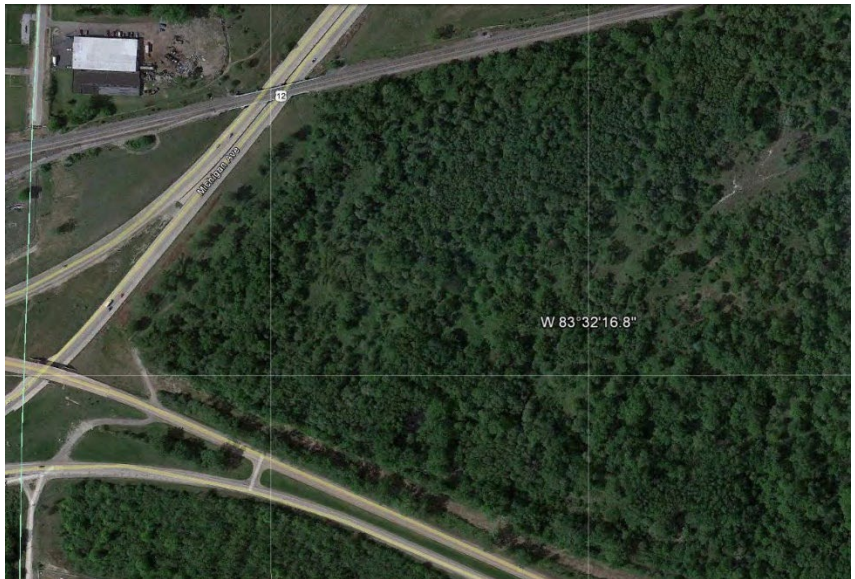


FILL ASSESSMENT REPORT

VAN BUREN INDUSTRIAL LAND WEST
RACER SITE NO. 11070
VAN BUREN TOWNSHIP, MICHIGAN 48111



MARCH 18, 2025

PREPARED FOR:

DETROIT REGIONAL PARTNERSHIP
1001 WOODWARD AVENUE, SUITE 800
DETROIT, MICHIGAN 48226



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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the Detroit Regional Partnership (DRP) through the Verified Industrial Properties (VIP) program. This program assists site owners to cover the costs associated with due diligence and promotion. To further market the site, a site investigation of the Van Buren Industrial Land was conducted in correspondence with the property owner, Revitalizing Auto Communities Environmental Response (RACER) Trust. The site is located northeast of the Ecorse Road / Michigan Avenue intersection in Van Buren Township, Wayne County, Michigan (Site). Figure 1, Site Location Map, depicts the location of the Site relative to nearby roads and major topographic features.

In 2012, on behalf of RACER, 25 test pits were installed by MSG to confirm the extent and type of disposed material present on the site. MSG returned to the site in November 2024 to conduct geotechnical sampling, environmental sampling and install additional test pits and delineate the disturbed boundary along the eastern and southeastern portions of the Site. The additional characterization study was undertaken to gain a more detailed understanding of the areas disturbed or exhibiting visual evidence of fill materials. Figure 2, Extent of Fill depicts that locations of the 2012 test pits, the 2024 geotechnical sample locations and 2024 test pit investigation described in this report.

The scope of work for this site investigation consisted of excavation of test pits on the eastern fill boundary to further delineate 2012 observations of debris, assess and visually determine extent of soil disturbance.

2.0 SITE DESCRIPTION

In preparation for this project, MSG conducted a review of file information and pertinent reports and records. The following reports were reviewed:

- Draft Current Conditions Report (CCR), dated September 2011, prepared by Conestoga-Rovers & Associates (CRA) including Appendices A through D (which provide a summary of recent activities associated with the site).
- Phase IA Site Characterization Report, dated December 2012, prepared by MSG, including Appendices A through F

The following subsections summarize information found in the RACER project file.

2.1 Site Location and Property Usage

The Site is located northeast of the Ecorse Road / Michigan Avenue (US-12) intersection in Van Buren Township, Wayne County, Michigan (Site). Figure 1 depicts the location of the Site relative to nearby roads and major topographic features. The Site is zoned for general industrial use and located in an area bounded by mixed commercial, agricultural, industrial, residential, and airport properties. The Site is bounded to the north by railroad tracks (operated by Norfolk Southern Railway), to the east by the former General Motors Corporation Service Parts Operations Warehouse, to the south by a Wayne County Utilities Easement and Ecorse Road and to the west by Michigan Avenue (US-12). The Site does not currently have an address associated with the Site. However, historical documentation referred to the Site being located at 5070 and/or 50700 Ecorse Road, Belleville, Michigan 48111.

MSG reviewed a Limited Phase I Environmental Site Assessment (ESA) conducted by Encore Environmental Consortium, LLC (EEC) in 2002 and updated in 2007. Results of the Phase I ESA indicated historical use of the Site remained undeveloped and cultivated for agricultural purposes as early as 1940. The Site remained vacant and undeveloped until approximately 1966 when it was occupied by Van Buren Development Company from approximately 1966 to 1969, where the Site was used to mine sand and subsequently operated as a landfill. The Site has been vacant

since the closure of the Van Buren Development Company landfill in 1969 when the Site was purchased by the General Motors Corporation (GMC).

As reported in the Phase I of the Environmental Site Assessment (ESA), one Recognized Environmental Condition (REC) was identified at the Site related to the historical landfill. Blasland, Bouck & Lee, Inc. (BBL) conducted a geophysical survey of the Site in July 2003, which identified numerous potential disposal trenches / areas. According to the Phase I ESA, the geophysical investigation revealed that landfilled waste may exist across approximately 30 to 40 acres in the western, northern, and central portions of the site. Among these areas are four landfill trench cells in the northeastern portion of the Site (identified as Areas of Interest AOI-1 through AOI-4), a landfill trench or fill area in the center of the Site (AOI-6), a potential landfill cell in the northwest corner of the Site (AOI-5), and several smaller isolated potential landfill pockets throughout the western and central sections of the Site (AOI-7).

Based on historical records identified and reported in the Phase I ESA, various wastes may have been disposed of at the Site, including:

- Ash generated by the Detroit incinerator;
- Waste generated by the City of Dearborn in the form of demolition waste and domestic garbage;
- A waste paper generated by Ford Motor Company; and
- The crankcase oil sludge generated by the Dearborn Refinery (approximately 1,500 to 1,800 gallons).

Records from the Phase I ESA indicate that crankcase oil sludge may contain sulfuric acid, heavy metals, polychlorinated biphenyls (PCBs), and other organic chemicals. Several aboveground waste items were observed and reported in the Phase I ESA. These items included general municipal waste, building construction materials, household appliances, furniture, piping, transportation equipment, electrical components, hazardous material containers, scrap metal, batteries, and many other unidentifiable items. The initial characterization study included analysis for target compound list for groundwater and soils that included volatile organic compounds (VOCs); semi-volatile organic compounds (SVOCs); target metals and polychlorinated biphenyls (PCBs). Investigation activities have been ongoing since late 2011. Approximately 25 test pits, 13 soil borings, 12 monitoring wells, and three surface water samples were collected to characterize the extent of waste materials and the geology and hydrogeology associated with the Site Investigations. The Investigations revealed the waste consisting primarily of general refuse and construction debris. Contaminants identified included VOCs, SVOCs, and metals. Minimal impacts to soil and surface water were identified. Groundwater impacts were primarily by iron and manganese. VOCs (benzene) in groundwater appeared to be limited to the northern perimeter of the Site. SVOCs and PCBs have been removed from the groundwater target compound list. Additional groundwater investigations have been conducted to obtain a better understanding of the extent of impacts beyond the Site, with the primary objective of delineating off-Site impacts to groundwater. Approximately 15 additional monitoring wells and 40 soil borings were completed in order to achieve delineation objectives, as well as delineate benzene in groundwater detected in one monitoring well along the northern perimeter of the Site. Subsequent semi-annual groundwater monitoring identified metals (primarily iron) in groundwater above applicable criteria: Michigan Part 201 Residential Health-Based Drinking Water (DW) and/or Groundwater Surface Water Interface Criteria (GSI) at certain off-Site locations.

2.2 Current Property Ownership

The most recent Site ownership changes are due to GMC filing for bankruptcy under Chapter 11 of the United States Bankruptcy Code on June 1, 2009. Pursuant to a bankruptcy court order on July 10, 2009, Motors Liquidation Company (MLC) (formerly GMC) retained ownership of the Site and on October 20, 2010, entered into a settlement agreement with federal and state governmental authorities regarding MLC's environmental obligations at its remaining properties. According to the settlement agreement, RACER Trust became effective March 31, 2011 and interests in the Site were

then transferred to RACER. The Site is currently owned by RACER Properties LLC, a wholly owned subsidiary of RACER Trust, and remains comprised of vacant land.

3.0 PHYSICAL SETTING

MSG reviewed available soils information and geological resource information to determine the physical setting of the Site and surrounding area. This information was reviewed to assess the topographic and subsurface characteristics of the Site and surrounding area, and how those characteristics may ultimately influence potential environmental conditions at and surrounding the Site.

3.1 Topography

The United States Geological Survey (USGS) Ypsilanti East, Michigan 7.5 Minute Quadrangle map, dated 1967, photo revised 1983, and the Denton, Michigan 7.5 Minute Quadrangle map, dated 1969, photo revised 1973 and 1980, were reviewed for topographical information in the vicinity of the Site (Figure 1). Figure 1 depicts a majority of the surface topography in the vicinity of the Site gradually sloping to the south-southeast with the ground surface elevation ranging between approximately 715 feet above mean sea level (msl) to approximately 710 feet above msl. A section of divided highway (Michigan Avenue / US-12) lies adjacent west of the Site in a roadway cut at an elevation of approximately 700 to 705 feet above msl and the western edge of the property grades steeply down to the Michigan Avenue / US-12 roadway.

3.2 Hydrogeologic Setting

A United States Geological Survey (USGS) 7.5-minute topographical maps titled Ypsilanti East, Michigan and Denton, Michigan were reviewed for the Site and surrounding area (Figure 1). The nearest surface water bodies to the Site are Sines Drain, located approximately 2,000 feet north of the Site, an unnamed intermittent drain located approximately 4,000 feet west of the Site and an unnamed drain approximately 3,800 feet east of the Site. Based on the area topography and the presence of nearby wetland areas, the estimated depth to groundwater in the vicinity of the Site is approximately less than 10 feet below ground surface (bgs). As noted in the Phase I ESA, groundwater was previously encountered at the Site at depths ranging from 4.5 to 5.5 feet bgs. Based on the area topography and proximity of the drains, the inferred localized groundwater flow direction is likely to the east. In addition, during a subsurface investigation at the adjacent GM Warehouse, the groundwater flow direction was determined to be towards the east. However, localized groundwater flow direction may vary based on several factors, especially due to the roadway cut for Michigan Avenue / US-12 located adjacent west of the Site.

Based on the map of the Quaternary Geology of Southern Michigan, compiled in 1982 by W.R. Farrand and published by the Michigan Geological Survey in Lansing, Michigan, the Site is located in an area that consists of lacustrine sand and gravel. Typically, these deposits contain pale brown to pale reddish brown fine to medium grained sand, occurring chiefly as former beach and near-offshore littoral deposits of the glacial Great Lakes.

According to the map titled Bedrock Geology of Southern Michigan, compiled in 1987 by Randall L. Milstein and published by the Michigan Department of Natural Resources, the bedrock beneath the site consists of the late Devonian-aged Antrim Shale formation. A review of historical water supply well logs from the surrounding area indicates bedrock lies approximately 90 to 97 feet bgs and approximately 70 to 80 feet of lacustrine clay deposits overlie bedrock in the site vicinity.

4.0 OBJECTIVES AND SCOPE OF WORK

The overall project objective is to visually observe and locate the extent of fill present at the Site and delineate the eastern extent of the fill debris field boundary. MSG performed the following scope of work:

- Excavated 42 test pits (TP 100 through TP 141).
- Collected GPS coordinate points of each test pit location and the determined a revised debris field boundary.
- Prepared this summary report.

5.0 METHODOLOGIES

The investigative methodologies employed included the excavation of test pits. Test pits locations were focused around the southeastern portion of the property, to verify the extent of disturbance defined in 2012, and that could be visually assessed in the April 26, 1970 aerial photograph. Clearing and grubbing, as needed, was completed to access test pit locations utilizing a Takeuchi TB240 excavator. A summary of the daily work performed is present in *Appendix A, Daily Field Reports*.

5.1 Test Pits and Waste Documentation

During the period from November 5 through November 8, 2024, MSG excavated a total of 42 test pits at the Site. The general purpose of the test pits was to visually confirm the extents of disposed material and types of disposed material. Test pits were installed using a Takeuchi TB240 excavator. While no soil was collected for analysis, gross decontamination methods were utilized between test-pits to preclude the transfer of soil between test pit locations.

The vertical extent of the test pit excavations were generally two (2) to four (4) feet bgs to determine if there was debris or no debris in that area. The test pits ranged from approximately 10 feet to 40 feet in length. All excavated materials were temporarily staged adjacent to the test pit locations during the investigation. A visual evaluation of the soil conditions was documented in the test pit logs. The excavated material was returned to the excavation and compacted using the excavator bucket, returning the surface to a level state, and a GPS coordinate was collected.

Photographs were taken of each test pit and can be viewed in *Appendix B, Photolog*.

6.0 INVESTIGATION ACTIVITIES AND RESULTS

The following section describes the results from the test pits investigation and the extents and types of disposed material discovered.

6.1 Extent of Fill

Initially, test pits were dug near the southern fence line in order to determine where the debris boundary lay, and then they were dug along east-west transects heading northward. The revised boundary of the fill extent is shown in *Figure 2, Extent of Fill*. The boundary line depicted in Figure 2, Extent of Fill, was found to have debris on the northwest side and sand on the southeast side of the extent of fill boundary line. A majority of the debris observed consisted of construction debris such as glass, plastic, rubber, cement, bricks, ash, glass bottles and containers, lumber, asphalt, paper products, and metal objects. The test pit field logs are available in *Appendix C, Test Pit Field Logs*.

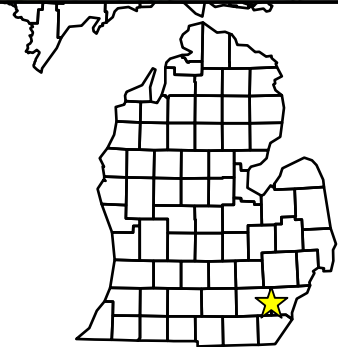
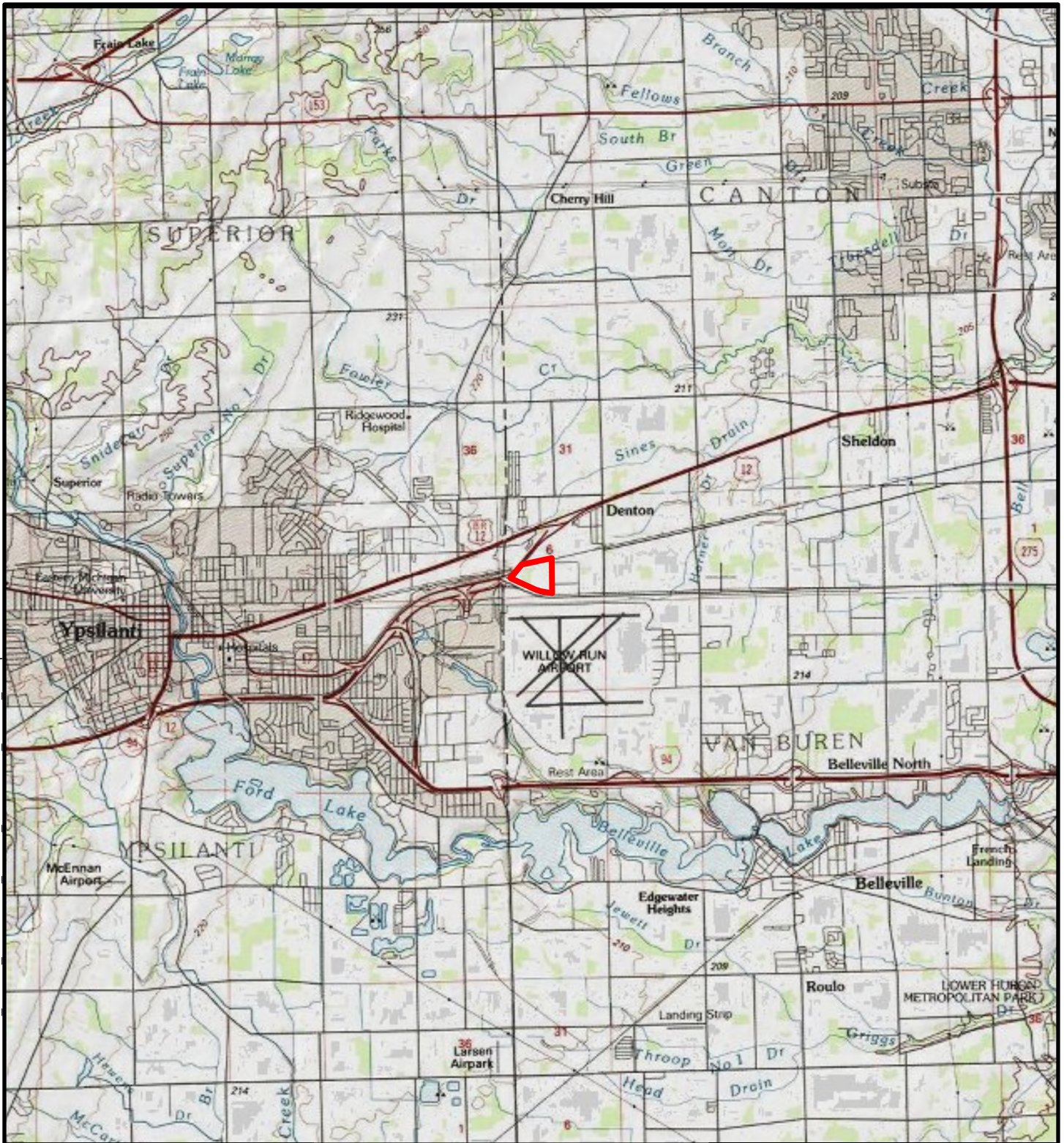
This information was requested to inform future construction plans and ensure that any potential hazards are identified and mitigated early in the planning process. Understanding the extent of the fill boundary is crucial

for assessing and planning future excavation or construction activities. It helps in identifying areas of instability that may require remediation. Overall, understanding the fill boundaries is essential for planning future site activities.

FIGURES



Date Saved: 1/28/2025 2:27 PM Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere
Path: W:\Projects\2024\1000-1199\2401193\ENR\GAPPS\GIS\24001193_TestPits_GIS\2401193_TestPits_GIS.aprx



- ★ Site Location
- ▭ Site Boundary

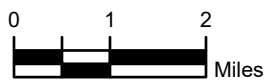
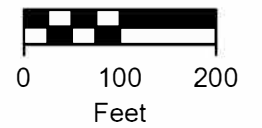
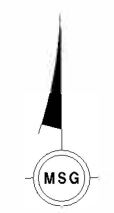


FIGURE 1
SITE LOCATION
RACER: Van Buren Industrial Land
Michigan Ave & Ecorse Rd
Van Buren Twp, Wayne County, Michigan

DATE	DRAWN BY	DESIGNED BY	PROJECT NO.
1/28/2025	JWW	JWW	401.2401193.000

Date Saved: 3/18/2025 5:07 PM Layout: Fig02_Extent_of_Fill
Path: W:\Projects\2024\1193\ENGAPPS\GIS\2401193_TestPits_GIS.aprx



- 2012 Test Pits
- 2024 Test Pits
- - - Estimated Debris Delineation Line
- ▭ Site Boundary

Notes:
• Basemap Source: ESRI World Imagery Service



FIGURE 2
Extent of Fill

RACER: Van Buren Industrial Land West
Michigan Ave & Ecorse Rd
Van Buren Twp, Wayne County, Michigan

DATE 3/18/2025	DRAWN BY JWW	DESIGNED BY KRB	PROJECT NO. 401.2401193.000
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APPENDIX A
DAILY FIELD REPORT





DAILY FIELD REPORT

Client: RACER
Project: Debris Delineation Test Pits

Report No.: 11.05.2024
Job No.: 401.240193.000

Date: 11/05/2024 **Day:** Tuesday **Temp:** 68° F (AM) 73° F (PM)
MSG Personnel: EMB/ZDK **Cloud Cover:** 0% (AM) 0% (PM)
Precip.: N/A (AM) N/A (PM)
Personnel: NA
MSG Hours On-Site: ~ 9 hours

Contractors Information		
Contractor: <u>MSG</u>	No. Men and Type: <u>2: Operator & Laborer/Spotter</u>	Equipment Type: <u>Takeuchi TB240 Excavator</u>

Summary of Work Performed:

- Excavate eight (8) test pits to approximately 2'- 4' bgs to find the edge of a debris field and track it across the site.

Field Notes:

- 0800: MSG onsite
 - Conduct daily safety/kickoff meeting
 - Inspect the equipment before use.
- 0810 – 1700: Excavated eight (8) test pits
- 1710 – MSG lock up equipment and site gate.
 - MSG offsite

Supporting Documentation								
	Yes	No		Yes	No		Yes	No
Photograph Taken	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Samples Collected	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Boring/MW Logs	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Photo Log Attached	<input type="checkbox"/>	<input checked="" type="checkbox"/>	COC Attached	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Field Note Book Taken	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Problem Identification and Corrective Measures
N/A
 Resolved? Yes No



DAILY FIELD REPORT

Client: RACER
Project: Debris Delineation Test Pits

Report No.: 11.06.2024
Job No.: 401.240193.000

Date: 11/06/2024 **Day:** Wednesday **Temp:** 59° F (AM) 62° F (PM)
MSG Personnel: EMB/ZDK **Cloud Cover:** 0% (AM) 0% (PM)
Precip.: N/A (AM) N/A (PM)
Personnel: NA
MSG Hours On-Site: ~ 9 hours

Contractors Information
 Contractor: MSG No. Men and Type: 2: Operator & Laborer/Spotter Equipment Type: Takeuchi TB240 Excavator

Summary of Work Performed:
 • Excavate 16 test pits to approximately 2'- 4' bgs to find the edge of a debris field and track it across the site.

Field Notes:
 • 0800: MSG onsite
 o Conduct daily safety/kickoff meeting
 o Inspect the equipment before use.
 • 0810 – 1700: Excavated 16 test pits
 • 1710 – MSG lock up equipment and site gate.
 o MSG offsite

Supporting Documentation

	Yes	No		Yes	No		Yes	No
Photograph Taken	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Samples Collected	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Boring/MW Logs	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Photo Log Attached	<input type="checkbox"/>	<input checked="" type="checkbox"/>	COC Attached	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Field Note Book Taken	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Problem Identification and Corrective Measures
N/A
 Resolved? Yes No



DAILY FIELD REPORT

Client: RACER **Report No.:** 11.07.2024
Project: Debris Delineation Test Pits **Job No.:** 401.240193.000

Date: 11/07/2024 **Day:** Thursday **Temp:** 47° F (AM) 57° F (PM)
MSG Personnel: EMB/ZDK **Cloud Cover:** 0% (AM) 0% (PM)
Precip.: N/A (AM) N/A (PM)
Personnel: NA
MSG Hours On-Site: ~ 9 hours

Contractors Information		
Contractor:	No. Men and Type:	Equipment Type:
<u>MSG</u>	<u>2: Operator & Laborer/Spotter</u>	<u>Takeuchi TB240 Excavator</u>

Summary of Work Performed:

- Excavate 16 test pits to approximately 2'-4' bgs to find the edge of a debris field and track it across the site.

Field Notes:

- 0800: MSG onsite
 - Conduct daily safety/kickoff meeting
 - Inspect the equipment before use.
- 0810 – 1700: Excavated 16 test pits
- 1710 – MSG lock up equipment and site gate.
 - MSG offsite

Supporting Documentation								
	Yes	No		Yes	No		Yes	No
Photograph Taken	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Samples Collected	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Boring/MW Logs	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Photo Log Attached	<input type="checkbox"/>	<input checked="" type="checkbox"/>	COC Attached	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Field Note Book Taken	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Problem Identification and Corrective Measures

N/A

Resolved? Yes No



DAILY FIELD REPORT

Client: RACER Report No.: 11.08.2024
 Project: Debris Delineation Test Pits Job No.: 401.240193.000

Date: 11/08/2024 Day: Friday Temp: 45° F (AM) 60° F (PM)
 MSG Personnel: EMB/ZDK Cloud Cover: 0% (AM) 0% (PM)
 Precip.: N/A (AM) N/A (PM)
 Personnel: NA
 MSG Hours On-Site: ~ 2.5 hours

Contractors Information		
Contractor:	No. Men and Type:	Equipment Type:
MSG	2: Operator & Laborer/Spotter	Takeuchi TB240 Excavator
		Trimble GPS

Summary of Work Performed:

- Excavate two (2) test pits to approximately 2'-4' bgs to find the edge of a debris field and track it across the site.
- GPS all test pits and walk the delineation line

Field Notes:

- 0800: MSG onsite
 - Conduct daily safety/kickoff meeting
 - Inspect the equipment before use.
- 0810 – 0930: Excavated two (2) test pits
- 0930 – 1030: GPS all test pits and walk the delineation line
- 1030: Started soil collection.

Supporting Documentation								
	Yes	No		Yes	No		Yes	No
Photograph Taken	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Samples Collected	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Boring/MW Logs	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Photo Log Attached	<input type="checkbox"/>	<input checked="" type="checkbox"/>	COC Attached	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Field Note Book Taken	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Problem Identification and Corrective Measures
 N/A
 Resolved? Yes No

APPENDIX B
PHOTOLOG





TP-100_0-2_111052024
Debris present



TP-101_0-2_111052024
Debris present in western portion of trench



TP-102_0-2_111052024
Debris present



TP-103_0-2_111052024
Debris present



TP-104_0-2_111052024
No debris present



TP-105_0-2_111052024
Debris present

401.2401193
Van Buren RACER Property
Photographs taken by: Eddie Bosas on November 5-8, 2024



TP-106_0-2_11052024
No debris present



TP-107_0-2_11052024
Debris present



TP-108_0-2_11062024
Debris present



TP-109_0-2_11062024
Debris Present



TP-110_0-2_11062024
Debris present



TP-111_0-3_11062024
Debris present

401.2401193
Van Buren RACER Property
Photographs taken by: Eddie Bosas on November 5-8, 2024



TP-112_0-3_11062024
Debris present



TP-113_0-3_11062024
No debris present



TP-114_0-3_11062024
No debris present



TP-115_0-3_11062024
No debris present



TP-116_0-3_11062024
Debris present



TP-117_0-3_11062024
Debris present

401.2401193
Van Buren RACER Property
Photographs taken by: Eddie Bosas on November 5-8, 2024



TP-118_0-3_11062024
Debris present



TP-119_0-3_11062024
Debris present



TP-120_0-3_11062024
No debris present



TP-121_0-3_11062024
No debris present



TP-122_0-3_11062024
No debris present



TP-123_0-3_11062024
Debris present

401.2401193
Van Buren RACER Property
Photographs taken by: Eddie Bosas on November 5-8, 2024



TP-124_0-3_11072024
No debris present



TP-125_0-3_11072024
No debris present



TP-126_0-3_11072024
No debris present



TP-127_0-3_111072024
Debris present



TP-128_0-4_11072024
Debris present



TP-129_0-3_11072024
No debris present

401.2401193
Van Buren RACER Property
Photographs taken by: Eddie Bosas on November 5-8, 2024



TP-130_0-3_11072024
Debris present



TP-131_0-4_11072024
Debris present



TP-132_0-4_11072024
Debris present



TP-133_0-4_11072024
Debris present



TP-134_0-4_11072024
No debris present



TP-135_0-4_11072024
No debris present

401.2401193
Van Buren RACER Property
Photographs taken by: Eddie Bosas on November 5-8, 2024



TP-136_0-4_11072024
No debris present



TP-137_0-4_11072024
Debris present



TP-138_0-4_11072024
No debris present



TP-139_0-3_11072024
Debris present



TP-140_0-4_11082024
No debris present



TP-141_0-4_11082024
No debris present

APPENDIX C
TEST PIT FIELD LOGS





TEST PIT ID: TP- 100

The Mannik & Smith Group, Inc. PAGE 1 OF 1
 2365 Haggerty Road South, Canton, Michigan 48188
 ph: (734)-397-3100 fax: (734)-397-3131

CLIENT Detroit Regional Partnership PROJECT NAME Van Buren Industrial Land
 PROJECT NUMBER 401.2401193 PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI
 DATE STARTED 11/05/2024 COMPLETED 11/05/2024 TRENCH WIDTH: 24"
 DRILLING CONTRACTOR MSG SURVEY COORDINATES: _____
 DRILLING METHOD Excavator - TV250 SURFACE ELEV.: N/A
 LOGGED BY ZJK CHECKED BY _____ WATER LEVEL AT TIME OF TRENCHING: _____
 NOTES Excavation backfilled and compacted with excavator STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0	[Hatched Pattern]	0-1 Topsoil/organics 1-2 sand / few pieces of cement			TP-100.0-2. 11052024 25' long
5					
10					



TEST PIT ID: TP- 101

The Mannik & Smith Group, Inc.
 2365 Haggerty Road South, Canton, Michigan 48188
 ph: (734)-397-3100 fax: (734)-397-3131

CLIENT Detroit Regional Partnership PROJECT NAME Van Buren Industrial Land
 PROJECT NUMBER 401.2401193 PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI
 DATE STARTED 11/05/2024 COMPLETED 11/05/2024 TRENCH WIDTH: 24"
 DRILLING CONTRACTOR MSG SURVEY COORDINATES: _____
 DRILLING METHOD Excavator - TV250 SURFACE ELEV.: N/A
 LOGGED BY ZOK CHECKED BY _____ ∇ WATER LEVEL AT TIME OF TRENCHING: _____
 NOTES Excavation backfilled and compacted with excavator ▼ STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0		Eastern 30'			
0-1		organics / TOPSOIL			TP-101.0-2.11/05/2024 40' long trench E → W
1-2		sand w/ Asphalt slab at the bottom			
5					
10		western 10'			
		0-1 organics / debris (Brick, tar paper)			
		1-2 Brick and concrete chunks			



TEST PIT ID: TP- 102

The Mannik & Smith Group, Inc. PAGE 1 OF 1
 2365 Haggerty Road South, Canton, Michigan 48188
 ph: (734)-397-3100 fax: (734)-397-3131

CLIENT Detroit Regional Partnership PROJECT NAME Van Buren Industrial Land
 PROJECT NUMBER 401.2401193 PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI
 DATE STARTED 11/05/2024 COMPLETED 11/05/2024 TRENCH WIDTH: 24"
 DRILLING CONTRACTOR MSG SURVEY COORDINATES: _____
 DRILLING METHOD Excavator - TV250 SURFACE ELEV.: N/A
 LOGGED BY ZDK CHECKED BY _____ WATER LEVEL AT TIME OF TRENCHING: _____
 NOTES Excavation backfilled and compacted with excavator STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0					
5		<p>0-1 TOPSOIL/organics</p> <p>1-2 Brick / concrete / wood debris</p>			<p>TP-102.0-2.11052024</p> <p>20' long trench</p>
10					



TEST PIT ID: TP- 103

The Mannik & Smith Group, Inc.
 2365 Haggerty Road South, Canton, Michigan 48188
 ph: (734)-397-3100 fax: (734)-397-3131

PAGE 1 OF 1

CLIENT Detroit Regional Partnership PROJECT NAME Van Buren Industrial Land
 PROJECT NUMBER 401.2401193 PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI
 DATE STARTED 11/05/2024 COMPLETED 11/05/2024 TRENCH WIDTH: 24"
 DRILLING CONTRACTOR MSG SURVEY COORDINATES: _____
 DRILLING METHOD Excavator - TV250 SURFACE ELEV.: N/A
 LOGGED BY ZDK CHECKED BY _____ WATER LEVEL AT TIME OF TRENCHING: _____
 NOTES Excavation backfilled and compacted with excavator STATIC WATER LEVEL AFTER TRENCHING: N/A


DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0		0-1 TOP SOIL/organics			TP-103.0-2.11/05/2024 20' long trench
5		1-2 Brick, concrete, metal, pipes, rebar debris			
10					



TEST PIT ID: TP- 111

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CLIENT Detroit Regional Partnership PROJECT NAME Van Buren Industrial Land
PROJECT NUMBER 401.2401193 PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI
DATE STARTED 11/06/2024 COMPLETED 11/06/2024 TRENCH WIDTH: 24"
DRILLING CONTRACTOR MSG SURVEY COORDINATES: _____
DRILLING METHOD Excavator - TV250 SURFACE ELEV.: N/A
LOGGED BY ZDK CHECKED BY _____ WATER LEVEL AT TIME OF TRENCHING: _____
NOTES Excavation backfilled and compacted with excavator STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0					
		<p>0-1 organics / topsoil 1-2 sand, some debris 2-3 debris, brick, plastic, metal</p>			Trench Length: 15'
5					
10					



TEST PIT ID: TP- 112

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CLIENT Detroit Regional Partnership PROJECT NAME Van Buren Industrial Land
PROJECT NUMBER 401.2401193 PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI
DATE STARTED 11/06/2024 COMPLETED 11/06/2024 TRENCH WIDTH: 24"
DRILLING CONTRACTOR MSG SURVEY COORDINATES: _____
DRILLING METHOD Excavator - TV250 SURFACE ELEV.: N/A
LOGGED BY ZDK CHECKED BY _____ WATER LEVEL AT TIME OF TRENCHING: _____
NOTES Excavation backfilled and compacted with excavator STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0					
		0-1 organics/soil			Trench Length: 10'
		1-2 sand			
		2-3 glass, brick, plastic debris			
5					
10					



TEST PIT ID: TP- 114

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CLIENT Detroit Regional Partnership

PROJECT NAME Van Buren Industrial Land

PROJECT NUMBER 401.2401193

PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI

DATE STARTED 11/06/2024 COMPLETED 11/06/2024

TRENCH WIDTH: 24"

DRILLING CONTRACTOR MSG

SURVEY COORDINATES: _____

DRILLING METHOD Excavator - TV250


SURFACE ELEV.: N/A

LOGGED BY ZDK CHECKED BY _____

▽ WATER LEVEL AT TIME OF TRENCHING: _____

NOTES Excavation backfilled and compacted with excavator

▽ STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0					
		<u>0-1 organics/soil</u> <u>1-3 sand</u>			<u>Trench Length: 15'</u>
5					
10					



TEST PIT ID: TP- 119

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CLIENT Detroit Regional Partnership

PROJECT NAME Van Buren Industrial Land

PROJECT NUMBER 401.2401193

PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI

DATE STARTED 11/06/2024 COMPLETED 11/06/2024

TRENCH WIDTH: 24"

DRILLING CONTRACTOR MSG

SURVEY COORDINATES: _____

DRILLING METHOD Excavator - TV250

SURFACE ELEV.: N/A

LOGGED BY ZDK CHECKED BY _____

▼ WATER LEVEL AT TIME OF TRENCHING: _____

NOTES Excavation backfilled and compacted with excavator

▼ STATIC WATER LEVEL AFTER TRENCHING: N/A

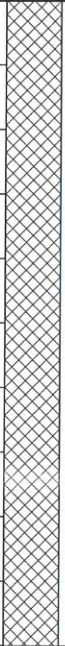

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0					
		0-1 organics/soils			Trench Length: 15'
		1-2 sand			
		2-3 Debris brick, glass, plastic			
5					
10					



TEST PIT ID: TP- 122

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CLIENT Detroit Regional Partnership PROJECT NAME Van Buren Industrial Land
 PROJECT NUMBER 401.2401193 PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI
 DATE STARTED 11/06/2024 COMPLETED 11/06/2024 TRENCH WIDTH: 24"
 DRILLING CONTRACTOR MSG SURVEY COORDINATES: _____
 DRILLING METHOD Excavator - TV250 SURFACE ELEV.: N/A
 LOGGED BY ZDK CHECKED BY _____ WATER LEVEL AT TIME OF TRENCHING:
 NOTES Excavation backfilled and compacted with excavator STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0		0-1 organics / topsoil 1-3 sand			Trench Length: 12'
5		10 			



TEST PIT ID: TP- 123

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CLIENT Detroit Regional Partnership

PROJECT NAME Van Buren Industrial Land

PROJECT NUMBER 401.2401193

PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI

DATE STARTED 11/06/2024 COMPLETED 11/06/2024

TRENCH WIDTH: 24"

DRILLING CONTRACTOR MSG

SURVEY COORDINATES: _____

DRILLING METHOD Excavator - TV250

SURFACE ELEV.: N/A

LOGGED BY ZDK CHECKED BY _____

WATER LEVEL AT TIME OF TRENCHING: _____

NOTES Excavation backfilled and compacted with excavator

STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0		0-1 organics/topsoil 1-3 Brick, glass, carpet debris			Trench Length: 12'
5		10	▼		




TEST PIT ID: TP- 124

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CLIENT Detroit Regional Partnership PROJECT NAME Van Buren Industrial Land
 PROJECT NUMBER 401.2401193 PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI
 DATE STARTED 11/07/2024 COMPLETED 11/07/2024 TRENCH WIDTH: 24"
 DRILLING CONTRACTOR MSG SURVEY COORDINATES: _____
 DRILLING METHOD Excavator - TV250 SURFACE ELEV.: N/A
 LOGGED BY ZDK CHECKED BY _____ WATER LEVEL AT TIME OF TRENCHING: _____
 NOTES Excavation backfilled and compacted with excavator STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0		0-1 organics/TOPSOIL			
1-3		sand			Trench Length: 12'
5					
10					



TEST PIT ID: TP- 126

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CLIENT Detroit Regional Partnership

PROJECT NAME Van Buren Industrial Land

PROJECT NUMBER 401.2401193

PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI

DATE STARTED 11/07/2024 COMPLETED 11/07/2024

TRENCH WIDTH: 24"

DRILLING CONTRACTOR MSG

SURVEY COORDINATES: _____

DRILLING METHOD Excavator - TV250

SURFACE ELEV.: N/A

LOGGED BY ZPK CHECKED BY _____

▽ WATER LEVEL AT TIME OF TRENCHING: _____

NOTES Excavation backfilled and compacted with excavator

▽ STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0		0-1 Organics/topsoil			Trench Length: 10'
		1-3 Sand			
5					
10					



TEST PIT ID: TP- 128

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CLIENT Detroit Regional Partnership PROJECT NAME Van Buren Industrial Land
 PROJECT NUMBER 401.2401193 PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI
 DATE STARTED 11/07/2024 COMPLETED 11/07/2024 TRENCH WIDTH: 24"
 DRILLING CONTRACTOR MSG SURVEY COORDINATES: _____
 DRILLING METHOD Excavator - TV250 SURFACE ELEV.: N/A
 LOGGED BY ZDK CHECKED BY _____ WATER LEVEL AT TIME OF TRENCHING: _____
 NOTES Excavation backfilled and compacted with excavator STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0					
	X	0-1 topsoil/organics			Trench Length: 15' Petroleum odor @ 3.5'
	X	1-2 sand			
	X	2-3 glass, brick, rubber debris.	16		
	X	3-4 Metal debris	28		
5					
10					



TEST PIT ID: TP- 129

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CLIENT Detroit Regional Partnership

PROJECT NAME Van Buren Industrial Land

PROJECT NUMBER 401.2401193

PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI

DATE STARTED 11/07/2024 COMPLETED 11/07/2024

TRENCH WIDTH: 24"

DRILLING CONTRACTOR MSG

SURVEY COORDINATES: _____

DRILLING METHOD Excavator - TV250

SURFACE ELEV.: N/A

LOGGED BY ZDK CHECKED BY _____

▽ WATER LEVEL AT TIME OF TRENCHING: _____

NOTES Excavation backfilled and compacted with excavator

▽ STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0					
5	X	0-1 topsoil/organics 1-3 Sand			Trench Length: 15'
10					



TEST PIT ID: TP- 130

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CLIENT Detroit Regional Partnership

PROJECT NAME Van Buren Industrial Land

PROJECT NUMBER 401.2401193

PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI

DATE STARTED 11/07/2024 COMPLETED 11/07/2024

TRENCH WIDTH: 24"

DRILLING CONTRACTOR MSG

SURVEY COORDINATES: _____

DRILLING METHOD Excavator - TV250

SURFACE ELEV.: N/A

LOGGED BY ZDK CHECKED BY _____

▽ WATER LEVEL AT TIME OF TRENCHING: _____

NOTES Excavation backfilled and compacted with excavator

▽ STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0					
		0-1 Organics / topsoil			
		1-2 Sand			
		2-3 Brick, wood, plastic			
		Debris.			
5					

Trench Length: 15'



TEST PIT ID: TP- 131

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CLIENT Detroit Regional Partnership PROJECT NAME Van Buren Industrial Land
 PROJECT NUMBER 401.2401193 PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI
 DATE STARTED 11/07/2024 COMPLETED 11/07/2024 TRENCH WIDTH: 24"
 DRILLING CONTRACTOR MSG SURVEY COORDINATES: _____
 DRILLING METHOD Excavator - TV250 SURFACE ELEV.: N/A
 LOGGED BY ZOK CHECKED BY _____ WATER LEVEL AT TIME OF TRENCHING: _____
 NOTES Excavation backfilled and compacted with excavator STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0					
	X	0-1 topsoil/organics			Trench Length: 15'
		1-3 sand			
		3-4 wood, brick, plastic debris			
5					
10					



TEST PIT ID: TP- 133

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CLIENT Detroit Regional Partnership PROJECT NAME Van Buren Industrial Land
PROJECT NUMBER 401.2401193 PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI
DATE STARTED 11/07/2024 COMPLETED 11/07/2024 TRENCH WIDTH: 24"
DRILLING CONTRACTOR MSG SURVEY COORDINATES: _____
DRILLING METHOD Excavator - TV250 SURFACE ELEV.: N/A
LOGGED BY ZDK CHECKED BY _____ WATER LEVEL AT TIME OF TRENCHING: _____
NOTES Excavation backfilled and compacted with excavator STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0					
5		0-1 organics / topsoil 1-2.5 sand 2.5-4 metal, glass, concrete debris			Trench Length: 15'
10					



TEST PIT ID: TP- 134

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CLIENT Detroit Regional Partnership

PROJECT NAME Van Buren Industrial Land

PROJECT NUMBER 401.2401193

PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI

DATE STARTED 11/07/2024 COMPLETED 11/07/2024

TRENCH WIDTH: 24"

DRILLING CONTRACTOR MSG

SURVEY COORDINATES: _____

DRILLING METHOD Excavator - TV250

SURFACE ELEV.: N/A

LOGGED BY ZOK CHECKED BY _____

▽ WATER LEVEL AT TIME OF TRENCHING: _____

NOTES Excavation backfilled and compacted with excavator

▽ STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0					
		0 - 1.5 organics / topsoil			Trench Length: 12'
		1.5 - 4 sand some gravels			
5					
10					



TEST PIT ID: TP- 135

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CLIENT Detroit Regional Partnership

PROJECT NAME Van Buren Industrial Land

PROJECT NUMBER 401.2401193

PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI

DATE STARTED 11/07/2024 COMPLETED 11/07/2024

TRENCH WIDTH: 24"

DRILLING CONTRACTOR MSG

SURVEY COORDINATES: _____

DRILLING METHOD Excavator - TV250

SURFACE ELEV.: N/A

LOGGED BY ZDK CHECKED BY _____

WATER LEVEL AT TIME OF TRENCHING: _____

NOTES Excavation backfilled and compacted with excavator

STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0		0-1 Organics / top soil 1-4 Sand, some gravels			Trench Length: 15'
5		▼			
10					



TEST PIT ID: TP- 139

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CLIENT Detroit Regional Partnership PROJECT NAME Van Buren Industrial Land
 PROJECT NUMBER 401.2401193 PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI
 DATE STARTED 11/07/2024 COMPLETED 11/07/2024 TRENCH WIDTH: 24"
 DRILLING CONTRACTOR MSG SURVEY COORDINATES: _____
 DRILLING METHOD Excavator - TV250 SURFACE ELEV.: N/A
 LOGGED BY ZDK CHECKED BY _____ WATER LEVEL AT TIME OF TRENCHING: _____
 NOTES Excavation backfilled and compacted with excavator STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0					
		<p>0-1 topsoil/organics</p> <p>1-4 sand</p>			<p>Trench Length: 15'</p>
5					
10					



TEST PIT ID: TP- 140

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CLIENT Detroit Regional Partnership PROJECT NAME Van Buren Industrial Land
 PROJECT NUMBER 401.2401193 PROJECT LOCATION Michigan and Ecorse, Van Buren Township, MI
 DATE STARTED 11/08/2024 COMPLETED 11/08/2024 TRENCH WIDTH: 24"
 DRILLING CONTRACTOR MSG SURVEY COORDINATES: _____
 DRILLING METHOD Excavator - TV250 SURFACE ELEV.: N/A
 LOGGED BY ZJK CHECKED BY _____ WATER LEVEL AT TIME OF TRENCHING: _____
 NOTES Excavation backfilled and compacted with excavator STATIC WATER LEVEL AFTER TRENCHING: N/A

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0					
	[Hatched Box]	0-1 topsoil/organics 1-4 sand			trench length: 12'
5					
10					

