



Rose & Westra
A Division of GZA



GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION
MANAGEMENT

The Widdicom Building
601 Fifth Street NW
Suite 102
Grand Rapids, MI 49504
T: 616.956.6123
F: 616.288.3327
www.rosewestra.com
www.gza.com

MEMORANDUM

To: Abby Hendershott, EGLE
From: Lori Powers, Rose & Westra, a Division of GZA GeoEnvironmental, Inc.
Date: September 3, 2019
File No.: 16.0062335.52 / 16.0062335.53
Re: Wolverine World Wide, Inc. (Wolverine) – House Street Disposal Area
Monthly Progress Report

This EGLE Monthly Progress Report (MPR) is being submitted on behalf of Wolverine. This EGLE MPR is completed as agreed upon in Mr. John Byl's July 9, 2018 letter entitled *Response to May 29 Correspondence regarding Tannery Meeting Summary and Action Items*.

This progress report also includes information to supplement the August 12, 2019 U.S. EPA MPR (attached).

SITE INVESTIGATION ACTIONS

Continued effort for access to off-site drilling locations. Completed drilling at location MW-23 for installation of a total of four wells. The MW-23 boring log is attached.

Continued and completed delineation activities associated with the EPA's April 29, 2019 letter.

Completed drilling on adjoining parcel in a depression.

All off-site monitoring wells have been surveyed.

Clearing for fence installation began as well as communication with Kent County Road Commission regarding fence installation in House Street right-of-way continued.

SITE ANALYTICAL DATA RECEIVED

Analytical results from off-site drilling in the above-mentioned depressed area were recently received and provided to the agency and property owner.

PFAS soil data received since the last update from the on-Site investigation is also summarized in the attached tables.

SITE MAPPING

A revised map will be provided once survey information is available.





SITE ANTICIPATED ACTIONS AND SCHEDULE FOR NEXT REPORTING PERIOD

It is likely drilling at off-site location PMW-12 will commence September 3. Drilling may also occur at PMW-24. R&W/GZA will continue to make efforts to gain access to drilling locations PMW-22, PMW-13, and PMW-16.

Continue to respond to the EPA's April 29, 2019 correspondence regarding CERCLA actions at the Wolverine Tannery and House Street sites.

OFF-SITE SUMMARY

Draft scopes of work for parcels on the south side of House Street are being prepared for submittal to EGLE, EPA, MDOT, and the property owners and their counsel for review and approval prior to implementing any removal actions.

R&W/GZA is also working on approval for waste disposal. An additional composite sample was requested from the disposal facility, collected, and has been submitted for analysis.

R&W/GZA and Wolverine are evaluating possible actions for additional investigation/remediation at the Imperial Pine Parcel (7900 Imperial Pine Drive NE).

J:\62000\623xx\62335.52 - House St Pre-Inv\MDEQ Updates\August 2019 Update\WWW-House Street-MDEQ\MonthlyUpdate-09032019-F.docx

TABLE 1 NOTES
1855 House Street NE
Plainfield Township, Kent County, MI

NOTES:

1. Concentration and criteria units are micrograms per kilogram ($\mu\text{g}/\text{kg}$) or parts per billion (ppb). Calculated criteria and concentrations are rounded to two significant digits. "ND" indicates the parameters used in the calculation were not detected. "NC" indicates not calculated.
2. Michigan Part 201 Soil Cleanup Criteria are based on "Table 2, Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Tier I Risk Based Screening Levels," Michigan Administrative Code, Cleanup Criteria Requirements for Response Activity, Rules 299.46 and 299.49, effective December 30, 2013; updated June 25, 2018.
Abbreviations include:
"NCL" indicates no criterion listed in EGLE Table 2.
3. U.S. EPA Residential Soil Regional Removal Management Levels (RMLs) were based on "Generic RML Tables," updated November 2018.
4. To the extent that samples listed in these tables contain or consist of waste material, in whole or in part, the comparison to the EGLE Part 201 generic cleanup criteria does not imply applicability of the criteria because the physical and chemical properties of the waste material are expected to be different from the default values or assumptions used to derive the Generic Soil Cleanup Criteria in the Cleanup Criteria Requirements for Response Activity Rules (R299.1-299.50).
5. Bold, italic number with thick line border or italic parameter name indicates that parameter was detected above the Michigan Part 201 Soil Cleanup Criteria. Per MCL 324.20101(e)(i), if state-wide default background levels are available and greater than a risk-based generic cleanup criterion, then the state-wide default background levels are used as a substitute for that generic cleanup criterion.
6. Abbreviations include:
"< RL" indicates the parameter was analyzed for but not detected above the method detection limit; RL = Reporting Limit.
"DUP" indicates a duplicate sample.



Rose & Westra
A Division of GZA



GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION
MANAGEMENT

The Widdicom Building
601 Fifth Street NW
Suite 102
Grand Rapids, MI 49504
T: 616.956.6123
F: 616.288.3327
www.rowestra.com
www.gza.com



MEMORANDUM

To: Jeffrey Kimble, U.S. EPA, Region 5

From: Loretta Powers, Rose & Westra, a Division of GZA GeoEnvironmental, Inc.

Date: August 12, 2019

File No.: 16.0062335.52 Task 006

Re: Wolverine World Wide, Inc. (Wolverine) – House Street – Monthly Progress Report

This Monthly Progress Report (MPR) is being provided at the request of the U.S. EPA to support the July 12, 2019 *Work Plan, House Street Disposal Area, Plainfield Township, Kent County, Michigan* (2019 WP). The 2019 WP was prepared in response to the U.S. EPA Region 5 Unilateral Administrative Order for Removal Actions¹ (UAO) effective February 1, 2018, associated with the Former Wolverine Tannery and House Street Disposal Area. This MPR is submitted pursuant to Paragraph 25 of the UAO.

Per Paragraph 25 of the UAO, this MPR summarizes the following items for the period of July 3 to August 2, 2019: “*. . . significant developments during the preceding period, including the actions performed and any problems encountered, analytical data received during the reporting period, and the developments anticipated during the next reporting period, including a schedule of actions to be performed, anticipated problems, and planned resolutions of past or anticipated problems.*” Subsequent to issuance of the UAO and completion of the 2019 WP, R&W/GZA and U.S. EPA agreed that approved modifications to the 2019 WP will also be summarized in the MPRs.

ACTIONS PERFORMED

- 1) July 8, 2019: R&W/GZA began drilling efforts for delineation task around the five TCLP chromium exceedances at the Site (2019 WP, Section 3.6.1). This work was on-going as of August 2, 2019.
- 2) July 12, 2019: Submittal of the final 2019 WP.
- 3) Access was obtained to the two westerly adjoining parcels.
- 4) Draft Air Monitoring Plan was submitted to EPA.

Table 1 summarizes the borings completed and associated samples collected during this reporting period. The boring locations in the southwestern investigation area (completed last reporting period) are shown on attached Figure 1. Borings completed in the five TCLP delineation areas are shown on working drafts included as Figures 2A-2E.

Boring logs for soil borings identified as HS-SB-2116 to HS-SB-2224 are attached.

¹. Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Docket No. V-W-18-C-004.



ANALYTICAL DATA RECEIVED

Soil analytical data received during this reporting period is summarized in Tables 1A through 1F. No groundwater data was received during this period.

ANTICIPATED ACTIONS AND SCHEDULE FOR NEXT REPORTING PERIOD

During the next reporting period, August 3 to September 5, 2019, R&W/GZA, the following tasks are anticipated to begin or be completed:

- 1) Complete Section 3.6.1 of the 2019 WP, Chromium TCLP soil delineation
- 2) Begin west adjacent suspect wetland areas investigation, Section 3.5 of the 2019 WP
- 3) Begin clearing and installation of fencing
- 4) Complete additional boring logs from this reporting period and a portion of those completed during the next reporting period

IDENTIFIED PROBLEMS AND RESOLUTIONS

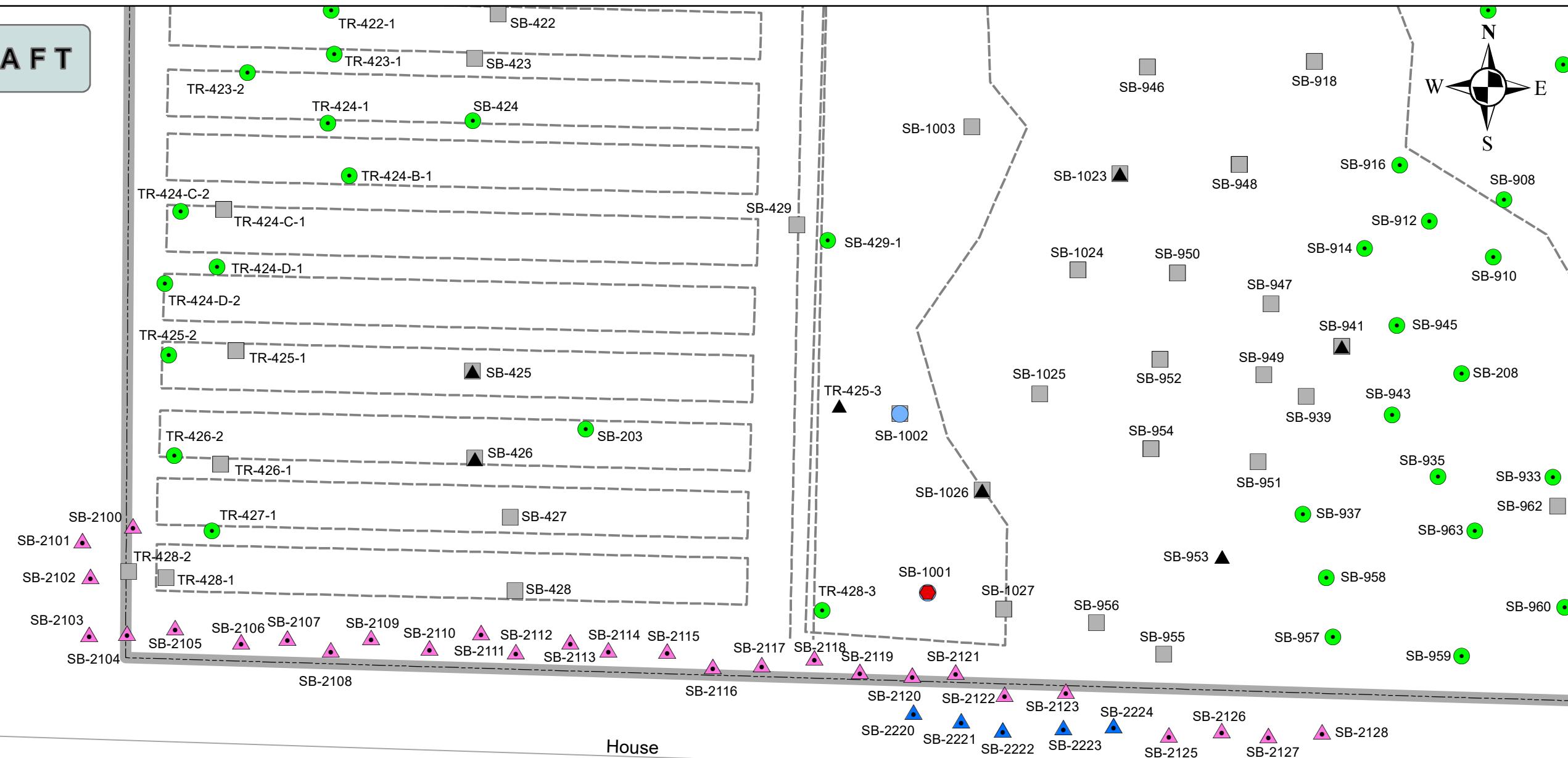
No significant problems were identified during this reporting period. As the GPS accuracy can waiver significantly at the Site, R&W/GZA worked closely with START to locate the delineation borings around the five chromium TCLP exceedances.

APPROVED 2019 WP MODIFICATIONS

No modifications were approved during this reporting period. R&W/GZA did evaluate potential alterations to the scope of Section 3.5 boring locations with both START and EPA. This is on-going.

J:\62000\623xx\62335.52 - House St Pre-Inv\0 - Task 006 - 2019 WorkPlan\EPA MPRs\August 2019\House Street-EPA-MonthlyUpdate-08122019-F.docx

WORKING DRAFT



LEGEND

- RED WASTE MATERIAL
- BROWN WASTE MATERIAL
- BLACK WASTE MATERIAL
- WHITE WASTE MATERIAL
- GRAY WASTE MATERIAL
- NO WASTE MATERIAL OBSERVED

2019 SOUTHWEST AREA TIERED BORING LOCATION

▲ TIER 1

△ TIER 2

----- 1966 PROPOSED SITE PLAN

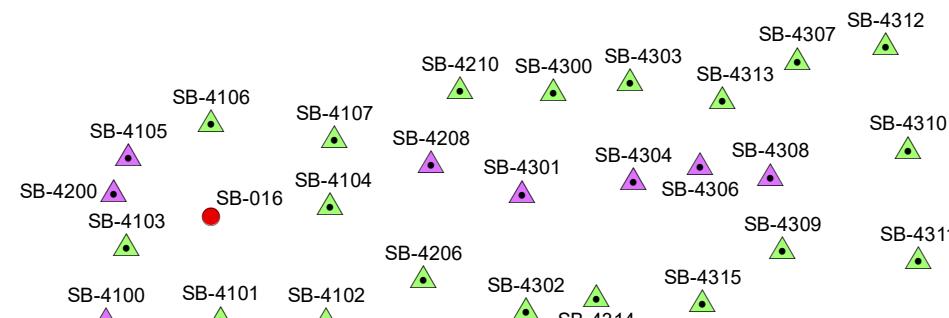
████████ APPROXIMATE HOUSE ST SITE BOUNDARY

NOTES

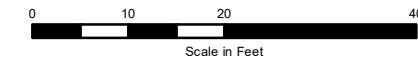
1. SOIL BORING STATUS UPDATED THROUGH 8/8/2019.
2. LOCATIONS OF BORINGS NOT COMPLETED ARE SUBJECT TO CHANGE.
3. LOCATIONS ARE PROCEEDED BY THE SITE CODE "HS-" ON BORING LOGS AND SAMPLE NAMES.
4. 2018 BORING LOCATIONS FOR TR-428-1 AND TR-428-2 WERE UPDATED BASED ON FIELD GPS MEASUREMENTS.

NO.	ISSUE/DESCRIPTION	BY	DATE
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR OTHERWISE ANNIHILATED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.			
Rose & Westra, a Division of GZA 601 Fifth Street NW, Suite 102 Grand Rapids, Michigan 49504			
ADDITIONAL SOIL BORINGS SOUTHWEST AREA			
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: WN&J/WWW	
PROJ MGR: LIP	REVIEWED BY: LIP	CHECKED BY: LIP	FIGURE 1
DESIGNED BY: JC	DRAWN BY: JC/JMG	SCALE: 1"=60'	
DATE: 08-08-2019	PROJECT NO. 16.0062355.52	REVISION NO.	

AREA 1



WORKING DRAFT



LEGEND

2019 TCLP INVESTIGATION

- ▲ NO WASTE MATERIAL OBSERVED
 - ▲ WASTE MATERIAL OBSERVED
- 2018 SAMPLE TCLP CONCENTRATION (ug/L)**
- 0 - 310
 - 310.00001 - 950
 - 1,600.00001 - 5,000
 - 5,000.00001 - 18,000

APPROXIMATE HOUSE ST SITE BOUNDARY

NOTES

1. SOIL BORING LOCATION AND STATUS UPDATED THROUGH 8/5/2019.
2. LOCATIONS OF BORINGS NOT COMPLETED ARE SUBJECT TO CHANGE.
3. BORING LOCATIONS ARE PROCEEDED BY THE SITE CODE "HS-" ON BORING LOGS AND SAMPLE NAMES.

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

Rose & Westra, a Division of GZA
601 Fifth Street NW, Suite 102
Grand Rapids, Michigan 49504

AS-DRILLED LOCATIONS HOUSE STREET 2019 TCLP INVESTIGATION - AREA 1

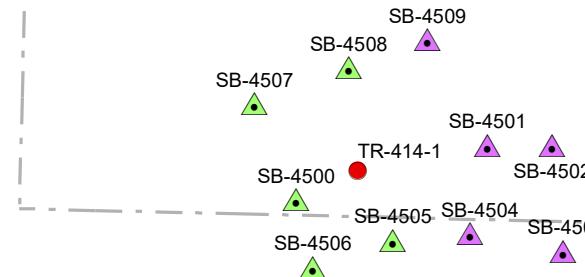


GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
WN&J/WWW

PROJ MGR: LJP	REVIEWED BY: LJP	CHECKED BY: LJP
DESIGNED BY: JC	DRAWN BY: JC/JMG	SCALE: 1" = 20'
DATE: 8/8/2019	PROJECT NO. 16.0062335.52	REVISION NO.

FIGURE
2A



AREA 2

WORKING DRAFT

0 10 20 40

Scale in Feet

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

Rose & Westra, a Division of GZA
601 Fifth Street NW, Suite 102
Grand Rapids, Michigan 49504

AS-DRILLED LOCATIONS
HOUSE STREET 2019 TCLP INVESTIGATION -
AREA 2

GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
WN&J/WWW

PROJ MGR: LJP REVIEWED BY: LJP CHECKED BY: LJP
DESIGNED BY: JC DRAWN BY: JC/JMG SCALE: 1" = 20'
DATE: 8/8/2019 PROJECT NO. 16.0062335.52
REVISION NO.

FIGURE
2B

LEGEND

2019 TCLP INVESTIGATION

- NO WASTE MATERIAL OBSERVED
- WASTE MATERIAL OBSERVED

2018 SAMPLE TCLP CONCENTRATION (ug/L)

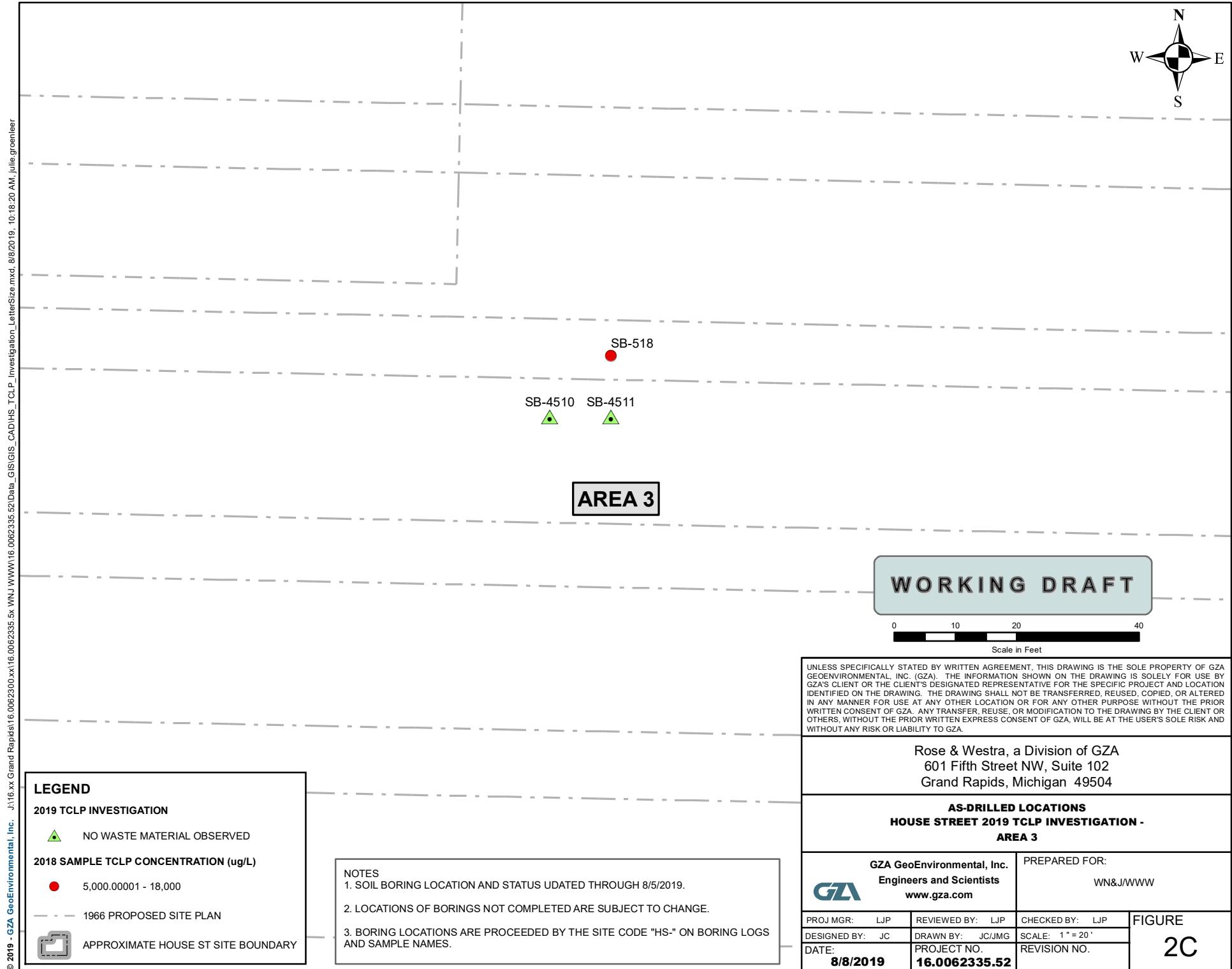
- 5,000.00001 - 18,000

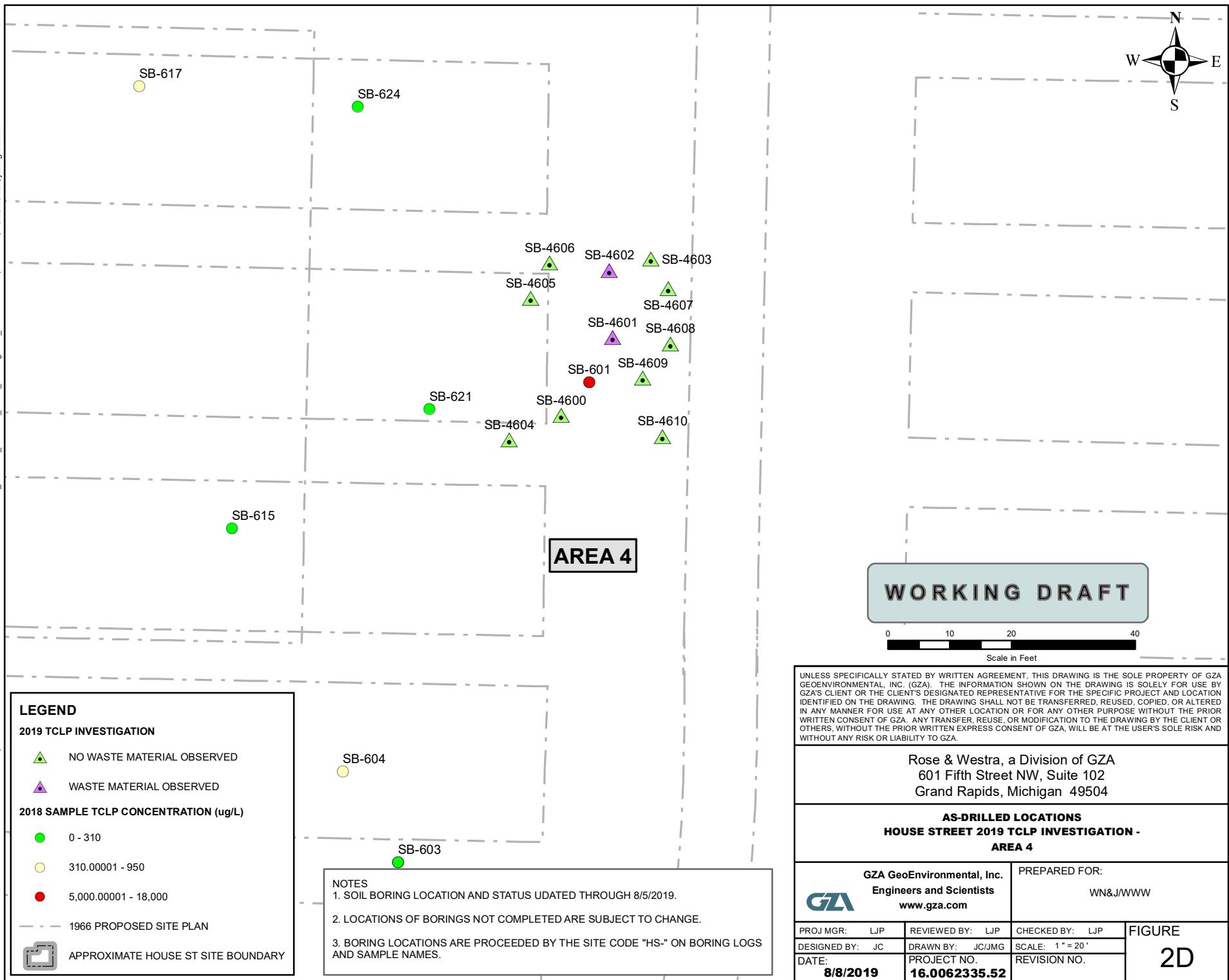
----- 1966 PROPOSED SITE PLAN

APPROXIMATE HOUSE ST SITE BOUNDARY

NOTES

1. SOIL BORING LOCATION AND STATUS UPDATED THROUGH 8/5/2019.
2. LOCATIONS OF BORINGS NOT COMPLETED ARE SUBJECT TO CHANGE.
3. BORING LOCATIONS ARE PROCEEDED BY THE SITE CODE "HS-" ON BORING LOGS AND SAMPLE NAMES.





UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

Rose & Westra, a Division of GZA
601 Fifth Street NW, Suite 102
Grand Rapids, Michigan 49504

AS-DRILLED LOCATIONS
HOUSE STREET 2019 TCLP INVESTIGATION - AREA 4



GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
WN&J/WWW

PROJ MGR:

REVIEWED BY: LJP CHECKED BY: LJP

DESIGNED BY: JC

DRAWN BY: JC/JMG SCALE: 1" = 20'

DATE:

PROJECT NO.

8/8/2019

REVISION NO.

FIGURE
2D

LEGEND

- 2019 TCLP INVESTIGATION**
- ▲ NO WASTE MATERIAL OBSERVED
 - ▲ WASTE MATERIAL OBSERVED
- 2018 SAMPLE TCLP CONCENTRATION (ug/L)**
- 0 - 310
 - 310.00001 - 950
 - 5,000.00001 - 18,000

APPROXIMATE HOUSE ST SITE BOUNDARY

NOTES

1. SOIL BORING STATUS UPDATED THROUGH 8/5/2019.
2. LOCATIONS OF BORINGS NOT COMPLETED ARE SUBJECT TO CHANGE.
3. BORING LOCATIONS ARE PROCEEDED BY THE SITE CODE "HS-" ON BORING LOGS AND SAMPLE NAMES.

AREA 5

WORKING DRAFT

0 10 20 40
Scale in Feet

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

Rose & Westra, a Division of GZA
601 Fifth Street NW, Suite 102
Grand Rapids, Michigan 49504

**AS-DRILLED LOCATIONS
HOUSE STREET 2019 TCLP INVESTIGATION -
AREA 5**

GZA
GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
WN&J/WWW

PROJ MGR: LJP

REVIEWED BY: LJP

CHECKED BY: LJP

DESIGNED BY: JC

DRAWN BY: JC/JMG

SCALE: 1" = 20'

DATE: 8/8/2019

PROJECT NO.
16.0062335.52

REVISION NO.

**FIGURE
2E**

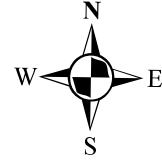


TABLE 1D
SUMMARY OF SOIL SAMPLE ANALYSIS - INORGANICS/GENERAL CHEMISTRY
1855 House Street NE
Plainfield Township, Kent County, MI

Sample Location	Statewide Default Background ²	Part 201 Generic Residential Soil Cleanup Criteria – Drinking Water Protection ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Soil Cleanup Criteria – Infinite Source Volatilization to Indoor Air Inhalation ²	Part 201 Generic Residential Soil Cleanup Criteria – Particulate Soil Inhalation ²	Part 201 Generic Residential Soil Recommended Volatilization to Indoor Air Interim Action Screening Level ³	U.S. EPA Residential Soil Regional Removal Management Levels ¹	HS-SB-2100	HS-SB-2100	HS-SB-2101	HS-SB-2101	HS-SB-2102	HS-SB-2102	HS-SB-2103	HS-SB-2103	HS-SB-2103		
Sample Name								HS-SB-2100 (1-2)	HS-SB-2100 (3-4)	HS-SB-2101 (1-2)	HS-SB-2101 (3-4)	HS-SB-2102 (1-2)	HS-SB-2102 (3-4)	HS-SB-2103 (1-2)	HS-SB-2103 (3-4)			
Depth Interval (Feet below ground surface)								1 - 2	3 - 4	1 - 2	3 - 4	1 - 2	3 - 4	1 - 2	3 - 4			
Boring Location								House St Site	House St Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site			
Laboratory Sample ID(s)								UF21044-002 & 19061232-01A	UF21044-003 & 19061232-02A	UF21044-004 & 19061232-03A	UF21044-005 & 19061232-04A	UF21044-006 & 19061882-01A	UF21044-007 & 19061882-02A	UF21044-008 & 19061882-03A	UF21044-009 & 19061882-04A			
Sample Date								6/18/2019	6/18/2019	6/18/2019	6/18/2019	6/18/2019	6/18/2019	6/19/2019	6/19/2019			
Parameter ($\mu\text{g/kg}$)																		
Acetic Acid	NA	84,000	180,000 (G)	NLV	NLV	17,000,000,000	130,000,000	NCL	NCL	<19,000	<19,000	<20,000	<20,000	<40,000	<19,000	<19,000	<19,000	<20,000
Formic Acid	NA	200,000	ID	1,500,000	210,000	130,000,000	320,000,000 (C)	NCL	87,000	<19,000	<19,000	<20,000	<20,000	<40,000	<19,000	<19,000	<19,000	<20,000
Cyanide - Total	390	4,000	100	NLV	NLV	250,000	12,000	NCL	69,000	200	80 [J]	140	87 [J]	92 [J]	67 [J]	120 [J]	84 [J]	59 [J]
Cyanide, Available	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	81	<40	<40	<40	<40	<40	<40	47	<40
Ammonia - N (gas diffusion)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	<1,100	<1,100	<1,100	<1,100	<1,100	<1,100	<1,100	<1,100	<1,100
Nitrate-Nitrite - N (soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	460	380	430	380	430	390	480	730	630
Nitrate-Nitrite - N + Ammonia - N (Calculated)	NA	200,000 (N)	NCL	NCL	NCL	NCL	NCL	NCL	380,000,000	460	380	430	380	430	390	480	730	630
Unionized Ammonia (Calculated based on pH 8.0, 20°C)	NA	NCL	580 (CC)	NCL	NCL	NCL	NCL	NA	NCL	ND	ND	ND	ND	ND	ND	ND	ND	
Chloride (soluble)	NA	5,000,000	NCL	NLV	NLV	ID	500,000 (F)	NCL	NCL	<11,000	<11,000	<11,000	<11,000	<11,000	<10,000	<11,000	<11,000	<10,000
Phosphorus	NA	1,300,000	20,000 (EE)	NLV	NLV	67,000,000	1,000,000,000 (D)	NCL	NCL	430,000	83,000	350,000	110,000	350,000	63,000	340,000	340,000	87,000
Sulfate (soluble)	NA	5,000,000	NA	NLV	NLV	ID	ID	NCL	NCL	<11,000	<11,000	<11,000	<11,000	<11,000	<10,000	<11,000	<11,000	<10,000
Sulfide (Acid Soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000

TABLE 1D
 SUMMARY OF SOIL SAMPLE ANALYSIS - INORGANICS/GENERAL CHEMISTRY
 1855 House Street NE
 Plainfield Township, Kent County, MI

Sample Location	Statewide Default Background ²	Part 201 Generic Residential Soil Cleanup Criteria – Drinking Water Protection ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Soil Cleanup Criteria – Infinite Source Volatile Soil Inhalation ²	Part 201 Generic Residential Soil Cleanup Criteria – Particulate Soil Inhalation ²	EGLER Residential Soil Recommended Volatilization to Indoor Air Interim Action Screening Level ³	U.S. EPA Residential Soil Regional Removal Management Levels ³	HS-SB-2104	HS-SB-2104	HS-SB-2105	HS-SB-2105	HS-SB-2106	HS-SB-2106	HS-SB-2106	HS-SB-2106	HS-SB-2107	HS-SB-2107	HS-SB-2107
Sample Name								HS-SB-2104 (1-2)	HS-SB-2104 (3-4)	HS-SB-2105 (2-3)	HS-SB-2105 (3-4)	HS-SB-2106 (2-3)	DUP	HS-SB-2106 (2-3)	HS-SB-2106 (5-6)	HS-SB-2107 (2-3) ¹	HS-SB-2107 (6-7)	
Depth Interval (Feet below ground surface)								1 - 2	3 - 4	2 - 3	3 - 4	2 - 3	2 - 3	5 - 6	2 - 3	6 - 7		
Boring Location								House St Site	House St Site	House St Site	House St Site	House St Site	House St Site					
Laboratory Sample ID(s)								19062077-17A	19062077-18A	19070158-01A	19070158-02A	19070158-04A	19070158-05A	19070158-06A	19070158-07A	19070158-08A		
Sample Date								6/28/2019	6/28/2019	6/28/2019	6/28/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019		
Parameter ($\mu\text{g}/\text{kg}$)																		
Acetic Acid	NA	84,000	180,000 (G)	NLV	NLV	17,000,000,000	130,000,000	NCL	NCL	350	<20,000	<19,000	<20,000	<19,000	<19,000	<19,000	<19,000	<20,000
Formic Acid	NA	200,000	ID	1,500,000	210,000	130,000,000	320,000,000 (C)	NCL	87,000	<190	<20,000	<19,000	<20,000	<19,000	<19,000	<19,000	<19,000	<20,000
Cyanide - Total	390	4,000	100	NLV	NLV	250,000	12,000	NCL	69,000									
Cyanide, Available	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	<40	<40	<40	<40	<40	<40	<40	<40	<39
Ammonia - N (gas diffusion)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL									
Nitrate-Nitrite - N (soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL									
Nitrate-Nitrite - N + Ammonia - N (Calculated)	NA	200,000 (N)	NCL	NCL	NCL	NCL	NCL	NCL	380,000,000	NC	NC	NC	NC	NC	NC	NC	NC	NC
Unionized Ammonia (Calculated based on pH 8.0, 20°C)	NA	NCL	580 (CC)	NCL	NCL	NCL	NCL	NA	NCL	NC	NC	NC	NC	NC	NC	NC	NC	NC
Chloride (soluble)	NA	5,000,000	NCL	NLV	NLV	ID	500,000 (F)	NCL	NCL									
Phosphorus	NA	1,300,000	20,000 (EE)	NLV	NLV	67,000,000	1,000,000,000 (D)	NCL	NCL									
Sulfate (soluble)	NA	5,000,000	NA	NLV	NLV	ID	ID	NCL	NCL									
Sulfide (Acid Soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000

TABLE 1D
SUMMARY OF SOIL SAMPLE ANALYSIS - INORGANICS/GENERAL CHEMISTRY
1855 House Street NE
Plainfield Township, Kent County, MI

Sample Location	Statewide Default Background ²	Part 201 Generic Residential Soil Cleanup Criteria – Drinking Water Protection ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Soil Cleanup Criteria – Infinite Source Volatile Soil Inhalation ²	Part 201 Generic Residential Soil Cleanup Criteria – Particulate Soil Inhalation ²	EGLE Residential Soil Recommended Volatilization to Indoor Air Interim Action Screening Level ³	U.S. EPA Residential Soil Regional Removal Management Levels ⁴	HS-SB-2108	HS-SB-2108	HS-SB-2109	HS-SB-2109	HS-SB-2110	HS-SB-2110	HS-SB-2111	HS-SB-2111	HS-SB-2112								
Sample Name								HS-SB-2108 (1-2)	HS-SB-2108 (3-4)	HS-SB-2109 (0-1)	HS-SB-2109 (2-3)	HS-SB-2110 (1-2)	HS-SB-2110 (3-4)	HS-SB-2111 (0-1)	HS-SB-2111 (2-3)	HS-SB-2112 (2-3)								
Depth Interval (Feet below ground surface)								1 - 2	3 - 4	0 - 1	2 - 3	1 - 2	3 - 4	0 - 1	2 - 3	2 - 3								
Boring Location								House St Site	House St Site	House St Site														
Laboratory Sample ID(s)								19070158-09A	19070158-10A	19070158-11A	19070158-12A	19070158-13A	19070158-14A	19070158-15A	19070158-16A	19070158-17A								
Sample Date								7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/2/2019								
Parameter ($\mu\text{g}/\text{kg}$)																								
Acetic Acid								NA	84,000	180,000 (G)	NLV	NLV	17,000,000,000	130,000,000	NCL	NCL	<19,000	<19,000	<20,000	<19,000	<19,000	<19,000	<19,000	
Formic Acid								NA	200,000	ID	1,500,000	210,000	130,000,000	320,000,000 (C)	NCL	87,000	<19,000	<19,000	<20,000	<19,000	<19,000	<19,000	<19,000	
Cyanide - Total								390	4,000	100	NLV	NLV	250,000	12,000	NCL	69,000								
Cyanide, Available								NCL	NCL	<40	<40	<40	41	<40	<40	<40	<40							
Ammonia - N (gas diffusion)								NCL	NCL															
Nitrate-Nitrite - N (soluble)								NCL	NCL															
Nitrate-Nitrite - N + Ammonia - N (Calculated)								NA	200,000 (N)	NCL	NCL	NCL	NCL	NCL	380,000,000	NC	NC	NC	NC	NC	NC	NC	NC	
Unionized Ammonia (Calculated based on pH 8.0, 20°C)								NA	NCL	580 (CC)	NCL	NCL	NCL	ID	500,000 (F)	NCL	NCL	NC	NC	NC	NC	NC	NC	
Chloride (soluble)								NA	5,000,000	NCL	NLV	NLV	67,000,000	1,000,000,000 (D)	NCL	NCL								
Phosphorus								NA	1,300,000	20,000 (EE)	NLV	NLV	ID	ID	NCL	NCL								
Sulfate (soluble)								NA	5,000,000	NA	NLV	NLV	ID	ID	NCL	NCL	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	
Sulfide (Acid Soluble)								NCL	NCL															

TABLE 1D
SUMMARY OF SOIL SAMPLE ANALYSIS - INORGANICS/GENERAL CHEMISTRY
1855 House Street NE
Plainfield Township, Kent County, MI

Sample Location	Statewide Default Background ²	Part 201 Generic Residential Soil Cleanup Criteria – Drinking Water Protection ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Soil Cleanup Criteria – Infinite Source Volatile Soil Inhalation ²	Part 201 Generic Residential Soil Cleanup Criteria – Particulate Soil Inhalation ²	EGLE Residential Soil Recommended Volatilization to Indoor Air Interim Action Screening Level ³	U.S. EPA Residential Soil Regional Removal Management Levels ⁴	HS-SB-2112	HS-SB-2113	HS-SB-2113	HS-SB-2114	HS-SB-2114	HS-SB-2115	HS-SB-2115	HS-SB-2116	HS-SB-2116	
Sample Name								HS-SB-2112 (4-5)	HS-SB-2113 (1-2)	HS-SB-2113 (3-4)	HS-SB-2114 (0-1)	HS-SB-2114 (3-4)	HS-SB-2115 (0-1)	HS-SB-2115 (3-4)	HS-SB-2116 (0-1)	HS-SB-2116 (3-4)	
Depth Interval (Feet below ground surface)								4 - 5	1 - 2	3 - 4	0 - 1	3 - 4	0 - 1	3 - 4	0 - 1	3 - 4	
Boring Location								House St Site									
Laboratory Sample ID(s)								19070158-18A	19070158-19A	19070158-20A	19070158-21A	19070158-22A	19070158-23A	19070158-24A	19070158-25A	19070158-26A	
Sample Date								7/2/2019	7/2/2019	7/2/2019	7/2/2019	7/2/2019	7/2/2019	7/2/2019	7/2/2019	7/2/2019	
Parameter ($\mu\text{g}/\text{kg}$)																	
Acetic Acid	NA	84,000	180,000 (G)	NLV	NLV	17,000,000,000	130,000,000	NCL	NCL	<19,000	<19,000	<19,000	<19,000	<20,000	<19,000	<19,000	<20,000
Formic Acid	NA	200,000	ID	1,500,000	210,000	130,000,000	320,000,000 (C)	NCL	87,000	<19,000	<19,000	<19,000	<19,000	<20,000	<19,000	<19,000	<20,000
Cyanide - Total	390	4,000	100	NLV	NLV	250,000	12,000	NCL	69,000								
Cyanide, Available	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	<40	42	<40	50	<40	79	<40	52
Ammonia - N (gas diffusion)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL								
Nitrate-Nitrite - N (soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL								
Nitrate-Nitrite - N + Ammonia - N (Calculated)	NA	200,000 (N)	NCL	NCL	NCL	NCL	NCL	380,000,000	NC	NC							
Unionized Ammonia (Calculated based on pH 8.0, 20°C)	NA	NCL	580 (CC)	NCL	NCL	NCL	NA	NCL	NC	NC							
Chloride (soluble)	NA	5,000,000	NCL	NLV	NLV	ID	500,000 (F)	NCL	NCL								
Phosphorus	NA	1,300,000	20,000 (EE)	NLV	NLV	67,000,000	1,000,000,000 (D)	NCL	NCL								
Sulfate (soluble)	NA	5,000,000	NA	NLV	NLV	ID	ID	NCL	NCL								
Sulfide (Acid Soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000

TABLE 1D
 SUMMARY OF SOIL SAMPLE ANALYSIS - INORGANICS/GENERAL CHEMISTRY
 1855 House Street NE
 Plainfield Township, Kent County, MI

Sample Location	Statewide Default Background ²	Part 201 Generic Residential Soil Cleanup Criteria – Drinking Water Protection ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Soil Cleanup Criteria – Infinite Source Volatilization to Indoor Air Inhalation ²	Part 201 Generic Residential Soil Cleanup Criteria – Particulate Soil Inhalation ²	EGLE Residential Soil Recommended Volatilization to Indoor Air Interim Action Screening Level ³	U.S. EPA Residential Soil Regional Removal Management Levels ⁴	HS-SB-2117	HS-SB-2117	HS-SB-2117	HS-SB-2118	HS-SB-2118	HS-SB-2119	HS-SB-2119	HS-SB-2120	HS-SB-2120
Sample Name								HS-SB-2117 (0-1)	HS-SB-2117 (2-3)	HS-SB-2117 (2-3) DUP	HS-SB-2118 (0-1)	HS-SB-2118 (3-4)	HS-SB-2119 (0-1)	HS-SB-2119 (3-4)	HS-SB-2120 (1-2)	
Depth Interval (Feet below ground surface)								0 - 1	2 - 3	2 - 3	0 - 1	3 - 4	0 - 1	3 - 4	1 - 2	
Boring Location								House St Site	House St Site	House St Site	House St Site	House St Site	House St Site	House St Site	House St Site	
Laboratory Sample ID(s)								19070158-27A	19070158-28A	19070158-29A	19070640-01A	19070640-02A	19070640-03A	19070640-04A	19070640-05A	19070640-06A
Sample Date								7/2/2019	7/2/2019	7/2/2019	7/2/2019	7/2/2019	7/2/2019	7/2/2019	7/2/2019	
Parameter ($\mu\text{g}/\text{kg}$)																
Acetic Acid	NA	84,000	180,000 (G)	NLV	NLV	17,000,000,000	130,000,000	NCL	NCL	<19,000	<20,000	<20,000	<19,000	<19,000	<18,000	<19,000
Formic Acid	NA	200,000	ID	1,500,000	210,000	130,000,000	320,000,000 (C)	NCL	87,000	<19,000	<20,000	<20,000	<19,000	<19,000	<18,000	<19,000
Cyanide - Total	390	4,000	100	NLV	NLV	250,000	12,000	NCL	69,000							
Cyanide, Available	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	60	<40	<40	42	<40	<39	<40	<40
Ammonia - N (gas diffusion)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL								
Nitrate-Nitrite - N (soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL								
Nitrate-Nitrite - N + Ammonia - N (Calculated)	NA	200,000 (N)	NCL	NCL	NCL	NCL	NCL	380,000,000	NC	NC	NC	NC	NC	NC	NC	NC
Unionized Ammonia (Calculated based on pH 8.0, 20°C)	NA	NCL	580 (CC)	NCL	NCL	NCL	NA	NCL	NC	NC	NC	NC	NC	NC	NC	NC
Chloride (soluble)	NA	5,000,000	NCL	NLV	NLV	ID	500,000 (F)	NCL	NCL							
Phosphorus	NA	1,300,000	20,000 (EE)	NLV	NLV	67,000,000	1,000,000,000 (D)	NCL	NCL							
Sulfate (soluble)	NA	5,000,000	NA	NLV	NLV	ID	ID	NCL	NCL							
Sulfide (Acid Soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	

TABLE 1D
 SUMMARY OF SOIL SAMPLE ANALYSIS - INORGANICS/GENERAL CHEMISTRY
 1855 House Street NE
 Plainfield Township, Kent County, MI

Sample Location	Statewide Default Background ²	Part 201 Generic Residential Soil Cleanup Criteria – Drinking Water Protection ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Soil Cleanup Criteria – Infinite Source Volatilization to Indoor Air Inhalation ²	Part 201 Generic Residential Soil Cleanup Criteria – Particulate Soil Inhalation ²	Part 201 Generic Residential Soil Recommended Volatilization to Indoor Air Interim Action Screening Level ³	U.S. EPA Residential Soil Regional Removal Management Levels ³	HS-SB-2120	HS-SB-2125	HS-SB-2125	HS-SB-2125	HS-SB-2125	HS-SB-2125	HS-SB-2126	HS-SB-2126	HS-SB-2126	
Sample Name								HS-SB-2120 (4-5)	HS-SB-2125 (1-2)	HS-SB-2125 (7-8)	HS-SB-2125 (25-27)	HS-SB-2125 (30-32)	HS-SB-2125 (35-37)	HS-SB-2126 (2-3)	HS-SB-2126 (8-9)	HS-SB-2126 (25-27)	
Depth Interval (Feet below ground surface)								4 - 5	1 - 2	7 - 8	25 - 27	30 - 32	35 - 37	2 - 3	8 - 9	25 - 27	
Boring Location								House St Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	
Laboratory Sample ID(s)								19070640-07A	19062077-08A	19062077-09A	19062077-10A	19070158-03A	19062077-11A	UF27082-001 & 19061882-06A	UF27082-002 & 19061882-07A	19062077-03A	
Sample Date								7/2/2019	6/27/2019	6/27/2019	6/27/2019	6/28/2019	6/28/2019	6/25/2019	6/25/2019	6/27/2019	
Parameter ($\mu\text{g}/\text{kg}$)																	
Acetic Acid	NA	84,000	180,000 (G)	NLV	NLV	17,000,000,000	130,000,000	NCL	NCL	<19,000	<20,000	<19,000	<19,000	<19,000	<19,000	<19,000	<20,000
Formic Acid	NA	200,000	ID	1,500,000	210,000	130,000,000	320,000,000 (C)	NCL	87,000	<19,000	<20,000	<19,000	<19,000	<19,000	<19,000	<19,000	<20,000
Cyanide - Total	390	4,000	100	NLV	NLV	250,000	12,000	NCL	69,000							68 [J]	71 [J]
Cyanide, Available	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	<39	45	<40	<40	<39	59	<40	<40
Ammonia - N (gas diffusion)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL							<1,100	<1,100
Nitrate-Nitrite - N (soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL							440	810
Nitrate-Nitrite - N + Ammonia - N (Calculated)	NA	200,000 (N)	NCL	NCL	NCL	NCL	NCL	NCL	380,000,000	NC	NC	NC	NC	NC	NC	440	810
Unionized Ammonia (Calculated based on pH 8.0, 20°C)	NA	NCL	580 (CC)	NCL	NCL	NCL	NCL	NA	NCL	NC	NC	NC	NC	NC	ND	ND	NC
Chloride (soluble)	NA	5,000,000	NCL	NLV	NLV	ID	500,000 (F)	NCL	NCL							990 [J]	14,000
Phosphorus	NA	1,300,000	20,000 (EE)	NLV	NLV	67,000,000	1,000,000,000 (D)	NCL	NCL							47,000	54,000
Sulfate (soluble)	NA	5,000,000	NA	NLV	NLV	ID	ID	NCL	NCL							<11,000	<11,000
Sulfide (Acid Soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000

TABLE 1D
 SUMMARY OF SOIL SAMPLE ANALYSIS - INORGANICS/GENERAL CHEMISTRY
 1855 House Street NE
 Plainfield Township, Kent County, MI

Sample Location	Statewide Default Background ²	Part 201 Generic Residential Soil Cleanup Criteria – Drinking Water Protection ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Soil Cleanup Criteria – Infinite Source Volatile Soil Inhalation ²	Part 201 Generic Residential Soil Cleanup Criteria – Particulate Soil Inhalation ²	EGLE Residential Soil Recommended Volatilization to Indoor Air Interim Action Screening Level ³	U.S. EPA Residential Soil Regional Removal Management Levels ⁴	HS-SB-2126	HS-SB-2126	HS-SB-2127	HS-SB-2127	HS-SB-2128	HS-SB-2128	HS-SB-2220	HS-SB-2220	HS-SB-2221	
Sample Name								HS-SB-2126 (31-33)	HS-SB-2126 (37-39)	HS-SB-2127 (3-4)	HS-SB-2127 (8-9)	HS-SB-2128 (2-3)	HS-SB-2128 (8-9)	HS-SB-2220 (3-4)	HS-SB-2220 (8-9)	HS-SB-2221 (0-1)	
Depth Interval (Feet below ground surface)								31 - 33	37 - 39	3 - 4	8 - 9	2 - 3	8 - 9	3 - 4	8 - 9	0 - 1	
Boring Location								Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	
Laboratory Sample ID(s)								19062077-04A	19062077-05A	UF27082-003 & 19061882-08A	UF27082-004 & 19061882-09A	UF27082-005 & 19061882-10A	UF27082-006 & 19061882-11A	19062077-06A	19062077-07A	19062077-01A	
Sample Date								6/27/2019	6/27/2019	6/25/2019	6/25/2019	6/26/2019	6/26/2019	6/27/2019	6/27/2019	6/27/2019	
Parameter ($\mu\text{g}/\text{kg}$)																	
Acetic Acid	NA	84,000	180,000 (G)	NLV	NLV	17,000,000,000	130,000,000	NCL	NCL	<19,000	<19,000	<19,000	<19,000	<19,000	<19,000	<20,000	<19,000
Formic Acid	NA	200,000	ID	1,500,000	210,000	130,000,000	320,000,000 (C)	NCL	87,000	<19,000	<19,000	<19,000	<19,000	<19,000	<19,000	<20,000	<19,000
Cyanide - Total	390	4,000	100	NLV	NLV	250,000	12,000	NCL	69,000			140	68 [J]	92 [J]	78 [J]		
Cyanide, Available	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	<40	<40	<40	<40	<40	<39	<40	<40	<40
Ammonia - N (gas diffusion)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL			<1,100	<1,200	<1,100	<1,100			
Nitrate-Nitrite - N (soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL			1,200	420	1,300	540			
Nitrate-Nitrite - N + Ammonia - N (Calculated)	NA	200,000 (N)	NCL	NCL	NCL	NCL	NCL	380,000,000	NC	NC	1200	420	1300	540	NC	NC	NC
Unionized Ammonia (Calculated based on pH 8.0, 20°C)	NA	NCL	580 (CC)	NCL	NCL	NCL	NA	NCL	NC	NC	ND	ND	ND	ND	NC	NC	NC
Chloride (soluble)	NA	5,000,000	NCL	NLV	NLV	ID	500,000 (F)	NCL	NCL		9,300 [J]	19,000	<11,000	15,000			
Phosphorus	NA	1,300,000	20,000 (EE)	NLV	NLV	67,000,000	1,000,000,000 (D)	NCL	NCL		76,000	57,000	170,000	57,000			
Sulfate (soluble)	NA	5,000,000	NA	NLV	NLV	ID	ID	NCL	NCL		<11,000	<12,000	<11,000	<11,000			
Sulfide (Acid Soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000

TABLE 1D
 SUMMARY OF SOIL SAMPLE ANALYSIS - INORGANICS/GENERAL CHEMISTRY
 1855 House Street NE
 Plainfield Township, Kent County, MI

Sample Location	Statewide Default Background ²	Part 201 Generic Residential Soil Cleanup Criteria – Drinking Water Protection ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Soil Cleanup Criteria – Soil Volatilization to Indoor Air Inhalation ²	Part 201 Generic Residential Soil Cleanup Criteria – Infinite Source Volatile Soil Inhalation ²	Part 201 Generic Residential Soil Cleanup Criteria – Particulate Soil Inhalation ²	EGLE Residential Soil Recommended Volatilization to Indoor Air Interim Action Screening Level ³	U.S. EPA Residential Soil Regional Removal Management Levels ⁴	HS-SB-2221	HS-SB-2223	HS-SB-2223	HS-SB-2224	HS-SB-2224	HS-SB-2224	HS-SB-2224	HS-SB-2224
Sample Name									HS-SB-2221 (8-9)	HS-SB-2223 (1-2)	HS-SB-2223 (8-9)	HS-SB-2224 (1-2)	HS-SB-2224 (6-7)	HS-SB-2224 (20-22)	HS-SB-2224 (31-33)	HS-SB-2224 (37-39)
Depth Interval (Feet below ground surface)									8 - 9	1 - 2	8 - 9	1 - 2	6 - 7	20 - 22	31 - 33	37 - 39
Boring Location									Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site
Laboratory Sample ID(s)									19062077-02A	UF27082-007 & 19061882-12A	UF27082-008 & 19061882-13A	19062077-12A	19062077-13A	19062077-14A	19062077-15A	19062077-16A
Sample Date									6/27/2019	6/26/2019	6/26/2019	6/28/2019	6/28/2019	6/28/2019	6/28/2019	6/28/2019
Parameter ($\mu\text{g}/\text{kg}$)																
Acetic Acid	NA	84,000	180,000 (G)	NLV	NLV	17,000,000,000	130,000,000	NCL	NCL	<19,000	<19,000	<20,000	<19,000	<19,000	<20,000	<19,000
Formic Acid	NA	200,000	ID	1,500,000	210,000	130,000,000	320,000,000 (C)	NCL	87,000	<19,000	<19,000	<20,000	<19,000	<19,000	<20,000	<19,000
Cyanide - Total	390	4,000	100	NLV	NLV	250,000	12,000	NCL	69,000	85 [J]	57 [J]					
Cyanide, Available	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	<40	<40	<40	<40	<40	<40	<40	<40
Ammonia - N (gas diffusion)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL		<1,200	<1,200					
Nitrate-Nitrite - N (soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL		670	640					
Nitrate-Nitrite - N + Ammonia - N (Calculated)	NA	200,000 (N)	NCL	NCL	NCL	NCL	NCL	380,000,000	NC	670	640	NC	NC	NC	NC	NC
Unionized Ammonia (Calculated based on pH 8.0, 20°C)	NA	NCL	580 (CC)	NCL	NCL	NCL	NA	NCL	NC	ND	ND	NC	NC	NC	NC	NC
Chloride (soluble)	NA	5,000,000	NCL	NLV	NLV	ID	500,000 (F)	NCL	NCL	3,800 [J]	80,000					
Phosphorus	NA	1,300,000	20,000 (EE)	NLV	NLV	67,000,000	1,000,000,000 (D)	NCL	NCL	140,000	140,000					
Sulfate (soluble)	NA	5,000,000	NA	NLV	NLV	ID	ID	NCL	NCL	<12,000	<12,000					
Sulfide (Acid Soluble)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	NCL	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000	<100,000

TABLE 1E
SUMMARY OF SOIL SAMPLE ANALYSIS - PFAS
1855 House Street NE
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Soil Cleanup Criteria – Drinking Water Protection ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Soil Cleanup Criteria – Soil Volatilization to Indoor Air Inhalation ²	Part 201 Generic Residential Soil Cleanup Criteria – Infinite Source Volatile Soil Inhalation ²	Part 201 Generic Residential Soil Cleanup Criteria – Direct Contact ²	EGLE Residential Soil Recommended Volatilization to Indoor Air Interim Action Screen Level ³	U.S. EPA Residential Soil Regional Removal Management Levels ⁴	HS-SB-2100	HS-SB-2100	HS-SB-2101	HS-SB-2101	HS-SB-2102	HS-SB-2102	HS-SB-2103	HS-SB-2103	HS-SB-2103
Sample Name						HS-SB-2100 (1-2)	HS-SB-2100 (3-4)	HS-SB-2101 (1-2)	HS-SB-2101 (3-4)	HS-SB-2102 (1-2)	HS-SB-2102 (3-4)	HS-SB-2103 (1-2)	DUP	HS-SB-2103 (1-2)	HS-SB-2103 (3-4)	
Depth Interval (Feet below ground surface)						1 - 2	3 - 4	1 - 2	3 - 4	1 - 2	3 - 4	1 - 2	1 - 2	3 - 4		
Boring Location						House St Site	House St Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site	Off-Site		
Laboratory Sample ID(s)						UF21044-002	UF21044-003	UF21044-004	UF21044-005	UF21044-006	UF21044-007	UF21044-008	UF21044-009	UF21044-010		
Sample Date						6/18/2019	6/18/2019	6/18/2019	6/18/2019	6/18/2019	6/18/2019	6/19/2019	6/19/2019	6/19/2019		
Parameter ($\mu\text{g}/\text{kg}$)																
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	NCL	<12	<9.6	<12	<9.4	<10	<10	<9.8	<9.8	<11	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	NCL	<12	<9.6	<12	<9.4	<10	<10	<11	<11	<11	
N-Ethyl perfluoroctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	NCL	<2.4	<1.9	<2.3	<1.9	<2.1	<2	<2.2	<2	<2.2	
N-Methyl perfluoroctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	NCL	<2.4	<1.9	<2.3	<1.9	<2.1	<2	<2.2	<2	<2.2	
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	NCL	NCL	3,800,000	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluoroctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluorobutanoic acid (PBBA)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluoroctanoic acid (PFOA)	NCL	10,000	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluoroctane sulfonic acid (PFOS)	NCL	0.24	NCL	NCL	NCL	NCL	16	22	<5.8	<4.7	6.9	5.7	<5.4	<4.9	<5.4	
PFOA + PFOS (Calculated)	NCL	NCL	NCL	NCL	NCL	NCL	16	22	ND	ND	6.9	5.7	ND	ND	ND	
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	NCL	<6	<4.8	<5.8	<4.7	<5.2	<5	<5.4	<4.9	<5.4	
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	NCL	NCL	16	22	ND	ND	6.9	5.7	ND	ND	

TABLE 1E
SUMMARY OF SOIL SAMPLE ANALYSIS - PFAS
1855 House Street NE
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Soil Cleanup Criteria – Drinking Water Protection ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Soil Cleanup Criteria – Soil Volatilization to Indoor Air Inhalation ²	Part 201 Generic Residential Soil Cleanup Criteria – Infinite Source Volatile Soil Inhalation ²	Part 201 Generic Residential Soil Recommended Volatilization to Indoor Air Interim Action Screening Level ³	U.S. EPA Residential Soil Regional Removal Management Levels ⁴	HS-SB-2126	HS-SB-2126	HS-SB-2127	HS-SB-2127	HS-SB-2128	HS-SB-2128	HS-SB-2223	HS-SB-2223
Sample Name							HS-SB-2126 (2-3)	HS-SB-2126 (8-9)	HS-SB-2127 (3-4)	HS-SB-2127 (8-9)	HS-SB-2128 (2-3)	HS-SB-2128 (8-9)	HS-SB-2223 (1-2)	HS-SB-2223 (8-9)
Depth Interval (Feet below ground surface)							2 - 3	8 - 9	3 - 4	8 - 9	2 - 3	8 - 9	1 - 2	8 - 9
Boring Location							Off-Site							
Laboratory Sample ID(s)							UF27082-001	UF27082-002	UF27082-003	UF27082-004	UF27082-005	UF27082-006	UF27082-007	UF27082-008
Sample Date							6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019
Parameter ($\mu\text{g}/\text{kg}$)														
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	NCL	<9.5	<11	<9.4	<12	<9.9	<10	<10	<12
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	NCL	<9.5	<11	<9.4	<12	<9.9	<10	<10	<12
N-Ethyl perfluoroctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	NCL	<1.9	<2.3	<1.9	<2.4	<2	<2.1	<2.1	<2.3
N-Methyl perfluoroctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	NCL	<1.9	<2.3	<1.9	<2.4	<2	<2.1	<2.1	<2.3
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	NCL	NCL	3,800,000	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.8
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluoroctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluoronanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluoroctanoic acid (PFOA)	NCL	10,000	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	12
Perfluorooctane sulfonic acid (PFOS)	NCL	0.24	NCL	NCL	NCL	NCL	15	37	57	6.6	67	5.2	6	80
PFOA + PFOS (Calculated)	NCL	NCL	NCL	NCL	NCL	NCL	15	37	57	6.6	67	5.2	6	92
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	NCL	<4.7	<5.6	<4.7	<5.9	<5	<5.2	<5.2	<5.8
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	NCL	15	37	57	6.6	67	5.2	6	92

TABLES 1A TO 1E NOTES
1855 House Street NE
Plainfield Township, Kent County, MI

NOTES:

1. Concentration and criteria units are micrograms per kilogram ($\mu\text{g}/\text{kg}$) or parts per billion (ppb). Calculated criteria and concentrations are rounded to two significant digits. "ND" indicates the parameters used in the calculation were not detected. "NC" indicates not calculated.
2. Michigan Part 201 Soil Cleanup Criteria are based on "Table 2, Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Tier I Risk Based Screening Levels," Michigan Administrative Code, Cleanup Criteria Requirements for Response Activity, Rules 299.46 and 299.49, effective December 30, 2013; updated June 25, 2018.

Abbreviations Include:

- "ID" indicates insufficient data to develop criterion.
- "NA" indicates a criterion or value is not available or, in the case of background, not applicable.
- "NCL" indicates no criterion listed in EGLE Table 2.
- "NLL" indicates the substance is not likely to leach under most soil conditions.
- "NLV" indicates the substance is not likely to volatilize under most conditions.

Footnotes Include:

- (B) - Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.
- (C) - The criterion developed under R 299.20 to R 299.26 exceeds the chemical-specific soil saturation screening level (C_{sat}).
- (D) - The calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or $1.0\text{E}+9$ ppb.
- (F) - Criterion is based on adverse impacts to plant life and phytotoxicity.
- (G) - Groundwater surface water interface protection (GSIP) criterion depends on the pH or water hardness, or both, of the receiving surface water.
EGLE's Footnote (G) GSI/GSIPC Calculation spreadsheet was utilized to calculate GSI criterion presented. The Rogue River is the receiving surface water for the Site. Hardness (220 mg CaCO₃/L) and pH (7.5 standard units) used in the calculations were the lowest (most-conservative) of the calculated mean and median of the Rogue River surface water samples collected in Rockford, MI at the former tannery (TA-SW-01, TA-SW-02, TA-SW-03, TA-SW-05, and TA-SW-07) rounded to two significant digits and water hardness or pH for the Rogue River near Rockford published in United States Geological Survey Circular 323, "Water Resources of the Grand Rapids Area, Michigan," Table 1, 1954.
- (M) - Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
- (N) - Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) shall not, when added together, exceed the nitrate drinking water protection criterion of $2.0\text{E}+5$ $\mu\text{g}/\text{kg}$.
- (P) - Total cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with soil criteria.
- (W) - Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the drinking water protection criterion of 1,600 $\mu\text{g}/\text{kg}$.
- (CC) - The generic soil GSI protection criteria for unionized ammonia are 580 $\mu\text{g}/\text{kg}$ and 1,100 $\mu\text{g}/\text{kg}$ for cold water and warm water surface water, respectively. The percent conversion factor in the table for cold water (20°C or 68°F) and pH (8.0 standard units) is 3.82%.
- (DD) - Residential direct contact criteria are protective of both prenatal and postnatal exposure.
- (EE) - The applicable GSI criteria for phosphorus is 1,000 $\mu\text{g}/\text{L}$. The footnote does not specify a GSIP criterion, however, the GSIP for phosphorus refers to Footnote EE. Conservatively, a value of 20 times the GSI criterion (20,000 $\mu\text{g}/\text{kg}$) was used.

3. EGLE Residential Soil Recommended Volatilization to Indoor Air Interim Action Screening Levels (RIASLs) for were based on EGLE's Toxics Steering Group's "Media-Specific Interim Action Screening Levels," published in August 2017. The EGLE published the RIASLs in August 2017, and recently removed the RIASLs from the EGLE website. The EGLE is reportedly evaluating the RIASLs for appropriate use and applicability. These are included for reference.

Abbreviations Include:

- "NCL" indicates no value listed in the Media-Specific Interim Action Screening Levels table.

Footnotes Include:

- (M) - Site-specific criterion may be below target detection limits (TDL).
- 4. U.S. EPA Residential Soil Regional Removal Management Levels (RMLs) were based on "Generic RML Tables," updated November 2018.
- 5. To the extent that samples listed in these tables contain or consist of waste material, in whole or in part, the comparison to the EGLE Part 201 generic cleanup criteria does not imply applicability of the criteria because the physical and chemical properties of the waste material are expected to be different from the default values or assumptions used to derive the Generic Soil Cleanup Criteria in the Cleanup Criteria Requirements for Response Activity Rules (R299.1-299.50).
- 6. Bold, italic number with thick line border or italic parameter name indicates that parameter was detected above the Michigan Part 201 Soil Cleanup Criteria. Per MCL 324.20101(e)(i), if state-wide default background levels are available and greater than a risk-based generic cleanup criterion, then the state-wide default background levels are used as a substitute for that generic cleanup criterion.
- 7. Abbreviations include:
 - "< RL" indicates the parameter was analyzed for but not detected above the method detection limit; RL = Reporting Limit.
 - "DUP" indicates a duplicate sample.
 - "B" indicates the parameter was also detected in the method blank.
 - "J" indicates the parameter was detected at a concentration greater than the limit of quantitation (LOQ) but less than the detection limit (DL) and the result is estimated.
 - "H" indicates the sample was analyzed out of holding time.

8. Sample names presented are from Shealy Environmental Services, Inc. laboratory reports. Sample names presented in ALS Environmental lab reports may have minor differences based on laboratory interpretation of the chains of custody.

TABLE 1F
 SUMMARY OF SOIL SAMPLE ANALYSIS - TCLP METALS
 1855 House Street NE
 Plainfield Township, Kent County, MI

Sample Location	RCRA Maximum Concentration	HS-SB-4100	HS-SB-4100	HS-SB-4100	HS-SB-4101	HS-SB-4101	HS-SB-4102	HS-SB-4102	HS-SB-4103	HS-SB-4103	HS-SB-4105	HS-SB-4105	HS-SB-4106	HS-SB-4106	HS-SB-4107	HS-SB-4107	HS-SB-4200	HS-SB-4200
Sample Name		HS-SB-4100 (12-13)	HS-SB-4100 (12-13) DUP	HS-SB-4100 (15-16)	HS-SB-4101 (12-13)	HS-SB-4101 (15-16)	HS-SB-4102 (3-4)	HS-SB-4102 (4-5)	HS-SB-4103 (12-13)	HS-SB-4103 (15-16)	HS-SB-4105 (12-13)	HS-SB-4105 (15-16)	HS-SB-4106 (12-13)	HS-SB-4106 (15-16)	HS-SB-4107 (3-4)	HS-SB-4107 (5-6)	HS-SB-4200 (12-13)	HS-SB-4200 (15-16)
Depth Interval (Feet below ground surface)		12 - 13	12 - 13	15 - 16	12 - 13	15 - 16	3 - 4	4 - 5	12 - 13	15 - 16	12 - 13	15 - 16	12 - 13	15 - 16	3 - 4	5 - 6	12 - 13	15 - 16
Laboratory Sample ID		UG20001-001	UG20001-002	UG20001-003	UG20001-004	UG20001-005	UG20001-006	UG20001-007	UG20001-010	UG20001-011	UG20001-014	UG20001-015	UG20001-016	UG20001-017	UG20001-018	UG20001-019	UG20001-012	UG20001-013
Sample Date		07/17/2019	07/17/2019	07/17/2019	07/17/2019	07/17/2019	07/17/2019	07/17/2019	07/17/2019	07/17/2019	07/18/2019	07/18/2019	07/18/2019	07/18/2019	07/18/2019	07/18/2019	07/18/2019	07/18/2019
Parameter ($\mu\text{g/L}$)																		
Chromium	5,000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

TABLE 1F
 SUMMARY OF SOIL SAMPLE ANALYSIS - TCLP METALS
 1855 House Street NE
 Plainfield Township, Kent County, MI

Sample Location	RCRA Maximum Concentration	HS-SB-4206	HS-SB-4206	HS-SB-4210	HS-SB-4210	HS-SB-4300	HS-SB-4300	HS-SB-4303	HS-SB-4303	HS-SB-4307	HS-SB-4307	HS-SB-4307	HS-SB-4310	HS-SB-4310	HS-SB-4311	HS-SB-4311	HS-SB-4312	HS-SB-4312
Sample Name		HS-SB-4206 (10-11)	HS-SB-4206 (7-8)	HS-SB-4210 (10-11)	HS-SB-4210 (7-8)	HS-SB-4300 (6-7)	HS-SB-4300 (8-9)	HS-SB-4303 (5-6)	HS-SB-4303 (7-8)	HS-SB-4307 (5-6)	HS-SB-4307 (5-6) DUP	HS-SB-4307 (8-9)	HS-SB-4310 (5-6)	HS-SB-4310 (8-9)	HS-SB-4311 (5-6)	HS-SB-4311 (8-9)	HS-SB-4312 (2-3)	HS-SB-4312 (5-6)
Depth Interval (Feet below ground surface)		10 - 11	7 - 8	10 - 11	7 - 8	6 - 7	8 - 9	5 - 6	7 - 8	5 - 6	5 - 6	8 - 9	5 - 6	8 - 9	5 - 6	8 - 9	2 - 3	5 - 6
Laboratory Sample ID		UG20001-009	UG20001-008	UG20001-021	UG20001-020	UG20001-022	UG20001-023	UG20001-024	UG20001-025	UG20001-028	UG20001-029	UG20001-030	UG20001-033	UG20001-034	UG20001-035	UG20001-036	UG20001-031	UG20001-032
Sample Date	07/17/2019	07/17/2019	07/18/2019	07/18/2019	07/18/2019	07/18/2019	07/19/2019	07/19/2019	07/19/2019	07/19/2019	07/19/2019	07/19/2019	07/19/2019	07/19/2019	07/19/2019	07/19/2019	07/19/2019	
Parameter ($\mu\text{g/L}$)																		
Chromium	5,000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	

TABLE 1F
 SUMMARY OF SOIL SAMPLE ANALYSIS - TCLP METALS
 1855 House Street NE
 Plainfield Township, Kent County, MI

Sample Location	RCRA Maximum Concentration	HS-SB-4313	HS-SB-4313	HS-SB-4407
Sample Name		HS-SB-4313 (10-11)	HS-SB-4313 (7-8)	HS-SB-4407 (6-7)
Depth Interval (Feet below ground surface)		10 - 11	7 - 8	6 - 7
Laboratory Sample ID		UG20001-027	UG20001-026	UG24104-001
Sample Date		07/19/2019	07/19/2019	07/23/2019
Parameter ($\mu\text{g/L}$)				
Chromium		5,000	<100	<100
				1,600

TABLE 1F NOTES
1855 House Street NE
Plainfield Township, Kent County, MI

NOTES:

1. Concentration and criteria units are micrograms per Liter ($\mu\text{g/L}$) or parts per billion (ppb).
2. RCRA Maximum Concentration criteria are based on "Table 1, Maximum Concentration of Contaminants for the Toxicity Characteristic," 40 CFR 261.24, last amended March 13, 2002.
3. Bold, italic number with thick line border or italic parameter name indicates that parameter was detected above the RCRA Maximum Concentration.
4. Abbreviations include:
 - "< RL" indicates the parameter was analyzed for but not detected above the method detection limit; RL = Reporting Limit.
 - "DUP" indicates a duplicate sample.

GEOPROBE LOG																	
 GZA GeoEnvironmental, Inc. <i>Engineers and Scientists</i>					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2116 SHEET: 1 of 2 PROJECT NO.: 16.0062335.52 REVIEWED BY: BLW								
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/24/2019 Finish Date: 6/24/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83											
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey											
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister			Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed				
No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab	PID (ppm)												
1	C-1	0-5	60	55	0-1	C-1: S-1: 0-0.1': Brown, TOPSOIL, moist.			1	TOPSOIL		0-1					
2	S-1	0-1			0.8	0.1-1': Brown, fine to medium SAND, little Silt, rock fragments, moist.			2	SAND			No Equipment Installed				
3	S-2	1-2			0.4	S-2: Brown, fine to medium SAND, trace Silt, moist.			3			3					
4	S-3	2-3			0.4	S-3: Brown, fine to medium SAND, trace Silt, moist.				CLAY							
5	S-4	3-4			0.6	S-4: Brown, CLAY, trace Sand, moist.						5.4					
6	S-5	4-5			0.7	S-5: Brown, CLAY, trace Sand, moist.											
7	C-2	5-10	60	48	NR	C-2:											
8	S-6	5-6			0.8	S-6: 5-5.4': Brown, CLAY, trace Sand, moist.											
9	S-7	6-7			0.7	5.4-6': Light brown, fine to medium SAND, trace Silt, moist. S-7: Light brown, fine to medium SAND, trace Silt, moist.											
10	S-8	7-8			0.9	S-8: Light brown, fine to medium SAND, trace Silt, moist.											
11	S-9	8-9			0.8	S-9: Light brown, fine to medium SAND, trace Silt, moist.											
12	S-10	9-10			N/A	S-10: Light brown, fine to medium SAND, trace Silt, moist.				SAND							
13	C-3	10-15	60	43	NR	C-3:											
14	S-11	10-11			0.9	S-11: Light brown, fine to medium SAND, trace Silt, moist.											
	S-12	11-12			1.7	S-12: Light brown, fine to medium SAND, trace Silt, moist.											
	S-13	12-13			1.1	S-13: Light brown, fine to medium SAND, trace Silt, moist.											
	S-14	13-14			0.7	S-14: Light brown, fine to medium SAND, trace Silt, moist.											
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard	Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870								
REMARKS	1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.											Logger Initials: Sean Stevenson					
												Boring No.: HS-SB-2116					

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2116 SHEET: 2 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/24/2019 Finish Date: 6/24/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)		
15	S-15	14-15				N/A	S-15: No recovery.						
16	C-4	15-20	60	43		NR	C-4:						
17	S-16	15-16				0.8	S-16: Light brown, fine to medium SAND, trace Silt, moist.						
18	S-17	16-17				0.8	S-17: Light brown, fine to medium SAND, trace Silt, moist.						
19	S-18	16-17				0.6	S-18: Light brown, fine to medium SAND, trace Silt, moist.		SAND				
20	S-19	17-18				0.7	S-19: Light brown, fine to medium SAND, trace Silt, moist.						
21	S-20	18-19				N/A	S-20: No recovery.						
22													
23													
24													
25													
26													
27													
28													
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard					Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870
REMARKS											Logger Initials: Sean Stevenson Boring No.: HS-SB-2116		

GEOPROBE LOG														
 GZA GeoEnvironmental, Inc. <i>Engineers and Scientists</i>					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2117 SHEET: 1 of 2 PROJECT NO.: 16.0062335.52 REVIEWED BY: BLW					
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/24/2019 Finish Date: 6/24/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83								
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey								
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister				Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab	PID (ppm)									
1	C-1	0-5	60	48	0-1	NR	C-1: S-1: 0-0.7': Brown, TOPSOIL, moist.				1	TOPSOIL	0.7	
	S-1	0-1				0.5	0.7-1': Brown, fine to medium SAND, little Silt, moist, organics present.				2			No Equipment Installed
2	S-2	1-2				0.1	S-2: Brown, fine to medium SAND, little Silt, moist.				3			
3	S-3	2-3				2-3	0.0	S-3: Brown, fine to medium SAND, little Silt, moist.						
4	S-4	3-4				0.0	S-4: Brown, fine to medium SAND, little Silt, moist.							
5	S-5	4-5				N/A	S-5: No recovery.							
6	C-2	5-10	60	46		NR	C-2: S-6: Light brown, fine to medium SAND, trace Silt, lenses of Clay, moist.							
	S-6	5-6				0.3	S-6: Light brown, fine to medium SAND, trace Silt, lenses of Clay, moist.							
7	S-7	6-7				0.0	S-7: Light brown, fine to medium SAND, trace Silt, lenses of Clay, moist.							
8	S-8	7-8				0.0	S-8: Light brown, fine to medium SAND, trace Silt, moist.							SAND
9	S-9	8-9				0.0	S-9: Light brown, fine to medium SAND, trace Silt, moist.							
10	S-10	9-10				N/A	S-10: No recovery.							
11	C-3	10-15	60	39		NR	C-3: S-11: Light brown, fine to medium SAND, trace Silt, moist.							
	S-11	10-11				0.7	S-11: Light brown, fine to medium SAND, trace Silt, moist.							
12	S-12	11-12				0.0	S-12: Light brown, fine to medium SAND, trace Silt, moist.							
13	S-13	12-13				0.3	S-13: Light brown, fine to medium SAND, trace Silt, moist.							
14	S-14	13-14				0.0	S-14: Light brown, fine to medium SAND, trace Silt, moist.							
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard	Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY					MISSDIG Ticket Number: B91621870			
REMARKS		1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.										Logger Initials: Sean Stevenson Boring No.: HS-SB-2117		

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2117 SHEET: 2 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/24/2019 Finish Date: 6/24/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)		
15	S-15	14-15				N/A	S-15: No recovery.						
16	C-4	15-20	60	43		NR	C-4:						
17	S-16	15-16				0.0	S-16: 15-15.2': Brown, fine to medium SAND, trace Silt, moist.						
18	S-17	16-17				0.0	15.2-16': Light brown, fine to medium SAND, trace Silt, moist.						
19	S-18	16-17				0.2	S-17: Light brown, fine to medium SAND, trace Silt, moist.						
20	S-18	17-18				0.2	S-18: Light brown, fine to medium SAND, trace Silt, moist.		SAND				
21	S-19	18-19				0.3	S-19: Light brown, fine to medium SAND, trace Silt, moist.						
22	S-20	19-20				N/A	S-20: No recovery.						
23							End of exploration at 20 feet.			20			
24													
25													
26													
27													
28													
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard					Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870
REMARKS											Logger Initials: Sean Stevenson		
											Boring No.: HS-SB-2117		

GEOPROBE LOG																
 GZA GeoEnvironmental, Inc. <i>Engineers and Scientists</i>					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2118 SHEET: 1 of 2 PROJECT NO.: 16.0062335.52 REVIEWED BY: BLW							
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/24/2019 Finish Date: 6/24/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83										
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey										
Depth (ft)	Sample				Sample Description & Configuration Modified Burmister				Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed			
No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab	PID (ppm)											
C-1	0-5	60			0-1	NR	C-1: S-1: 0-0.7': Dark brown, TOPSOIL, moist.				1	TOPSOIL	0.6			
S-1	0-1					0.0	0.7-1': Light brown, fine to medium SAND, trace Silt, moist, organics present.				2			No Equipment Installed		
S-2	1-2					0.1	S-2: Light brown, fine to medium SAND, trace Silt, moist, organics present.									
S-3	2-3					0.1	S-3: Light brown, fine to medium SAND, trace Silt, moist, organics present.				3	SAND				
S-4	3-4				3-4	0.1	S-4: 3-3.8': Light brown, fine to medium SAND, trace Silt, Clay lenses, moist, organics present.						3.7			
S-5	4-5					N/A	3.8-4': Brown, CLAY, trace fine Sand, moist. S-5: No recovery.					CLAY	5			
C-2	5-10	60	47			NR	C-2: S-6: 5-5.9': Light brown, fine to medium SAND, trace Silt, moist.									
S-6	5-6					0.0	S-6: 5-5.9': Light brown, fine to medium SAND, trace Silt, moist.									
S-7	6-7					0.3	5.9-6': Brown, fine to medium SAND, little Silt, moist. S-7: Brown, fine to medium SAND, little Silt, moist, rock at 6.9'.									
S-8	7-8					0.2	S-8: Brown, fine to medium SAND, little Silt, moist.									
S-9	8-9					0.0	S-9: 8-8.4': Brown, fine to medium SAND, little Silt, moist. 8.4-9': Light brown, fine to medium SAND, trace Silt, moist.									
S-10	9-10					N/A	S-10: No recovery.					SAND				
C-3	10-15	60	44			NR	C-3: S-11: Brown, fine to medium SAND, little Silt, moist.									
S-11	10-11					0.0										
S-12	11-12					0.1	S-12: Brown, fine to medium SAND, little Silt, moist.									
S-13	12-13					0.1	S-13: Brown, fine to medium SAND, little Silt, moist.									
S-14	13-14					0.1	S-14: Brown, fine to medium SAND, little Silt, moist.									
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard	Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY				MISSDIG Ticket Number: B91621870						
REMARKS	1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv. Background was measured at 0.0 ppmv. 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.											Logger Initials: Sean Stevenson				
												Boring No.: HS-SB-2118				

GEOPROBE LOG											
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2118 SHEET: 2 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW		
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/24/2019 Finish Date: 6/24/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83					
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey					
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)
15	S-15	14-15				N/A	S-15: No recovery.				
16	C-4	15-20	60	40		NR	C-4:				
17	S-16	15-16				0.0	S-16: Brown, fine to medium SAND, little Silt, moist.				
18	S-17	16-17				0.1	S-17: Brown, fine to medium SAND, little Silt, moist.				
19	S-18	16-17.5'				0.1	S-18: 17-17.5': Brown, fine to medium SAND, little Silt, moist.				
20	S-19	17-18				0.0	17.5-18': Brown, CLAY, trace fine Sand, moist.				
21	S-20	18-19				N/A	S-19: Brown, fine to medium SAND, little Silt, Clay lenses, moist.				
22							S-20: No recovery.				
23											
24											
25											
26											
27											
28											
	Granular Soils		Cohesive Soils		Plasticity					MISSDIG Ticket Number:	
	Blows/FT Density		Blows/FT Consistency		SM Thread Diameter Rolled					B91621870	
	0-4 -- Very Loose		<2 -- Very Soft		None	SILT					
	4-10 -- Loose		2-4 -- Soft		1/4"	Clayey SILT					
	10-30 -- Medium Dense		4-8 -- M. Stiff		1/8"	SILT & CLAY					
	30-50 -- Dense		8-15 -- Stiff		1/16"	CLAY & SILT					
	>50 -- Very Dense		15-30 -- V. Stiff		1/32"	Silty CLAY					
			>30 -- Hard		1/64"	CLAY					
REMARKS											Logger Initials:
											Sean Stevenson
											Boring No.:
											HS-SB-2118

GEOPROBE LOG														
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2119 SHEET: 1 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW					
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/24/2019 Finish Date: 6/24/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83								
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey								
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister			Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed	
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab									PID (ppm)
1	C-1 S-1 S-2	0-5 0-1 1-2		60	0-1	NR 0.1 0.0	C-1: S-1: 0-0.8': Dark brown, TOPSOIL, moist. 0.8-1': Brown, fine to medium SAND, little Clay, moist, organics present. S-2: Light brown, fine to medium SAND, trace Silt, moist.			1 2	TOPSOIL SAND	0.8 3	No Equipment Installed	
2	S-3 S-4 S-5	2-3 3-4 4-5					3-4	0.0 0.0 0.1	S-3: 2-2.4': Light brown, fine to medium SAND, trace Silt, moist. 2.4-3': Light brown, fine to medium SAND, trace Silt, moist, organics present. S-4: Brown, CLAY, trace fine Sand, rock fragments, moist. S-5: Brown, CLAY, trace fine Sand, rock fragments, moist.					
3	C-2 S-6 S-7	5-10 5-6 6-7		60	41	NR 0.1 0.0	C-2: S-6: 5-5.9': Brown, CLAY, trace fine Sand, moist. 5.9-6': Light brown, fine to medium SAND, trace Clay, moist. S-7: Light brown, fine to medium SAND, trace Clay, moist.			3	CLAY	5.9		
4	S-8 S-9 S-10	7-8 8-9 9-10					0.0 0.0 N/A	S-8: Light brown, fine to medium SAND, trace Clay, moist. S-9: Light brown, fine to medium SAND, trace Clay, moist. S-10: No recovery.						
5	C-3 S-11 S-12	10-15 10-11 11-12		60	41	NR 0.1 0.1	C-3: S-11: Light brown, fine to medium SAND, trace Clay, moist. S-12: Light brown, fine to medium SAND, trace Clay, Clay lenses, moist.			10	SAND			
6	S-13 S-14	12-13 13-14					0.4 0.1	S-13: Light brown, fine to medium SAND, trace Clay, Clay lenses, moist. S-14: Light brown, fine to medium SAND, trace Clay, moist.						
7														
8														
9														
10														
11														
12														
13														
14														
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870			
REMARKS 1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv. Background was measured at 0.0 ppmv. 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.											Logger Initials: Sean Stevenson Boring No.: HS-SB-2119			

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2119 SHEET: 2 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/24/2019 Finish Date: 6/24/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)		
14	S-15	14-15			N/A	S-15: No recovery.							
15	C-4	15-20	60	50	NR	C-4:							
16	S-16	15-16			0.0	S-16: Light brown, fine to medium SAND, moist.			SAND				
17	S-17	16-17			0.0	S-17: Light brown, fine to medium SAND, moist.							
18	S-18	17-18			0.0	S-18: 17-17.7': Light brown, fine to medium SAND, moist. 17.7-18': Brown, CLAY, moist.		17.7					
19	S-19	18-19			0.0	S-19: Brown, CLAY, moist.							
20	S-20	19-20			0.0	S-20: Brown, CLAY, moist.			CLAY				
21						End of exploration at 20 feet.				20			
22													
23													
24													
25													
26													
27													
28													
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard					Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870
REMARKS											Logger Initials: Sean Stevenson		
											Boring No.: HS-SB-2119		

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2120 SHEET: 1 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/25/2019 Finish Date: 6/25/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister			Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab								
1	C-1	0-5	60	54	NR	C-1: S-1: 0-0.8': Dark brown, TOPSOIL, moist.			1	TOPSOIL	0.8	No Equipment Installed	
	S-1	0-1			1.9	0.8-1': Brown, fine to medium SAND, little Clay, moist.							
	S-2	1-2			1.8	S-2: 1-1.4': Brown, fine to medium SAND, little Clay, moist. 1.4-2': Light brown, fine to medium SAND, moist.							
2	S-3	2-3			1.0	S-3: Light brown, fine to medium SAND, moist.							
3	S-4	3-4			0.6	S-4: Light brown, fine to medium SAND, moist.							
4	S-5	4-5			0.4	S-5: 4-4.2': Light brown, fine to medium SAND, moist. 4.2-4.4': Brown, CLAY, moist. 4.4-5': Light brown, fine to medium SAND, moist.							
5	C-2	5-10	60	41	NR	C-2: S-6: 5-5.3': Light brown, fine to medium SAND, moist.							
6	S-6	5-6			1.4	5.3-6': Brown, CLAY, moist							
7	S-7	6-7			0.5	S-7: 6-6.4': Brown, CLAY, moist. 6.4-7': Light brown, fine to medium SAND, moist.							
8	S-8	7-8			1.2	S-8: Light brown, fine to medium SAND, moist.							
9	S-9	8-9			1.7	S-9: Light brown, fine to medium SAND, moist.							
10	S-10	9-10			N/A	S-10: No recovery.							
11	C-3	10-15	60	43	NR	C-3: S-11: Light brown, fine to medium SAND, moist.							
12	S-11	10-11			1.1								
13	S-12	11-12			1.5	S-12: Light brown, fine to medium SAND, Clay lenses, moist.							
14	S-13	12-13			0.7	S-13: Light brown, fine to medium SAND, moist.							
	S-14	13-14			0.8	S-14: Light brown, fine to medium SAND, moist.							
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY				MISSDIG Ticket Number: B91621870	
REMARKS		1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.										Logger Initials: Sean Stevenson Boring No.: HS-SB-2120	

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2120 SHEET: 2 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/25/2019 Finish Date: 6/25/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)		
14	S-15	14-15			N/A	S-15: No recovery.							
15	C-4	15-20	60	58	NR	C-4:			SAND				
16	S-16	15-16			1.1	S-16: Light brown, fine to medium SAND, moist.							
17	S-17	16-17			1.1	S-17: 16-16.1': Light brown, fine to medium SAND, Clay lenses, moist.		16.5					
18	S-18	17-18			1.1	16.1-17': Brown, CLAY, moist. S-18: Brown, CLAY, moist.							
19	S-19	18-19			1.4	S-19: Brown, CLAY, moist.			CLAY				
20	S-20	19-20			1.0	S-20: Brown, CLAY, moist.				20			
21						End of exploration at 20 feet.							
22													
23													
24													
25													
26													
27													
28													
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard					Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870
REMARKS											Logger Initials: Sean Stevenson		
											Boring No.: HS-SB-2120		

GEOPROBE LOG														
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2121 SHEET: 1 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW					
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/25/2019 Finish Date: 6/25/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83								
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey								
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister			Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed	
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab									PID (ppm)
	C-1	0-5	60	40		NR	C-1: S-1: 0-0.4': Dark brown, TOPSOIL, moist.			1	TOPSOIL	0.4	No Equipment Installed	
1	S-1	0-1				0.2	0.4-1': Dark brown, fine to medium SAND, little Clay, moist.							
	S-2	1-2				0.0	S-2: 1-1.4': Dark brown, fine to medium SAND, little Clay, moist.							
2	S-3	2-3				0.3	1.4-1.7': Brown, fine to medium SAND, moist.							
3	S-4	3-4				0.1	1.7-2': Dark brown, fine to medium SAND, moist.							
	S-5	4-5				N/A	S-3: 2-2.2': Dark brown, fine to medium SAND, moist.							
4							2.2-3': Light brown, fine to medium SAND, moist.							
	S-4	3-3.3'					S-4: 3-3.3': Light brown, fine to medium SAND, moist.							
5	S-5	4-5					S-5: No recovery.							
	C-2	5-10	60	47		NR	C-2: S-6: 5-5.4': Light brown, fine SAND, moist.							
6	S-6	5-6				0.1	5.4-6': Brown, CLAY, moist.							
	S-7	6-7				0.1	S-7: 6-6.6': Brown, CLAY, moist.							
7	S-8	7-8				0.5	6.6-7': Light brown, fine to medium SAND, moist.							
8	S-9	8-9				0.1	S-8: Light brown, fine to medium SAND, moist.							
9	S-10	9-10				N/A	S-9: Light brown, fine to medium SAND, moist.							
10	C-3	10-15	60	43		NR	S-10: No recovery.							
11	S-11	10-11				0.5	C-3: S-11: Light brown, fine to medium SAND, moist.							
	S-12	11-12				0.3	S-11: Light brown, fine to medium SAND, moist.							
12	S-13	12-13				0.6	S-12: Light brown, fine to medium SAND, moist.							
13	S-14	13-14				0.4	S-13: Light brown, fine to medium SAND, moist.							
14							S-14: Light brown, fine to medium SAND, moist.							
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY				MISSDIG Ticket Number: B91621870		
REMARKS	1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.											Logger Initials: Sean Stevenson Boring No.: HS-SB-2121		

GEOPROBE LOG												
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2121 SHEET: 2 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW			
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/25/2019 Finish Date: 6/25/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83						
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey						
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)		
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)	
14	S-15	14-15			N/A	S-15: No recovery.						
15	C-4	15-20	60	55	NR	C-4:						
16	S-16	15-16			0.4	S-16: Light brown, fine to medium SAND, moist.						
17	S-17	16-17			0.3	S-17: Light brown, fine to medium SAND, moist.		SAND				
18	S-18	17-18			0.0	S-18: 17-17.6': Light brown, fine to medium SAND, moist. 17.6-18': Light brown, fine to medium SAND, wet.						
19	S-19	18-19			0.2	S-19: 18-18.1': Light brown, fine to medium SAND, wet. 18.1-19': Brown, CLAY, moist.			18.1			
20	S-20	19-20			0.2	S-20: 19-20': Brown, CLAY, moist.		CLAY				
21						End of exploration at 20 feet.				20		
22												
23												
24												
25												
26												
27												
28												
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870	
REMARKS											Logger Initials: Sean Stevenson Boring No.: HS-SB-2121	

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2122 SHEET: 1 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/25/2019 Finish Date: 6/25/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister			Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab								
	C-1	0-5	60	37		NR	C-1: S-1: 0-0.4': Dark brown, TOPSOIL, moist.			1	TOPSOIL	0.4	No Equipment Installed
1	S-1	0-1				0.0	0.4-1': Brown, fine to medium SAND, moist.						
2	S-2	1-2				0.1	S-2: 1-1.5': Brown, fine to medium SAND, moist. 1.5-2': Dark brown, fine to medium SAND, moist.						
3	S-3	2-3				0.1	S-3: Dark brown, fine to medium SAND, moist.						
4	S-4	3-4				0.3	S-4: Dark brown, fine to medium SAND, moist.						
5	S-5	4-5				N/A	S-5: No recovery.						
6	C-2	5-10	60	56		NR	C-2: S-6: Light brown, fine to medium SAND, moist.						
7	S-6	5-6				0.4							
8	S-7	6-7				0.5	S-7: Brown, CLAY, moist.						
9	S-8	7-8				0.0	S-8: Brown, CLAY, moist.						
10	S-9	8-9				0.2	S-9: Brown, CLAY, moist.						
11	S-10	9-10				0.2	S-10: 9-9.1': Brown, CLAY, moist. 9.1-10': Light brown, fine to medium SAND, moist.						
12	C-3	10-15	60	40		NR	C-3: S-11: Light brown, fine to medium SAND, moist.						
13	S-11	10-11				0.1							
14	S-12	11-12				0.5	S-12: Light brown, fine to medium SAND, moist.						
	S-13	12-13				1.0	S-13: Light brown, fine to medium SAND, moist.						
	S-14	13-14				0.9	S-14: Light brown, fine to medium SAND, moist.						
	Granular Soils			Cohesive Soils			Plasticity			MISSDIG Ticket Number:			
	Blows/FT Density			Blows/FT Consistency			SM Thread Diameter Rolled			B91621870			
	0-4 -- Very Loose			<2 -- Very Soft			None	SILT					
	4-10 -- Loose			2-4 -- Soft			1/4"	Clayey SILT					
	10-30 -- Medium Dense			4-8 -- M. Stiff			1/8"	SILT & CLAY					
	30-50 -- Dense			8-15 -- Stiff			1/16"	CLAY & SILT					
	>50 -- Very Dense			15-30 -- V. Stiff			1/32"	Silty CLAY					
				>30 -- Hard			1/64"	CLAY					
REMARKS	1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.											Logger Initials:	
												Sean Stevenson	
												Boring No.:	
											HS-SB-2122		

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2122 SHEET: 2 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/25/2019 Finish Date: 6/25/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)		
15	S-15	14-15				N/A	S-15: No recovery.						
16	C-4	15-20	60	47		NR	C-4:						
17	S-16	15-16				0.3	S-16: Light brown, fine to medium SAND, moist.		SAND				
18	S-17	16-17				0.6	S-17: Light brown, fine to medium SAND, moist.						
19	S-18	16-17				0.5	S-18: 17-17.2': Light brown, fine to medium SAND, moist. 17.2-18': Brown, CLAY, moist.			17.2			
20	S-19	17-18				0.5	S-19: Brown, CLAY, moist.		CLAY	18.8			
21	S-20	18-19				N/A	S-20: No recovery.						
22									SAND	20			
23													
24													
25													
26													
27													
28													
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard					Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870
REMARKS											Logger Initials: Sean Stevenson Boring No.: HS-SB-2122		

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2123 SHEET: 1 of 1 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/25/2019 Finish Date: 6/25/2019 Final Depth (ft.): 6.9	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: NA Rig Model: NA Drilling Method: Hand Auger					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed		
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab							PID (ppm)	
1	S-1	0-1			0.5	S-1: 0-0.4': Dark brown, TOPSOIL, moist. 0.4-1': Brown, fine to medium SAND, little Clay, moist, roots present. S-2: 1-1.5': Light brown, fine to medium SAND, moist. 1.5-2': Light brown, fine to medium SAND, moist, roots present. S-3: Light brown, fine to medium SAND, moist, roots present.	1	TOPSOIL	0.4				
2	S-2	1-2			0.5	S-2: 1-1.5': Light brown, fine to medium SAND, moist. 1.5-2': Light brown, fine to medium SAND, moist, roots present.	2				No Equipment Installed		
3	S-3	2-3			0.5	S-3: Light brown, fine to medium SAND, moist, roots present.	3						
4	S-4	3-4			0.8	S-4: 3-3.5': Light brown, fine to medium SAND, moist, roots present. 3.5-4': Brown, fine to medium SAND, rock fragments, moist, roots present.							
5	S-5	4-5			0.5	S-5: 4-4.5': Brown, fine to medium SAND, rock fragments, moist, roots present.							
6	S-6	5-6	NA	NA	0.4	S-6: Brown, fine to medium SAND, plastic fragments, moist.							
7	S-7	6-6.5			1.7	S-7: Brown, fine to medium SAND, fill material, moist.							
8	S-8	6.5-6.9			2.7	S-8: Brown, fine to medium SAND, fill material, moist, leather fragments present.				6.9			
9						End of exploration at 6.9 feet.							
10													
11													
12													
13													
14													
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870		
REMARKS 1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.											Logger Initials: Sean Stevenson Boring No.: HS-SB-2123		

GEOPROBE LOG														
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2125 SHEET: 1 of 3 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW					
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: G. Geerligs / T. Ulrich					Start Date: 6/25/2019 Finish Date: 6/27/2019 Final Depth (ft.): 40	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83								
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey								
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab							PID (ppm)		
1	C-1	0-5	60	40		NR	C-1: S-1: 0-0.6': Dark brown, TOPSOIL, moist, roots present.	1	TOPSOIL	0.6	No Equipment Installed			
	S-1	0-1				0.5	0.6-1': Brown, CLAY, trace fine to coarse Sand, moist.							
	S-2	1-2			1-2	0.6	S-2: 1-1.3': Brown, CLAY, trace fine to coarse Sand, moist. 1.3-2': Brown, fine to coarse SAND, wood fragments, moist.							
	S-3	2-3				0.4	S-3: Brown to light brown, fine to medium SAND, moist.							
	S-4	3-4				0.3	S-4: Light brown, fine to medium SAND, moist, roots present.							
	S-5	4-5				N/A	S-5: No recovery.							
	C-2	5-10	60	49		NR	C-2: S-6: Light brown, fine to medium SAND, moist, roots present.							
	S-6	5-6				0.5	S-6: Light brown, fine to medium SAND, moist, roots present.							
	S-7	6-7				0.3	S-7: 6-6.3': Light brown, fine to medium SAND, moist, roots present. 6.3-6.7': Brown, CLAY, moist, roots present.							
	S-8	7-8			7-8	0.7	6.7-6.8': Brown, fine to medium SAND, some Clay, moist. 6.8-7': Brown to light brown, fine to medium SAND, moist.							
	S-9	8-9				0.6	S-8: Brown to light brown, fine to medium SAND, moist. S-9: Brown to light brown, fine to medium SAND, moist.							
	S-10	9-10				1.2	S-10: Brown to light brown, fine to medium SAND, moist.							
	C-3	10-15	60	60		NR	C-3: S-11: Brown to light brown, fine to medium SAND, moist.							
	S-11	10-11				0.7	S-11: Brown to light brown, fine to medium SAND, moist.							
S-12	11-12				0.8	S-12: Brown to light brown, fine to medium SAND, moist.								
S-13	12-13				0.7	S-13: 12-12.4': Brown to light brown, fine to medium SAND, moist. 12.4-13': Brown, CLAY, moist.								
S-14	13-14				0.3	S-14: Brown, CLAY, moist.								
14														
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870			
REMARKS	1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.											Logger Initials: Sean Stevenson Boring No.: HS-SB-2125		

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2125 SHEET: 2 of 3 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: G. Geerligs / T. Ulrich					Start Date: 6/25/2019 Finish Date: 6/27/2019 Final Depth (ft.): 40	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab							PID (ppm)	
	S-15	14-15				0.6	S-15: Brown, CLAY, moist.			CLAY			
15	C-4	15-20	60	46		NR	C-4: S-16: 15-15.5': Brown to light brown, fine to medium SAND, moist.				15		
16	S-16	15-16				1.1				SAND	15.5		
17	S-17	16-17				1.1	15.5-16': Brown, CLAY, moist. S-17: 16-16.5': Brown, CLAY, moist.			CLAY	16.4		
18	S-18	17-18				0.8	16.5-17': Light brown, fine to medium SAND, moist. S-18: Light brown, fine to medium SAND, moist.						
19	S-19	18-19				1.4	S-19: Light brown, fine to medium SAND, moist.						
20	S-20	19-20				N/A	S-20: No recovery.						
21	C-5	20-25	60	40		NR	C-5: S-21: 20-20.8': Light brown, fine to medium SAND, trace Silt, moist.						
22	S-21	20-21				1.9							
23	S-22	21-22				1.5	20.8-21': Brown, fine to medium SAND, trace Silt, moist. S-22: Brown, fine to medium SAND, trace Silt, moist.						
24	S-23	22-23				0.1	S-23: 22-22.7': Brown, fine to medium SAND, trace Silt, moist.			SAND			
25	S-24	23-24				1.8	22.7-23': Light brown, fine to medium SAND, trace Silt, moist. S-24: Light brown, fine to medium SAND, trace Silt, moist.						
26	S-25	24-25				N/A	S-25: No recovery.						
27	C-6	25-30	60	35	25-27	NR	C-6: S-26: Light brown, fine to medium SAND, trace Silt, moist.						
28	S-26	25-26				1.8							
	S-27	26-27				1.5	S-27: Light brown, fine to medium SAND, trace Silt, moist.						
	S-28	27-28				1.3	S-28: Light brown, fine to medium SAND, trace Silt, moist.						
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870		
REMARKS													
Logger Initials: Sean Stevenson													
Boring No.: HS-SB-2125													

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2125 SHEET: 3 of 3 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: G. Geerligs / T. Ulrich					Start Date: 6/25/2019 Finish Date: 6/27/2019 Final Depth (ft.): 40	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab							PID (ppm)	
	S-29	28-29			N/A	S-29: No recovery.							
29	S-30	29-30			N/A	S-30: No recovery.							
30	C-7	30-35	60	40	30-32	NR C-7:							
31	S-31	30-31				2.7 S-31: Light brown, fine to medium SAND, trace Silt, moist.							
32	S-32	31-32				1.6 S-32: Light brown, fine to medium SAND, trace Silt, moist.							
33	S-33	32-33				2.7 S-33: Light brown, fine to medium SAND, trace Silt, moist.							
34	S-34	33-34				0.8 S-34: Light brown, fine to medium SAND, trace Silt, moist.							
35	S-35	34-35				N/A S-35: No recovery.			SAND				
36	C-8	35-40	60	45		NR C-8:							
36	S-36	35-36				2.0 S-36: Light brown, fine to medium SAND, trace Silt, moist.							
37	S-37	36-37				1.2 S-37: Light brown, fine to medium SAND, trace Silt, moist.							
38	S-38	37-38				2.3 S-38: Light brown, fine to medium SAND, little Silt, moist.							
39	S-39	38-39				1.9 S-39: Light brown, fine to medium SAND, little Silt, moist.							
40	S-40	39-40				N/A S-40: No recovery.				40			
41						End of exploration at 40 feet.							
42													
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870		
REMARKS													
Logger Initials: Sean Stevenson													
Boring No.: HS-SB-2125													

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2126 SHEET: 1 of 3 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: G. Geerligs / T. Ulrich					Start Date: 6/24/2019 Finish Date: 6/26/2019 Final Depth (ft.): 40	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 7822 DT V3 Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed		
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab							PID (ppm)	
	C-1	0-5	60	30		NR C-1: S-1: 0-0.3': Dark brown, TOPSOIL, moist.	1	TOPSOIL	0.3				
1	S-1	0-1				1.2 0.3-0.8': Dark brown, fine to medium SAND, trace Gravel, moist.	2	SAND			No Equipment Installed		
2	S-2	1-2				0.5 0.8-1': Dark brown to brown, fine to medium SAND, moist.	3		2.2				
3	S-3	2-3				S-2: 1-1.5': Light brown, fine to medium SAND, trace Gravel, moist.							
4	S-4	3-4				1.5-2': Dark brown, fine to medium SAND and CLAY, moist.							
5	S-5	4-5				S-3: 2-2.2': Light brown, fine to medium SAND, moist.							
6	C-2	5-10	60	52		2.2-3': Brown, SILT & CLAY, moist.							
7	S-6	5-6				S-4: No recovery.							
8	S-7	6-7				N/A S-5: No recovery.							
9	S-8	7-8											
10	S-9	8-9											
11	S-10	9-10											
12	C-3	10-15	60	60									
13	S-11	10-11				NR C-3: S-11: 10-10.2': Light brown, fine to medium SAND, moist.							
14	S-12	11-12				10.2-10.3': Dark brown, fine to medium SAND, moist, roots present.							
15	S-13	11-12				10.3-11': Light brown to brown, fine to medium SAND, moist.							
16	S-14	12-13				S-12: 11-11.8': Light brown to brown, fine to medium SAND, moist.							
17		13-14				11.8-12': Brown, SILT & CLAY, moist.							
18						S-13: Brown, SILT & CLAY, moist.							
19						S-14: Brown, SILT & CLAY, moist.							
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870		
REMARKS	1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.										Logger Initials: Sean Stevenson Boring No.: HS-SB-2126		

GEOPROBE LOG												
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2126 SHEET: 2 of 3 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW			
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: G. Geerligs / T. Ulrich					Start Date: 6/24/2019 Finish Date: 6/26/2019 Final Depth (ft.): 40	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83						
Type of Rig: Geoprobe Rig Model: 7822 DT V3 Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey						
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)		
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)	
	S-15	14-15				0.5	S-15: Brown, SILT & CLAY, moist.					
15	C-4	15-20	60	38		NR	C-4: S-16: 15-15.2': Brown, fine to medium SAND, moist.		CLAY	15		
16	S-16	15-16				0.8	15.2-15.3': Brown, CLAY, moist.		SAND	15.2		
17	S-17	16-17				0.8	15.3-16': Light brown, fine to medium SAND, moist.		CLAY	15.3		
18	S-18	17-18				0.9	S-17: 16-16.5': Light brown, fine to medium SAND, moist. 16.5-17': Brown, CLAY, moist.		SAND	16.5		
19	S-19	18-19				1.0	S-18: Light brown, fine to medium SAND, moist.		CLAY	17		
20	S-20	19-20				N/A	S-19: Light brown, fine to medium SAND, moist.					
21	C-5	20-25	60	30		NR	S-20: No recovery.					
22	S-21	20-21				0.6	C-5: S-21: Light brown, fine to medium SAND, moist.					
23	S-22	21-22				0.6	S-21: Light brown, fine to medium SAND, moist.					
24	S-23	22-23				0.4	S-22: Light brown, fine to medium SAND, moist.					
25	S-24	23-24				N/A	S-23: Light brown, fine to medium SAND, moist.					
26	S-25	24-25				N/A	S-24: No recovery.					
27	C-6	25-30	60	36	25-27	NR	S-25: No recovery.					
28	S-26	25-26				0.8	C-6: S-26: Light brown, fine to medium SAND, moist.					
	S-27	26-27				0.8	S-26: Light brown, fine to medium SAND, moist.					
	S-28	27-28				0.2	S-27: Light brown, fine to medium SAND, moist.					
							S-28: Light brown, fine to medium SAND, moist.		SAND			
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870	
REMARKS											Logger Initials: Sean Stevenson Boring No.: HS-SB-2126	

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2126 SHEET: 3 of 3 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: G. Geerligs / T. Ulrich					Start Date: 6/24/2019 Finish Date: 6/26/2019 Final Depth (ft.): 40	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 7822 DT V3 Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab							PID (ppm)	
	S-29	28-29			N/A	S-29: No recovery.							
29	S-30	29-30			N/A	S-30: No recovery.							
30	C-7	30-35	60	48	NR	C-7:							
31	S-31	30-31			0.5	S-31: Light brown, fine to medium SAND, moist.							
32	S-32	31-32		31-33	0.5	S-32: Light brown, fine to medium SAND, moist.							
33	S-33	32-33			0.4	S-33: Light brown, fine to medium SAND, moist.							
34	S-34	33-34			0.7	S-34: 32-32.3': Light brown, fine to medium SAND, moist. 32.3-33': Light brown, fine SAND, trace Silt, moist.							
35	S-35	34-35			N/A	S-35: No recovery.		SAND					
36	C-8	35-40	60	45	NR	C-8:							
37	S-36	35-36			0.3	S-36: Light brown, fine SAND, trace Silt, moist.							
38	S-37	36-37			0.1	S-37: Light brown, fine SAND, trace Silt, moist.							
39	S-38	37-38		37-39	0.2	S-38: Light brown, fine SAND, trace Silt, moist.							
40	S-39	38-39			0.5	S-39: 38-38.8': Light brown, fine SAND, trace Silt, moist. 38.8-39': No recovery.							
41	S-40	39-40			N/A	S-40: No recovery.							
42						End of exploration at 40 feet.							
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870		
REMARKS													
Logger Initials: Sean Stevenson													
Boring No.: HS-SB-2126													

GEOPROBE LOG														
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2127 SHEET: 1 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW					
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: G. Geerligs / T. Ulrich					Start Date: 6/24/2019 Finish Date: 6/24/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83								
Type of Rig: Geoprobe Rig Model: 7822 DT V3 Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey								
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab							PID (ppm)		
1	C-1	0-5	60	40		NR	C-1: S-1: 0-0.5': Dark brown, TOPSOIL, moist.	1	TOPSOIL	0.5				
	S-1	0-1				0.7	0.5-1': Dark brown, fine to medium SAND, moist.		SAND	1.8				
2	S-2	1-2				0.6	S-2: 1-1.8': Brown, fine to medium SAND, moist.	2						
	S-3	2-3				0.3	1.8-2': Brown, SILT & CLAY, some fine to medium Sand, moist.	3						
3	S-4	3-4			3-4	0.1	S-3: 2-2.3': Brown, SILT & CLAY, some fine to medium Sand, moist.		CLAY	3				
	S-5	4-5				N/A	2.3-3': Brown, SILT & CLAY, moist.							
4							S-4: Brown, fine to medium SAND, moist.							
5	C-2	5-10	60	46		NR	C-2: S-6: Brown to light brown, fine to medium SAND, moist.							
6	S-6	5-6				0.6								
7	S-7	6-7				0.7	S-7: Brown to light brown, fine to medium SAND, moist, roots present.							
8	S-8	7-8				0.3	S-8: Brown to light brown, fine to medium SAND, moist.							
9	S-9	8-9			8-9	0.6	S-9: 8-8.8': Brown to light brown, fine to medium SAND, moist.							
10	S-10	9-10				N/A	8.8-9': No recovery.		SAND					
11	C-3	10-15	60	56		NR	C-3: S-11: 10-10.8': Brown, fine to medium SAND, moist.							
	S-11	10-11				1.1	10.8-11': Light brown, fine to medium SAND, moist.							
12	S-12	11-12				0.5	S-12: Light brown, fine to medium SAND, moist.							
13	S-13	12-13				0.4	S-13: Light brown, fine to medium SAND, moist.							
14	S-14	13-14				0.8	S-14: Brown, fine to medium SAND, moist.							
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870			
REMARKS		1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.										Logger Initials: Sean Stevenson Boring No.: HS-SB-2127		

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2127 SHEET: 2 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: G. Geerligs / T. Ulrich					Start Date: 6/24/2019 Finish Date: 6/24/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 7822 DT V3 Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)		
15	S-15	14-15				1.2	S-15: Brown, fine to medium SAND, moist.						
16	C-4	15-20	60	55		NR	C-4:						
17	S-16	15-16				0.9	S-16: Brown, fine to medium SAND, wet.		SAND				
18	S-17	16-17				0.5	S-17: 16-16.8': Brown, fine to medium SAND, moist. 16.8-17': Brown, CLAY, wet.						
19	S-18	17-18				0.8	S-18: Brown, CLAY, wet.			16.9			
20	S-19	18-19				0.4	S-19: 18-18.7': Brown, CLAY, wet. 18.7-19': Brown, CLAY, wet.		CLAY				
21	S-20	19-20				0.3	S-20: 19-19.3': Light brown, fine to medium SAND, moist. 19.3-20': Light brown, fine to coarse SAND, moist.			19			
22							End of exploration at 20 feet.			20			
23													
24													
25													
26													
27													
28													
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870		
REMARKS											Logger Initials: Sean Stevenson Boring No.: HS-SB-2127		

GEOPROBE LOG											
 GZA GeoEnvironmental, Inc. <i>Engineers and Scientists</i>					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2128 SHEET: 1 of 2 PROJECT NO.: 16.0062335.52 REVIEWED BY: BLW		
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: G. Geerligs / T. Ulrich					Start Date: 6/24/2019 Finish Date: 6/24/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83					
Type of Rig: Geoprobe Rig Model: 7822 DT V3 Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey					
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister			Remark	Elev. (ft.)	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab	PID (ppm)				Stratum Description	Equipment Installed
1	C-1	0-5	60	44		NR	C-1: S-1: 0-0.7': Dark brown, TOPSOIL, moist, roots present. 0.7-1': Brown, fine to medium SAND, moist.		1	TOPSOIL	0.7
2	S-1	0-1				0.8	S-2: 1-1.7': Brown, fine to medium SAND, moist. 1.7-2': Brown, CLAY, some fine to medium Sand, moist.		2	SAND	1.7
3	S-2	1-2				0.3	S-3: Brown, CLAY, some fine to medium Sand, moist.		3	CLAY	3.7
4	S-3	2-3			2-3	0.3	S-4: 3-3.7': Brown, CLAY, moist. 3.7-4': No recovery.				
5	S-4	3-4				0.3	S-5: No recovery.				
6	S-5	4-5				N/A					
7	C-2	5-10	60	49		NR	C-2: S-6: Brown, fine to medium SAND, moist.			SAND	6
8	S-6	5-6				0.9	S-7: 6-6.1': Brown, CLAY, moist. 6.1-7': Light brown, fine to medium SAND, moist.			CLAY	6.1
9	S-7	6-7				0.8	S-8: Light brown, fine to medium SAND, moist.				
10	S-8	7-8				0.8	S-9: Light brown, fine to medium SAND, moist.				
11	S-9	8-9			8-9	0.8	S-10: Light brown, fine to medium SAND, moist.				
12	S-10	9-10				0.9					
13	C-3	10-15	60	60		NR	C-3: S-11: Light brown, fine to medium SAND, moist.			SAND	
14	S-11	10-11				0.8	S-12: 11-11.2': Dark brown, fine to medium SAND, moist. 11.2-12': Light brown, fine to medium SAND, moist.				
	S-12	11-12				0.8	S-13: 12-13				
	S-13	12-13				0.4	S-14: 13-14				
	S-14	13-14				0.9					
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard	Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY	MISSDIG Ticket Number: B91621870				
REMARKS		1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.									Logger Initials: Sean Stevenson Boring No.: HS-SB-2128

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2128 SHEET: 2 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: G. Geerligs / T. Ulrich					Start Date: 6/24/2019 Finish Date: 6/24/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 7822 DT V3 Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)		
15	S-15	14-15				0.5	S-15: 14-14.6': Brown, fine to medium SAND, moist. 14.6-15': Brown, CLAY, moist.		SAND	14.6			
16	C-4	15-20	60	41		NR	C-4:						
17	S-16	15-16				0.1	S-16: Brown, CLAY, moist.		CLAY				
18	S-17	16-17				2.2	S-17: Brown, CLAY, moist.						
19	S-18	16-17				1.8	S-18: Light brown, fine to medium SAND, moist.			17			
20	S-19	17-18				1.0	S-19: Brown to light brown, fine to coarse SAND, rock fragment, moist.		SAND				
21	S-20	18-19				N/A	S-20: No recovery.						
22										20			
23							End of exploration at 20 feet.						
24													
25													
26													
27													
28													
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard					Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870
REMARKS											Logger Initials: Sean Stevenson		
											Boring No.: HS-SB-2128		

GEOPROBE LOG											
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2220 SHEET: 1 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW		
Logged By: Alex Chlopik Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/27/2019 Finish Date: 6/27/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83					
Type of Rig: Geoprobe Rig Model: 7822 DT V3 Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey					
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.) Stratum Description	Depth (ft.)	Equipment Installed	
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)
1	C-1	0-5	60	47		NR	C-1: S-1: 0-0.4': Dark brown, TOPSOIL, moist.	1	TOPSOIL	0.4	No Equipment Installed
1	S-1	0-1				2.3	0.4'-1': Light brown, fine to medium SAND, moist.				
2	S-2	1-2				0.1	S-2: Light brown, fine to medium SAND, moist.	2	SAND	2.2	
3	S-3	2-3				1.3	S-3: 2-2.2': Light brown, fine to medium SAND, moist. 2.2-3': Brown, CLAY, moist.	3			
4	S-4	3-4				4.4	S-4: Brown, CLAY, moist.				
5	S-5	4-5				N/A	S-5: No recovery.		CLAY		
6	C-2	5-10	60	51		NR	C-2: S-6: 5-5.8': Brown, CLAY, moist.				
6	S-6	5-6				1.5	5.8-6': Light brown, fine to medium SAND, trace Silt, moist.			5.8	
7	S-7	6-7				1.3	S-7: Light brown, fine to medium SAND, trace Silt, moist.				
8	S-8	7-8				1.5	S-8: Light brown, fine to medium SAND, trace Silt, moist.				
9	S-9	8-9				1.4	S-9: Light brown, fine to medium SAND, trace Silt, moist.				
10	S-10	9-10				2.2	S-10: Light brown, fine to medium SAND, trace Silt, moist.				
11	C-3	10-15	60	42		NR	C-3: S-11: Brown, fine to medium SAND, trace Silt, moist.		SAND		
11	S-11	10-11				1.1					
12	S-12	11-12				1.7	S-12: Brown, fine to medium SAND, trace Silt, moist.				
13	S-13	12-13				1.4	S-13: Brown, fine to medium SAND, trace Silt, moist.				
14	S-14	13-14				1.2	S-14: Brown, fine to medium SAND, trace Silt, moist.				
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870
REMARKS	1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.										Logger Initials: Alex Chlopik
											Boring No.: HS-SB-2220

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2220 SHEET: 2 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Alex Chlopik Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/27/2019 Finish Date: 6/27/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 7822 DT V3 Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)		
15	S-15	14-15				1.6	S-15: No recovery.						
16	C-4	15-20	60	57		NR	C-4:						
17	S-16	15-16				1.6	S-16: Brown, fine to medium SAND, trace Silt, moist.		SAND				
18	S-17	16-17				1.4	S-17: Brown, fine to medium SAND, trace Silt, moist.						
19	S-18	16-17				1.4	S-18: Brown, CLAY, trace Silt, moist.			17			
20	S-19	17-18				1.7	S-19: Brown, CLAY, trace Silt, moist.						
21	S-20	18-19				1.8	S-20: Brown, CLAY, trace Silt, moist.		CLAY				
22							End of exploration at 20 feet.			20			
23													
24													
25													
26													
27													
28													
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard					Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870
REMARKS											Logger Initials: Alex Chlopik Boring No.: HS-SB-2220		

GEOPROBE LOG														
 GZA GeoEnvironmental, Inc. <i>Engineers and Scientists</i>					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2221 SHEET: 1 of 2 PROJECT NO.: 16.0062335.52 REVIEWED BY: BLW					
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/26/2019 Finish Date: 6/26/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83								
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey								
Depth (ft)	Sample					Sample Description & Configuration			Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed	
No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab	PID (ppm)	Modified Burmister								
1	C-1	0-5	60	47	0-1	C-1: S-1: 0-0.8': Dark brown, TOPSOIL, moist.			1	TOPSOIL		0.8	No Equipment Installed	
2	S-1	0-1			0.2	0.8-2': Dark brown, fine to medium SAND, little Silt, moist.			2					
3	S-2	1-2			0.2	S-2: Light brown, fine to medium SAND, moist.								
4	S-3	2-3			0.0	S-3: Light brown, fine to medium SAND, moist.			3					
5	S-4	3-4			0.0	S-4: Light brown, fine to medium SAND, moist.				SAND				
6	S-5	4-5			N/A	S-5: No recovery.						5.1		
7	C-2	5-10	60	47	NR	C-2: S-6: 5-5.1': Light brown, fine to medium SAND, moist.								
8	S-6	5-6			0.0	5.1-6': Brown, CLAY, moist.				CLAY		6.3		
9	S-7	6-7			0.3	S-7: 6-6.3': Brown, CLAY, moist. 6.3-7': Light brown, fine to medium SAND, moist.								
10	S-8	7-8			0.0	S-8: Light brown, fine to medium SAND, moist.								
11	S-9	8-9		8-9	0.1	S-9: Light brown, fine to medium SAND, Clay lenses, moist.								
12	S-10	9-10			N/A	S-10: No recovery.				SAND				
13	C-3	10-15	60	48	NR	C-3: S-11: Light brown, fine to medium SAND, Clay lenses, moist.								
14	S-11	10-11			0.0	S-12: Light brown, fine to medium SAND, Clay lenses, moist.								
	S-12	11-12			0.1	S-13: Light brown, fine to medium SAND, Clay lenses, moist.								
	S-13	12-13			0.0	S-14: Light brown, fine to medium SAND, Clay lenses, moist.								
	S-14	13-14			0.6	S-14: Light brown, fine to medium SAND, Clay lenses, moist.								
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard	Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870					
REMARKS		1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.										Logger Initials: Sean Stevenson Boring No.: HS-SB-2221		

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2221 SHEET: 2 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/26/2019 Finish Date: 6/26/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)		
14	S-15	14-15			N/A	S-15: No recovery.							
15	C-4	15-20	60	57	NR	C-4:							
16	S-16	15-16			0.2	S-16: Light brown, fine to medium SAND, moist.		SAND					
17	S-17	16-17			0.1	S-17: Light brown, fine to medium SAND, moist.							
18	S-18	17-18			0.0	S-18: 17-17.1': Light brown, fine to medium SAND, moist. 17.1-18': Brown, CLAY, moist.			17.1				
19	S-19	18-19			0.2	S-19: Brown, CLAY, moist.							
20	S-20	19-20			0.2	S-20: Brown, CLAY, moist.		CLAY					
21						End of exploration at 20 feet.				20			
22													
23													
24													
25													
26													
27													
28													
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard					Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870
REMARKS											Logger Initials: Sean Stevenson		
											Boring No.: HS-SB-2221		

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. <i>Engineers and Scientists</i>					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2222 SHEET: 1 of 2 PROJECT NO.: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/26/2019 Finish Date: 6/26/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration			Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab	PID (ppm)	Modified Burmister						
1	C-1	0-5	60	46		NR	C-1: S-1: 0-0.5': Dark brown, TOPSOIL, moist.			1	TOPSOIL	0.5	No Equipment Installed
	S-1	0-1				1.0	0.5-1': Brown, fine to medium SAND, moist.						
	S-2	1-2				0.7	S-2: 1-1.2': Dark brown, fine to medium SAND, some Silt, moist.			2			
	S-3	2-3				0.4	1.2-1.8': Brown, CLAY, moist.			3			
	S-4	3-4				0.6	1.8-1.9': Dark brown, fine to medium SAND, some Silt, moist.						
	S-5	4-5				N/A	1.9-2': Light brown, fine to medium SAND, moist.						
	S-6	5-6	60	47		NR	S-3: Light brown, fine to medium SAND, moist.					5.6	
	S-7	6-7				1.0	S-4: Light brown, fine to medium SAND, moist.						
	S-8	7-8				1.4	C-2: 5.2-5.7': Brown, CLAY, moist.						
	S-9	8-9				1.0	5.7-5.9': Rock fragments.						
	S-10	9-10				0.4	5.9-6': Brown, CLAY, moist.					7.8	
	S-11	10-11	60	40		NR	S-7: Brown, CLAY, moist.						
	S-12	11-12				0.3	S-8: 7-7.8': Brown, CLAY, moist.						
	S-13	12-13				0.9	7.8-8': Light brown, fine to medium SAND, moist.						
	S-14	13-14				0.5	S-9: Light brown, fine to medium SAND, moist.						
						N/A	S-10: No recovery.						
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard	Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY					MISSDIG Ticket Number: B91621870		
REMARKS		1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.										Logger Initials: Sean Stevenson Boring No.: HS-SB-2222	

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2222 SHEET: 2 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/26/2019 Finish Date: 6/26/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)		
15	S-15	14-15				N/A	S-15: No recovery.						
16	C-4	15-20	60	57		NR	C-4: S-16: 15-16.6': Light brown, fine to medium SAND, moist.	SAND					
17	S-16	15-16				0.7	16.6-17': Brown, CLAY, moist.			16.6			
18	S-17	16-17				0.3	S-17: Brown, CLAY, moist.						
19	S-18	16-18				0.3	S-18: Brown, CLAY, moist.						
20	S-19	17-18				0.6	S-19: Brown, CLAY, moist.	CLAY					
21	S-20	18-19				0.6	S-20: Brown, CLAY, moist.			20			
22							End of exploration at 20 feet.						
23													
24													
25													
26													
27													
28													
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard					Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870
REMARKS											Logger Initials: Sean Stevenson Boring No.: HS-SB-2222		

GEOPROBE LOG															
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2223 SHEET: 1 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW						
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/26/2019 Finish Date: 6/26/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83									
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey									
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister			Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed		
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab									PID (ppm)	
	C-1	0-5	60	35		NR	C-1: S-1: 0-0.5': Dark brown, TOPSOIL, moist.			1	TOPSOIL	0.5	No Equipment Installed		
1	S-1	0-1				0.6	0.5-1': Brown, fine to medium SAND, rock fragments, moist. S-2: Brown, fine to medium SAND, moist, roots present.								
2	S-2	1-2			1-2	0.5				2					
3	S-3	2-3				0.6	S-3: Brown, fine to medium SAND, moist, roots present.								
4	S-4	3-4				N/A	S-4: No recovery			3					
5	S-5	4-5				N/A	S-5: No recovery.								
6	C-2	5-10	60	52		NR	C-2: S-6: Light brown, fine to medium SAND, moist.			4					
7	S-6	5-6				1.0									
8	S-7	6-7				0.5	S-7: 6-6.3': Light brown, fine to medium SAND, moist. 6.3-7': Brown, CLAY, moist.			5	6.3				
9	S-8	7-8				0.9	S-8: Brown, CLAY, moist.								
10	S-9	8-9			8-9	0.9	S-9: 8-8.7': Brown, CLAY, moist. 8.7-9: Light brown, fine to medium SAND, moist.			6	8.7				
11	S-10	9-10				1.1	S-10: Light brown, fine to medium SAND, moist.								
12	C-3	10-15	60	47		NR	C-3: S-11: Light brown, fine to medium SAND, moist.			7					
13	S-11	10-11				1.1									
14	S-12	11-12				0.7	S-12: Light brown, fine to medium SAND, moist.			8	SAND				
15	S-13	12-13				0.9	S-13: Light brown, fine to medium SAND, moist.								
16	S-14	13-14				1.0	S-14: 13-13.3': Light brown, fine to medium SAND, moist. 13.3-14': Brown, CLAY, Sand lenses, moist.			9	13.3				
17															
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870				
REMARKS		1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.										Logger Initials: Sean Stevenson			
		Boring No.: HS-SB-2223													

GEOPROBE LOG													
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2223 SHEET: 2 of 2 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW				
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/26/2019 Finish Date: 6/26/2019 Final Depth (ft.): 20	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83							
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey							
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)			
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)		
15	S-15	14-15				N/A	S-15: No recovery.						
16	C-4	15-20	60	56		NR	C-4:						
17	S-16	15-16				0.8	S-16: Brown, CLAY, moist						
18	S-17	16-17				0.8	S-17: Brown, CLAY, moist		CLAY				
19	S-18	16-17				1.0	S-18: Brown, CLAY, moist						
20	S-19	17-18				0.7	S-19: Light brown, fine to medium SAND, moist.			18			
21	S-20	18-19				0.6	S-20: Light brown, fine to medium SAND, moist.		SAND				
22										20			
23													
24													
25													
26													
27													
28													
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard					Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870
REMARKS											Logger Initials: Sean Stevenson Boring No.: HS-SB-2223		

GEOPROBE LOG														
 GZA GeoEnvironmental, Inc. <i>Engineers and Scientists</i>					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2224 SHEET: 1 of 3 PROJECT NO.: 16.0062335.52 REVIEWED BY: BLW					
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/27/2019 Finish Date: 6/28/2019 Final Depth (ft.): 40	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83								
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey								
Depth (ft)	Sample					Sample Description & Configuration			Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed	
No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab	PID (ppm)	Modified Burmister								
	C-1	0-5	60	44	NR	C-1: S-1: 0-0.5': Black, TOPSOIL, moist.			1	TOPSOIL 0.5				
1	S-1	0-1			0.6	0.5-0.9': Dark brown, fine to medium SAND, little Silt, moist.								
	S-2	1-2			0.8	0.9-1': Light brown, fine to medium SAND, trace Silt, moist. S-2: 1-1.3': Dark brown, fine to medium SAND, little Silt, fill, moist.			2			No Equipment Installed		
2	S-3	2-3			0.6	1.3-2': Brown, fine to medium SAND, little Silt, moist. S-3: Brown, fine to medium SAND, little Silt, trace fine								
	S-4	3-4			1.0	Gravel, moist. S-4: 3-3.7': Light brown, fine to medium SAND, trace Silt, moist.			3	SAND				
3	S-5	4-5			N/A	3.7-4': No recovery. S-5: No recovery.								
4	C-2	5-10	60	50	NR	C-2: S-6: 5-5.3': Light brown, fine to medium SAND, trace Silt, moist.				5.3				
5	S-6	5-6			0.7	S-6: 5.3-6': Brown, CLAY, trace fine Sand, moist.								
6	S-7	6-7			0.9	S-7: Brown, CLAY, trace fine Sand, moist.				CLAY				
7	S-8	7-8			0.9	S-8: 7-7.8': Brown, CLAY, trace fine Sand, moist, roots present. 7.8-8': Light brown, fine to medium SAND, trace Silt, moist.				7.8				
8	S-9	8-9			0.8	S-9: Light brown, fine to medium SAND, trace Silt, moist.								
9	S-10	9-10			0.9	S-10: Light brown, fine to medium SAND, trace Silt, moist.								
10	C-3	10-15	60	53	NR	C-3: S-11: Light brown, fine to medium SAND, trace Silt, moist.				SAND				
11	S-11	10-11			0.4	S-11: Light brown, fine to medium SAND, trace Silt, moist.								
12	S-12	11-12			0.6	S-12: Light brown, fine to medium SAND, trace Silt, moist.								
13	S-13	12-13			0.3	S-13: 12-12.6': Light brown, fine to medium SAND, trace Silt, moist. 12.6-13': Brown, CLAY, trace fine Sand, moist.				12.6				
14	S-14	13-14			0.8	S-14: Brown, CLAY, trace fine Sand, moist.				CLAY				
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard	Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870					
REMARKS		1. Field screening of samples for organic vapors was performed with a MiniRAE 3000 photoionization detector equipped with a 10.6 eV lamp. Readings above background levels are shown in parts per million by volume (ppmv) of isobutylene. ND represents <0.1 ppmv 2. Groundwater was not encountered during drilling or upon completion. 3. Borehole was backfilled with Bentonite upon completion.										Logger Initials: Sean Stevenson Boring No.: HS-SB-2224		

GEOPROBE LOG												
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2224 SHEET: 2 of 3 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW			
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/27/2019 Finish Date: 6/28/2019 Final Depth (ft.): 40	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83						
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey						
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)		
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab						PID (ppm)	
15	S-15	14-15				0.5	S-15: Brown, CLAY, trace fine Sand, moist.					
16	C-4	15-20	60	58		NR	C-4:					
17	S-16	15-16				1.4	S-16: Brown, CLAY, trace fine Sand, moist.					
18	S-17	16-17				1.9	S-17: Brown, CLAY, trace fine Sand, moist.		CLAY			
19	S-18	17-18				0.9	S-18: 17-17.8': Brown, CLAY, trace fine Sand, moist. 17.8-18': Light brown, fine to medium SAND, trace Silt, moist.					
20	S-19	18-19				0.7	S-19: Light brown, fine to medium SAND, trace Silt, moist.			17.8		
21	S-20	19-20				0.3	S-20: Light brown, fine to medium SAND, trace Silt, moist.					
22	C-5	20-25	60	41	20-22	NR	C-5:					
23	S-21	20-21				1.1	S-21: Light brown, fine to medium SAND, trace Silt, moist.					
24	S-22	21-22				0.6	S-22: Light brown, fine to medium SAND, trace Silt, moist.					
25	S-23	22-23				0.8	S-23: Light brown, fine to medium SAND, trace Silt, moist.					
26	S-24	23-24				0.8	S-24: 23-23.7': Light brown, fine to medium SAND, trace Silt, moist.					
27	S-25	24-25				N/A	23.7-24': No recovery. S-25: No recovery.					
28	C-6	25-30	60	51		NR	C-6:					
	S-26	25-26				1.2	S-26: Light brown, fine to medium SAND, trace Silt, moist.					
	S-27	26-27				1.4	S-27: Light brown, fine to medium SAND, trace Silt, moist.					
	S-28	27-28				0.8	S-28: Light brown, fine to medium SAND, trace Silt, moist.					
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY			MISSDIG Ticket Number: B91621870	
REMARKS											Logger Initials: Sean Stevenson Boring No.: HS-SB-2224	

GEOPROBE LOG														
 GZA GeoEnvironmental, Inc. Engineers and Scientists					Wolverine World Wide House Street Rockford, Michigan				EXPLORATION NO.: HS-SB-2224 SHEET: 3 of 3 PROJECT NO: 16.0062335.52 REVIEWED BY: BLW					
Logged By: Sean Stevenson Drilling Co.: Stearns Drilling Foreman: Gary Geerligs					Start Date: 6/27/2019 Finish Date: 6/28/2019 Final Depth (ft.): 40	BORING COORDINATES (International Feet): N TBD E TBD H. Datum: MI State Plane S Zone NAD83								
Type of Rig: Geoprobe Rig Model: 6620 DT Drilling Method: Direct Push					Sampler Type: Macro Core Sampler O.D. (in.): 2.25" Sampler Length (in.): 5.0'	Offset of Boring From Original Location: NA Ground Elevation: See Survey V. Datum: See Survey								
Depth (ft)	Sample					Sample Description & Configuration Modified Burmister			Remark	Elev. (ft.)	Stratum Description	Depth (ft.)		
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	Submitted To Lab								PID (ppm)	
29	S-29	28-29				0.5	S-29: Light brown, fine to medium SAND, trace Silt, moist.							
30	S-30	29-30				1.1	S-30: Light brown, fine to medium SAND, trace Silt, moist.							
31	C-7	30-35	60	48		NR	C-7:							
	S-31	30-31				0.9	S-31: 30-30.6': Light brown, fine SAND, trace Silt, moist.							
	S-32	31-32			31-33	1.8	30.7-31': Light brown, fine to medium SAND, trace Silt, moist.							
	S-33	32-33				1.8	S-32: Light brown, fine to medium SAND, trace Silt, moist.							
	S-34	33-34				0.9	S-33: Light brown, fine to medium SAND, trace Silt, moist.							
	S-35	34-35				N/A	S-34: Light brown, fine to medium SAND, trace Silt, moist.							
	C-8	35-40	60	47		NR	S-35: No recovery.							
	S-36	35-36				0.7	C-8:							
	S-37	36-37				1.3	S-36: Light brown, fine to medium SAND, trace Silt, moist.							
	S-38	37-38			37-39	0.5	S-37: Light brown, fine to medium SAND, trace Silt, moist.							
	S-39	38-39				0.4	S-38: Light brown, fine to medium SAND, trace Silt, moist.							
	S-40	39-40				N/A	S-39: Light brown, fine to medium SAND, trace Silt, moist.							
							S-40: No recovery.							
							End of exploration at 40 feet.						40	
41														
42														
Granular Soils Blows/FT Density 0-4 -- Very Loose 4-10 -- Loose 10-30 -- Medium Dense 30-50 -- Dense >50 -- Very Dense					Cohesive Soils Blows/FT Consistency <2 -- Very Soft 2-4 -- Soft 4-8 -- M. Stiff 8-15 -- Stiff 15-30 -- V. Stiff >30 -- Hard			Plasticity SM Thread Diameter Rolled None SILT 1/4" Clayey SILT 1/8" SILT & CLAY 1/16" CLAY & SILT 1/32" Silty CLAY 1/64" CLAY				MISSDIG Ticket Number: B91621870		
REMARKS												Logger Initials: Sean Stevenson Boring No.: HS-SB-2224		