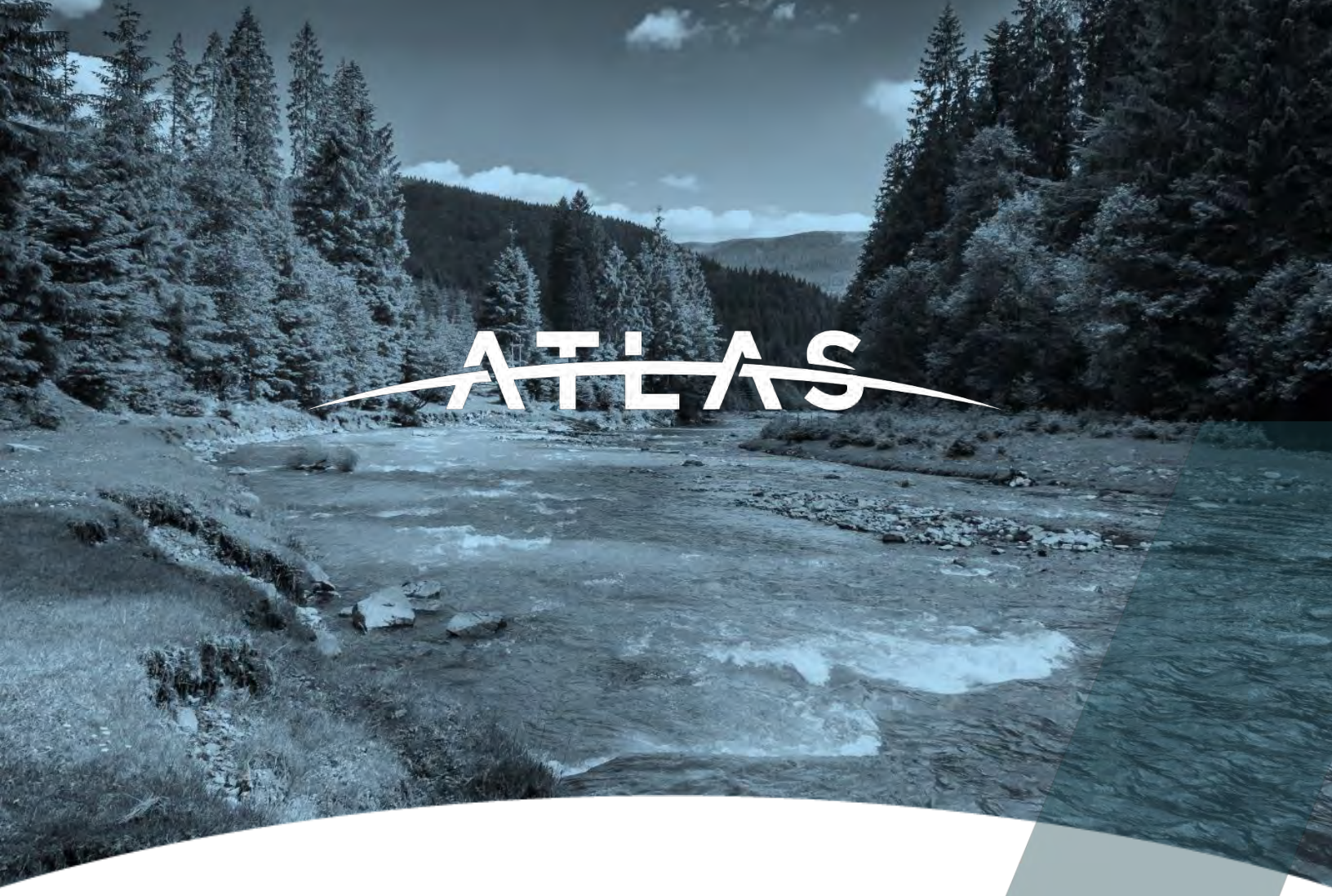


DUE CARE EVALUATION

FOR CONSTRUCTION ACTIVITIES
LENOX CENTER/ AB FORD PARK PROPERTY

188BS23244

PREPARED FOR:

Mr. Al Dyer
City of Detroit
Construction and Demolition Department
1301 Third Street, Suite 606
Detroit, Michigan 48226

PREPARED BY:

Atlas Technical Consultants LLC
1735 E McNichols
Detroit, Michigan 48203

February 5, 2024

February 5, 2024

Atlas No. 188BS23244

Mr. Al Dyer
CITY OF DETROIT
CONSTRUCTION AND DEMOLITION DEPARTMENT
1301 Third Street, Suite 606
Detroit, Michigan 48226

Subject: **Due Care Evaluation**
For Construction Activities
Lenox Center/ AB Ford Park Property
100 Lenox Street, Detroit, Michigan 48215

Dear Mr. Dyer:

Atlas Technical Consultants, LLC (Atlas) is pleased to present this Due Care Evaluation to City of Detroit, Construction and Demolition Department (C&DD) for the property located at 100 Lenox Street, Detroit, Michigan 48215 (Subject Property). Atlas prepared a Phase II Environmental Site Assessment (Phase II ESA) and Delineation Assessment Summary on behalf of C&DD that indicated that the Subject Property meets the definition of a "facility" as that term is defined in Part 201 of the Natural Resources and Environmental Protection Act (NREPA), PA 451 of 1994, as amended (Part 201). An owner or operator of a "facility" also has due care obligations under Section 20107a and Section 21304c with respect to any existing contamination. The City of Detroit, Parks and Recreation currently owns/operates the property. This DCE has been prepared on behalf of City of Detroit in respect to its planned construction and renovation of the existing AB Ford Park. *This DCE is not intended to be a complete evaluation of the owner's due care obligations.*

Atlas has prepared this Due Care Evaluation to document current property conditions, identify complete exposure pathways, apply applicable criteria by category and provide recommendations of response activities or corrective actions necessary to prevent the spread of and exposure to existing contamination during construction and renovation of the existing AB Ford Park and its associated improvements and structures. This document is not intended to represent a Documentation of Due Care Compliance for submission to and approval by Michigan Department of Environment, Great Lakes, and Energy (EGLE). If you have any questions, please contact the undersigned.

Respectfully submitted,
Atlas Technical Consultants LLC

James Bresko
Senior Project Manager

Joshua Schuyler
Operations Manager, Michigan

Attachment: Due Care Evaluation
Distribution: Al.Dyer@detroitmi.gov

Due Care Evaluation

In accordance with Section 20107a of Part 201, Natural Resources and Environmental Protection Act, 1994 PA 451, as amended

For Construction and Renovation Activities
Lenox Center/ AB Ford Park Property
100 Lenox Street
Detroit, Wayne County, Michigan 48215

Atlas Project Number 188BS23244
Prepared: February 5, 2024

Prepared For:

Al Dyer
City of Detroit
Construction and Demolition Department
1301 Third Street, Suite 606
Detroit, Michigan 48226

Prepared By:

Atlas Technical Consultants LLC
1735 E McNichols
Detroit, Michigan 48203
(248) 669-5140

CONTENTS

TABLES

APPENDICES

1. INTRODUCTION

City of Detroit, Construction and Demolition Department (C&DD) retained Atlas Technical Consultants, LLC (Atlas) to prepare a Due Care Evaluation (DCE) for the property located at 100 Lenox Street, Detroit, Wayne County, Michigan 48215 (herein referred to as the Subject Property). Atlas prepared a Phase II Environmental Site Assessment (Phase II ESA), Delineation Assessment Summary, and Delineation of Soil-Fill Material Contamination Summary on behalf of C&DD that indicated that the Subject Property meets the definition of a "facility" as that term is defined in Part 201 of the Natural Resources and Environmental Protection Act (NREPA), PA 451 of 1994, as amended (Part 201).

Atlas prepared this DCE for C&DD in accordance with Section 20107a of Part 201 using the information provided in the aforementioned Phase II ESA, Delineation Assessment Summary, and Delineation of Soil-Fill Material Contamination Summary. An owner or operator of a facility also has due care obligations under Section 20107a and Section 21304c with respect to any existing contamination. The City of Detroit, Parks and Recreation currently owns/operates the property. This DCE has been prepared on behalf of the City of Detroit in respect to its planned park construction and renovation activities In summary, the planned project activities consist of, but may not be limited to, clearing and removal of all existing vegetation, including trees, throughout the park, removal of most existing park improvements followed by the installation of a clean soil cap (i.e., Surface Protective Barrier) across the entirety of the park and, following installation of the soil cap, construction of various improvements and structures throughout the park. The planned improvements include, but are not limited to, the construction of approximately 22,000 square feet of concrete walkways, two (2) pickleball courts, one (1) tennis court, one (1) integrated skate path, four (4) outdoor shelters, lighting improvements, the resurfacing of the existing Lakewood asphalt parking lot serving the park and final restoration of all disturbed surfaces with topsoil and seed. *This DCE is not intended to be a complete evaluation of the owner's due care obligations.*

This evaluation is based on current property conditions, identified contamination above cleanup criteria, planned City of Detroit activities and includes: the identification of complete exposure pathways, applicable criteria by category of land use, and provides recommendations of response activities or corrective actions.

This document is not intended to represent a Documentation of Due Care Compliance (DDCC) for submission to and approval by Michigan Department of Environment, Great Lakes, and Energy (EGLE). An owner or operator of a facility must take actions to protect people from exposure of contamination present in soil, groundwater, and subsurface vapors. Documentation of due care evaluations, all conducted response activities, and compliance with Section 7a or Section 4c need to be made available to EGLE, but not submitted, within 8 months of becoming the owner or operator of a facility. EGLE may request documentation of due care compliance from an owner or operator.

The following documents associated with the Subject Property were used to prepare the Due Care Evaluation:

- Atlas Technical Consultants LLC, Phase I Environmental Site Assessment (ESA) Lenox Center Property 100 Lenox Street, Detroit, Michigan 48215, Atlas Project No.: 188BS21459, September 20, 2021
- Atlas Technical Consultants LLC, Limited Phase II ESA; Lenox Center Property– QQ-0070, 100 Lenox Street, Detroit, Michigan 48215, Atlas Project No. 188BS22164, August 2, 2022

- Atlas Technical Consultants LLC, Delineation Assessment Summary – QQ-0070, Lenox Center Property, 100 Lenox Street, Detroit, Michigan 48215, Atlas Project No. 188BS22411, August 16, 2022
- Delineation of Soil-Fill Material Contamination Summary Report, Alfred Brush Ford Park, 100 Lenox Street, Detroit, Wayne County, Michigan 48215, Commercial/Environmental Due Diligence, Atlas Project No. 188BS23244, November 30, 2023

These reports are currently on file with C&DD under a separate cover.

2. DETAILED PROPERTY INFORMATION

2.1 Subject Property Location and Description

The Subject Property includes an area of approximately 29.5 acres with the subject assessment area of an 11.5-acre portion of the parcel of land that is currently developed with an 8,116 square foot community center building and associated parking that was completed in 2023. See Figure A for current property location and Figure B for the AB Ford Master Plan Rendering. The Subject Property building serves as a community space as well as a sustainable resilience hub during emergencies and includes a community hub space, flexible space for indoor youth sports and community events, classrooms, and quiet learning space. The Subject Property is serviced by municipally supplied utilities. The municipalities having jurisdiction over the Subject Property are City of Detroit and Wayne County.

The area surrounding the building generally includes grass and/or landscaping with asphalt driveways/parking areas to the north. A playground is located east of the building and a pavilion and basketball court are located west of the building. Concrete pads and two missile tracking radar towers, associated with the U.S. Army Integrated Fire Control (IFC) site D-23, are also present on the Subject Property.

As indicated above, the planned park construction and renovation activities consist of, but may not be limited to, clearing and removal of all existing vegetation, including trees, throughout the park, removal of most existing park improvements followed by the installation of a clean soil cap (i.e., Surface Protective Barrier) across the entirety of the park and, following installation of the soil cap, construction of various improvements and structures throughout the park. The planned improvements and structures include, but are not limited to, concrete walkways, pickleball courts, a tennis court, an integrated skate path, outdoor shelters, lighting improvements, resurfacing of an existing asphalt parking lot serving the park, and final restoration of all disturbed surfaces with topsoil and seed.

In addition, the naturalized property will feature a pollinator meadow, arboretum for educational enrichment opportunities, and additional tree plantings. Other renovations expected to take place at the park include Detroit Pistons-sponsored basketball courts and an Environmental Protection Agency Habitat Restoration Project to provide a habitat wetland for wildlife.

A Subject Property Location Map and Subject Property Plans are provided in **Appendix I, Figures A and B and Figures 1 through 3.3 for assessment study area.**

Based on provided information provided by C&DD there are currently no land or resource use limitations or institutional controls established on the Subject Property. There are no known aboveground storage tanks, underground storage tanks or containers of hazardous substances present or abandoned at the Subject Property. There are no current response activities or corrective actions being conducted at the Subject Property by liable or non-liable parties.

2.2 Existing Infrastructure Features and Conditions of Infrastructure

The Subject Property is currently accessed from the northwest corner of the parcel via Lenox Street. Municipally supplied utilities (electricity, natural gas, water, storm sewer, sanitary sewer) are provided to the Subject Property. There are no known water wells or septic systems identified or reported for the Subject Property. Two newly constructed inter-connected bio swales

(completed in 2023) that receive stormwater runoff and are connected to the municipal sewer system are located on the northwestern portion of the Subject Property, west of the newly constructed community center building. A detail drawing of the bio swale construction is included in **Appendix II, Drawing Number C-9.0**. There is no other surface water on the Subject Property. The Detroit River is located directly south of the Subject Property.

2.3 Current Property Use

The Subject Property is owned/operated by City of Detroit, Parks and Recreation and is being redeveloped into a community space as well as a community hub space, flexible space for indoor youth sports and community events, classrooms, and quiet learning space. *Future development of the Subject Property may occur and this DCE does not include the evaluation of future use or represent the owner's obligations with respect to due care*. The following activities are anticipated during current planned park construction/ renovation activities:

- Soil particles could be dispersed through wind and water erosion to adjacent properties or through storm sewer systems.
- Perched shallow groundwater may be encountered and could be dispersed in construction site runoff to adjacent properties or storm sewer systems.
- Construction workers may be exposed to hazardous substances found in soil and groundwater.
- Exacerbation of existing contamination could be a result of handling soil and groundwater encountered during construction or soil adhered to demolition debris, construction workers, and/or demolition and construction equipment/trucks leaving the Subject Property.
- Authorized visitors or unauthorized users may be exposed to hazardous substances found in soil and groundwater.

3. EXPOSURE PATHWAY EVALUATION

The analysis of potential exposure pathways and the resulting due care obligations shall always be based on current site conditions; however, this Due Care Evaluation is based on the proposed park construction/ renovation activities.

The following table summarizes the potential exposure pathways and identifies if the exposure is complete.

Table 1 – Exposure Pathway Evaluation

Exposure Pathway	Current Property Conditions	Explanation
Drinking Water Pathway	A person could be exposed to contaminated groundwater through ingestion. *No groundwater wells were observed at the Subject Property. Current and Future use will be municipal supplied drinking water.*	INCOMPLETE: Drinking Water is supplied by municipal system
Direct Contact Pathway	A person can come in contact with contaminated soils or groundwater on the Subject Property (walking, playing, or working on surficial soils with or without vegetation; below surface construction or utility activities; trespassing.)	**COMPLETE:** Direct Contact to soil may occur at the Subject Property.
Soil Particulate Inhalation Pathway	A person can inhale ambient air particles from substances present in soil (with or without vegetation) via wind erosion of contaminated soils and vehicle traffic.	**COMPLETE:** Soil Particulate Inhalation from soil may occur at the Subject Property.
Soil Volatilization to Ambient Air Pathway	A person can inhale ambient air that contains vapors from volatile substances present in soil.	**COMPLETE:** Soil Volatilization to Ambient Air may occur at the Subject Property.
Volatilization to Indoor Air Pathway	A person may inhale substances in indoor air from volatile substances present in soil or groundwater that may volatilize into buildings present on the property.	**COMPLETE:** Soil Volatilization to Indoor Air may occur at the Subject Property.
Groundwater-Surface Water Interface Pathway	A person can come in contact with surface water on the property where groundwater is venting to the surface water with contaminant that would present human exposure concerns. *Two newly constructed inter-connected bio swales are located on the Subject Property and the Detroit River is adjacent to the Southern Property Line.*	**COMPLETE:** Surface Water was identified on, and adjacent to, the Subject Property.

4. FACILITY INFORMATION

4.1 Historical Use of Subject Property

The Subject Property appears to have been undeveloped land from at least 1905 to the 1950s and was occupied by an army base from at least the late 1950s through the 1960s. The base consisted of several barrack buildings and two radar towers. The barrack buildings were removed except the building pads and only the two towers remain. The former community center building, which was demolished by C&DD in early 2023, was constructed in 1970. Occupants of the building have included the Kiwanis Community Center, the Kiwanis Clubhouse at the Detroit Recreational Center, Recreation Center for the Handicapped, then as the Detroit Community Center. The building was vacated in 2013 after a water main break caused significant damage. Based on research conducted by Atlas in the Phase I ESA, significant filling occurred in the southern portion of the property along the Detroit River between 1937 and 1981. The presence of a significant amount of fill material from an unknown origin is considered to be a *recognized environmental condition* (REC).

Atlas also reviewed the internet site https://detroit.curbed.com/maps/map-secret-detroit-explore-city-history-art-landmarks for historical pertinent information regarding past Subject Property usage during the Phase I ESA:

- This site is identified as Alfred Brush Ford Park in Jefferson-Chalmers, but some maps may list it as Nike Missile Control Site D-23. According to author and journalist Karen Dybis, "What is now known as Alfred Brush Ford Park formerly served as a radar installation for missiles stored underground on nearby Belle Isle. The station, which operated sometime during the Cold War, was private and few people around the time of its construction in the 1950s knew about its true purpose. As word got out and other threats became more pressing, the Nike missile station was closed. All that remains today are several decommissioned towers that sit as a ghostly reminder of its former purpose."

4.2 Subject Property Physical Setting

A topographic survey of the Subject Property was originally issued in March 2020 indicates that the elevation across the property ranges from approximately 575 feet above mean sea level (AMSL) to approximately 582 AMSL. The contour lines provided on the survey indicate a slight west-southwesterly topographic slope. The anticipated direction of groundwater flow is to the west-southwest.

The Subject Property soils are mapped as Riverfront-Urban land complex, 0 to 4 percent slopes on the southwestern portion of the Subject Property and as Riverfront sandy loam, 0 to 4 percent slopes soils on the remainder of the Subject Property. These soil types typically include sandy loam, then very artifactual sandy loam underlain by gravelly-artifactual loam. The Subject Property geology encountered during a subsurface investigation conducted by Atlas consisted primarily of grass and topsoil surface cover, followed intermixed horizons of brown to dark gray, damp to saturated, clay with varying amounts of sand and silt; and horizons of fine to coarse grain sand with varying amounts of silt that continued to the bottom of the soil borings completed on the Subject Property (maximum boring depth was 18.5 feet below grade surface). The soil horizons contained debris (e.g., brick) at several soil borings (GP-1, GP-4 through GP-14) at depths ranging from 10 to 12-feet bgs, which indicates fill materials were placed in several areas across the Subject Property. GP-14 indicated crushed limestone/gravel from 4 to 10 feet bgs and

groundwater at 7 feet. With the exception of GP-1, all the soil borings contained groundwater at depths ranging from approximately 4 to 12 feet bgs.

4.3 Contaminant Information

Investigative activities that included soil sampling, gridded soil/fill sampling, stockpiled soil sampling and soil gas sampling were performed in 2022 and 2023. Site activities and contaminant information compiled from these investigations are summarized in the following sections:

4.3.1 2022 Investigation Summary

A Limited Phase II ESA was performed by Atlas in April 2022 within the western portion of the park, which identified concentrations in soil and/or groundwater above Part 201 Residential Generic Cleanup Criteria (GRCC). Atlas performed a Delineation Assessment in areas of identified soil that exceeded DCC in July 2022. A summary of the findings from these investigations is provided below. The complete reports are on file with C&DD.

- On April 12, 2022, Atlas advanced eight (8) soil borings (GP-1 through GP-8) to a maximum depth ranging from 12to 18.5-feet bgs. Soil samples were collected continuously for soil characterization and field screening for volatile organic compounds (VOCs) utilizing a photoionization detector (PID) device. One soil sample was collected from each soil boring and submitted for laboratory analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc (the 10 Michigan Metals).
- On July 27, 2022, Atlas advanced six (6) Geoprobe borings (GP-9 through GP-14) to depths of approximately 10 feet bgs to assess the previously identified lead at GP-3 and GP-8 and benzo(a)pyrene identified at GP-3. At total of 18 soil samples, and two duplicate samples were collected for laboratory analysis of lead by USEPA Method 7010 and PAHs by USEPA Method 8270C.
- Groundwater was encountered at depths ranging from 4 to 12 feet bgs at all soil boring locations, except GP-1. Groundwater samples were collected from GP-2, GP-3, GP-4, GP-5, GP-6, GP-7, and GP-8 were submitted for laboratory analysis for the presence of VOCs, SVOCs, PCBs, and the 10 Michigan Metals.
- Soil and groundwater analytical results were compared to the most restrictive Part 201 Residential Generic Cleanup Criteria (Drinking Water Protection Criteria (DWPC), Direct Contact Criteria (DCC) to the Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC) and/or Particulate Soil Inhalation Criteria) contained in Table 2 of P.A. 451, Part 201.

2022 Contaminant Summary

- VOCs, PAHs, and metals were detected at concentrations that exceed EGLE Residential GCC.
- Lead and benzo(a)pyrene were identified above EGLE Residential GCC for direct contact at GP-3 (1’ -3’).
- Lead was identified in the soil above DCC at GP-8 (2’-4’).
- Lead was identified in the soil above the Drinking Water Protection Criteria (DWPC) at GP 3 (1’-3’).

- Barium, cadmium, copper, lead, mercury, and zinc were identified in the soil above the DWPC at GP-8 (2'-4').
- Benzene was identified in the perched groundwater (in fill material) above Drinking Water Criteria (DWC) at GP-4.

Atlas noted that the Drinking water exposure pathway is incomplete as the City of Detroit is serviced by municipal water system and installation of wells for consumptive purposes is prohibited. Atlas also notes that although several soil sample locations may exceed Groundwater Surface Water Interface Protection Criteria (GSIPC), and the pathway is complete, there is limited risk as the area along the river/canal contains metal sheet piling and the bioswale areas were excavated and replaced with clean fill and aggregate.

Atlas recommended additional sampling to determine the full extent of risk pathways (metals and SVOCs in soil) above cleanup criteria to fully evaluate the owner's obligations for due care responsibilities.

4.3.2 2023 Investigation Summary

Delineation of Soil-Fill Material Contamination investigations were performed in April and July 2023 within the western portion of the park area. The following provides a timeline of activities for these investigations:

April 4, 2023	File Review of project-related documents provided by the DDD
April 7, 2023	Site-Specific Health and Safety Plan (SSHASP)
April 10, 2023	Work Plan
April 13, 2023	Kickoff Meeting & Site Visit
April 13, 2023	Property Survey Mapping
April 24, 2023	Utility Clearance/GPR
April 24-27, 2023	Soil Borings & Soil/Fill Material Sampling
May 10, 2023	Soil Stockpile Sampling
July 11, 2023	Property Survey Mapping (cont.)
July 25, 2023	Soil Borings & Soil/Fill Material Sampling (cont.)
August 11, 2023	Soil Gas Point Installation
August 16, 2023	Soil Gas Sampling

A summary of the findings from the 2023 investigations is provided below. The complete reports are on file with C&DD.

<u>Gridded Soil Sampling</u>

- A total of 158 grid and boring locations were completed during the delineation activities. Soil boring locations SB-1 through SB-123 were completed in April 2023. Soil boring locations SB-124 through SB-158 were completed in July 2023.
- Soil borings were advanced to a depth of approximately 4 feet bgs.
- One soil boring was advanced at each grid node on an established 50-foot by 50-foot grid.
- At each boring location, soil/ fill material samples were collected continuously with a five-foot macro core sampler from ground surface to the bottom of each borehole and subjected to headspace testing using a portable photo-ionization detector (PID). The headspace testing was performed for safety and to screen soil/ fill material for the potential presence of VOCs.
- The samples collected from the 0–2-foot sampling interval were submitted for PAH and10 Michigan Metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium,

silver, and zinc) analyses. The samples collected from the 2–4-foot sampling interval were submitted to the laboratory and put on hold for potential laboratory analysis. PAH (2-4') samples were extracted at the laboratory prior to totals results of the (0-2') samples due to hold times. PAH and specific metals were requested for analysis from the 2-4' interval based on specific COC exceedances at each 0-2' sample location.

Stockpiled Soil Sampling

- Stockpiles were identified by Atlas upon arrival due to active on-site construction identified as stockpile areas North (N), South (S), and East (E). Atlas evaluated and quantified soil volume and total areas of stockpiled soil and all stockpiled soil was staged on the northwest corner of the Subject Property. Soil volumes changed daily as new soil was placed in this area. Atlas attempted to collect composite samples of all soil stockpiled in conjunction with the site assessment/soil boring drilling activities using established protocols applied to the stockpiled soil (for possible disposal or re-use on-site) that included: one composite sample per 500 cubic yards (cy), or one composite sample from each stockpile of soil stockpile <500 cy; each stockpile (500 cy volume) was divided into quadrants and three vertical levels; the quadrants/vertical levels were confirmed in the field based on size (but generally consisted of three vertical levels of approximately 0-5 feet, 5-10 feet, and 10-15 feet pending total height/width of each 500 cy quadrant); three discrete samples were collected from each individual quadrant/level (12 discrete samples total per 500 cy) to be combined for one composite sample for laboratory analysis.
- Atlas collected a total of eight composite and duplicate stockpile samples on May 10, 2023, that were submitted VOC, SVOCs, PCB and 10 Michigan Metals analyses in accordance with EGLE-approved methanol preservation protocols.

Soil Gas Sampling

- On August 11, 2023, seven (7) soil gas points (SG-01 through SG-07) were installed outside/surrounding the on-site newly constructed recreation building in areas of grass/landscape. The soil gas points were installed to a final depth of 4-5 feet bgs using a Geoprobe® 7822DT. The soil gas point consisted of 3.5-4 feet of ¼-inch Teflon™ tubing connected to a six-inch long stainless steel soil gas implant set at approximately 4-4.5 feet bgs. The soil gas point was fitted with a locking cap and a flush-mounted protective manhole cover. The location of soil gas points is shown on all Figures and Soil Gas Analytical Results on Figure 3.3.
- On August 16, 2023, seven (7) soil gas samples were collected from soil gas points SG-01 through SG-07 with final collection using a laboratory-provided sorbent tube container. The soil gas samples were collected using techniques outlined in the EGLE document "Guidance Document for the Vapor Intrusion Pathway" and in the laboratory provided Vapor Tube Sampling Procedures (included as Attachment 7). The samples were collected using a constructed pathway between the vapor pinpoint and the Vapor Tube (sorbent tube). The pathway was created using plastic and Tygon® tubing, as well as plastic stopcocks allowing for the control of flow direction supplied by the laboratory.
- Atlas collected a total of seven (7) soil gas samples that were submitted for Polycyclic Aromatic Hydrocarbons (PAHs) and Mercury (Hg) analyses upon request of Buildings Safety Engineering and Environmental Department, Environmental Affairs (BSEED-EA).

2023 Contaminant Summary

- **Metals**
  - Arsenic: - Exceeded Residential DCC at 148 locations.
    - Exceeded Non-Residential DCC at one location.
    - Exceeded Residential DCC at SP (N) and SP (S)
  - Cadmium: - Exceeded Residential DCC at one location
  - Lead: - Exceeded Residential DCC at 37 locations.
    - Exceeded Non-Residential DCC at 17 locations.
    - Exceeded Residential DCC at SP (N)
  - Mercury: - Exceeded Residential VIAP Levels at 114 locations.
    - Exceeded VIAP screening levels at SP (E) and SP (S).
- **PAHs**
  - Exceeded Residential DCC for one or more PAH compounds at 37 locations.
  - Exceeded Non-Residential DCC at four locations (one location exceeds for benzo(a)pyrene and dibenzo(a.h)anthracene).
  - Exceeded Residential VIAP screening levels at 59 locations.
  - Soil Gas Samples were below all laboratory detection limits at all 7 soil gas point locations.

- **Soil Gas**
  - All samples were below all laboratory detection limits.

4.3.3 Facility Contaminant Summary

The following soil contaminants of concern (COCs) that are applicable to this DCE have been identified on the Subject Property to date:

Contaminant	Maximum Concentration (µg/kg)	Location of Maximum Concentration	Part 201 Residential or Non-Residential GCC / DCC / VIAP
Soil Boring Samples			
Arsenic	100,000	SB-10 (0-2)	**Residential DCC Nonresidential DCC**
Cadmium	1,100,000	SB-58 (0-2)	**Residential DCC**
Lead	10,500,000	SB-158 (0-2)	**Residential DCC Nonresidential DCC**
Mercury	7,150	SB-118 (0-2)	**Residential VIAP**
Benzo(a)anthracene	61,200	SB-96 (0-2)	**Residential DCC**
Benzo(a)pyrene	43,500	SB-96 (0-2)	**Residential DCC Nonresidential DCC**
Benzo(b)fluoranthene	58,500	SB-96 (0-2)	**Residential DCC**
Dibenz(a,h)anthracene	8,420	SB-96 (0-2)	**Residential DCC Nonresidential DCC**
Indeno(1,2,3-cd)pyrene	24,900	SB-96 (0-2)	**Residential DCC**

Contaminant	Maximum Concentration (µg/kg)	Location of Maximum Concentration	Part 201 Residential or Non-Residential GCC / DCC / VIAP
Naphthalene	1,950	SB-33 (2-4)	**Residential VIAP**
Phenanthrene	69,500	SB-96 (0-2)	**Residential VIAP**
Stockpile Soil Samples			
Arsenic	10,300	SP (N) -6	**Residential DCC**
Lead	434,000	SP (N)-6	**Residential DCC**
Mercury	752	SP (N)-1	**Residential VIAP**
Benzo(a)pyrene	6,400	SP (N)-6	**Residential DCC**
Naphthalene	408	SP (N)-6	**Residential VIAP**
Phenanthrene	13,900	SP (N)-6	**Residential VIAP**

Notes: Only analytes for which one or more of the Part 201 Criteria are exceeded are included.
All data presented in units of micrograms per kilogram (µg/kg).
VIAP - Volatilization to Indoor Air Pathway
GCC – Generic Cleanup Criteria
DCC – Direct Contact Criteria

Maps that document all soil sampling locations and analytical results are provided in **Appendix I, Figures 1.1 through 3.3.** Soil analytical summary tables are provided in **Appendix III**. Analytical Laboratory reports are included in the Delineation of Soil-Fill Material Contamination Summary Report identified in Section 1 and are not duplicated in this DCE. It should be noted, based of soil-fill material grid sampling completed to date, the level, nature, and distribution of soil/ fill material contamination within the eastern portion of the park are expected to be similar, if not identical, to the western portion of the park fully investigated in mid-2023. Therefore, a presumptive remedy consisting of construction and installation of a Surface Protective Barrier (i.e., clean soil cap) has also been recommended for the eastern portion of the park to prevent direct human contact to the contaminated material(s). This presumptive remedy is consistent with the selected remedy recommended for the western portion of the park. A presumptive remedy is a remedy that can be implemented to mitigate unacceptable exposure at a contaminated property without the need for conducting sampling and testing activities.

5. ASSESSMENT OF APPLICABILITY OF PART 201 GENERIC CRITERIA

Atlas performed an assessment of applicability of Part 201 Generic Cleanup Criteria to determine if exposure pathways identified as complete in Section 3 above require any response activities or corrective actions for due care. The following documents were utilized for the assessment of applicability.

- Checklist for Determining if the Generic Volatilization to Indoor Air Inhalation Criteria Apply (Appendix C.1 of EGLE, Guidance Document for the Vapor Intrusions Pathway), dated May 2013; updated April 23, 2021

- Checklist for Determining if the Volatilization to Indoor Air Pathway Screening Levels Apply (Appendix C.7 of EGLE, Guidance Document for the Vapor Intrusions Pathway), dated May 2013; updated April 23, 2021

Based on the intended use of the Subject Property the Part 201 GRCC are considered to be applicable and are used as a basis for this due care evaluation, in addition based on completion of the checklists and nature of existing contamination, which is not likely to volatilize, a request for site specific volatilization to indoor air criteria, is not warranted at this time.

6. COMPLETE EXPOSURE PATHWAYS & RECOMMENDED RESPONSE ACTIVITIES

The following sections outline measures to be taken to minimize the risks to public health and the environment. The following recommendations are intended to prevent the potential exacerbation of known contaminants based on the nature and concentration of the contaminant, zoning, planned site activities, Subject Property features and characteristics.

As noted in Table 1: Exposure Pathway Evaluation found in Section 3, the direct contact pathway, soil particulate inhalation pathway, soil volatilization to ambient air, soil volatilization to indoor air pathway and groundwater-surface water interface pathways are considered complete for the Subject Property.

In the event that additional contaminants other than those identified above are discovered during planned site activities performed by the owner or owners' contractors at the Subject Property, this due care evaluation shall be modified to reflect applicable pathways.

The following sections summarize the complete exposure pathways.

6.1 Direct Contact Pathway

A person can come in contact with contaminated soils on the Subject Property (walking, playing, or working on surficial soils with or without vegetation; below surface construction or utility activities; trespassing). Based on the current soil analytical results as discussed in Section 4.3, soil impact exists on the Subject Property at concentrations that exceed Part 201 GRCC for Direct Contact. Atlas notes that delineation of the extent and distribution of the identified COCs in the soil from the historical fill at the Subject Property is not fully delineated. ***This complete pathway is an unacceptable exposure and, therefore, response activities are required.***

Atlas recommends the following response activities to address unacceptable exposures based on the planned park construction/ renovation activities at the Subject Property.

- Restrict access to work areas during the construction and renovation activities. These areas should be accessible only to authorized contractors, consultants, agents, or employees of the City of Detroit. Access restrictions will include a secure 6-foot-high vinyl-paneled fencing and/or locked gated access with proper signage.
- Install silt fences as needed to protect sensitive areas (a silt fence detail drawing is included in **Appendix II, Drawing Number C-9.0**).
- Atlas has proposed locations to collect composite samples for Toxicity Characteristic Leaching Procedure (TCLP) analysis in preparation for future soil disposal/waste characterization. Atlas will submit six (6) composite soil/ fill materials samples to be analyzed for TCLP for one or more of the following COCs: VOCs, SVOCs, and/or Michigan 10 Metals** as well as total PCBs using U.S. EPA-approved methods. Atlas will review and request the laboratory to analyze a minimum of 6 samples/composite from locations with the highest concentrations across the western portion of the Subject Property from the 0-2' interval as this is most likely the soil that may be removed as part of remedial/due care obligations. Additional composite samples may need to be collected from the eastern portion of the Subject Property. *****Note: Atlas and Pace recommend analyzing the samples for TCLP for Resource Conservation and Recovery Act (RCRA) 8 Metals as that is a common request for disposal facilities. This task may***

be revised pending discussion with disposal location (landfill) to ensure proper characterization is completed prior to site remediation and soil disposal.

- The following list includes the breakdown of proposed TCLP composite sampling:

  The following samples are considered for composite TCLP analysis from the 0-2 ft sample intervals. These TCLP sampling groups were based on general similar locations across the site in order to assess general portions of the site for future soil removal.

  Selection Criteria: highest concentrations (all exceeding non-residential direct contact, those exceeding 20X TCLP level, then grouped according to site location. The sampling protocols/locations do not include all of lead samples that were exceeding 20X TCLP level (i.e., lead above 100 ppm), however, previous sampling experience has shown that lead is rarely hazardous at 400 ppm or less.

  - **TCLP Group 1:**
    - **Primary**: SB-102, SB-103, SB-119, SB-120, SB-121, SB-122
    - Secondary (if needed for volume): SB-123
  - **TCLP Group 2:**
    - Primary: SB-105, SB-116, SB-117, SB-118
    - Secondary (if needed for volume): SB-104, SB-106, SB-107,
  - **TCLP Group 3:**
    - Primary: SB-96, SB-97, SB-98, SB-109, SB-110, SB-113
    - Secondary (if needed for volume): SB-111, SB-112, SB-114
  - **TCLP Group 4:**
    - Primary: SB-71, SB-72, SB-73, SB-76, SB-83, SB-85, SB-157, SB-158
    - Secondary: SB-84, SB-74, SB-75, SB-81
  - **TCLP Group 5:**
    - Primary: SB-23, SB-38, SB-39, SB-40
    - Secondary: SB-17, SB-18, SB-19, SB-22, SB-24, SB-41
  - **TCLP Group 6:**
    - Primary: SB-9, SB-10, SB-58, SB-146
    - Secondary: SB-8, SB-11, SB-57, SB-30. SB-31, SB-32, SB-33

- Minimize relocation of impacted soil via dust and soil erosion via best management practices, as needed, including but not limited to Soil Erosion Sedimentation Control SESC) Measures and covering stockpiled impacted soils during rain events to prevent leaching and surface run-off of potentially impacted water.
- Stockpiled soil generated during construction activities that will remain on the Subject property for final use in all recreation areas and/or identified areas of impact above DCC should be capped and/or covered with clean soil. Confirmatory soil sampling/analysis of any site soil to be reused as surface and/or topsoil for final grade is recommended.
- Soil characterization in accordance with applicable landfill protocols should be performed prior to any offsite soil disposal.
- Monitor for relocation of impacted soils via dust (offsite and/or out of construction area) by implementing perimeter dust monitoring (a dust monitoring and personal air monitoring plan will be submitted under separate cover).
- In the event that water accumulates in excavations and requires removal to facilitate the completion of a given subsurface construction activity, the groundwater should be sampled for waste characterization to determine the appropriate disposal requirements.

- Removal of soil adhered to demolition debris, site equipment and trucks prior to transporting off-site (cleaning tires/tracks, gravel or other tracking mat, decontamination methods).
- Mitigate dust/debris from becoming airborne by utilizing standard wet methods (when safely feasible) to minimize dust during demolition.
- Provide a protective surface barrier (i.e., soil cap) of clean backfill material over existing contamination following removal of all existing vegetation, including trees, structures, and paved parking areas.
- Avoid direct contact with soil (on-site workers should wear gloves, clean soil/dust from boots and/or clothing and wash hands prior to leaving the site).
- Construction planning should include SESC measures to prevent movement of materials. Infiltration of precipitation through stockpiled contaminated soil should also be minimized, and any infiltrated water should be kept from going offsite and/or into stormwater basins and the one site bio swales.
- Require that a Competent Person and Supervisor in conformance with OSHA 29 CFR 1910.120 be onsite or readily accessible during work activities. Contractors will be responsible for ensuring workers have the appropriate level of hazard awareness training, which may include up to 40-Hour HAZWOPER certification.
- Require onsite construction companies and associated workers to have a Site-Specific Health & Safety Plan (SSHASP), in conformance with all applicable OSHA and MIOSHA requirements and regulations, requiring a negative exposure assessment for each identified bio-accumulative compound greater than the residential cleanup criteria and/or wear appropriate Personal Protective Equipment (PPE), when necessary, including but limited to steel-toed boots, long pants, gloves, safety glasses or safety goggles.
- Disclose this DCE to any contractors, tenants, relevant third parties (e.g., utility companies), and easement holders that perform activities at the Subject Property that may result in exposure to contaminants.
- Provide written and documented notifications to all construction workers, subcontractors, utility/maintenance workers, operators and other personnel operating onsite.
- Maintain a record of all notices provided to entities and maintain these records throughout ownership and/or operation of the Subject Property.
- Implement the proposed remedial activities in a manner consistent with this plan.

6.2 Soil Particulate Inhalation Pathway

A person can inhale ambient air particles from substances present in soil (with or without vegetation) via wind erosion of contaminated soils and vehicle traffic. Based on the soil analytical results contamination was not detected above applicable Part 201 GRCC and the contaminants are not likely to volatilize. *This complete pathway is not an unacceptable exposure and, therefore, no response activities are required.* Atlas, however, does suggest common construction practices of dust/erosion mitigation, construction traffic/soil removal and post construction vegetative cover to minimize dispersion of soil.

6.3 Soil Volatilization to Ambient Air Pathway

A person can inhale ambient air that contains vapors from volatile substances present in soil. Based on the soil analytical results contamination was not detected above applicable Part 201 GRCC, and the contaminants identified are not likely to volatilize. *This complete pathway is not an unacceptable exposure and, therefore, no response activities are required*.

6.4 Volatilization to Indoor Air Pathway

A person may inhale substances in indoor air from volatile substances present in soil or groundwater that may volatilize into buildings present on the Subject Property. Based on the soil and groundwater analytical results contamination (for volatile substances) was not detected above applicable Part 201 GRCC and the contaminants identified are not likely to volatilize. *This complete pathway is not an unacceptable exposure and, therefore, no response activities are required at this time*. Note, the need for conducting additional vapor intrusion assessments to evaluate existing structures or new structures to be constructed will be assessed, if warranted, as the planned park construction/ renovation work progresses.

6.5 Groundwater-Surface Water Interface Pathway

A person may come in contact with surface water where groundwater is venting to the surface water with contaminants that would present human exposure concerns (e.g. pH exceedances). There is no surface water body on the Subject Property; however, the Detroit River is immediately south. Based on the soil and groundwater analytical results contamination was detected at limited locations above applicable Part 201 GRCC. Atlas notes that although several soil sample locations may exceed Groundwater Surface Water Interface Protection Criteria (GSIPC), and the pathway is complete, there is limited risk as the area along the river/canal contains metal sheet piling and the bioswale areas were excavated and replaced with clean fill and aggregate. *This complete pathway is not an unacceptable exposure and therefore no response activities are required at this time*.

7. DOCUMENTATION OF COMPLIANCE WITH DUE CARE OBLIGATIONS

A person who is subject to Section 20107a of the act shall maintain the documentation of compliance with due care obligations and, upon request, shall provide the documentation to EGLE. The following sections explain the elements of due care obligations and how to comply based on current property use as described in Section 2.3 above. This DCE is based on current/proposed Subject Property use and is meant to be a working document. Atlas notes that as site conditions and Subject Property use change, the owner or operator must re-evaluate due care compliance and maintain appropriate records documenting compliance with due care obligations. This document is not intended to represent a DDCC for submission to and approval by EGLE.

Atlas recommends the city maintain the following documentation and/or Operation Maintenance & Monitoring documentation for the response activities described in §6.1 to ensure compliance based on the complete exposure pathways identified in this DCE:

- Record of the as-built construction and installation of the recommended Surface Protective Barrier (i.e., clean soil cap) to be placed across the entire park property. Documentation supporting use of clean fill material to construct/ install the Surface Protective Barrier. The documentation must include detailed description of all site activities completed, volume/ quantity of material(s) used, scaled-site plans, color photographs and photographic measurement documentation.
- Implementation of inspection program for the vegetative cover or any paved surfaces.
- Records of Inspection and Maintenance of Protective Barrier. Documented with field forms and photographs.
- Records of installation, inspection, and repairs of restricted access areas.
- Maintain disposal records for all material moved off-site or any soil relocated at the Subject Property.
- Maintain records of all applicable permits, required inspections as noted in any permits, documentation of proper soil handling (including removal of soil from construction debris, vehicles/equipment, and workers prior to leaving the Subject Property).
- A copy of this Due Care Evaluation should be provided to all on-site workers and acknowledgement of notice/understanding documented with signatures. Reference **Appendix IV** for Due Care Acknowledgement form.
- Contractors should prepare and provide to the city a SSHASP as required under applicable regulations (MIOSHA, OSHA, etc.) that will address measures to protect workers during demolition activities. The SSHASP will be revised as needed based on current site conditions.

8. DEMONSTRATION OF COMPLIANCE WITH DUE CARE OBLIGATIONS

The following sections discuss the due care obligations that will be employed at the Subject Property in addition to the planned response activities discussed in §6.1 to ensure compliance with NREPA Section 20107a.

8.1 Exacerbation

Undertaking measures to prevent exacerbation of existing contamination. In the event subsurface construction is contemplated at the Subject Property, the owner/operator should undertake measures to minimize the risks to human health and the environment, including properly managing impacted soil or groundwater.

As described above, proposed site activities include completing various construction and renovation activities throughout the Subject Property, including demolition/ removal of existing structures and constructing new amenities and improvements as noted in the site plans developed for park construction and renovation. The following response activities described in §6.1 shall be implemented to demonstrate that the existing impact is not being exacerbated:

- Avoid direct contact with soil (on-site workers should wear gloves, clean soil/dust from boots and/or clothing and wash hands prior to leaving the site).
- Restrict access to the Subject Property. The Property should be accessible only to authorized contractors, consultants, agents, or employees of the City of Detroit. Access restrictions should include secure 6-foot-high fencing and/or locked gated access with proper signage restricting access.
- Maintain all soil and groundwater on the Subject Property. Avoid transportation/re-location of soil from one area of the Subject Property to another without conducting the appropriate soil sampling and characterization testing.
- Removal of soil adhered to demolition debris, site equipment and trucks prior to transporting off-site (cleaning tires/tracks, gravel or other tracking mat, decontamination methods).
- Mitigate dust/debris from becoming airborne by utilizing standard wet methods to minimize dust during planned demolition/ construction/ renovation activities.
- Install silt fences as needed to protect sensitive areas (A silt fence detail drawing is included in **Appendix II, Drawing Number C-9.0**).

Any abandoned or discarded containers (i.e. unregulated USTs, drums, etc.) that are discovered, although not anticipated, during site activities should be appropriately characterized and removed. Any abandoned or discarded containers that are discovered should not be disturbed and any activities that could result in damage to buried containers should be ceased. Construction activities should not resume until the abandoned or discarded container(s) are properly removed. Notification to EGLE is required for any abandoned or discarded containers and non-regulated underground storage tanks per Rule 299.51015(1); EGLE form EQP 4476 may be used for this purpose.

Groundwater accumulating within excavations, if encountered, should be properly characterized, and appropriately handled and disposed. The pumping of groundwater from an open excavation onto the ground should be strictly prohibited unless the water is treated and/or properly permitted.

All excavated material shall be field screened (via visual observations and/or PID screening) and properly characterized if any soil is transported off-site. Any soil relocation on the Subject Property shall be documented with detailed description of site activities, appropriate sampling/ characterization, scaled-site plans, and location/ extent of soil relocation. The city shall maintain documentation of appropriate screening, characterization, and disposal to comply with due care obligations.

8.2 Mitigate or Prevent Unacceptable Exposures

Exercising due care by undertaking response activities to mitigate unacceptable exposure to hazardous substances, mitigate fire and explosion hazards due to hazardous substances, and allow for the intended use of the Subject Property in a manner that protects health and safety. Proposed Park construction and renovation activities include completing various construction and renovation activities throughout the Subject Property, including demolition/ removal of existing structures and constructing new amenities and improvements as noted in the site plans developed for park construction and renovation. The following response activities described in §6.1 shall be implemented to demonstrate that the unacceptable exposures have been mitigated or prevented.

- Provide written and documented notifications to all construction workers, utility maintenance workers, operators and/or visitors to the Subject Property regarding the soil contamination.
- Avoid direct contact with soil (on-site workers should wear gloves, clean soil/dust from boots and/or clothing and wash hands prior to leaving the site).
- Restrict access to the Subject Property. The Property should be accessible only to authorized contractors, consultants, agents, or employees of the City of Detroit. Access restrictions should include secure 6-foot-high fencing and/or locked gated access with proper signage restricting access.
- Maintain all soil and groundwater on the site. Avoid transportation/re-location of soil from one area of the Subject Property without conducting the appropriate soil sampling and characterization testing.
- Removal of soil adhered to demolition debris, site equipment and trucks prior to transporting off-site (cleaning tires/tracks, gravel or other tracking mat, decontamination methods).
- Mitigate dust/debris from becoming airborne by utilizing standard wet methods to minimize dust during planned demolition/ construction/ renovation activities.
- The city shall construct and install a surface protective barrier (i.e., soil cap) of clean backfill over existing contamination to mitigate unacceptable exposure following removal of all existing vegetation, including trees, and demolition/ removal of existing improvements and structures (per the park construction/ renovation site plans).

8.2.1 Demonstration of Due Care Applicable with Current/Proposed Use

As part of the documentation for compliance with Section 20107a(1)(b) there must be compliance with Rule 1005, Rule 1009, Rule 1011, Rule 1013(6), Rule 1015, Rule 1107, and Rule 1019 with regards to the conditions at the Subject Property. Based on applicable conditions and provided proposed development plans as discussed in section 2 Detail Property Information, the following rules apply to the Subject Property during site activities to be completed:

1) Best Management Practices (BMP) will be utilized for the storage, usage and disposal of lubricants, coolants, cleaning supplies, and precautions will be taken to prevent spills, overfills or material releases. The BMP utilized at the Subject Property will be properly documented and will include, but is not limited to, the following:

   - o Containers will be kept capped, labeled, and stored in dedicated areas inside the building on impervious surfaces void of drains or other potential subsurface migration pathways.
   - o Secondary containment may be used if needed.
   - o Maintain inventory of safety data sheets.
   - o Implement strict inventory control measures.

   Other laws and regulations in addition to Part 201 that may be relevant to the management of hazardous substances include, but are not limited to, the following:

   (a) Part 55 of the act (air pollution control).

   (b) Part 111 of the act (hazardous waste management).

   (c) Part 115 of the act (solid waste management).

   (d) Part 211 of the act (underground storage tank regulation).

   (e) Part 213 of the act (leaking underground storage tanks).

   (f) Part 615 of the act (supervisor of wells).

   (g) Act No. 207 of the Public Acts of 1941, as amended, being §29.1 et seq. of the Michigan Compiled Laws and known as the fire protection code.

   (h) The toxic substances control act, 15 U.S.C. §2601 et seq.

   (i) The resource conservation and recovery act, 42 U.S.C. §6901 et seq.

   (j) Rules and regulations promulgated under the laws listed in subdivisions (a) to (i) of rule 299.51005.

2) Any contractor who does work (conducts activities) on the Subject Property should be notified of the conditions (impacted soil) that are relevant to the activities prior to initiating any site work.

8.3 Reasonable Precautions

Take reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions. The location of contamination identified to date, the existing surface cover, and the fact that groundwater will not be used is believed sufficient in the prevention of reasonably foreseeable acts or omissions of a third party at this time. The city should notify all on-site contractors of the presence of the soil and groundwater impacts during park construction and renovation activities. Reference **Appendix IV** for Due Care Acknowledgement form.

8.4 Response Activities, Access, and Restrictions by Others

At the time of this report, no on-going response activities, land use restrictions, or resource restrictions are known to exist at the Subject Property. Atlas notes that delineation of the extent and distribution of lead and benzo(a)pyrene in the soil from the historical fill at the Subject Property is not fully delineated. Atlas recommends the property owner/operator comply with 20107a due

care obligations during their ownership; however, the following apply to DDD during planned activities:

- Maintain all soil and groundwater on the site. Avoid transportation/re-location of soil from one area of the Subject Property to another without conducting the appropriate soil sampling and characterization testing.
- Maintain documentation of appropriate screening, characterization, and disposal of all soil or groundwater encountered during park construction and renovation activities.
- Maintain documentation of applicable notifications to EGLE or others during construction activities.

9. LIMITATIONS

This Due Care Evaluation has been developed in consideration of Part 201 and was restricted to observations made during the aforementioned Phase I ESA which included reconnaissance of the Subject Property, observations of adjoining properties, records review, interviews, and research into its history and the results of the Phase II ESA, Delineation Assessment and Delineation of Soil-Fill Material Contamination. This Due Care Evaluation is not intended to be a regulatory compliance audit. Sketches and maps used in this report are included to aid the visual understanding by the reader and should not be considered surveys or engineering studies, unless otherwise indicated or required in association with Part 201. In preparing this report, Atlas has relied upon the aforementioned Phase I ESA, Phase II ESA, Delineation Assessment, and Delineation of Soil-Fill Material Contamination. Atlas did not detect any inconsistency or omission of a nature that might call into question the validity of any information obtained during the performance of these assessments. To the extent that the conclusions in this report are based in whole or in part on such information, they are contingent on its validity.

No Due Care Evaluation can wholly eliminate uncertainty regarding the potential for environmental impacts concerning a Subject Property. Performance of this Due Care Evaluation is intended to reduce, but not eliminate, such uncertainty recognizing the limits of time and cost.

Atlas represents that, within the limitations of the agreed upon scope of services, this work has been undertaken and performed in a professional manner, in accordance with generally accepted industry practices, and using the degree of skill and care ordinarily exercised by reputable environmental consultants under similar circumstances and locations. No other warranty, expressed or implied, is made. Specifically, Atlas does not and cannot represent that the property contains no hazardous material, oil, or other latent condition beyond that identified by Atlas during the work performed.

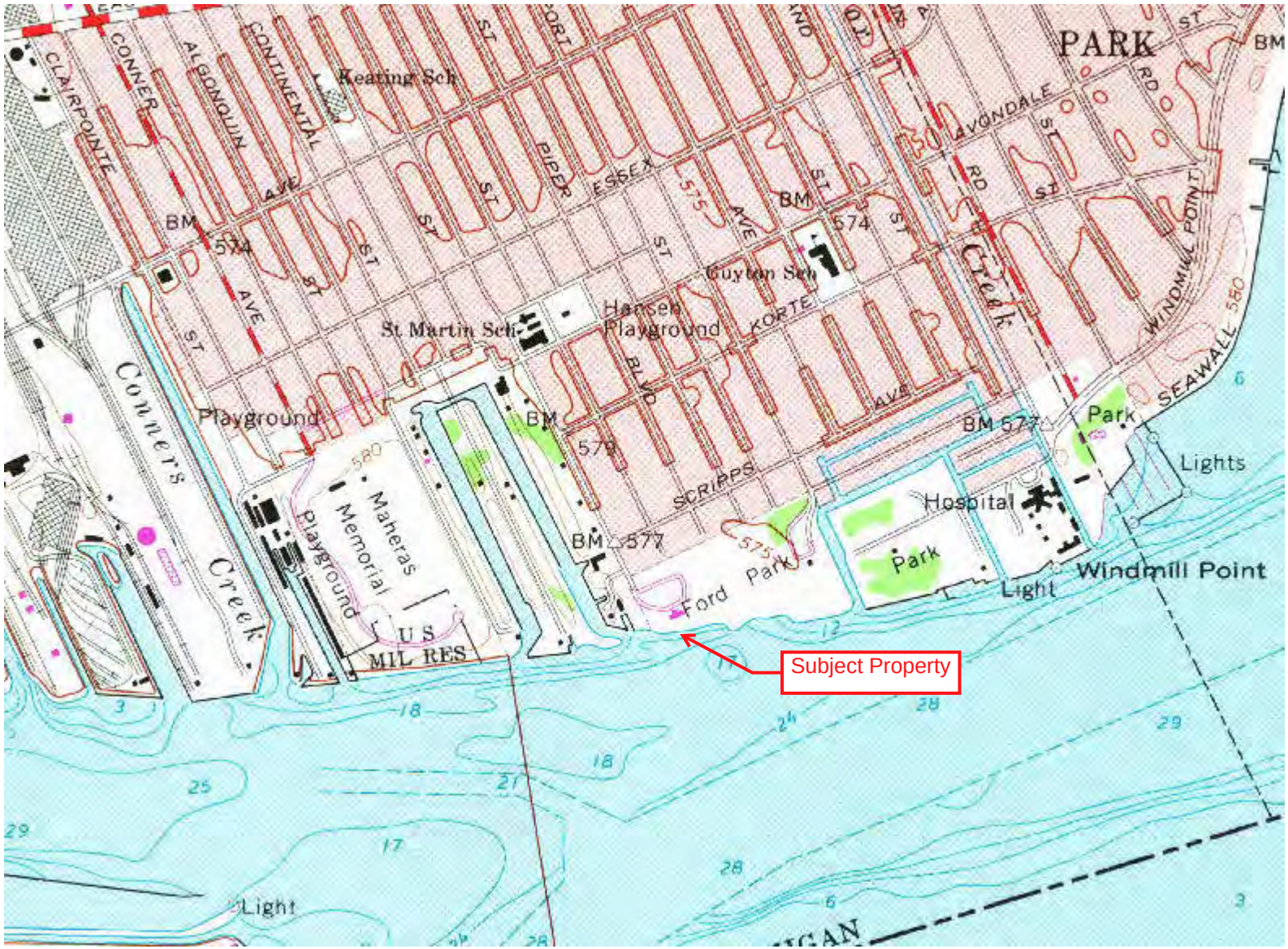
10. SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

This Due Care Evaluation was prepared by James Bresko and reviewed by Joshua Schuyler.

James Bresko
Senior Project Manager

Joshua Schuyler
Operations Manager, Michigan

APPENDIX I
FIGURES



Source: USGS Topographic Map 7.5 Minute Belle Isle , Michigan Quadrangle dated 1968, photorevised 1981

ATLAS

Subject Property Location Map
Figure A

Lenox Center Property
100 Lenox Street
Detroit, Michigan

PROJECT NO.: 188BS23244

DRAWN BY: AJT

N

A.B. FORD PARK MASTER PLAN

ATLAS

AB FORD MASTER PLAN RENDERING

CITY OF DETROIT 100 LENOX STREET DETROIT, WAYNE COUNTY, MICHIGAN

Project Number: 188BS23244	
Date: 08/18/2023	
Drn. By: DH	Ckd. By: JS
Scale: AS SHOWN	
Figure: B	

METALS SOIL RESULTS - 0-2 FEET INTERVAL
DIRECT CONTACT EXCEEDANCES

CITY OF DETROIT 100 LENOX STREET DETROIT, WAYNE COUNTY, MICHIGAN

LEGEND:

- SG-1 — SOIL GAS MONITORING POINT (Point Identification)
- SB-1 — SOIL BORING (Boring Identification)
- GP-1 — PREVIOUS SOIL BORING (Boring Identification)
- SP-N — STOCKPILE LOCATION (Pile Identification)
- SITE PROPERTY LINE
- PARCEL LINE
- FENCE
- OVERHEAD ELECTRICAL
- GAS LINE
- ELECTRICAL UNDERGROUND
- FIBER OPTIC
- WATER LINE
- ELECTRIC METERS
- FIRE HYDRANT
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- RADAR TOWER
- CATCH BASIN
- METALS EXCEEDING RESIDENTIAL DIRECT CONTACT CRITERIA
- METALS EXCEEDING NONRESIDENTIAL DIRECT CONTACT CRITERIA

NOTE:
SURVEY WAS PERFORMED BY CORE LAND CONSULTING, APRIL 10-13, 2023.

N

0 25 50 75 100

SCALE: 1" = 100'

Project Number:	188BS23244
Date:	08/18/2023
Drn. By:	DH
Ckd. By:	JS
Scale:	AS SHOWN
Figure:	1.1

H:\202311 OTHER OFFICES\MICHIGAN\CITY OF DETROIT\188BS23244-METALS1.1.DWG, FIG1.1

METALS SOIL RESULTS - 2-4 FEET INTERVAL
DIRECT CONTACT EXCEEDANCES

CITY OF DETROIT 100 LENOX STREET DETROIT, WAYNE COUNTY, MICHIGAN

LEGEND:

- SG-1 — SOIL GAS MONITORING POINT (Point Identification)
- SB-1 — SOIL BORING (Boring Identification)
- GP-1 — PREVIOUS SOIL BORING (Boring Identification)
- SP-N — STOCKPILE LOCATION (Pile Identification)
- SITE PROPERTY LINE
- PARCEL LINE
- FENCE
- OVERHEAD ELECTRICAL
- GAS LINE
- ELECTRICAL UNDERGROUND
- FIBER OPTIC
- WATER LINE
- ELECTRIC METERS
- FIRE HYDRANT
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- RADAR TOWER
- CATCH BASIN
- METALS EXCEEDING RESIDENTIAL DIRECT CONTACT CRITERIA
- METALS EXCEEDING NONRESIDENTIAL DIRECT CONTACT CRITERIA

NOTE:
SURVEY WAS PERFORMED BY CORE LAND CONSULTING, APRIL 10-13, 2023.

Project Number:	188BS23244
Date:	08/18/2023
Drn. By:	DH
Ckd. By:	JS
Scale:	AS SHOWN
Figure:	1.2

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0 25 50 75 100

SCALE: 1" = 100'

H:\202311 OTHER OFFICES\MICHIGAN\CITY OF DETROIT\188BS23244-METALS1.2.DWG, FIG1.2

ATLAS

METALS SOIL RESULTS - 2022 GP BORINGS
DIRECT CONTACT EXCEEDANCES

CITY OF DETROIT 100 LENOX STREET DETROIT, WAYNE COUNTY, MICHIGAN

Project Number: 188BS23244	
Date: 08/18/2023	
Drn. By: DH	Ckd. By: JS
Scale: AS SHOWN	
Figure: 1.3	

H:\2023\1 OTHER OFFICES\MICHIGAN\CITY OF DETROIT\188BS23244-METALS1.3.DWG, FIG1.3

ATLAS

METALS (MERCURY) SOIL RESULTS VIAP EXCEEDANCES

CITY OF DETROIT 100 LENOX STREET DETROIT, WAYNE COUNTY, MICHIGAN

Project Number:	188BS23244
Date:	08/18/2023
Drn. By: DH	Ckd. By: JS
Scale:	AS SHOWN
Figure:	1.4

H:\2023\1 OTHER OFFICES\MICHIGAN\CITY OF DETROIT\188BS23244-METALS1.4.DWG, FIG1.4

PAHs SOIL RESULTS - 0-2 FEET INTERVAL
DIRECT CONTACT EXCEEDANCES
CITY OF DETROIT 100 LENOX STREET DETROIT, WAYNE COUNTY, MICHIGAN

Project Number:	188BS23244
Date:	08/18/2023
Drn. By:	DH
Ckd. By:	JS
Scale:	AS SHOWN
Figure:	2.1

H:\202311 OTHER OFFICES\MICHIGAN\CITY OF DETROIT\188BS23244-PAH2.1.DWG, FIG2.1

PAHs SOIL RESULTS - 2-4 FEET INTERVAL
DIRECT CONTACT EXCEEDANCES

CITY OF DETROIT 100 LENOX STREET DETROIT, WAYNE COUNTY, MICHIGAN

Project Number:	188BS23244
Date:	08/18/2023
Drn. By:	DH
Ckd. By:	JS
Scale:	AS SHOWN
Figure:	2.2

H:\202311 OTHER OFFICES\MICHIGAN\CITY OF DETROIT\188BS23244-PAH2.2.DWG, FIG2.2

ATLAS

PAHs SOIL RESULTS - 2022 GP BORINGS
DIRECT CONTACT EXCEEDANCES

CITY OF DETROIT100 LENOX STREETDETROIT, WAYNE COUNTY, MICHIGAN

Project Number:	188BS23244
Date:	08/18/2023
Drn. By:	DH
Ckd. By:	JS
Scale:	AS SHOWN
Figure:	2.3

H:\2023\1 OTHER OFFICES\MICHIGAN\CITY OF DETROIT\188BS23244-PAH2.3.DWG, FIG2.3

ATLAS

PAHs SOIL RESULTS VIAP EXCEEDANCES

CITY OF DETROIT100 LENOX STREETDETROIT, WAYNE COUNTY, MICHIGAN

Project Number: 188BS23244	
Date: 08/18/2023	
Drn. By: DH	Ckd. By: JS
Scale: AS SHOWN	
Figure: 2.4	

H:\20231\ OTHER OFFICES\MICHIGAN\CITY OF DETROIT\188BS23244-PAH2.4.DWG, FIG2.4

LEGEND:

- SG-1 — SOIL GAS MONITORING POINT (Point Identification)
- SB-1 — SOIL BORING (Boring Identification)
- GP-1 — PREVIOUS SOIL BORING (Boring Identification)
- SP-N — STOCKPILE LOCATION (Pile Identification)
- SITE PROPERTY LINE
- PARCEL LINE
- FENCE
- OVERHEAD ELECTRICAL
- GAS LINE
- ELECTRICAL UNDERGROUND
- FIBER OPTIC
- WATER LINE
- ELECTRIC METERS
- FIRE HYDRANT
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- RADAR TOWER
- CATCH BASIN
- PAHs AND/OR METALS EXCEEDING RESIDENTIAL DIRECT CONTACT CRITERIA
- PAHs AND/OR METALS EXCEEDING NONRESIDENTIAL DIRECT CONTACT CRITERIA

NOTE:
SURVEY WAS PERFORMED BY CORE LAND CONSULTING, APRIL 10-13, 2023.

N

0 25 50 75 100
SCALE: 1" = 100'

SOIL ANALYTICAL RESULTS SUMMARY DIRECT CONTACT EXCEEDANCES

CITY OF DETROIT
100 LENOX STREET
DETROIT, WAYNE COUNTY, MICHIGAN

Project Number:	188BS23244
Date:	08/18/2023
Drn. By:	DH
Ckd. By:	JS
Scale:	AS SHOWN
Figure:	3.1

H:\202311 OTHER OFFICES\MICHIGAN\CITY OF DETROIT\188BS23244-DCE.OVER.DWG, FIG3.1

METALS (MERCURY) SOIL ANALYTICAL RESULTS SUMMARY - VIAP EXCEEDANCES

CITY OF DETROIT
100 LENOX STREET
DETROIT, WAYNE COUNTY, MICHIGAN

Project Number:	188BS23244
Date:	08/18/2023
Drn. By:	DH
Ckd. By:	JS
Scale:	AS SHOWN
Figure:	3.2

H:\2023\1 OTHER OFFICES\MICHIGAN\CITY OF DETROIT\188BS23244-VIAP.DWG, FIG3.2

LEGEND:

- SG-1 — SOIL GAS MONITORING POINT (Point Identification)
- SB-1 — SOIL BORING (Boring Identification)
- GP-1 — PREVIOUS SOIL BORING (Boring Identification)
- SP-N — STOCKPILE LOCATION (Pile Identification)
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- PARCEL LINE
- FENCE
- OVERHEAD ELECTRICAL
- GAS LINE
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- FIBER OPTIC
- WATER LINE
- ELECTRIC METERS
- FIRE HYDRANT
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- RADAR TOWER
- CATCH BASIN

Sample ID	
Sample Date	Sample Depth (ft.)
Mercury	Hg
Polynucliear Aromatics	PNAs

NOTE:
SURVEY WAS PERFORMED BY CORE LAND CONSULTING, APRIL 10-13, 2023.
SOIL GAS RESULTS ARE MEASURED IN MICROGRAMS PER CUBIC METER (µg/m^3).
SOIL GAS RESULTS WERE BELOW LABORATORY DETECTION LIMITS.
ND = NOT DETECTED.

SG-1	
8-13-2023	4'
Hg	ND
PNAs	ND

SG-2	
8-13-2023	4'
Hg	ND
PNAs	ND

SG-3	
8-13-2023	4'
Hg	ND
PNAs	ND

SG-4	
8-13-2023	4'
Hg	ND
PNAs	ND

SG-5	
8-13-2023	4'
Hg	ND
PNAs	ND

SG-6	
8-13-2023	4'
Hg	ND
PNAs	ND

SG-7	
8-13-2023	4'
Hg	ND
PNAs	ND

N

0 25 50 75 100

SCALE: 1" = 100'

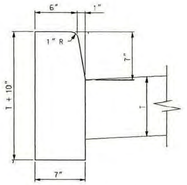
SOIL GAS ANALYTICAL RESULTS SUMMARY (MERCURY AND PAHs)

CITY OF DETROIT
100 LENOX STREET
DETROIT, WAYNE COUNTY, MICHIGAN

Project Number:	188BS23244
Date:	08/29/2023
Drn. By: DH	Ckd. By: JS
Scale:	AS SHOWN
Figure:	3.3

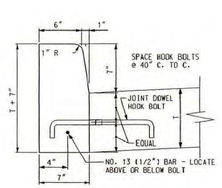
H:\2023\1 OTHER OFFICES\MICHIGAN\CITY OF DETROIT\188BS23244-SG.DWG, FIG3.3

APPENDIX II
BIO SWALE DETAIL DRAWING



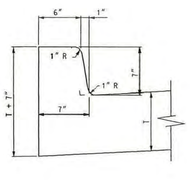
SEPARATE CURB

TYPE III



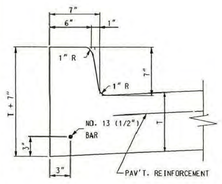
SEPARATE CURB - REINFORCED

TYPE III R



INTEGRAL CURB

TYPE III



INTEGRAL CURB - REINFORCED

TYPE III R

REVISED DATE(METRIC TO ENGLISH UNIT SYSTEM):DEC.2002

PREPARED BY BUREAU OF STREETS AND HIGHWAYS	DRAWN BY: C.K.S.M.	CHECKED BY: M.E.S.S.	APPROVED: ENGINEER OF STREETS / CITY ENGINEER	CITY OF DETROIT CITY ENGINEERING DIVISION. D.P.W. STANDARD PLAN FOR STANDARD CURB DETAILS	PLAN DATE 01/07/98	DRAWING NO. 3	DETAIL STANDARD NO. C-4380	SHEET 1 OF 4.

EXPANSION JOINTS

ALL EXPANSION JOINT PAPER SHALL EXTEND 1" BELOW THE BOTTOM OF THE THINNER OF ADJOINING PAVEMENT SECTIONS.

1. PLACE 1/2" PAPER EXPANSION JOINTS AT LOT LINES WHEN LOT LINES ARE BETWEEN 25' AND 50' APART.
2. PLACE ADDITIONAL 1/2" PAPER EXPANSION JOINTS SO THAT THE DISTANCE BETWEEN JOINTS DOES NOT EXCEED 50' WHEN LOT LINES ARE OVER 50' APART.
3. PLACE 1/2" PAPER EXPANSION JOINTS AT EVERY SECOND LOT LINE AND CONTRACTION JOINT AT INTERVENING LOT LINE WHEN LOT LINES ARE LESS THAN 25' APART.
4. PLACE 1" PAPER EXPANSION JOINTS AT CURB AND BUILDING OR PROPERTY LINE OR AT ALTERNATE POSITION (4A) AS SHOWN FOR DRIVEWAY.
5. PLACE 1" PAPER EXPANSION JOINTS AT CURB AND BUILDING OR PROPERTY LINE FOR FULL WIDTH SIDEWALK EXCEEDING 7' IN WIDTH.
6. PLACE 1" PAPER EXPANSION JOINTS AT CURB CIRCLES OR AT ALTERNATE POSITION (6A) AS SHOWN.
7. PLACE 1" PAPER EXPANSION JOINTS AT INTERSECTIONS OF SERVICE WALKS AND SIDEWALKS AND SERVICE WALKS AND CURBS.
8. PLACE 1" PAPER EXPANSION JOINTS AT MARGIN FLAGS AT CROSSWALKS.
9. PLACE 1" PAPER EXPANSION JOINTS AT ALLEY APRONS.
10. PLACE 1/2" PAPER EXPANSION JOINT BOTH SIDES OF SIDEWALK FLAG ABUTTING TREE AND ON CENTERLINE JOINT.

CONTRACTION JOINTS

10C. PLACE CONTRACTION JOINTS AT INTERVALS OF NOT LESS THAN 5' NOR MORE THAN 7' ON WALKS 5' WIDE OR WIDER, INCLUDING FULL WIDTH WALKS.

20C. PLACE CONTRACTION JOINTS AT INTERVALS OF NOT LESS THAN 4' NOR MORE THAN 7' ON WALKS 4' WIDE.

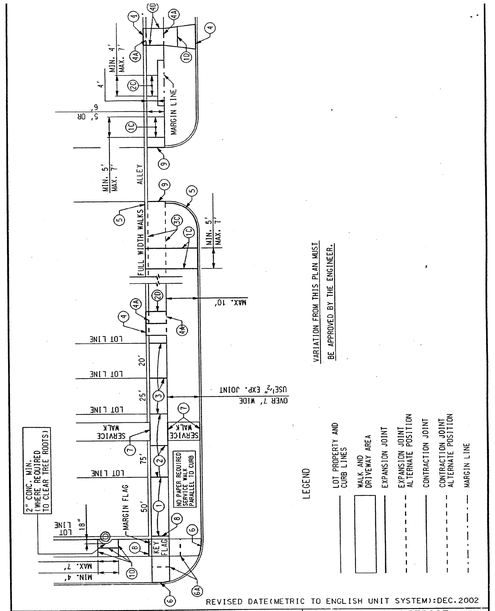
30C. PLACE CONTRACTION JOINTS AT THE MARGIN LINE ON FULL WIDTH WALKS (OPTIONAL).

DRIVEWAYS

10. PLACE CONTRACTION JOINTS IN DRIVEWAYS SO THAT NO SLAB WILL EXCEED THE DIMENSIONS OF 15' BY 15'
20. PLACE 1" PAPER EXPANSION JOINTS ON ALL SIDES OF COMMERCIAL DRIVES.
30. PLACE CONSTRUCTION OR CONTRACTION JOINT ON CENTERLINE WHEN WIDTH OF DRIVEWAY EXCEEDS 15'
40. PLACE 1/2" PAPER EXPANSION JOINTS ON BOTH SIDES OF RESIDENTIAL DRIVEWAYS. IF DRIVEWAY EDGE IS WITHIN 2 FEET OF LOT LINE, PLACE THIS EXPANSION PAPER AT PROPERTY LINE.

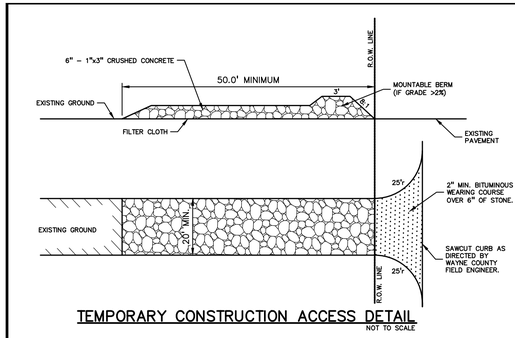
REVISED DATE(METRIC TO ENGLISH UNIT SYSTEM):DEC.2002

CITY OF DETROIT CITY ENGINEERING DIVISION. D.P.W. STANDARD PLAN FOR SIDEWALK JOINING STANDARD	PLAN DATE 01/07/98	DRAWING NO. 30	DETAIL STANDARD NO. C-4462	SHEET 2 OF 2



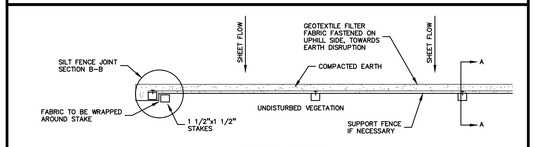
REVISED DATE(METRIC TO ENGLISH UNIT SYSTEM):DEC.2002

PREPARED BY BUREAU OF STREETS AND HIGHWAYS	DRAWN BY: rev. K.S.M.	CHECKED BY: M.F.S.	APPROVED: ENGINEER OF STREETS / CITY ENGINEER	CITY OF DETROIT CITY ENGINEERING DIVISION. D.P.W. STANDARD PLAN FOR SIDEWALK JOINTING STANDARD	PLAN DATE 01/07/98	DRAWING NO. 9	DETAIL STANDARD NO. C-4462	SHEET 1 OF 2

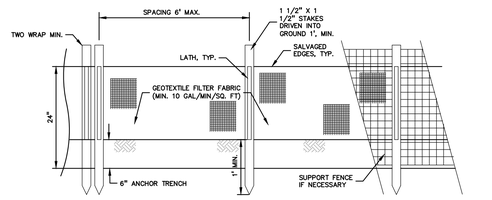


TEMPORARY CONSTRUCTION ACCESS DETAIL

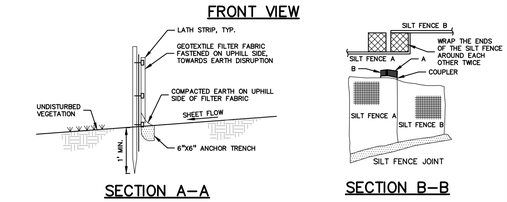
NOT TO SCALE



PLAN VIEW



FRONT VIEW

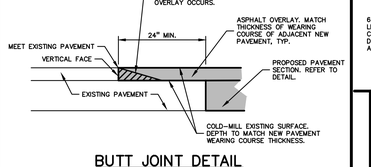


SECTION A-A

SILT FENCE DETAIL

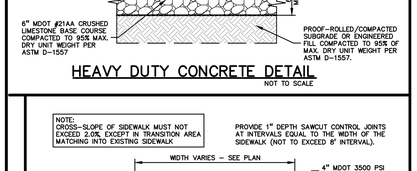
NOT TO SCALE

SECTION B-B



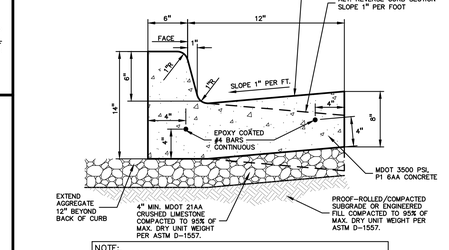
BUTT JOINT DETAIL

NOT TO SCALE



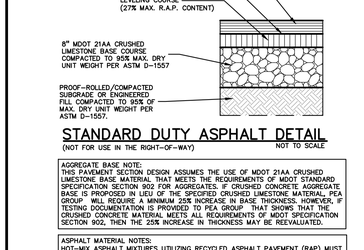
HEAVY DUTY CONCRETE DETAIL

NOT TO SCALE



18"x6" STANDARD CONCRETE CURB AND GUTTER

NOT TO SCALE



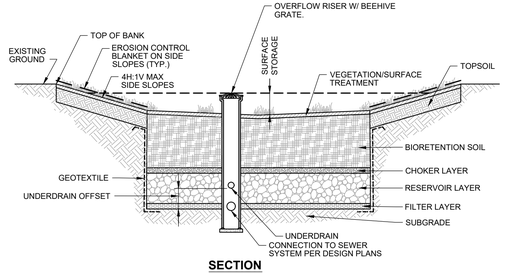
STANDARD DUTY ASPHALT DETAIL

(NOT FOR USE IN THE RIGHT-OF-WAY)

NOT TO SCALE

AGGREGATE BASE NOTE:
THIS PAVEMENT SECTION DESIGN ASSUMES THE USE OF MDOT 21AA CRUSHED LIMESTONE BASE MATERIAL THAT MEETS THE REQUIREMENTS OF MDOT STANDARD SPECIFICATION SECTION 902 FOR AGGREGATES. IF CRUSHED CONCRETE AGGREGATE BASE IS PROPOSED IN LIEU OF THE SPECIFIED CRUSHED LIMESTONE MATERIAL, PEA GROUP WILL REQUIRE A MINIMUM 25% INCREASE IN BASE THICKNESS. HOWEVER, IF TESTING DOCUMENTATION IS PROVIDED TO PEA GROUP THAT SHOWS THAT THE CRUSHED CONCRETE MATERIAL MEETS ALL REQUIREMENTS OF MDOT SPECIFICATION SECTION 902, THEN THE 25% INCREASE IN THICKNESS MAY BE REEVALUATED.

ASPHALT MATERIAL NOTES:
HOT-MIX ASPHALT MIXTURES UTILIZING RECYCLED ASPHALT PAVEMENT (RAP) MUST MEET MDOT SPECIAL PROVISION 12SPS01(E). THE BINDER GRADE FOR THIS WORK IS PG64-28. IF ASPHALT MIXES CONTAINING RAP ARE TO BE SUPPLIED FOR THIS PROJECT, THE ASPHALT BINDER MUST BE REVISED PER MDOT "TIER 1" OR "TIER 2" REQUIREMENTS (RAP CONTENT UP TO 27% MAXIMUM). TIER 3 MIXES ARE NOT ACCEPTABLE ON THIS PROJECT. AN ASPHALT MIX DESIGN FOR ALL SPECIFIED MIXES SHOULD BE FORWARDED TO PEA GROUP FOR REVIEW PRIOR TO CONSTRUCTION

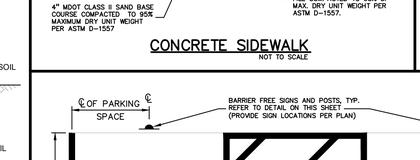


SECTION

ITEM	MATERIAL	LAYER THICKNESS
SURFACE STORAGE	6" MAX SURFACE STORAGE.	6 INCH
VEGETATION/SURFACE TREATMENT	TURF GRASS PLANTINGS.	
BIORETENTION SOIL	BIORETENTION SOIL MIX.	9 INCH
CHOKER LAYER	MDOT 34G, AASHTO #8 OR APPROVED EQUIVALENT.	3 INCH
RESERVOIR LAYER	MDOT 4AA OR 6AA, AASHTO #3, #5 OR #57 OR APPROVED EQUIVALENT.	29 INCH
FILTER LAYER	MDOT 34G, AASHTO #8 OR APPROVED EQUIVALENT.	3 INCH
UNDERDRAIN	PERFORATED PVC OR HDPE UNDERDRAIN WHEN CALLED FOR PER DESIGN PLANS. CLEANOUT AT TERMINAL ENDS DWG NO. G/S1. PIPE BEDDING AND CATCH BASIN CONNECTION DWG NO. G/S2. 4" TYP. 8" MAX PIPE DIAMETER.	6 INCH
UNDERDRAIN OFFSET	OFFSET DISTANCE UNDERDRAIN SET ABOVE THE FILTER LAYER.	0 INCHES
GEOTEXTILE	GEOTEXTILE CLASS 2, LOCATED ON SIDES OF FACILITY ONLY.	
SUBGRADE	REFER TO CITY OF DETROIT SPECIFICATIONS FOR SUBGRADE PREPARATION.	

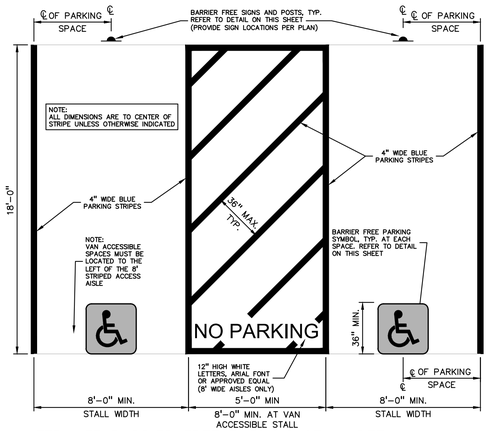
BIOSWALE DETAIL

NOT TO SCALE



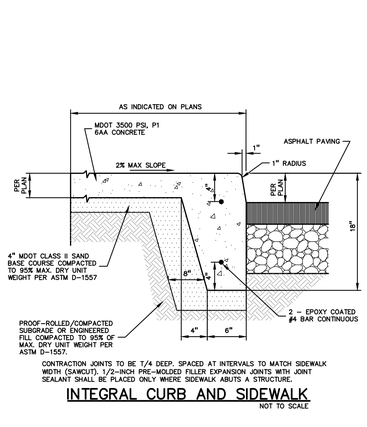
CONCRETE SIDEWALK

NOT TO SCALE



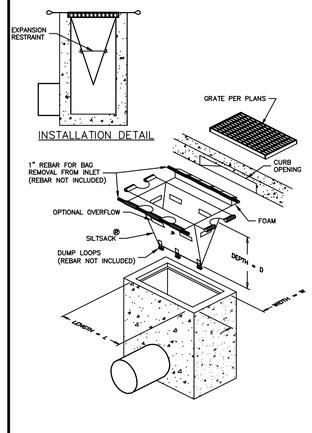
ALTERNATE BARRIER FREE PARKING STALL DETAIL

NOT TO SCALE



INTEGRAL CURB AND SIDEWALK

NOT TO SCALE



'SILTSACK' DETAIL

NOT TO SCALE

GENERAL NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF DETROIT.
2. THE CONTRACTOR MUST CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN ENGINEER, THE CONTRACTOR DOES SO AT HIS OWN RISK.
3. ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL CITY OF DETROIT INSPECTION FEES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL DURING THE PERIODS OF CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO THE JOB.
5. THE CONTRACTOR SHALL NOTIFY MISS DIG (811) AND REPRESENTATIVES OF OTHER UTILITIES IN THE VICINITY OF THE WORK A MINIMUM OF 72 HOURS PRIOR TO START OF CONSTRUCTION (EXCLUDING WEEKENDS AND HOLIDAYS) FOR LOCATION AND STAKING OF ON-SITE UTILITY LINES. IF NO NOTIFICATION IS GIVEN AND DAMAGE RESULTS, SAID DAMAGE WILL BE REPAIRED AT SOLE EXPENSE OF THE CONTRACTOR. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
6. CONTRACTOR TO VERIFY THAT THE PLANS AND SPECIFICATIONS ARE THE VERY LATEST PLANS AND SPECIFICATIONS AND FURTHERMORE, VERIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED. ALL ITEMS CONSTRUCTED BY THE CONTRACTOR PRIOR TO RECEIVING FINAL APPROVAL, HAVING TO BE ADJUSTED OR RE-DONE, SHALL BE AT THE CONTRACTORS EXPENSE. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND/OR SPECIFICATIONS, THEY SHALL SEEK CLARIFICATION IN WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
7. ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
8. MANHOLE, CATCH BASIN, GATE VALVES AND HYDRANT FINISH GRADES MUST BE CLOSELY CHECKED AND APPROVED BY THE ENGINEER BEFORE THE CONTRACTOR'S WORK IS CONSIDERED COMPLETE.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF OFF-SITE ANY TREES, BRUSH, STUMPS, TRASH OR OTHER UNWANTED DEBRIS AT THE OWNER'S DIRECTION, INCLUDING OLD BUILDING FOUNDATIONS AND FLOORS. BURNING OF TRASH, STUMPS OR OTHER DEBRIS SHALL NOT BE PERMITTED.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, CITY AND STATE SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
11. ALL EXCAVATIONS SHALL BE SLOPED, SHORED OR BRACED IN ACCORDANCE WITH MI-OSHA REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE AN ADEQUATELY CONSTRUCTED AND BRACED SHORING SYSTEM FOR EMPLOYEES WORKING IN AN EXCAVATION THAT MAY EXPOSE EMPLOYEES TO THE DANGER OF MOVING GROUND.
12. REFER TO CITY OF DETROIT STANDARD DETAIL SHEETS FOR ADDITIONAL INFORMATION.
13. CONTRACTOR TO REFER AND ADHERE TO SITE HEALTH AND SAFETY PLAN PREPARED BY AS?I DATED SEPTEMBER 26, 2022 AND ANY AND ALL DUE CARE PLANS AND REQUIREMENTS PREPARED FOR THE SITE TO BE PROVIDED BY OWNER. 2

PEA GROUP
t: 313.769.5770
www.peagroup.com

STATE OF MICHIGAN
EMIL S. BUNEK III
ENGINEER
6201058445
LICENSED PROFESSIONAL ENGINEER

NORTH

811 Know what's below. Call before you dig.

CAUTION!!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR THE DETERMINATION OF CONSTRUCTION LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

INFORM STUDIO
ADDRESS
235 E. MAIN STREET, SUITE 102B
NORTHVILLE, MICHIGAN 48167

PROJECT TITLE

LENOX CENTER AB FORD
ALFRED BRUSH FORD PARK
DETROIT, MICHIGAN 48215

REVISIONS	
-	-
2 BULLETIN 02	12.22.2022
1 REV PER EGLE	10.19.2022
REV PER FIELD COND.	08.22.2022
EGLE PERMIT	08.16.2022
ADDENDUM B	10.13.2021
ADDENDUM A	09.24.2021
D BIDS AND PERMITS	04.16.2021
C 95% OWNER REVIEW	03.22.2021
ORIGINAL ISSUE DATE: MARCH 22, 2020	

DRAWING TITLE

NOTES AND DETAILS

PEA JOB NO.	2020-0109
P.M.	BWJ
DN.	ESB
DES.	ESB

DRAWING NUMBER:

C-9.0

APPENDIX III
ANALYTICAL SUMMARY TABLES

100 Lenox Street
Detroit, Wayne County, Michigan

TABLE 1- SOIL ANALYTICAL SUMMARY			Michigan 10 Metals									
Michigan Department of Environment, Great Lakes, and Energy Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013, GSI Protection Criteria Updated June 25, 2018 and Volatilization of Indoor Air Pathway Screening levels from the EGLE Guidance Document for the Vapor Intrusion Pathway dated May 2013, Appendix D, updated September 4, 2020.			Arsenic	Barium (B)	Cadmium (B)	Chromium (Total) (B,H)	Copper (B)	Lead (B)	Mercury (Total) (B*,Z)	Selenium (B)	Silver (B)	Zinc (B)
CAS Number			7440382	7440393	7440439	7440473	7440508	7439921	7439976	7782492	7440224	7440666
Statewide Default Background Levels (µg/kg)			5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000
Residential Volatilization to Indoor Air Pathway (µg/kg)			NA	NA	NA	NA	NA	NA	50 (M) 22	NA	NA	NA
Residential Direct Contact Criteria (µg/kg)			7,600	3.7E+07	550,000	7.9E+08	2.0E+07	400,000	160,000	2.6E+06	2.5E+06	1.7E+08
Nonresidential Direct Contact Criteria (µg/kg)			37,000	1.3E+08	2,200,000	1.0E+09	7.3E+07	900,000	580,000	9.6E+06	9.0E+06	6.3E+08
SAMPLE ID	SAMPLE DEPTH (feet below grade)	SAMPLE DATE	All results are expressed in µg/kg									
GP-1	2-4 ft	4/12/2022	6,240	344,000	1,050	8,040	18,000,000	228,000	1,320	ND	464	418,000
GP-2	1-3 ft	4/12/2022	2,420	246,000	261	16,300	126,000	181,000	136	ND	124	86,800
GP-3	1-3 ft	4/12/2022	2,790	506,000	1,330	20,000	110,000	848,000	423	214	164	591,000
GP-4	7-8 ft	4/12/2022	2,630	448,000	1,800	27,200	36,800	199,000	112	ND	ND	265,000
GP-5	1-2 ft	4/12/2022	992	178,000	ND	6,710	19,200	21,700	ND	ND	ND	31,800
GP-6	1-2 ft	4/12/2022	2,700	229,000	745	13,200	45,200	145,000	168	ND	ND	120,000
GP-7	1-2 ft	4/12/2022	1,460	296,000	536	12,900	32,800	208,000	401	ND	ND	133,000
GP-8	2-4 ft	4/12/2022	4,760	3,720,000	168,000	168,000	7,660,000	3,900,000	3,730	ND	826	3,190,000
GP-9	0-1 ft	7/27/2022	NS	NS	NS	NS	NS	153,000	NS	NS	NS	NS
GP-9	2-4 ft	7/27/2022	NS	NS	NS	NS	NS	14,800	NS	NS	NS	NS
GP-9	6-7 ft	7/27/2022	NS	NS	NS	NS	NS	165,000	NS	NS	NS	NS
GP-10	0-1 ft	7/27/2022	NS	NS	NS		NS	6,020	NS	NS	NS	NS
GP-10	2-4 ft	7/27/2022	NS	NS	NS	NS	NS	1,430,000	NS	NS	NS	NS
GP-10	6-7 ft	7/27/2022	NS	NS	NS	NS	NS	19,800	NS	NS	NS	NS
GP-11	0-1 ft	7/27/2022	NS	NS	NS	NS	NS	328,000	NS	NS	NS	NS
GP-11	2-4 ft	7/27/2022	NS	NS	NS	NS	NS	4,880,000	NS	NS	NS	NS
GP-11	6-7 ft	7/27/2022	NS	NS	NS	NS	NS	895,000	NS	NS	NS	NS
GP-12	0-1 ft	7/27/2022	NS	NS	NS	NS	NS	1,340,000	NS	NS	NS	NS
GP-12	2-4 ft	7/27/2022	NS	NS	NS	NS	NS	56,700	NS	NS	NS	NS
GP-12	6-7 ft	7/27/2022	NS	NS	NS	NS	NS	91,000	NS	NS	NS	NS
GP-13	0-1 ft	7/27/2022	NS	NS	NS	NS	NS	563,000	NS	NS	NS	NS
GP-13	2-4 ft	7/27/2022	NS	NS	NS	NS	NS	309,000	NS	NS	NS	NS
GP-13	6-7 ft	7/27/2022	NS	NS	NS	NS	NS	4,920	NS	NS	NS	NS
GP-14	0-1 ft	7/27/2022	NS	NS	NS	NS	NS	13,600	NS	NS	NS	NS
GP-14	2-4 ft	7/27/2022	NS	NS	NS	NS	NS	14,300	NS	NS	NS	NS
GP-14	6-7 ft	7/27/2022	NS	NS	NS	NS	NS	672,000	NS	NS	NS	NS
SB-1 (0-2)	0-2 ft	4/24/2023	5,630	117,000	593	79,900	65,500	65,000	ND	3,590	65.0	94,600
SB-2 (0-2)	0-2 ft	4/24/2023	10,400	167,000	1,220	17,600	60,500	246,000	416	3,940	161	218,000
SB-2 (2-4)	2-4 ft	4/24/2023	14,000	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-3 (0-2)	0-2 ft	4/24/2023	5,040	55,000	343	14,500	20,300	52,300	ND	3,640	71.6	74,200
SB-4 (0-2)	0-2 ft	4/24/2023	3,690	34,600	241	11,000	13,800	32,100	ND	2,320	ND	45,600
SB-5 (0-2)	0-2 ft	4/24/2023	3,460	37,000	284	8,970	8,860	19,700	ND	2,260	ND	39,500
SB-6 (0-2)	0-2 ft	4/24/2023	8,670	112,000	550	18,200	59,500	122,000	ND	1,940	ND	176,000
SB-6 (2-4)	2-4 ft	4/24/2023	9,070	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-7 (0-2)	0-2 ft	4/24/2023	4,100	41,400	372	10,000	16,900	33,000	ND	3,620	ND	63,800
SB-8 (0-2)	0-2 ft	4/24/2023	5,850	69,300	530	14,900	21,400	42,900	ND	3,690	ND	125,000
SB-9 (0-2)	0-2 ft	4/24/2023	10,500	197,000	19,300	25,900	103,000	995,000	ND	2,100	146	327,000
SB-9 (2-4)	2-4 ft	4/24/2023	10,700	NS	NS	NS	NS	166,000	NS	NS	NS	NS
SB-10 (0-2)	0-2 ft	4/24/2023	100,000	134,000	472	21,200	57,700	128,000	370	4,450	122	139,000
SB-10 (2-4)	2-4 ft	4/24/2023	9,080	NS	NS	NS	NS	28,400	NS	NS	NS	NS
SB-11 (0-2)	0-2 ft	4/24/2023	9,870	53,100	278	17,900	22,700	68,000	ND	4,170	ND	73,300
SB-11 (2-4)	2-4 ft	4/24/2023	7,980	NS	NS	NS	NS	9,620	NS	NS	NS	NS
SB-12 (0-2)	0-2 ft	4/24/2023	3,320	34,000	303	8,040	9,350	23,400	ND	2,230	ND	43,600
SB-13 (0-2)	0-2 ft	4/24/2023	7,500	130,000	154	32,700	26,700	29,300	ND	4,340	ND	62,600
SB-14 (0-2)	0-2 ft	4/24/2023	3,150	20,700	123	13,100	5,560	5,600	ND	2,270	ND	18,400
SB-15 (0-2)	0-2 ft	4/24/2023	5,950	55,800	170	16,000	17,300	43,800	ND	2,500	ND	66,100
SB-16 (0-2)	0-2 ft	4/24/2023	3,600	25,500	169	19,600	7,480	12,100	ND	2,610	ND	29,500
SB-17 (0-2)	0-2 ft	4/24/2023	3,020	18,800	169	6,840	6,020	8,490	ND	2,720	ND	22,500
SB-18 (0-2)	0-2 ft	4/24/2023	2,580	17,900	78.8	5,710	5,090	4,830	ND	1,770	ND	15,900
SB-19 (0-2)	0-2 ft	4/25/2023	2,950	24,100	263	7,530	6,830	11,100	ND	ND	ND	52,100
SB-20 (0-2)	0-2 ft	4/25/2023	2,730	19,700	215	8,130	7,350	11,400	ND	ND	ND	31,100
SB-21 (0-2)	0-2 ft	4/25/2023	3,110	22,400	135	6,980	7,560	11,900	ND	ND	ND	26,900
SB-22 (0-2)	0-2 ft	4/25/2023	4,920	60,100	318	10,100	20,300	48,900	ND	ND	ND	93,200
SB-23 (0-2)	0-2 ft	4/25/2023	6,680	446,000	300	16,100	46,100	749,000	313	ND	ND	263,000
SB-23 (2-4)	2-4 ft	4/25/2023	NS	NS	NS	NS	NS	12,000	NS	NS	NS	NS
SB-24 (0-2)	0-2 ft	4/25/2023	8,870	28,600	242	8,900	8,510	16,000	ND	ND	ND	36,800
SB-24 (2-4)	2-4 ft	4/25/2023	17,200	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-25 (0-2)	0-2 ft	4/25/2023	4,360	42,200	532	11,400	10,600	17,700	ND	688	ND	41,800
SB-26 (0-2)	0-2 ft	4/25/2023	3,170	35,600	192	10,300	10,600	14,700	ND	ND	ND	38,500
SB-27 (0-2)	0-2 ft	4/25/2023	6,170	79,500	372	12,800	22,800	77,600	ND	766	120	84,600
SB-28 (0-2)	0-2 ft	4/25/2023	5,340	1,200,000	428	10,200	24,300	149,000	390	589	67.6	146,000
SB-29 (0-2)	0-2 ft	4/25/2023	6,480	58,100	209	21,000	27,200	30,500	ND	ND	76.3	58,400
SB-30 (0-2)	0-2 ft	4/25/2023	7,810	265,000	1,570	46,300	68,100	273,000	ND	762	100	208,000
SB-30 (2-4)	2-4 ft	4/25/2023	8,280	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-31 (0-2)	0-2 ft	4/25/2023	9,170	92,000	561	17,900	51,200	105,000	ND	919	92.7	128,000
SB-31 (2-4)	2-4 ft	4/25/2023	9,270	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-32 (0-2)	0-2 ft	4/25/2023	8,570	364,000	3,730	19,500	114,000	327,000	372	877	186	389,000
SB-32 (2-4)	2-4 ft	4/25/2023	8,280	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-33 (0-2)	0-2 ft	4/25/2023	7,470	263,000	1,100	26,800	40,900	204,000	ND	1,030	112	203,000
SB-34 (0-2)	0-2 ft	4/25/2023	7,330	205,000	816	37,600	23,900	111,000	ND	593	110	163,000
SB-35 (0-2)	0-2 ft	4/25/2023	11,900	479,000	662	79,000	31,100	289,000	ND	709	85.2	246,000
SB-35 (2-4)	2-4 ft	4/25/2023	10,800	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-36 (0-2)	0-2 ft	4/25/2023	7,140	62,500	419	15,800	19,900	47,000	ND	921	64.3	75,200
SB-37 (0-2)	0-2 ft	4/25/2023	4,430	52,400	368	13,600	16,400	31,600	ND	676	ND	60,000
SB-38 (0-2)	0-2 ft	4/25/2023	8,210	257,000	4,790	27,400	129,000	223,000	346	928	138	303,000
SB-38 (2-4)	2-4 ft	4/25/2023	6,800	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-39 (0-2)	0-2 ft	4/25/2023	7,860	137,000	2,510	20,600	83,000	207,000	278	3,570	135	208,000
SB-39 (2-4)	2-4 ft	4/25/2023	8,830	NS	NS	NS	NS	NS	NS	NS	NS	NS

100 Lenox Street
Detroit, Wayne County, Michigan

TABLE 1- SOIL ANALYTICAL SUMMARY			Michigan 10 Metals									
Michigan Department of Environment, Great Lakes, and Energy Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013, GSI Protection Criteria Updated June 25, 2018 and Volatilization of Indoor Air Pathway Screening levels from the EGLE Guidance Document for the Vapor Intrusion Pathway dated May 2013, Appendix D, updated September 4, 2020.			Arsenic	Barium (B)	Cadmium (B)	Chromium (Total) (B,H)	Copper (B)	Lead (B)	Mercury (Total) (B*,Z)	Selenium (B)	Silver (B)	Zinc (B)
CAS Number			7440382	7440393	7440439	7440473	7440508	7439921	7439976	7782492	7440224	7440666
Statewide Default Background Levels (µg/kg)			5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000
Residential Volatilization to Indoor Air Pathway (µg/kg)			NA	NA	NA	NA	NA	NA	50 (M) 22	NA	NA	NA
Residential Direct Contact Criteria (µg/kg)			7,600	3.7E+07	550,000	7.9E+08	2.0E+07	400,000	160,000	2.6E+06	2.5E+06	1.7E+08
Nonresidential Direct Contact Criteria (µg/kg)			37,000	1.3E+08	2,200,000	1.0E+09	7.3E+07	900,000	580,000	9.6E+06	9.0E+06	6.3E+08
SAMPLE ID	SAMPLE DEPTH (feet below grade)	SAMPLE DATE	All results are expressed in µg/kg									
SB-40 (0-2)	0-2 ft	4/25/2023	8,540	96,500	924	44,700	55,800	131,000	221	3,490	112	154,000
SB-41 (0-2)	0-2 ft	4/25/2023	6,720	101,000	779	15,100	48,700	96,700	ND	3,400	87.5	118,000
SB-42 (0-2)	0-2 ft	4/25/2023	11,200	73,800	496	19,600	28,500	61,600	ND	2,170	96.1	109,000
SB-42 (2-4)	2-4 ft	4/25/2023	13,700	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-43 (0-2)	0-2 ft	4/25/2023	5,930	50,700	418	10,900	14,800	28,200	ND	3,040	ND	54,800
SB-44 (0-2)	0-2 ft	4/25/2023	7,050	46,400	241	12,000	13,400	14,500	ND	2,980	ND	76,800
SB-45 (0-2)	0-2 ft	4/25/2023	3,050	19,700	129	8,880	7,110	9,810	ND	1,540	ND	25,800
SB-46 (0-2)	0-2 ft	4/25/2023	7,890	467,000	981	16,600	126,000	175,000	358	3,110	105	314,000
SB-46 (2-4)	2-4 ft	4/25/2023	10,800	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-47 (0-2)	0-2 ft	4/25/2023	5,490	82,200	798	50,300	36,000	114,000	ND	2,710	73.4	114,000
SB-48 (0-2)	0-2 ft	4/25/2023	6,110	70,200	1,030	16,700	40,300	167,000	ND	2,010	127	120,000
SB-49 (0-2)	0-2 ft	4/26/2023	1,540	11,500	70.1	4,890	3,170	2,820	ND	345J	11.6J	9,800
SB-50 (0-2)	0-2 ft	4/26/2023	6,140	92,000	465	12,600	91,400	104,000	89.5J	492J	55.3J	177,000
SB-51 (0-2)	0-2 ft	4/26/2023	3,490	45,700	92.9	9,160	26,200	40,900	ND	370J	17.9J	58,000
SB-52 (0-2)	0-2 ft	4/26/2023	5,510	127,000	1,730	20,600	57,600	105,000	295	842	121	141,000
SB-53 (0-2)	0-2 ft	4/26/2023	5,220	128,000	2,010	251,000	467,000	141,000	64.8J	703	142.0	222,000
SB-54 (0-2)	0-2 ft	4/26/2023	7,320	134,000	690	19,800	61,800	110,000	140J	845	99.0	162,000
SB-55 (0-2)	0-2 ft	4/26/2023	7,100	76,400	46.9J	20,200	20,400	14,300	ND	874	58.4	54,000
SB-56 (0-2)	0-2 ft	4/26/2023	6,060	115,000	324	25,400	15,900	18,800	80.7J	1,270	72.8	61,900
SB-57 (0-2)	0-2 ft	4/26/2023	7,680	136,000	2,970	19,200	52,900	212,000	164J	904	93.3	159,000
SB-57 (2-4)	2-4 ft	4/26/2023	6,910	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-58 (0-2)	0-2 ft	4/26/2023	36,200	3,790,000	1,100,000	153,000	3,240,000	10,000,000	829	1,490	2,060	5,490,000
SB-58 (2-4)	2-4 ft	4/26/2023	8,670	NS	0.80	NS	NS	NS	NS	NS	NS	NS
SB-59 (0-2)	0-2 ft	4/26/2023	7,750	112,000	351	17,800	26,200	86,400	122J	1,040J	65.2	91,300
SB-59 (2-4)	2-4 ft	4/26/2023	11,600	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-60 (0-2)	0-2 ft	4/26/2023	7,040	120,000	507	19,900	16,000	82,200	85.3J	1,370	105.0	93,200
SB-61 (0-2)	0-2 ft	4/26/2023	7,290	118,000	177	26,500	28,100	48,100	199J	1,310	86.7	78,500
SB-62 (0-2)	0-2 ft	4/26/2023	7,840	82,500	356	17,900	23,000	52,600	128J	876	97.0	73,500
SB-62 (2-4)	2-4 ft	4/26/2023	9,080	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-63 (0-2)	0-2 ft	4/26/2023	8,850	78,500	210	20,600	23,600	21,200	31.5J	1,150	62.9	61,700
SB-63 (2-4)	2-4 ft	4/26/2023	9,360	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-64 (0-2)	0-2 ft	4/26/2023	7,660	144,000	661	18,400	41,700	87,500	202J	813	173.0	118,000
SB-64 (2-4)	2-4 ft	4/26/2023	11,700	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-65 (0-2)	0-2 ft	4/26/2023	8,840	393,000	745	20,200	76,100	388,000	166J	851	74.8	291,000
SB-65 (2-4)	2-4 ft	4/26/2023	9,700	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-66 (0-2)	0-2 ft	4/26/2023	10,600	171,000	2,070	21,900	320,000	266,000	1,380	1,160	914.0	416,000
SB-66 (2-4)	2-4 ft	4/26/2023	4,940	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-67 (0-2)	0-2 ft	4/26/2023	6,940	94,800	919	22,200	61,100	102,000	182J	856	114.0	164,000
SB-68 (0-2)	0-2 ft	4/26/2023	6,770	92,200	1,380	24,300	37,200	135,000	307	1,150	121	123,000
SB-69 (0-2)	0-2 ft	4/26/2023	8,540	80,400	94.6	19,300	19,800	10,600	ND	783	54.5J	51,300
SB-69 (2-4)	2-4 ft	4/26/2023	7,810	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-70 (0-2)	0-2 ft	4/26/2023	6,510	73,200	631	12,500	22,900	64,900	118J	754	69.2	93,500
SB-71 (0-2)	0-2 ft	4/26/2023	14,900	144,000	1,190	22,200	38,300	117,000	132J	928	70.9	127,000
SB-71 (2-4)	2-4 ft	4/26/2023	11,700	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-72 (0-2)	0-2 ft	4/26/2023	10,700	246,000	249	180,000	62,200	577,000	232J	680	70.5	316,000
SB-72 (2-4)	2-4 ft	4/26/2023	18,800	NS	NS	NS	NS	440,000	NS	NS	NS	NS
SB-73 (0-2)	0-2 ft	4/26/2023	11,300	211,000	1,590	21,200	52,200	473,000	569	1,290	137.0	270,000
SB-73 (2-4)	2-4 ft	4/26/2023	14,600	NS	NS	NS	NS	817,000	NS	NS	NS	NS
SB-74 (0-2)	0-2 ft	4/26/2023	11,100	121,000	970	17,600	35,800	87,200	152J	1,070	85.5	124,000
SB-74 (2-4)	2-4 ft	4/26/2023	13,400	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-75 (0-2)	0-2 ft	4/26/2023	9,530	95,300	531	18,600	18,100	35,800	89.4J	1,300	79.0	71,300
SB-75 (2-4)	2-4 ft	4/26/2023	7,920	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-76 (0-2)	0-2 ft	4/26/2023	11,600	668,000	1,370	24,700	322,000	852,000	170J	1,190	161	1,850,000
SB-76 (2-4)	2-4 ft	4/26/2023	11,400	NS	NS	NS	NS	373,000	NS	NS	NS	NS
SB-77 (0-2)	0-2 ft	4/26/2023	8,870	101,000	2,790	19,600	116,000	290,000	463	854	299	266,000
SB-77 (2-4)	2-4 ft	4/26/2023	5,760	NS	NS	NS	NS	373,000	NS	NS	NS	NS
SB-78 (0-2)	0-2 ft	4/26/2023	8,800	101,000	1,210	22,400	23,800	27,800	229J	898	190.0	74,600
SB-78 (2-4)	2-4 ft	4/26/2023	7,250	NS	NS	NS	NS	373,000	NS	NS	NS	NS
SB-79 (0-2)	0-2 ft	4/26/2023	8,030	78,300	81.3	20,100	18,400	17,300	29.5	794	52.8	50,600
SB-79 (2-4)	2-4 ft	4/26/2023	9,840	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-80 (0-2)	0-2 ft	4/26/2023	9,340	134,000	357	23,700	64,100	82,000	187J	930	87.6	150,000
SB-80 (2-4)	2-4 ft	4/26/2023	10,100	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-81 (0-2)	0-2 ft	4/26/2023	12,900	97,700	297	21,200	25,600	41,800	118J	876	42.4J	68,800
SB-81 (2-4)	2-4 ft	4/26/2023	10,600	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-82 (0-2)	0-2 ft	4/26/2023	8,680	152,000	2,410	16,900	36,400	118,000	503	831	122	157,000
SB-82 (2-4)	2-4 ft	4/26/2023	12,600	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-83 (0-2)	0-2 ft	4/26/2023	12,300	1,330,000	4,390	31,700	328,000	2,590,000	1,190	1,030	245.0	1,320,000
SB-83 (2-4)	2-4 ft	4/26/2023	11,900	NS	NS	NS	NS	2,710,000	NS	NS	NS	NS
SB-84 (0-2)	0-2 ft	4/26/2023	7,240	83,600	553	14,700	27,600	150,000	213J	815	69.3	112,000
SB-85 (0-2)	0-2 ft	4/26/2023	10,300	358,000	2,140	19,400	50,900	833,000	286	892	147	379,000
SB-85 (2-4)	2-4 ft	4/26/2023	5,040	NS	NS	NS	NS	29,100	NS	NS	NS	NS
SB-86 (0-2)	0-2 ft	4/26/2023	8,840	114,000	653	18,900	50,900	101,000	166J	947	105	150,000
SB-86 (2-4)	2-4 ft	4/26/2023	3,830	NS	NS	NS	NS	29,100	NS	NS	NS	NS
SB-87 (0-2)	0-2 ft	4/27/2023	7,510	126,000	2,630	19,600	68,500	157,000	144J	5,320	73.4	281,000
SB-88 (0-2)	0-2 ft	4/27/2023	6,770	63,700	862	15,900	21,600	42,700	38.4J	3,970	54.0J	75,100
SB-89 (0-2)	0-2 ft	4/27/2023	9,670	110,000	424	17,700	30,800	60,300	397	5,720	60.0	80,300
SB-89 (2-4)	2-4 ft	4/27/2023	7,730	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-90 (0-2)	0-2 ft	4/27/2023	8,330	121,000	2,800	18,000	52,600	153,000	200J	5,460	84.3	127,000
SB-90 (2-4)	2-4 ft	4/27/2023	5,240	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-91 (0-2)	0-2 ft	4/27/2023	9,840	75,800	343	20,300	20,000	21,800	42.2J	5,680	50.2J	53,500
SB-91 (2-4)	2-4 ft	4/27/2023	10,700	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-92 (0-2)	0-2 ft	4/27/2023	16,200	250,000	4,050	24,100	75,500	287,000	539	5,140	170	207,000
SB-92 (2-4)	2-4 ft	4/27/2023	14,700	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-93 (0-2)	0-2 ft	4/27/2023	5,670	84,000	924	15,200	26,000	58,100	152J	4,450	58.0	86,600
SB-94 (0-2)	0-2 ft	4/27/2023	7,700	63,400	850	18,600	17,200	8,600	ND	5,090	73.5	44,300
SB-94 (2-4)	2-4 ft	4/27/2023	9,240	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-95 (0-2)	0-2 ft	4/27/2023	7,830	150,000	1,720	21,400	59,200	151,000	155J	5,830	83.2	281,000
SB-95 (2-4)	2-4 ft	4/27/2023	7,560	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-96 (0-2)	0-2 ft	4/27/2023	9,770	390,000	1,610	24,900	226,000	735,000	147J	4,200	74.0	704,000
SB-96 (2-4)	2-4 ft	4/27/2023	9,100	NS	NS	NS	NS	135,000	NS	NS	NS	NS

100 Lenox Street
Detroit, Wayne County, Michigan

TABLE 1- SOIL ANALYTICAL SUMMARY			Michigan 10 Metals									
Michigan Department of Environment, Great Lakes, and Energy Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013, GSI Protection Criteria Updated June 25, 2018 and Volatilization of Indoor Air Pathway Screening levels from the EGLE Guidance Document for the Vapor Intrusion Pathway dated May 2013, Appendix D, updated September 4, 2020.			Arsenic	Barium (B)	Cadmium (B)	Chromium (Total) (B,H)	Copper (B)	Lead (B)	Mercury (Total) (B*,Z)	Selenium (B)	Silver (B)	Zinc (B)
CAS Number			7440382	7440393	7440439	7440473	7440508	7439921	7439976	7782492	7440224	7440666
Statewide Default Background Levels (µg/kg)			5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000
Residential Volatilization to Indoor Air Pathway (µg/kg)			NA	NA	NA	NA	NA	NA	50 (M) 22	NA	NA	NA
Residential Direct Contact Criteria (µg/kg)			7,600	3.7E+07	550,000	7.9E+08	2.0E+07	400,000	160,000	2.6E+06	2.5E+06	1.7E+08
Nonresidential Direct Contact Criteria (µg/kg)			37,000	1.3E+08	2,200,000	1.0E+09	7.3E+07	900,000	580,000	9.6E+06	9.0E+06	6.3E+08
SAMPLE ID	SAMPLE DEPTH (feet below grade)	SAMPLE DATE	All results are expressed in µg/kg									
SB-97 (0-2)	0-2 ft	4/27/2023	14,300	309,000	1,240	39,100	77,600	200,000	333	4,670	96.6	276,000
SB-97 (2-4)	2-4 ft	4/27/2023	7,150	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-98 (0-2)	0-2 ft	4/27/2023	5,650	93,400	1,550	14,300	42,000	118,000	203J	5,330	105	130,000
SB-99 (0-2)	0-2 ft	4/27/2023	9,160	107,000	1,370	17,500	37,300	82,800	184J	5,580	97.6	125,000
SB-99 (2-4)	2-4 ft	4/27/2023	8,280	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-100 (0-2)	0-2 ft	4/27/2023	7,720	92,400	1,320	18,500	39,100	89,400	343	5,050	92.5	118,000
SB-100 (2-4)	2-4 ft	4/27/2023	15,700	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-101 (0-2)	0-2 ft	4/27/2023	8,270	112,000	14,500	17,600	56,100	141,000	355	4,840	123.0	208,000
SB-101 (2-4)	2-4 ft	4/27/2023	8,810	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-102 (0-2)	0-2 ft	4/27/2023	17,600	1,110,000	9,120	31,200	182,000	2,270,000	6,120	6,050	225.0	1,290,000
SB-102 (2-4)	2-4 ft	4/27/2023	20,500	NS	NS	NS	NS	173,000	NS	NS	NS	NS
SB-103 (0-2)	0-2 ft	4/27/2023	14,800	364,000	9,130	26,300	59,900	882,000	5,040	4,860	93.3	258,000
SB-103 (2-4)	2-4 ft	4/27/2023	25,600	NS	NS	NS	NS	244,000	NS	NS	NS	NS
SB-104 (0-2)	0-2 ft	4/27/2023	14,000	332,000	4,300	20,700	91,200	358,000	386	5,030	129.0	269,000
SB-104 (2-4)	2-4 ft	4/27/2023	20,100	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-105 (0-2)	0-2 ft	4/27/2023	13,000	1,070,000	115,000	60,400	516,000	4,270,000	2,990	4,900	2,100	767,000
SB-105 (2-4)	2-4 ft	4/27/2023	13,700	NS	NS	NS	NS	262,000	NS	NS	NS	NS
SB-106 (0-2)	0-2 ft	4/27/2023	11,500	89,400	265	20,600	42,500	34,700	44.6J	5,970	75.7	88,200
SB-106 (2-4)	2-4 ft	4/27/2023	4,900	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-107 (0-2)	0-2 ft	4/27/2023	7,880	90,700	804	20,700	31,700	62,500	142J	4,870	71.3	89,200
SB-107 (2-4)	2-4 ft	4/27/2023	13,400	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-108 (0-2)	0-2 ft	4/27/2023	8,790	112,000	357	18,400	41,700	86,400	106J	4,220	54.8	123,000
SB-108 (2-4)	2-4 ft	4/27/2023	7,480	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-109 (0-2)	0-2 ft	4/27/2023	10,100	167,000	1,050	21,100	43,900	987,000	198J	4,230	134	202,000
SB-109 (2-4)	2-4 ft	4/27/2023	9,380	NS	NS	NS	NS	52,700	NS	NS	NS	NS
SB-110 (0-2)	0-2 ft	4/27/2023	19,600	1,240,000	2,410	60,900	161,000	323,000	2,750	2,990	68.4	693,000
SB-110 (2-4)	2-4 ft	4/27/2023	11,000	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-111 (0-2)	0-2 ft	4/27/2023	8,070	78,800	471	34,000	44,000	40,200	280	3,850	63.2	85,200
SB-111 (2-4)	2-4 ft	4/27/2023	4,870	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-112 (0-2)	0-2 ft	4/27/2023	11,000	211,000	1,970	29,900	124,000	216,000	266	3,340	95.0	283,000
SB-112 (2-4)	2-4 ft	4/27/2023	21,000	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-113 (0-2)	0-2 ft	4/27/2023	14,800	927,000	19,300	47,800	129,000	718,000	1,270	5,470	220	1,330,000
SB-113 (2-4)	2-4 ft	4/27/2023	7,490	NS	NS	NS	NS	305,000	NS	NS	NS	NS
SB-114 (0-2)	0-2 ft	4/27/2023	7,210	65,600	525	17,400	20,900	33,400	54.6J	3,520	40.1J	67,000
SB-115 (0-2)	0-2 ft	4/27/2023	8,990	211,000	1,220	61,200	202,000	115,000	469	4,570	237	300,000
SB-115 (2-4)	2-4 ft	4/27/2023	9,890	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-116 (0-2)	0-2 ft	4/27/2023	12,400	248,000	981	21,900	246,000	113,000	137J	4,850	135	247,000
SB-116 (2-4)	2-4 ft	4/27/2023	17,900	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-117 (0-2)	0-2 ft	4/27/2023	12,200	413,000	4,310	26,660	178,000	333,000	905	4,840	126	465,000
SB-117 (2-4)	2-4 ft	4/27/2023	7,430	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-118 (0-2)	0-2 ft	4/27/2023	19,900	1,240,000	12,100	82,500	729,000	751,000	7,150	4,610	394	2,080,000
SB-118 (2-4)	2-4 ft	4/27/2023	10,200	NS	NS	NS	NS	40,100	NS	NS	NS	NS
SB-119 (0-2)	0-2 ft	4/27/2023	14,600	420,000	5,990	26,900	91,900	1,200,000	1,900	4,790	154	446,000
SB-119 (2-4)	2-4 ft	4/27/2023	7,880	NS	NS	NS	NS	259,000	NS	NS	NS	NS
SB-120 (0-2)	0-2 ft	4/27/2023	9,290	102,000	1,970	37,400	42,500	251,000	281	2,640	308	631,000
SB-120 (2-4)	2-4 ft	4/27/2023	13,400	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-121 (0-2)	0-2 ft	4/27/2023	12,900	609,000	8,700	21,900	114,000	1,610,000	1,250	4,640	226	757,000
SB-121 (2-4)	2-4 ft	4/27/2023	11,500	NS	NS	NS	NS	1,540,000	NS	NS	NS	NS
SB-122 (0-2)	0-2 ft	4/27/2023	8,160	108,000	858	17,800	34,600	184,000	260	4,630	73.3	188,000
SB-122 (2-4)	2-4 ft	4/27/2023	5,320	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-123 (0-2)	0-2 ft	4/27/2023	8,790	126,000	716	17,500	33,700	80,000	196J	4,950	81.9	108,000
SB-123 (2-4)	2-4 ft	4/27/2023	8,560	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-124 (0-2)	0-2 ft	7/25/2023	5,300	39,500	309	10,000	13,400	17,700	72.5J	613	43.6J	40,200
SB-125 (0-2)	0-2 ft	7/25/2023	9,590	109,000	1,630	20,000	56,400	131,000	448	926	138.0	171,000
SB-126 (0-2)	0-2 ft	7/25/2023	8,970	98,900	664	15,700	26,900	88,800	95.8J	863	72.7	119,000
SB-127 (0-2)	0-2 ft	7/25/2023	8,340	410,000	3,060	16,200	59,100	138,000	335	1,270	150.0	299,000
SB-128 (0-2)	0-2 ft	7/25/2023	7,620	124,000	2,550	17,100	40,500	209,000	192J	1,050	175.0	211,000
SB-129 (0-2)	0-2 ft	7/25/2023	7,030	119,000	860	18,100	22,500	91,200	92.5J	858	79.5	135,000
SB-130 (0-2)	0-2 ft	7/25/2023	8,040	415,000	4,550	24,300	94,200	470,000	653	1,090	163.0	389,000
SB-131 (0-2)	0-2 ft	7/25/2023	9,070	161,000	8,650	16,300	59,000	238,000	547	1,050	163.0	170,000
SB-132 (0-2)	0-2 ft	7/25/2023	9,340	384,000	18,900	26,300	231,000	656,000	767	994	209.0	495,000
SB-133 (0-2)	0-2 ft	7/25/2023	9,040	511,000	20,200	26,300	198,000	327,000	600	948	656.0	403,000
SB-134 (0-2)	0-2 ft	7/25/2023	9,640	224,000	4,580	22,300	142,000	425,000	232	939	113.0	365,000
SB-135 (0-2)	0-2 ft	7/25/2023	6,160	70,500	189	21,000	17,800	12,800	25.9J	828	46.9J	53,100
SB-136 (0-2)	0-2 ft	7/25/2023	8,170	77,800	128	18,300	20,800	19,400	86.5J	893	72.4	56,300
SB-137 (0-2)	0-2 ft	7/25/2023	7,600	90,500	973	17,000	26,500	42,700	94.4J	816	60.5	66,800
SB-138 (0-2)	0-2 ft	7/25/2023	5,240	77,900	830	14,600	25,100	62,200	107J	915	53.5J	112,000
SB-139 (0-2)	0-2 ft	7/25/2023	7,810	81,500	12,200	19,200	19,300	14,100	72.0J	825	68.5	46,200
SB-140 (0-2)	0-2 ft	7/25/2023	11,700	252,000	56,700	20,400	169,000	421,000	146J	917	326.0	460,000
SB-141 (0-2)	0-2 ft	7/25/2023	6,790	94,600	5,050	29,800	33,600	131,000	143J	880	80.7	118,000
SB-142 (0-2)	0-2 ft	7/25/2023	9,300	121,000	667	24,400	29,900	131,000	537	965	102.0	129,000
SB-143 (0-2)	0-2 ft	7/25/2023	8,490	90,100	173	19,400	25,500	220,000	229J	780	55.8J	95,200
SB-144 (0-2)	0-2 ft	7/25/2023	7,830	62,300	130	17,900	17,900	9,080	ND	1,560	50.7J	52,800
SB-145 (0-2)	0-2 ft	7/25/2023	7,860	181,000	3,230	20,500	107,000	319,000	315	1,480	98.7	234,000
SB-146 (0-2)	0-2 ft	7/25/2023	11,300	555,000	7,310	27,500	151,000	1,770,000	356	1,320	181	616,000
SB-147 (0-2)	0-2 ft	7/25/2023	7,890	155,000	8,530	19,000	51,200	129,000	594	1,650	109	162,000
SB-148 (0-2)	0-2 ft	7/25/2023	7,570	187,000	2,400	24,200	89,000	140,000	342	1,530	67.7	164,000
SB-149 (0-2)	0-2 ft	7/25/2023	7,500	166,000	5,310	18,700	91,300	140,000	207J	1,740	88.9	189,000
SB-150 (0-2)	0-2 ft	7/25/2023	7,770	403,000	380	22,200	84,200	250,000	179J	1,580	57.7J	246,000
SB-151 (0-2)	0-2 ft	7/25/2023	10,800	88,500	629	21,000	23,700	24,500	132J	1,530	66.4	60,500
SB-152 (0-2)	0-2 ft	7/25/2023	6,590	91,400	407	13,900	20,500	123,000	167J	1,140	66.8	96,900
SB-153 (0-2)	0-2 ft	7/25/2023	6,380	169,000	712	15,500	29,100	261,000	238	1,310	92.9	266,000
SB-154 (0-2)	0-2 ft	7/25/2023	7,310	84,100	1,130	18,300	32,500	474,000	246	943	70.8	510,000
SB-155 (0-2)	0-2 ft	7/25/2023	8,030	68,800	549	12,000	24,000	65,200	234	1,140	72.7	101,000
SB-156 (0-2)	0-2 ft	7/25/2023	3,070	34,900	213	7,100	8,520	13,400	26.6J	839	25.3J	33,800
SB-157 (0-2)	0-2 ft	7/25/2023	13,700	2,320,000	5,600	47,400	520,000	4,040,000	909	950	107.0	1,880,000
SB-158 (0-2)	0-2 ft	7/25/2023	10,300	2,070,000	9,580	29,200	243,000	10,500,000	1,350	1,480	215.0	1,660,000

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TABLE 1- SOIL ANALYTICAL SUMMARY				Michigan 10 Metals								
Michigan Department of Environment, Great Lakes, and Energy Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013, GSI Protection Criteria Updated June 25, 2018 and Volatilization of Indoor Air Pathway Screening levels from the EGLE Guidance Document for the Vapor Intrusion Pathway dated May 2013, Appendix D, updated September 4, 2020.				Arsenic	Barium (B)	Cadmium (B)	Chromium (Total) (B,H)	Copper (B)	Lead (B)	Mercury (Total) (B*, Z)	Selenium (B)	Silver (B)	Zinc (B)
CAS Number				7440382	7440393	7440439	7440473	7440508	7439921	7439976	7782492	7440224	7440666
Statewide Default Background Levels (µg/kg)				5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000
Residential Volatilization to Indoor Air Pathway (µg/kg)				NA	NA	NA	NA	NA	NA	50 (M) 22	NA	NA	NA
Residential Direct Contact Criteria (µg/kg)				7,600	3.7E+07	550,000	7.9E+08	2.0E+07	400,000	160,000	2.6E+06	2.5E+06	1.7E+08
Nonresidential Direct Contact Criteria (µg/kg)				37,000	1.3E+08	2,200,000	1.0E+09	7.3E+07	900,000	580,000	9.6E+06	9.0E+06	6.3E+08
SAMPLE ID	SAMPLE DEPTH (feet below grade)	SAMPLE DATE		All results are expressed in µg/kg								

Notes:

Bold font indicates parameter exceeds the Statewide Default Background level

Notes in parentheses and standard abbreviations are from Part 201 Rules 299.1 - 299.50, dated June 25, 2018

ID = Insufficient Data To Develop Criterion

NA = Not Applicable

ND = Not Detected above laboratory reporting limits

NLV = Not Likely to Volatilize

NS = Not Sampled or Not Analyzed

M= The VIAP screening level may be below target detection limits (TDL). In accordance with SEC. 20120a(10) when the TDL for a hazardous substance is greater than the developed VIAP screening level, the TDL is used to evaluate the risk posed from the pathway.

nc = Non-Carcinogenetic

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

ND or "<" = Concentration is not detected above laboratory detection limits

(B) = Background, as defined in R 2991.(b), may be substituted if higher than the calculated clean up criterion. Background levels may be less than criteria for some inorganic compounds

(B*) = Background, as defined in R 2991.(b), may be substituted if higher than the calculated clean up criterion. Background levels may be less than criteria for some inorganic compounds. However, for Mercury for the Volatilization to Indoor Air Pathway, this footnote does not apply.

(H) = Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 ug/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction. (If total chromium data is presented, that data shall be compared to the hex chrome cleanup criteria)

(Z) = Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.

For the April 2023 sampling event, all non-detect ("ND) values of mercury had a method dection limit (MDL) < 50 µg/kg.

* - Residential Drinking Water Criteria and Residential Groundwater Surface Water Interface Protection Criteria exceedances are not shown (site on municipal supply / no groundwater present; sea wall/sheet pile barrier along river)

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TABLE 2 SOIL ANALYTICAL SUMMARY			POLYCYCLIC AROMATIC HYDROCARBONS (PAH)																
Michigan Department of Environment, Great Lakes, and Energy Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013, GSI Protection Criteria Updated June 25, 2018 and Volatilization of Indoor Air Pathway Screening levels from the EGLE Guidance Document for the Vapor Intrusion Pathway dated May 2013, Appendix D, updated September 4, 2020.			Acenaphthylene	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
CAS Number			208968	83329	120127	56553	50328	205992	191242	207089	218019	53703	206440	86737	193395	91576	91203	85018	129000
Residential Drinking Water Protection Criteria*			5,900	300,000	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	3.90E+05	NLL	5.70E+04	35,000	5.60E+04	4.80E+05
Groundwater Surface Water Interface Protection Criteria* (XII)			ID	8,700	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	5,300	NLL	4,200	730	2,100	ID
Residential Volatilization to Indoor Air Pathway			NA	2.0e05 nc	1.3e07 nc	1.6e5 (MM) mut	NA	NA	NA	NA	NA	NA	NA	4.7E5 nc	NA	1,700 nc	330 (M) 67	1,700 nc	2.5e07 nc
Residential Direct Contact Criteria			1.60E+06	4.10E+07	2.30E+08	20,000	2,000	20,000	2.50E+06	200,000	2.00E+06	2,000	4.60E+07	2.70E+07	20,000	8.10E+06	1.60E+07	1.60E+06	2.90E+07
Nonresidental Direct Contact Criteria			5.20E+06	1.30E+08	7.30E+08	80,000	8,000	80,000	7.00E+06	800,000	8.00E+06	8,000	1.00E+08	8.70E+07	80,000	2.60E+07	5.20E+07	5.20E+06	8.40E+07
SAMPLE ID	SAMPLE DEPTH (feet below grade)	SAMPLE DATE	All results are expressed in ug/kg																
GP-1	2-4 ft	4/12/2022	NS	ND	669	669	770	492	516	914	770	NS	1,420	ND	462	NS	NS	851	1,370
GP-3	1-3 ft	4/12/2022	NS	405	1,440	3,350	3,250	2,070	2,290	4,430	3,290	NS	7,880	504	2,110	NS	NS	5,790	6,730
GP-4	7-8 ft	4/12/2022	NS	ND	474	1,130	1,100	615	855	1,500	1,220	NS	2,810	ND	707	NS	NS	2,280	2,460
GP-5	1-2 ft	4/12/2022	NS	ND	ND	ND	332	ND	ND	453	ND	NS	544	ND	ND	NS	NS	ND	454
GP-6	1-2 ft	4/12/2022	NS	ND	ND	357	359	ND	ND	528	359	NS	779	ND	ND	NS	NS	461	669
GP-7	1-2 ft	4/12/2022	NS	ND	ND	ND	ND	ND	ND	425	ND	NS	526	ND	ND	NS	NS	ND	467
GP-8	2-4 ft	4/12/2022	NS	ND	ND	378	414	ND	381	705	416	NS	668	ND	ND	NS	NS	378	641
GP-9	0-1 ft	7/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-9	2-4 ft	7/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-9	6-7 ft	7/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-10	0-1 ft	7/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-10	2-4 ft	7/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-10	6-7 ft	7/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-11	0-1 ft	7/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-11	2-4 ft	7/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-11	6-7 ft	7/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-12	0-1 ft	7/27/2022	NS	469	1,390	6,500	2,560	3,590	1,720	1,500	NS	436	NS	NS	1,500	ND	ND	6,270	6,610
GP-12	2-4 ft	7/27/2022	NS	ND	ND	588	424	583	374	ND	NS	ND	NS	NS	ND	ND	ND	788	950
GP-12	6-7 ft	7/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-13	0-1 ft	7/27/2022	NS	ND	ND	417	ND	404	ND	ND	NS	ND	NS	NS	ND	ND	ND	658	950
GP-13	2-4 ft	7/27/2022	NS	ND	ND	784	562	785	432	342	NS	ND	NS	NS	360	ND	ND	630	643
GP-13	6-7 ft	7/27/2022	NS	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS	ND	ND	ND	ND	1,170
GP-14	0-1 ft	7/27/2022	NS	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS	ND	ND	ND	ND	ND
GP-14	2-4 ft	7/27/2022	NS	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	NS	ND	ND	ND	ND	ND
GP-14	6-7 ft	7/27/2022	NS	ND	933	2,490	1,760	2,570	1,040	968	NS	346	NS	NS	898	365	374	2,080	2,930
SB-1 (0-2)	0-2 ft	4/24/2023	51.3	61.9	246	793	830	1,070	566	391	799	157	1,800	59.4	524	45.2	46.6	839	1,560
SB-2 (0-2)	0-2 ft	4/24/2023	127	276	987	2,380	2,150	2,850	1,300	1,010	2,240	333	5,290	373	1,260	236	234	3,770	4,480
SB-2 (2-4)	2-4 ft	4/24/2023	54.6	87.7	342	1,060	987	1,330	655	487	1,150	164	2,340	70.3	568	89.8	94	1,220	1,920
SB-3 (0-2)	0-2 ft	4/24/2023	ND	79.6	264	804	800	1,070	526	400	813	124	1,760	84.9	500	ND	37.6	1,020	1,530
SB-4 (0-2)	0-2 ft	4/24/2023	67.4	572	1,460	2,770	2,330	2,780	1,280	1,030	2,510	408	5,910	665	1,220	152	306	4,890	5,720
SB-4 (2-4)	2-4 ft	4/24/2023	ND	85.2	152	324	347	444	236	170	420	62.8	837	78.2	213	ND	63.7	418	657
SB-5 (0-2)	0-2 ft	4/24/2023	ND	43.6	151	522	570	780	403	225	573	103	1,260	38.3	362	ND	ND	590	1,090
SB-6 (0-2)	0-2 ft	4/24/2023	ND	ND	82.5	262	270	374	179	118	281	54.4	528	ND	168	ND	ND	251	481
SB-7 (0-2)	0-2 ft	4/24/2023	ND	ND	156	398	1,770	951	3,160	205	983	483	439	ND	869	69.5	61.7	327	1,380
SB-8 (0-2)	0-2 ft	4/24/2023	ND	34.1	104	349	370	490	304	158	387	66.1	684	37.7	239	111	149	416	635
SB-9 (0-2)	0-2 ft	4/24/2023	697	365	1,800	4,100	3,070	4,270	1,640	1,370	3,980	631	9,080	665	1,620	200	103	8,540	8,890
SB-9 (2-4)	2-4 ft	4/24/2023	ND	ND	182	576	508	683	301	270	644	61.8	1,180	ND	266	58.5	60.9	659	892
SB-10 (0-2)	0-2 ft	4/24/2023	80.4	619	3,830	5,860	4,330	6,340	2,370	2,060	5,480	827	14,800	1,020	2,430	175	163	12,000	12,500
SB-10 (2-4)	2-4 ft	4/24/2023	ND	457	1,190	2,200	1,780	1,850	992	774	2,400	207	4,390	411	794	252	426	4,950	4,400
SB-11 (0-2)	0-2 ft	4/24/2023	6.4	ND	11.6	53.4	55.7	74.6	37.0	24.4	56.0	14.1	88.1	ND	34.1	13.6	14.6	39.4	82.7
SB-12 (0-2)	0-2 ft	4/24/2023	6.1	14.0	41.0	133	135	197	88.6	59.9	144	27.3	296	14.3	82.8	10.9	12.3	176	257
SB-13 (0-2)	0-2 ft	4/24/2023	ND	12.0	9.5	26.6	24.9	33.9	21.6	10.5	32.4	ND	49.8	5.9	14.5	46.4	117	41.1	52.4
SB-14 (0-2)	0-2 ft	4/24/2023	ND	ND	27.5	116	128	171	83.3	63.4	133	ND	230	ND	79.5	ND	ND	106	208
SB-15 (0-2)	0-2 ft	4/24/2023	ND	10.1	55.9	166	148	214	85.5	66.5	181	23.5	328	11.9	83.9	ND	ND	154	289
SB-16 (0-2)	0-2 ft	4/24/2023	ND	ND	9.2	42.2	45.1	64.1	29.8	22.0	47.4	7.0	88.3	ND	28.1	ND	ND	40.9	80.9
SB-17 (0-2)	0-2 ft	4/24/2023	ND	ND	39.1	191	211	286	139	102	215	39.6	403	ND	132	ND	ND	196	361
SB-18 (0-2)	0-2 ft	4/24/2023	ND	8.7	24.0	93.1	93.5	136	59.8	41.9	100	18.4	200	7.9	58.0	ND	ND	102	175
SB-19 (0-2)	0-2 ft	4/25/2023	6.7	8.6	26.2	137	146	193	98.9	66.6	132	26.4	254	6.7	87.1	ND	ND	103	209

100 Lenox Street
Detroit, Wayne County, Michigan

TABLE 2 SOIL ANALYTICAL SUMMARY			POLYCYCLIC AROMATIC HYDROCARBONS (PAH)															
Michigan Department of Environment, Great Lakes, and Energy Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013, GSI Protection Criteria Updated June 25, 2018 and Volatilization of Indoor Air Pathway Screening levels from the EGLE Guidance Document for the Vapor Intrusion Pathway dated May 2013, Appendix D, updated September 4, 2020.			Acenaphthylene	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
CAS Number			208968	83329	120127	56553	50328	205992	191242	207089	218019	53703	206440	86737	193395	91576	91203	85018	129000
Residential Drinking Water Protection Criteria*			5,900	300,000	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	3.90E+05	NLL	5.70E+04	35,000	5.60E+04	4.80E+05
Groundwater Surface Water Interface Protection Criteria* (XII)			ID	8,700	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	5,300	NLL	4,200	730	2,100	ID
Residential Volatilization to Indoor Air Pathway			NA	2.0e05 nc	1.3e07 nc	1.6e5 (MM) mut	NA	NA	NA	NA	NA	NA	NA	4.7E5 nc	NA	1,700 nc	330 (M) 67	1,700 nc	2.5e07 nc
Residential Direct Contact Criteria			1.60E+06	4.10E+07	2.30E+08	20,000	2,000	20,000	2.50E+06	200,000	2.00E+06	2,000	4.60E+07	2.70E+07	20,000	8.10E+06	1.60E+07	1.60E+06	2.90E+07
Nonresidental Direct Contact Criteria			5.20E+06	1.30E+08	7.30E+08	80,000	8,000	80,000	7.00E+06	800,000	8.00E+06	8,000	1.00E+08	8.70E+07	80,000	2.60E+07	5.20E+07	5.20E+06	8.40E+07
SAMPLE ID	SAMPLE DEPTH (feet below grade)	SAMPLE DATE	All results are expressed in ug/kg																
SB-20 (0-2)	0-2 ft	4/25/2023	10.2	26.0	68.1	285	283	375	178	130	266	48.4	567	23.9	159	7.8	13.1	274	443
SB-21 (0-2)	0-2 ft	4/25/2023	ND	8.8	23.6	101	97.9	144	61.8	46.7	98.1	17.5	201	6.0	55.9	7.1	8.0	97.3	159
SB-22 (0-2)	0-2 ft	4/25/2023	ND	99.1	268	614	541	689	325	248	592	90.3	1,380	89.8	288	39.7	40.4	1,040	1,120
SB-23 (0-2)	0-2 ft	4/25/2023	34.7	639	1,100	1,840	1,500	1,800	784	694	1,580	229	4,270	499	750	240	252	4,120	3,380
SB-24 (0-2)	0-2 ft	4/25/2023	ND	ND	67.6	293	297	395	190	138	292	52.2	549	ND	169	ND	ND	256	447
SB-25 (0-2)	0-2 ft	4/25/2023	20.9	31.7	145	724	601	809	329	281	628	98.9	1,400	33.9	312	72.7	28.4	530	1,090
SB-26 (0-2)	0-2 ft	4/25/2023	ND	ND	5.7	24.8	24.8	32.6	16.1	12.1	26.2	ND	47.8	ND	14.0	ND	ND	24.8	42.1
SB-27 (0-2)	0-2 ft	4/25/2023	43.1	32.8	148	485	417	517	226	201	441	67.3	1,010	45.8	212	48.9	45.2	659	804
SB-28 (0-2)	0-2 ft	4/25/2023	31.9	31.6	123	493	464	601	307	227	475	83.2	961	32.8	257	39.3	34.7	504	777
SB-29 (0-2)	0-2 ft	4/25/2023	ND	ND	11.0	43.2	40.5	59.7	29.9	20.1	45.8	8.1	77.2	ND	24.4	7.0	6.4	40.8	66.9
SB-30 (0-2)	0-2 ft	4/25/2023	193	303	1,010	3,440	3,040	3,690	1,850	1,300	3,270	498	6,710	307	1,590	115	149	4,290	6,020
SB-30 (2-4)	2-4 ft	4/25/2023	32.5	38.2	179	302	234	280	117	105	266	28.3	684	72.9	105	60	53.4	672	466
SB-31 (0-2)	0-2 ft	4/25/2023	ND	10.4	26.8	95.8	88.3	106	52.7	37.3	90.2	14.7	175	7.9	45.5	ND	8.3	108	165
SB-32 (0-2)	0-2 ft	4/25/2023	2,150	2,240	10,400	44,200	28,400	34,100	15,000	13,700	32,200	4,550	94,400	2,900	13,800	652	974	51,100	87,000
SB-32 (2-4)	2-4 ft	4/25/2023	26.1	97.5	179	470	434	541	262	198	464	57.3	1,060	96.2	228	49.3	105	779	767
SB-33 (0-2)	0-2 ft	4/25/2023	160	173	710	3,100	2,690	3,380	1,520	3,210	2,810	436	5,940	178	1,380	46.6	61.4	2,800	5,230
SB-33 (2-4)	2-4 ft	4/25/2023	172	2,930	8,040	22,200	21,500	26,000	12,700	9,660	20,300	3,290	51,800	2,790	11,100	684	1,950	28,300	36,400
SB-34 (0-2)	0-2 ft	4/25/2023	120	197	661	2,610	2,280	2,840	1,330	1,070	2,360	376	5,140	179	1,180	43.8	63.3	2,660	4,490
SB-34 (2-4)	2-4 ft	4/25/2023	ND	7.4	34.1	107	98	125	65	44.5	113	13.2	233	7	53.3	10.2	13.5	119	179
SB-35 (0-2)	0-2 ft	4/25/2023	74.2	159	524	1,550	1,200	1,400	678	498	1,420	193	2,940	149	572	52.2	72.4	2,380	2,900
SB-36 (0-2)	0-2 ft	4/25/2023	18.8	13.1	45.5	228	219	273	131	100	221	37.1	432	11.8	116	14.6	13.5	196	374
SB-37 (0-2)	0-2 ft	4/25/2023	ND	ND	13.1	65.3	60.3	75.3	36.6	27.8	64.0	9.9	121	ND	32.3	ND	ND	51.4	106
SB-38 (0-2)	0-2 ft	4/25/2023	68.1	121	351	1,230	1,070	1,350	605	475	1,130	180	2,290	115	545	79.2	126	1,270	2,090
SB-39 (0-2)	0-2 ft	4/25/2023	114	51.7	204	991	937	1,200	553	438	911	152	1,800	51.4	503	80.3	80.1	763	1,540
SB-40 (0-2)	0-2 ft	4/25/2023	53.8	39.0	158	614	612	817	413	271	660	127	1,220	42.8	382	77.7	69.5	604	1,140
SB-41 (0-2)	0-2 ft	4/25/2023	28.5	21.6	88.3	375	393	560	273	180	421	85.7	751	21.2	253	81.9	63.6	340	654
SB-42 (0-2)	0-2 ft	4/25/2023	ND	49.3	48.2	71.6	61.3	80.8	35.8	26.6	70.7	10.5	185	28.7	32.8	19.1	26.4	176	144
SB-43 (0-2)	0-2 ft	4/25/2023	20.7	19.8	60.2	192	202	266	129	101	210	39.3	432	29.1	126	12.9	15.9	240	339
SB-44 (0-2)	0-2 ft	4/25/2023	249	131	586	1,250	1,090	1,450	625	577	1,250	208	3,430	516	645	103	195	3,240	2,470
SB-45 (0-2)	0-2 ft	4/25/2023	42.4	20.1	90.8	317	340	460	224	161	360	57.4	719	44.7	218	9.5	16.1	384	559
SB-46 (0-2)	0-2 ft	4/25/2023	295	514	1,910	4,540	4,030	5,210	2,520	1,900	4,330	825	9,770	770	2,430	269	338	7,270	7,990
SB-46 (2-4)	2-4 ft	4/25/2023	82.8	218	790	1,630	1,480	1,890	902	688	1,740	177	4,170	247	762	227	347	2,570	3,110
SB-47 (0-2)	0-2 ft	4/25/2023	ND	ND	212	729	693	875	433	335	715	132	1,530	55.1	416	54.9	51.1	728	1,320
SB-48 (0-2)	0-2 ft	4/25/2023	34.6	56.2	245	616	587	823	381	304	627	91.8	1,440	93.3	361	48.4	42.2	972	1,180
SB-49 (0-2)	0-2 ft	4/26/2023	ND	25.8	94.4	130	99.8	125	57.0	53.0	126	11.9	341	34.5	51.3	ND	ND	306	256
SB-50 (0-2)	0-2 ft	4/26/2023	49.2	296.0	2,300	4,060	3,140	3,990	1,500	1,680	3,700	405	8,530	453	1,430	115	85.7	5,040	6,100
SB-50 (2-4)	2-4 ft	4/26/2023	139	239.0	1,090	2,980	3,280	4,040	2,690	1,310	3,400	860	6,210	396	1,980	322	621	3,570	4,600
SB-51 (0-2)	0-2 ft	4/26/2023	ND	20.6	54.3	134	119	156	68.5	53.7	136	14.6	326	17.9	60.8	11.5	9.8	185	251
SB-52 (0-2)	0-2 ft	4/26/2023	10.6	43.6	81.1	349	310	404	179	147	330	53.8	644	30.8	163	92.4	335	316	538
SB-53 (0-2)	0-2 ft	4/26/2023	11.0	17.9	53.3	221	198	252	117	91.9	210	33.8	414	16.0	102	19.8	22.5	215	376
SB-54 (0-2)	0-2 ft	4/26/2023	269	292	1,220	5,920	4,970	5,760	2,700	2,260	5,470	760	9,980	298	2,350	107	162	4,750	10,100
SB-54 (2-4)	2-4 ft	4/26/2023	73.4	404	1,780	7,020	7,200	8,590	4,220	2,980	6,680	865	15,500	343	3,820	169	204	5,430	11,800
SB-55 (0-2)	0-2 ft	4/26/2023	ND	ND	ND	21.4J	31.5	30.5	30.7	ND	32.2	ND	51.1	ND	25.1J	ND	ND	23.0J	58.9
SB-56 (0-2)	0-2 ft	4/26/2023	ND	ND	4.8J	15.6	17.1	21.4	12.0	7.7	16.8	ND	32.8	ND	11.1	ND	ND	22.1	29.6
SB-57 (0-2)	0-2 ft	4/26/2023	39.7	297	783	1,400	1,090	1,340	556	514	1,250	175	3,050	324	515	110	136	2,780	2,460
SB-58 (0-2)	0-2 ft	4/26/2023	ND	ND	43.3J	153	175	247	152	85.3	254	ND	341	ND	123	84.6	117	249	312
SB-59 (0-2)	0-2 ft	4/26/2023	24.1	19.0	79.5	263	223	284	127	111	241	28.4	521	20.6	115	17.9	16.9	321	461
SB-60 (0-2)	0-2 ft	4/26/2023	6.4	20.2	47.0	150	132	168	73.3	65.1	139	17.3	298	15.3	68.5	11.4	10.8	181	256
SB-61 (0-2)	0-2 ft	4/26/2023	ND	13.5	39.0	104	93.1	115	51.1	42.1	91.2	15.0	207	11.8	47.1	6.9	5.9J	128	171

100 Lenox Street
Detroit, Wayne County, Michigan

TABLE 2 SOIL ANALYTICAL SUMMARY			POLYCYCLIC AROMATIC HYDROCARBONS (PAH)																
Michigan Department of Environment, Great Lakes, and Energy Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013, GSI Protection Criteria Updated June 25, 2018 and Volatilization of Indoor Air Pathway Screening levels from the EGLE Guidance Document for the Vapor Intrusion Pathway dated May 2013, Appendix D, updated September 4, 2020.			Acenaphthylene	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
CAS Number			208968	83329	120127	56553	50328	205992	191242	207089	218019	53703	206440	86737	193395	91576	91203	85018	129000
Residential Drinking Water Protection Criteria*			5,900	300,000	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	3.90E+05	NLL	5.70E+04	35,000	5.60E+04	4.80E+05
Groundwater Surface Water Interface Protection Criteria* (XII)			ID	8,700	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	5,300	NLL	4,200	730	2,100	ID
Residential Volatilization to Indoor Air Pathway			NA	2.0e05 nc	1.3e07 nc	1.6e5 (MM) mut	NA	NA	NA	NA	NA	NA	NA	4.7E5 nc	NA	1,700 nc	330 (M) 67	1,700 nc	2.5e07 nc
Residential Direct Contact Criteria			1.60E+06	4.10E+07	2.30E+08	20,000	2,000	20,000	2.50E+06	200,000	2.00E+06	2,000	4.60E+07	2.70E+07	20,000	8.10E+06	1.60E+07	1.60E+06	2.90E+07
Nonresidental Direct Contact Criteria			5.20E+06	1.30E+08	7.30E+08	80,000	8,000	80,000	7.00E+06	800,000	8.00E+06	8,000	1.00E+08	8.70E+07	80,000	2.60E+07	5.20E+07	5.20E+06	8.40E+07
SAMPLE ID	SAMPLE DEPTH (feet below grade)	SAMPLE DATE	All results are expressed in ug/kg																
SB-62 (0-2)	0-2 ft	4/26/2023	49.1	349	1,270	2,630	2,170	2,640	1,160	903	2,400	326	5,820	488	1,040	70.2	55.8	5,100	5,330
SB-62 (2-4)	2-4 ft	4/26/2023	ND	ND	ND	4.9	6.9	12.3	9.8	ND	11.3	ND	12.5	ND	4.6	ND	ND	12.4	12
SB-63 (0-2)	0-2 ft	4/26/2023	4.6J	14.9	32.0	112	98.8	134	58.0	44.0	107	16.3	210	12.7	50.7	11.4	11.5	138	193
SB-64 (0-2)	0-2 ft	4/26/2023	14.3	31.6	82.2	349	331	405	199	140	319	53.0	656	27.6	175	24.4	23.5	339	611
SB-65 (0-2)	0-2 ft	4/26/2023	23.4	45.9	191	550	451	591	259	209	505	59.0	1,240	74.5	231	45.7	54.9	983	1,000
SB-66 (0-2)	0-2 ft	4/26/2023	407	147	1,080	3,100	2,370	3,050	1,180	995	2,760	371	5,870	310	1,100	151	150	3,490	5,400
SB-66 (2-4)	2-4 ft	4/26/2023	ND	ND	9.2	26.9	25.0	40.6	19.1	10.7	35.6	5.4	62.4	ND	15.6	41.6	33.5	50.5	47.1
SB-67 (0-2)	0-2 ft	4/26/2023	11.2	31.8	95.3	342	308	411	197	148	340	40.9	779	29.6	174	21.1	21.5	461	636
SB-68 (0-2)	0-2 ft	4/26/2023	30.3J	59.6	213	685	642	809	403	298	661	85.5	1,420	57.6	352	57.3	45.0	860	1,250
SB-69 (0-2)	0-2 ft	4/26/2023	ND	ND	ND	8.3	10.7	16.0	9.7	4.0	13.6	ND	17.9	ND	7.4	5.7	ND	10.8	17.2
SB-70 (0-2)	0-2 ft	4/26/2023	27.4	49.0	193	759	691	895	396	318	717	84.7	1,530	55.9	357	34.0	28.9	766	1,300
SB-71 (0-2)	0-2 ft	4/26/2023	86.9	27.6	140	976	884	1,110	511	425	913	111	1,760	30.9	460	220	139	654	1,630
SB-72 (0-2)	0-2 ft	4/26/2023	ND	42.3	116	588	583	804	405	314	684	103	1,330	24.3J	345	129	88.0	645	1,130
SB-73 (0-2)	0-2 ft	4/26/2023	80.7	737	1,590	4,630	4,080	5,450	2,540	2,130	4,620	549	11,900	654	2,280	180	192	8,150	8,730
SB-73 (2-4)	2-4 ft	4/26/2023	127	178	429	1,060	844	1,210	519	421	1,030	127	2,400	238	455	679	650	2,240	1,900
SB-74 (0-2)	0-2 ft	4/26/2023	26.5	187	492	1,490	1,440	1,930	849	693	1,630	173	3,720	131	757	69.4	74.8	1,920	2,870
SB-75 (0-2)	0-2 ft	4/26/2023	5.6J	6.1	16.4	92.8	126	163	70.2	63.4	116	13.8	178	4.4J	64.8	10.7	8.9	86.6	147
SB-76 (0-2)	0-2 ft	4/26/2023	ND	46.1	154	429	491	641	315	186	449	59.9	863	49.1	276	127	89.7	618	738
SB-77 (0-2)	0-2 ft	4/26/2023	1,210	133	1,540	6,960	5,120	6,610	2,570	2,510	6,110	662	12,400	318	2,470	192	169	5,480	11,000
SB-77 (2-4)	2-4 ft	4/26/2023	11.2	9.1	21.2	96.6	96.4	126	59.7	43.1	110	16.6	236	14	54.6	23.9	21.7	170	184
SB-78 (0-2)	0-2 ft	4/26/2023	44.1	97.9	253	1,170	1,140	1,420	687	499	1,090	147	2,070	85.7	597	70.9	66.4	1,090	1,950
SB-79 (0-2)	0-2 ft	4/26/2023	ND	ND	ND	23.4	31.3	36.1	24.0	13.9	31.2	4.3J	37.0	ND	18.2	ND	ND	17.3	36.3
SB-80 (0-2)	0-2 ft	4/26/2023	14.1	40.1	144	557	499	666	314	236	528	68.6	1,130	40.7	274	67.2	53.8	644	974
SB-81 (0-2)	0-2 ft	4/26/2023	21.5	14.9	63.8	215	195	267	120	89.4	229	27.2	434	19.8	107	91.6	97.0	322	374
SB-82 (0-2)	0-2 ft	4/26/2023	245	4,140	9,270	15,100	12,800	16,900	7,690	5,340	13,400	1,570	44,400	4,440	6,910	803	1,770	43,200	32,900
SB-82 (2-4)	2-4 ft	4/26/2023	27.6	60.9	246	947	857	1,100	485	406	932	134	2,160	65.5	443	52.8	41.6	1,160	1,650
SB-83 (0-2)	0-2 ft	4/26/2023	65.0	58.0	189	808	793	1,050	524	369	811	110	1,540	49.1	452	239	186	866	1,440
SB-84 (0-2)	0-2 ft	4/26/2023	21.5J	44.2	198	828	722	954	445	326	756	97.5	1,490	44.7	391	63.4	51.5	744	1,390
SB-85 (0-2)	0-2 ft	4/26/2023	27.5	85.6	326	1,430	1,360	1,630	795	617	1,420	169	2,450	88.8	673	131	105	1,360	2,330
SB-86 (0-2)	0-2 ft	4/26/2023	131	780	3,260	8,300	6,930	8,480	3,990	2,820	7,210	860	19,600	924	3,500	136	144	12,100	16,300
SB-86 (2-4)	2-4 ft	4/26/2023	6.4	36.7	142	356	289	342	154	117	331	33.4	838	37.7	136	5.8	6.9	515	784
SB-87 (0-2)	0-2 ft	4/27/2023	46.7	44.5	173	508	445	608	271	219	514.0	91.3	1,120	49.4	267	32.0	41.6	679	959
SB-88 (0-2)	0-2 ft	4/27/2023	ND	ND	4.0J	24.9	25.1	35.3	21.5	10.5	27.2	5.4J	44.8	ND	16.7	ND	ND	17.2	43.1
SB-89 (0-2)	0-2 ft	4/27/2023	ND	43.6J	98.4	326	312	436	191	133	324	62.0	644	38.5J	189	ND	ND	375	539
SB-90 (0-2)	0-2 ft	4/27/2023	28.5	38.0	119	523	492	643	303	208	534	99.6	999	29.5	284	16.1	18.3	448	941
SB-91 (0-2)	0-2 ft	4/27/2023	ND	ND	ND	5.1J	4.6J	8.1	5.9	ND	8.8	ND	9.1	ND	ND	ND	ND	6.1	8.3
SB-92 (0-2)	0-2 ft	4/27/2023	86.9	54.1	234	678	666	861	432	349	745	138	1,380	71.9	414	54.8	58.8	747	1,170
SB-93 (0-2)	0-2 ft	4/27/2023	23.4	55.6	180	418	388	511	236	191	422	63.0	960	54.2	232	28.6	30.0	619	779
SB-94 (0-2)	0-2 ft	4/27/2023	ND	ND	ND	9.1	7.7	11.9	8.3	3.6J	12.5	ND	20.6	ND	4.7J	ND	ND	14.1	17.4
SB-95 (0-2)	0-2 ft	4/27/2023	270	89.6	733	2,710	2,190	3,010	1,180	1,130	2,450	433	5,800	135	1,210	ND	52.0J	2,680	4,720
SB-95 (2-4)	2-4 ft	4/27/2023	15.0	1550	3,680	4,680	4,060	4,400	2,320	1,840	4,320	549	14,400	1,380	1,980	272	226	15,100	12,200
SB-96 (0-2)	0-2 ft	4/27/2023	6,240	1,680	17,400	61,200	43,500	58,500	24,600	19,500	54,200	8,420	146,000	2,650	24,900	627	1,030	69,500	122,000
SB-96 (2-4)	2-4 ft	4/27/2023	6.0	10.3	27.7	76.3	71	90.3	40.2	32.4	77.5	9.5	156	9.9	36.6	18.6	28.7	101	130
SB-97 (0-2)	0-2 ft	4/27/2023	27.2	109	344	604	496	727	305	213	611	98.5	1,560	143	299	455	329	1,500	1,280
SB-98 (0-2)	0-2 ft	4/27/2023	11.9	30.7	63.7	211	205	296	129	87.9	244	41.5	464	27.7	123	59.2	43.7	304	407
SB-99 (0-2)	0-2 ft	4/27/2023	10.6	23.4	74.5	209	193	263	134	76.0	208	40.5	410	20.8	118	20.4	16.2	292	418
SB-100 (0-2)	0-2 ft	4/27/2023	ND	5.6J	13.2	48.5	54.0	86.2	49.1	25.2	49.5	12.2	82.3	5.3J	42.5	10.1	8.2	52.2	81.7
SB-101 (0-2)	0-2 ft	4/27/2023	85.0	63.0	284	925	844	1,140	490	347	902	165	1,820	76.9	483	44.3	44.2	987	1,670
SB-102 (0-2)	0-2 ft	4/27/2023	40.8	42.5	174	463	394	610	241	186	485	85.8	972	60.6	238	312	195	633	870

100 Lenox Street
Detroit, Wayne County, Michigan

TABLE 2 SOIL ANALYTICAL SUMMARY			POLYCYCLIC AROMATIC HYDROCARBONS (PAH)																
Michigan Department of Environment, Great Lakes, and Energy Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013, GSI Protection Criteria Updated June 25, 2018 and Volatilization of Indoor Air Pathway Screening levels from the EGLE Guidance Document for the Vapor Intrusion Pathway dated May 2013, Appendix D, updated September 4, 2020.			Acenaphthylene	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
CAS Number			208968	83329	120127	56553	50328	205992	191242	207089	218019	53703	206440	86737	193395	91576	91203	85018	129000
Residential Drinking Water Protection Criteria*			5,900	300,000	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	3.90E+05	NLL	5.70E+04	35,000	5.60E+04	4.80E+05
Groundwater Surface Water Interface Protection Criteria* (XII)			ID	8,700	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	5,300	NLL	4,200	730	2,100	ID
Residential Volatilization to Indoor Air Pathway			NA	2.0e05 nc	1.3e07 nc	1.6e5 (MM) mut	NA	NA	NA	NA	NA	NA	NA	4.7E5 nc	NA	1,700 nc	330 (M) 67	1,700 nc	2.5e07 nc
Residential Direct Contact Criteria			1.60E+06	4.10E+07	2.30E+08	20,000	2,000	20,000	2.50E+06	200,000	2.00E+06	2,000	4.60E+07	2.70E+07	20,000	8.10E+06	1.60E+07	1.60E+06	2.90E+07
Nonresidental Direct Contact Criteria			5.20E+06	1.30E+08	7.30E+08	80,000	8,000	80,000	7.00E+06	800,000	8.00E+06	8,000	1.00E+08	8.70E+07	80,000	2.60E+07	5.20E+07	5.20E+06	8.40E+07
SAMPLE ID	SAMPLE DEPTH (feet below grade)	SAMPLE DATE	All results are expressed in ug/kg																
SB-103 (0-2)	0-2 ft	4/27/2023	37.6	158	334	664	580	765	392	223	704	115	1,430	128	342	184	103	1,500	1,530
SB-104 (0-2)	0-2 ft	4/27/2023	1,420	356	1,750	5,890	4,120	5,950	2,380	1,850	5,540	898	9,660	590	2,270	255	197	6,600	10,700
SB-104 (2-4)	2-4 ft	4/27/2023	39.8	6.3J	26	62.1	54.2	73.3	40.7	24.4	76.4	9.3	130	12.2	32.9	200	184	197	107
SB-105 (0-2)	0-2 ft	4/27/2023	54.7	ND	53.4	210	182	334	171	103	329	55.4	312	ND	147	378	346	342	306
SB-106 (0-2)	0-2 ft	4/27/2023	4.1J	15.2	52.8	112	94.3	130	62.7	38.2	117	21.5	251	21.3	55.4	19.1	12.6	195	217
SB-107 (0-2)	0-2 ft	4/27/2023	34.2	20.6	69.4	256	252	372	175	110	266	42.9	510	23.9	161	40.2	30.5	259	457
SB-108 (0-2)	0-2 ft	4/27/2023	16.2	119	443	1,380	933	1,100	568	360	1,440	189	2,280	129	465	38.0	25.2	2,630	3,260
SB-109 (0-2)	0-2 ft	4/27/2023	10.3	11.2	47.7	164	152	210	100	64.8	174	32.0	326	14.0	92.6	121	90.5	230	303
SB-110 (0-2)	0-2 ft	4/27/2023	17.2	36.4	117	341	311	436	216	150	389	56.4	716	46.8	197	409	460	631	649
SB-111 (0-2)	0-2 ft	4/27/2023	11.1	15.6	35.2	129	95.7	143	68.7	40.2	191	22.0	192	21.7	54.7	746	516	439	213
SB-112 (0-2)	0-2 ft	4/27/2023	126	727	1,600	3,670	3,370	4,420	2,270	1,700	3,780	657	12,900	811	2,110	532	770	10,700	10,100
SB-112 (2-4)	2-4 ft	4/27/2023	136	3290	6,280	11,100	10,200	13,000	6,190	4,400	11,000	1,580	32,600	3,690	5,430	1,440	4.000	33,300	24,500
SB-113 (0-2)	0-2 ft	4/27/2023	136	501	1,330	2,550	2,420	3,130	1,540	1,050	2,500	443	6,350	504	1,470	252	331	4,960	5,580
SB-113 (2-4)	2-4 ft	4/27/2023	125	492	1,420	3,240	2,830	3,620	1,550	1,050	3,020	339	7,490	551	1,400	106	175	5,170	6,020
SB-114 (0-2)	0-2 ft	4/27/2023	13.8	10.4	26.6	95.9	78.6	129	57.8	40.2	140	17.2	165	14.8	50.8	500	378	286	158
SB-115 (0-2)	0-2 ft	4/27/2023	ND	ND	148	490	566	616	634	213	550	115	954	ND	363	ND	ND	575	925
SB-116 (0-2)	0-2 ft	4/27/2023	52.4	23.6	112	412	375	538	240	167	406	79.0	872	33.1	230	120	78.4	480	748
SB-117 (0-2)	0-2 ft	4/27/2023	178	246	876	2,450	2,260	3,250	1,510	1,010	2,390	400	5,330	313	1,440	214	227	3,000	4,580
SB-117 (2-4)	2-4 ft	4/27/2023	ND	ND	5.5 J	12.6	14	20.8	11.1	5.9	17.1	ND	31	ND	9.5	ND	ND	20.3	25.7
SB-118 (0-2)	0-2 ft	4/27/2023	108	300	813	1,960	1,560	2,170	884	649	1,890	302	4,120	349	862	185	169	3,170	3,700
SB-119 (0-2)	0-2 ft	4/27/2023	112	89.3	155	274	177	345	124	107	333	ND	724	114	113	632	1,200	813	587
SB-120 (0-2)	0-2 ft	4/27/2023	14.4	8.2	24.1	87.5	67.8	118	48.0	32.7	143	19.2	141	14.3	40.6	702	468	317	138
SB-121 (0-2)	0-2 ft	4/27/2023	1,690	173	1,090	4,550	4,250	6,080	2,550	1,780	4,420	939	7,290	263	2,510	154	137	2,110	7,420
SB-121 (2-4)	2-4 ft	4/27/2023	930	229	1,340	5,080	4,620	5,900	2,550	2,000	4,510	619	9,910	338	2,350	103	113	3,470	8,020
SB-122 (0-2)	0-2 ft	4/27/2023	10.1	4.9J	23.3	97.7	97.1	146	70.3	43.7	124	22.2	191	6.8	61.6	58.2	31.5	97.3	177
SB-123 (0-2)	0-2 ft	4/27/2023	5.0J	ND	17.8	61.3	63.4	92.5	48.6	27.4	76.7	13.4	146	5.0J	39.9	24.2	15.9	81.7	122
SB-124 (0-2)	0-2 ft	7/25/2023	14.6	19.0	68.7	216.0	232.0	276.0	135.0	88.2	198.0	37.5	484	20.4	132	12.8	13.1	240	399
SB-125 (0-2)	0-2 ft	7/25/2023	37.5	41.0	133.0	389.0	401.0	515.0	248.0	157.0	356.0	73.8	792	54.6	248	90.5	66.2	513	643
SB-126 (0-2)	0-2 ft	7/25/2023	ND	ND	81.0	248.0	268.0	337.0	185.0	101.0	229.0	48.6J	520	ND	163	ND	ND	309	406
SB-127 (0-2)	0-2 ft	7/25/2023	52.5J	104.0	249.0	656.0	668.0	867.0	403.0	261.0	595.0	119.0	1,390	127.0	403	121	121	984	1120
SB-128 (0-2)	0-2 ft	7/25/2023	60.3	83.6	233.0	537.0	550.0	722.0	336.0	214.0	483.0	97.3	1,160	139.0	325	87.4	140	877	895
SB-129 (0-2)	0-2 ft	7/25/2023	ND	ND	ND	149.0	164.0	224.0	130.0	77.0	172.0	ND	349	ND	121	ND	ND	164	256
SB-130 (0-2)	0-2 ft	7/25/2023	75.2	57.2J	221.0	738.0	763.0	908.0	478.0	372.0	682.0	141.0	1,530	84.4	476	105	101	878	1140
SB-131 (0-2)	0-2 ft	7/25/2023	972	1,380.0	3900.0	7800.0	6790.0	8500.0	3550.0	3010.0	6740.0	1140.0	18,000	1990.0	3700	437	667	12500	13600
SB-132 (0-2)	0-2 ft	7/25/2023	102	121	467.0	1450.0	1450.0	1870.0	863.0	600.0	1310.0	268.0	3,150	149.0	887	94.2	92.1	1540	2250
SB-133 (0-2)	0-2 ft	7/25/2023	77.0	112.0	332.0	977.0	935.0	1250.0	585.0	401.0	925.0	175.0	2,220	138.0	573	178	225	1370	1610
SB-134 (0-2)	0-2 ft	7/25/2023	85.2	212.0	590.0	1730.0	1650.0	2270.0	908.0	782.0	1740.0	300.0	4,550	238.0	987	81	127	2660	2980
SB-135 (0-2)	0-2 ft	7/25/2023	ND	ND	ND	5.1J	5.8	9.3	9.1	ND	11.2	ND	9.2	ND	3.9J	ND	ND	8.5	8.7
SB-136 (0-2)	0-2 ft	7/25/2023	ND	52.2J	152.0	438.0	427.0	540.0	255.0	182.0	413.0	74.8	975	57.2	257	ND	ND	668	729
SB-137 (0-2)	0-2 ft	7/25/2023	115	67.5	316.0	853.0	1100.0	1240.0	934.0	422.0	825.0	231.0	2,050	74.2	830	ND	ND	1040	1620
SB-138 (0-2)	0-2 ft	7/25/2023	38.3J	469	926.0	2190.0	2230.0	2680.0	1230.0	969.0	2110.0	336.0	5,190	447.0	1240	59.3	69.1	3640	3820
SB-139 (0-2)	0-2 ft	7/25/2023	164	122	573.0	1730.0	1630.0	1980.0	937.0	797.0	1610.0	226.0	3,760	134.0	963	67.5	82.6	2220	2940
SB-140 (0-2)	0-2 ft	7/25/2023	56.6J	46.5J	174.0	516.0	499.0	621.0	298.0	235.0	492.0	90.4	1,130	51.4J	300	ND	ND	754	843
SB-141 (0-2)	0-2 ft	7/25/2023	62.9	93.4	265.0	921.0	955.0	1220.0	563.0	432.0	862.0	175.0	1,960	95.0	573	ND	ND	1020	1460
SB-142 (0-2)	0-2 ft	7/25/2023	41.5	58.1	162.0	489.0	478.0	608.0	273.0	221.0	463.0	86.9	1,060	52.9	283	37.8	44	632	777
SB-143 (0-2)	0-2 ft	7/25/2023	9.6	12.1	43.6	157.0	160.0	194.0	92.0	76.5	146.0	27.7	321	11.6	94.3	16.7	17.7	145	249
SB-144 (0-2)	0-2 ft	7/25/2023	ND	ND	7.0	23.8	23.7	32.5	23.4	11.2	29.8	5.0J	57.2	ND	14.8	15	52.8	54.8	39.2
SB-145 (0-2)	0-2 ft	7/25/2023	80.1	86.1	265.0	896.0	901.0	1070.0	522.0	425.0	851.0	157.0	1,940	92.9	525	80.3	75.7	1080	1480
SB-146 (0-2)	0-2 ft	7/25/2023	75.5	1,000.0	1890.0	3250.0	3060.0	3850.0	1750.0	1450.0	2960.0	524.0	8,240	1070.0	1820	407	821	7210	5580

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TABLE 2 SOIL ANALYTICAL SUMMARY			POLYCYCLIC AROMATIC HYDROCARBONS (PAH)															
Michigan Department of Environment, Great Lakes, and Energy Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013, GSI Protection Criteria Updated June 25, 2018 and Volatilization of Indoor Air Pathway Screening levels from the EGLE Guidance Document for the Vapor Intrusion Pathway dated May 2013, Appendix D, updated September 4, 2020.			Acenaphthylene	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
CAS Number			208968	83329	120127	56553	50328	205992	191242	207089	218019	53703	206440	86737	193395	91576	91203	85018	129000
Residential Drinking Water Protection Criteria*			5,900	300,000	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	3.90E+05	NLL	5.70E+04	35,000	5.60E+04	4.80E+05
Groundwater Surface Water Interface Protection Criteria* (XII)			ID	8,700	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	5,300	NLL	4,200	730	2,100	ID
Residential Volatilization to Indoor Air Pathway			NA	2.0e05 nc	1.3e07 nc	1.6e5 (MM) mut	NA	NA	NA	NA	NA	NA	NA	4.7E5 nc	NA	1,700 nc	330 (M) 67	1,700 nc	2.5e07 nc
Residential Direct Contact Criteria			1.60E+06	4.10E+07	2.30E+08	20,000	2,000	20,000	2.50E+06	200,000	2.00E+06	2,000	4.60E+07	2.70E+07	20,000	8.10E+06	1.60E+07	1.60E+06	2.90E+07
Nonresidental Direct Contact Criteria			5.20E+06	1.30E+08	7.30E+08	80,000	8,000	80,000	7.00E+06	800,000	8.00E+06	8,000	1.00E+08	8.70E+07	80,000	2.60E+07	5.20E+07	5.20E+06	8.40E+07
SAMPLE ID	SAMPLE DEPTH (feet below grade)	SAMPLE DATE	All results are expressed in ug/kg																
SB-147 (0-2)	0-2 ft	7/25/2023	55.0J	84.5	240.0	727.0	723.0	885.0	421.0	334.0	685.0	126.0	1,470	90.9	428	72.3	77.7	931	1180
SB-148 (0-2)	0-2 ft	7/25/2023	ND	45.5J	167.0	569.0	600.0	722.0	352.0	270.0	533.0	100.0	1,270	41.1J	358	ND	ND	586	928
SB-149 (0-2)	0-2 ft	7/25/2023	38.9J	110	243.0	589.0	597.0	733.0	371.0	279.0	559.0	115.0	1,360	159.0	373	109	186	961	940
SB-150 (0-2)	0-2 ft	7/25/2023	54.8J	85.7	340.0	789.0	776.0	917.0	444.0	355.0	749.0	140.0	1,900	92.5	448	95.3	88.2	1340	1380
SB-151 (0-2)	0-2 ft	7/25/2023	8.0	8.8	23.1	52.7	54.8	67.1	33.2	25.8	52.3	9.1	130	9.7	32.4	5.7	5.1J	82.7	92.7
SB-152 (0-2)	0-2 ft	7/25/2023	24.6	28.3	92.2	275.0	270.0	350.0	146.0	110.0	245.0	47.3	580.0	34.6	153	21.7	20.3	326	430
SB-153 (0-2)	0-2 ft	7/25/2023	19.6	18.6	63.4	224.0	241.0	316.0	148.0	99.2	213.0	43.8	474	23.9	146	35.9	28	254	365
SB-154 (0-2)	0-2 ft	7/25/2023	19.4	20.0	73.5	252.0	269.0	340.0	168.0	114.0	239.0	48.7	534	27.8	165	40.3	34.4	265	427
SB-155 (0-2)	0-2 ft	7/25/2023	20.9J	25.7	132.0	354.0	357.0	462.0	209.0	144.0	335.0	61.3	800	32.9	211	65	49.7	468	617
SB-156 (0-2)	0-2 ft	7/25/2023	ND	19.7J	52.9	146.0	162.0	224.0	107.0	69.8	149.0	28.9	311	19.9J	109	ND	ND	185	235
SB-157 (0-2)	0-2 ft	7/25/2023	31.6	44.6	118.0	407.0	322.0	444.0	199.0	165.0	417.0	49.4	747	59.4	192	134	167	446	657
SB-158 (0-2)	0-2 ft	7/25/2023	112	1,660	2790.0	5060.0	4840.0	5860.0	2620.0	2300.0	4710.0	853.0	12,400	2200.0	2780	1320	2280	13300	9370

Notes:

Notes in parentheses and standard abbreviations are from Part 201 Rules 299.1 - 299.50, dated June 25, 2018
ID = Insufficient Data To Develop Criterion
NA = Not Applicable
ND = Not Detected above laboratory reporting limits
NLV = Not Likely to Volatilize
NS = Not Sampled or Not Analyzed
M= The VIAP screening level may be below target detection limits (TDL). In accordance with SEC. 20120a(10) when the TDL for a hazardous substance is greater than the developed VIAP screening level, the TDL is used to evaluate the risk posed from the pathway.
nc = Non-Carcinogenetic
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
ND = Concentration is not detected above laboratory detection limits

* - Residential Drinking Water Criteria and Residential Groundwater Surface Water Interface Protection Criteria exceedances are not shown (site on municipal supply / no groundwater present; sea wall/sheet pile barrier along river)

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TABLE 3- STOCKPILE SOIL ANALYTICAL SUMMARY (METALS)			Michigan 10 Metals									
Michigan Department of Environment, Great Lakes, and Energy Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013, GSI Protection Criteria Updated June 25, 2018 and Volatilization of Indoor Air Pathway Screening levels from the EGLE Guidance Document for the Vapor Intrusion Pathway dated May 2013, Appendix D, updated September 4, 2020.			Arsenic	Barium (B)	Cadmium (B)	Chromium (Total) (B,H)	Copper (B)	Lead (B)	Mercury (Total) (B*,Z)	Selenium (B)	Silver (B)	Zinc (B)
CAS Number			7440382	7440393	7440439	7440473	7440508	7439921	7439976	7782492	7440224	7440666
Statewide Default Background Levels (µg/kg)			5,800	75,000	1,200	NA	32,000	21,000	130	410	1,000	47,000
Residential Drinking Water Protection Criteria* (µg/kg)			4,600	1.3E+06	6,000	30,000	5.8E+06	7.0E+05	1,700	4,000	4,500	2.4E+06
Groundwater Surface Water Interface Protection Criteria* (XII) (µg/kg)			4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)
Residential Volatilization to Indoor Air Pathway (µg/kg)			NA	NA	NA	NA	NA	NA	50 (M) 22	NA	NA	NA
Residential Direct Contact Criteria (µg/kg)			7,600	3.7E+07	550,000	7.9E+08	2.0E+07	400,000	160,000	2.6E+06	2.5E+06	1.7E+08
Nonresidential Direct Contact Criteria (µg/kg)			37,000	1.3E+08	2,200,000	1.0E+09	7.3E+07	900,000	580,000	9.6E+06	9.0E+06	6.3E+08
SAMPLE ID	SAMPLE DEPTH (feet below grade)	SAMPLE DATE	All results are expressed in µg/kg									
SP (E)-1	Stockpile	5/10/2023	6,640	116,000	1,120	13,400	38,900	164,000	526	5,400	126	132,000
SP (N)-1	Stockpile	5/10/2023	9,420	463,000	12,300	26,700	294,000	320,000	752	4,500	209	873,000
SP (N)-2	Stockpile	5/10/2023	7,190	353,000	4,650	18,400	172,000	304,000	588	4,440	124	258,000
SP (N)-3	Stockpile	5/10/2023	6,590	198,000	20,100	14,300	79,200	190,000	402	4,050	146	203,000
SP (N)-4	Stockpile	5/10/2023	7,300	304,000	7,220	24,200	175,000	252,000	464	4,020	103	309,000
SP (N)-5	Stockpile	5/10/2023	7,570	278,000	7,370	20,100	182,000	197,000	296	4,010	121	239,000
SP (N)-6	Stockpile	5/10/2023	10,300	482,000	13,900	28,500	383,000	434,000	711	5,400	212	493,000
SP (S)-1	Stockpile	5/10/2023	9,030	146,000	1,070	360,000	50,700	93,100	133J	3,790	65.7	121,000
DUP-1	Stockpile	5/10/2023	7,960	241,000	6,660	17,500	110,000	230,000	430	3,530	165	237,000

Notes:

Bold font indicates parameter exceeds the Statewide Default Background Level

Notes in parentheses and standard abbreviations are from Part 201 Rules 299.1 - 299.50, dated June 25, 2018

ID = Insufficient Data To Develop Criterion

NA = Not Applicable

ND = Not Detected above laboratory reporting limits

NLV = Not Likely to Volatilize

NS = Not Sampled or Not Analyzed

M= The VIAP screening level may be below target detection limits (TDL). In accordance with SEC. 20120a(10) when the TDL for a hazardous substance is greater than the developed VIAP screening level, the TDL is used to evaluate the risk posed from the pathway.

nc = Non-Carcinogenetic

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

ND or "<" = Concentration is not detected above laboratory detection limits

(B) = Background, as defined in R 2991.(b), may be substituted if higher than the calculated clean up criterion. Background levels may be less than criteria for some inorganic compounds

(B*) = Background, as defined in R 2991.(b), may be substituted if higher than the calculated clean up criterion. Background levels may be less than criteria for some inorganic compounds. However, for Mercury for the Volatilization to Indoor Air Pathway, this footnote does not apply.

(H) = Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 ug/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction. (If total chromium data is presented, that data shall be compared to the hex chrome cleanup criteria)

(Z) = Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.

* - Residential Drinking Water Criteria and Residential Groundwater Surface Water Interface Protection Criteria exceedances are not shown (site on municipal supply / no groundwater present; sea wall/sheet pile barrier along river)

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TABLE 4 - STOCKPILE SOIL ANALYTICAL SUMMARY (SEMI-VOLATILE & VOLATILE ORGANIC COMPOUNDS)			SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)																		VOLATILE ORGANIC COMPOUNDS
Michigan Department of Environment, Great Lakes, and Energy Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013, GSI Protection Criteria Updated June 25, 2018			Acenaphthylene	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Carbazole	Dibenzofuran	Remaining SVOCs	VOCs
CAS Number			208968	83329	120127	56553	50328	205992	191242	207089	218019	53703	206440	86737	193395	91576	91203	85018	129000	87688	132649	NA	NA
Residential Drinking Water Protection Criteria*			5,900	300,000	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	3.90E+05	NLL	5.70E+04	35,000	5.60E+04	4.80E+05	9,400	ID	NA	NA
Groundwater Surface Water Interface Protection Criteria* (XII)			ID	8,700	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	5,300	NLL	4,200	730	2,100	ID				
Residential Volatilization to Indoor Air Pathway			NA	2.0E05 nc	1.3E07 nc	1.6E5 (MM) mut	NA	NA	NA	NA	NA	NA	NA	4.7E5 nc	NA	1,700 nc	330 (M) 67	1,700 nc	2.5E07 nc	NA	4.10E+06	NA	NA
Residential Direct Contact Criteria			1.60E+06	4.10E+07	2.30E+08	20,000	2,000	20,000	2.50E+06	200,000	2.00E+06	2,000	4.60E+07	2.70E+07	20,000	8.10E+06	1.60E+07	1.60E+06	2.90E+07	5.30E+05	ID	NA	NA
Nonresidental Direct Contact Criteria			5.20E+06	1.30E+08	7.30E+08	80,000	8,000	80,000	7.00E+06	800,000	8.00E+06	8,000	1.00E+08	8.70E+07	80,000	2.60E+07	5.20E+07	5.20E+06	8.40E+07	2.40E+06	ID	NA	NA
SAMPLE ID	SAMPLE DEPTH (feet below grade)	SAMPLE DATE	All results are expressed in µg/kg																				
SP (E)-1	Stockpile	5/10/2023	ND	ND	255J	403	364J	426	ND	178J	384J	ND	925	ND	ND	ND	ND	928	736	ND	ND	ND	ND
SP (N)-1	Stockpile	5/10/2023	ND	225J	763	2,790	2,400	2,730	1,300	1,130	2,740	379	4,950	207J	1,210	ND	ND	3,230	5,220	ND	ND	ND	ND
SP (N)-2	Stockpile	5/10/2023	ND	ND	487	1,840	1,750	1,900	938	851	1,870	251J	3,620	ND	817	ND	ND	2,260	3,500	208J	ND	ND	ND
SP (N)-3	Stockpile	5/10/2023	ND	ND	ND	556	517	600	272J	255J	575	ND	1,030	ND	257J	ND	ND	642	1,080	ND	ND	ND	ND
SP (N)-4	Stockpile	5/10/2023	ND	ND	287J	892	851	979	421	417	881	ND	1,810	ND	400	ND	ND	1,060	1,640	ND	ND	ND	ND
SP (N)-5	Stockpile	5/10/2023	ND	684	1,440	3,430	3,110	3,380	1,530	1,600	3,170	391	8,730	717	1,460	ND	244J	7,080	8,010	593	460	ND	ND
SP (N)-6	Stockpile	5/10/2023	238J	1,000	3,290	7,970	6,400	7,470	3,260	2,210	7,330	982	15,400	1,390	2,680	200J	408	13,900	15,900	899	848	ND	ND
SP (S)-1	Stockpile	5/10/2023	ND	259J	611	1,290	1,160	1,240	479	679	1,380	ND	3,170	326J	440	ND	ND	3,140	2,890	207J	ND	ND	ND
DUP-1	Stockpile	5/10/2023	ND	ND	ND	517	472	560	217J	263J	531	ND	1,030	ND	194J	ND	ND	550	951	ND	ND	ND	ND

Notes:

Notes in parentheses and standard abbreviations are from Part 201 Rules 299.1 - 299.50, dated June 25, 2018
ID = Insufficient Data To Develop Criterion
NA = Not Applicable
M= The VIAP screening level may be below target detection limits (TDL). In accordance with SEC. 20120a(10) when the TDL for a hazardous substance is greater than the developed VIAP screening level, the TDL is used to evaluate the risk posed from the pathway.
nc = Non-Carcinogenetic
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
ND = Concentration is not detected above laboratory detection limits

ND = Not Detected above laboratory reporting limits
NLV = Not Likely to Volatilize
NS = Not Sampled or Not Analyzed
* - Residential Drinking Water Criteria and Residential Groundwater Surface Water Interface Protection Criteria exceedances are not shown (site on municipal supply / no groundwater present; sea wall/sheet pile barrier along river)

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TABLE 5- STOCKPILE SOIL ANALYTICAL SUMMARY (PCBs)			POLYCHLORINATED BIPHENYLS (PCBs)									
Michigan Department of Environment, Great Lakes, and Energy Soil: Residental Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013, GSI Protection Criteria Updated June 25, 2018			PCB-1248 (Aroclor 1248)	PCB-1232 (Aroclor 1232)	PCB-1262 (Aroclor 1262)	PCB-1260 (Aroclor 1260)	PCB-1016 (Aroclor 1016)	PCB-1254 (Aroclor 1254)	PCB-1268 (Aroclor 1268)	PCB-1242 (Aroclor 1242)	PCB-1221 (Aroclor 1221)	PCB Total
CAS Number			12672296	11141165	37324235	11096825	12674112	11097691	11100144	53469219	11104282	NA
Residential Drinking Water Protection Criteria* (µg/kg)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLL
Groundwater Surface Water Interface Protection Criteria* (XII) (µg/kg)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLL
Residential Volatilization to Indoor Air Pathway (µg/kg)			NA	NA	NA	NA	NA	NA	NA	NA	NA	DATA
Residential Direct Contact Criteria (µg/kg)			NA	NA	NA	NA	NA	NA	NA	NA	NA	1,000
Nonresidential Direct Contact Criteria (µg/kg)			NA	NA	NA	NA	NA	NA	NA	NA	NA	1,000
SAMPLE ID	SAMPLE DEPTH (feet below grade)	SAMPLE DATE	All results are expressed in ug/kg									
SP (E)-1	Stockpile	5/10/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP (N)-1	Stockpile	5/10/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP (N)-2	Stockpile	5/10/2023	ND	ND	6.9J	ND	ND	ND	ND	ND	ND	6.9
SP (N)-3	Stockpile	5/10/2023	ND	ND	7.5J	ND	ND	ND	ND	ND	ND	7.5
SP (N)-4	Stockpile	5/10/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP (N)-5	Stockpile	5/10/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP (N)-6	Stockpile	5/10/2023	ND	ND	6.0J	ND	ND	ND	ND	ND	ND	6
SP (S)-1	Stockpile	5/10/2023	9.8J	ND	ND	ND	ND	ND	ND	ND	ND	9.8
DUP-1	Stockpile	5/10/2023	ND	ND	14.2J	ND	ND	ND	ND	ND	ND	14.2

Notes:

NA = Not Available ND = Not Detected above laboratory reporting limits

DATA = Insufficient physical chemical parameters to calculate VIAP screening level for specified media NLL = Not Likely to Leach

* - Residential Drinking Water Criteria and Residential Groundwater Surface Water Interface Protection Criteria exceedances are not shown (site on municipal supply / no groundwater present; sea wall/sheet pile barrier along river)

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TABLE 6 SOIL GAS ANALYTICAL SUMMARY			POLYCYCLIC AROMATIC HYDROCARBONS (PAH)									Metals
Michigan Department of Environment, Great Lakes, and Energy Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013, GSI Protection Criteria Updated June 25, 2018 and Volatilization of Indoor Air Pathway Screening levels from the EGLE Guidance Document for the Vapor Intrusion Pathway dated May 2013, Appendix D, updated September 4, 2020.			Acenaphthylene	Acenaphthene	Anthracene	Benzo(a)anthracene	Fluorene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Mercury
CAS Number			208968	83329	120127	56553	86737	91576	91203	85018	129000	7439976
Residential Volatilization to Indoor Air Pathway (VIAP)			7,300	7,300	35,000	5.8	4,900	350	25	3.5	3,500	10
Nonresidential Volatilization to Indoor Air Pathway (VIAP)			11,000	11,000	51,000	33	7,200	510	59	5.1	5,100	15
SAMPLE ID	SAMPLE DEPTH (feet below grade)	SAMPLE DATE	All results are expressed in ug/m3									
Field Blank	Ambient air	8/16/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SG-1	4 ft	8/16/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SG-2	4 ft	8/16/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SG-3	4 ft	8/16/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SG-4	4 ft	8/16/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SG-5	4 ft	8/16/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SG-6	4 ft	8/16/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SG-7	4 ft	8/16/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Laboratory analytical results are compared to the EGLE Volatilization to Indoor Air Pathway (VIAP) Screening Levels dated September 4, 2020.

ND = Concentration is not detected above laboratory detection limits

all data represented in ug/m3 = Micrograms per cubic meter

APPENDIX IV
NOTIFICATION FORM

DUE CARE ACKNOWLEDGEMENT FORM
100 LENOX STREET
DETROIT, MICHIGAN 48215

The Property located at 100 Lenox Street, Detroit, Wayne County, Michigan meets the definition of a "facility" as that term is defined in Part 201 of the Natural Resources and Environmental Protection Act (NREPA), PA 451 of 1994, as amended (Part 201).

By authorizing this form, you are acknowledging the following:

You are aware this property is a "facility."

You are acknowledging you have received and reviewed the Due Care Evaluation Report prepared on behalf of City of Detroit Construction & Demolition Department, for 100 Lenox Street.

You have read and understand the Due Care Evaluation Report, applicable pathways, potential exposure of contamination and proper handling of material.

You have read and understand the potential exposure to third parties such as employees, contractors, utility workers, etc.

_____
Company Name

_____
Printed Name/Title

_____
Signature

_____
Date