



May 30, 2018

City of Detroit Department of Public Works
City Engineering & Street Maintenance Divisions
Coleman A. Young Municipal Center
2 Woodward Avenue, Suite 611
Detroit, Michigan 48226

Re: Notice of Migration of Contamination
From a portion of 176 S. Clark Street, Detroit, MI, Tax ID 14000015-16 (MDOT Acquisition Parcel 5699)
Potentially toward W. Jefferson Avenue right-of-way to the south and/or S. Clark Street right-of-way to the east
Notification No. 5699-ROW

To whom it may concern:

The Mannik & Smith Group, Inc. ("MSG"), on behalf of the Michigan Department of Transportation ("MDOT"), has directed or conducted underground environmental testing at a portion of 176 South Clark Street, Detroit, Michigan ("the Site") in relation to the Gordie Howe International Bridge project underway in the vicinity of the rights-of-way referenced above ("the subject properties").

The Michigan Department of Environmental Quality ("MDEQ") requires distribution of the enclosed a Notice of Migration of Contamination form when there is evidence that environmental contamination at one property has or may have affected nearby properties. Hazardous substance(s) were identified in soil and/or groundwater sample(s) collected at the Site at concentration(s) that exceed Generic Residential Cleanup Criteria and Screening Levels established by the MDEQ.

At this time, it is not known if the subject properties have been affected by the environmental contamination at the Site. Also, the identification of hazardous substance(s) at the Site does not necessarily mean a hazardous situation or immediate danger currently exists. MSG, on behalf of the MDOT, is providing this notice to you as a precautionary measure and for your general awareness of environmental conditions at the Site.

Please review the enclosed document and if you have any questions regarding the Notice of Migration of Contamination please contact Karen Williams of the MDEQ at 586-753-3884. If you have general questions regarding the contents of this letter please contact Walter Bolt of MSG at 734-397-3100, extension 6025 or Jim Woodruff of the MDOT at 517-241-9115.

Sincerely,

Walter J. Bolt, CPG
Project Manager
Environmental Owners Representative Consultant
Gordie Howe International Bridge Project

CC: Jim Woodruff – MDOT
Karen Williams – MDEQ RRD Project Manager
Paul Max – General Manager, Environmental Affairs, City of Detroit BSEED
Anita Harrington – Environmental Specialist II, City of Detroit BSEED

RECEIVED JUN - 8 2018

For DEQ Use Only
ITS # _____
Site ID # _____
Category Code: _____

NOTICE OF MIGRATION OF CONTAMINATION (FORM EQP4482 REV. 4/16)

(Under the authority of Part 201, Natural Resources and Environmental Protection Act, 1994 Act 451, as amended, (NREPA) and the Rules promulgated thereunder)

An owner or operator of property that is a facility, and/or who is subject to MCL 324.20107a, and who has reason to believe that a hazardous substance is emanating from, has emanated from, or is likely to be emanating from the property and migrating beyond the boundaries of the property that he or she owns or operates is required under R 299.51017(1) and MCL 324.20114(1)(b)(ii) & (iii) to notify the Michigan Department of Environmental Quality (DEQ) and affected property owners. Submission of this notice does not fulfill the notification requirements of MCL 324.21309a.

The notice must be provided within 45 days (MCL 324.20107a) or within 30 days (MCL 324.20114) after the owner or operator has reason to believe that hazardous substances have migrated, or are likely to have migrated, to or beyond the boundary of his or her property (see R 299.51017 for exceptions that apply to parties subject to MCL 324.20107a).

Use of this form is mandatory for the notice required by R 299.51017(1) and may also be used by parties subject to MCL 324.20114(1)(b)(ii) & (iii). This form may also be used to provide notice to affected property owners as required by those rules.

If a person holds a permit for an oil and gas well under Part 615, Supervisor of Wells, of the NREPA and there is a release from the oil and gas exploration or production activities, that person shall give notice to the DEQ and to the owner of the surface rights of the property.

If a person holds an easement and there is a release from the easement holder's activities, that person shall provide notice to the DEQ and to the grantor of the easement, or the grantor's successor in interest, if any.

Completing this notice in no way relieves a person who is subject to MCL 324.20114 from the responsibility to undertake required response activities.

This notice must be sent to the DEQ office that serves the county in which the property is located. A list of DEQ offices is available at www.michigan.gov/deqducare, or by calling the Remediation and Redevelopment Division's Lansing office at 517-284-5187. The DEQ will not prepare acknowledgement of receipt of these notices. The sender is responsible for sending the report using a method that provides proof of delivery if such proof is desired. Please label the outside of the envelope "Migration Notice." Additional guidelines for the compliance with the requirements of R 299.51017(1) or MCL 324.20114(1)(b)(ii) & (iii) are available at www.michigan.gov/deqducare.

THIS NOTICE IS PROVIDED PURSUANT TO: R 299.51017 MCL 324.20114(1)
(check both, if applicable)

Please provide the following information as completely as possible.

1. Name and location of the property that hazardous substances are emanating from: Status relative to the property:
(Check one or both, as applicable.)

Name: MI Dept. of Transportation (MDOT) Acquisition Parcel 5699

Address: (portion of) 176 S. Clark Street

Location: Michigan

City/County: Detroit/Wayne

Property Tax Identification Number, or if applicable, the ward and item number: (portion of) 14000015-16

Latitude (decimal degrees): 42.307711 °N

Longitude (decimal degrees): 83.087059 °W

Reference Point for Latitude and Longitude:

Center of Site: Main/front door: Front gate/main entrance: Other:

Collection Method: Survey: Interpolation: GPS:



2. Provide any additional ID numbers associated with the property (e.g., EPA ID No., BEA No., Part 213 facility ID No., etc.):

GHIB MDOT Parcel 5699; MERA Site ID# 82002800; CNTS-RRD-16-001

3. Name, address, and telephone number of the property owner, operator, or other party submitting the notice:

Name: MDOT Bureau of Development, Environmental Services Section
Address: 425 W. Ottawa Street, P.O. Box 30050
City/State: Lansing, MI, 48909
Telephone Number: 517-241-9115

4. Name, address and telephone number of a contact person familiar with the content of the notice:

Name: Walter Bolt of The Mannik & Smith Group, Inc. Environmental Owner's Rep Consultant to MDOT
Address: 2365 Haggerty Road South
City/State: Canton, MI 48188
Telephone Number: 734-397-3100 x. 6025

5. If this Notice is provided pursuant to R 299.51017, provide the address and other location information for the adjacent property(s) onto which contamination is migrating, has migrated, or is likely to migrate.

If this Notice is provided pursuant to MCL Section 324.20114(1), provide the address and other location information for each property onto which contamination has migrated. Notice should be sent to the property owner of record. If the impacted property is owned by the State of Michigan, notice should be sent to the department managing the property (e.g., a prison, state park, etc.). Notices to the Michigan Department of Transportation (MDOT) for state owned roadways should be sent to Contaminated Site Specialist, Environmental Services Section, MDOT-Bureau of Development, 425 W. Ottawa Street, P.O. Box 30050, Lansing, MI 48909. If the impacted property is owned by the State of Michigan, notice should be sent to the department managing the property (i.e. a prison, state park, etc.).

Address: (remainder of) 176 S. Clark St. Notified? No Yes Date: May 30, 2018
City/State: Detroit, MI
Property Tax ID number: (remainder of) 14000015-16
Other: Clark Street Properties

Address: 27700 Donald Court Notified? No Yes Date: May 30, 2018
City/State: Warren, MI, 48092-2793
Property Tax ID number: NA
Other: MDEQ, Southeast Michigan District Office
Office of Drinking Water & Municipal Assistance Division

Address: 2 Woodward Avenue, Ste. 611 Notified? No Yes Date: May 30, 2018
City/State: Detroit, MI, 48226
Property Tax ID number: NA
Other: City of Detroit (W. Jefferson Ave. and S. Clark St. adjacent to 176 S. Clark St. / 14000015-16)

Address: 27175 Energy Way Notified? No Yes Date: May 30, 2018
City/State: Novi, MI, 48377
Property Tax ID number: NA
Other: International Transmission Company (ITC) (utility holder)

Address: 735 Randolph Street, Ste. 1900 Notified? No Yes Date: May 30, 2018
City/State: Detroit, MI, 48226
Property Tax ID number: NA
Other: Great Lakes Water Authority (utility holder)



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDIATION AND REDEVELOPMENT DIVISION

Address: 12775 Lydon Street
City/State: Detroit, MI, 48227
Property Tax ID number: NA
Other: Comcast/Xfinity (utility holder)

Notified? No Yes Date: May 30, 2018

Address: 208 S. Akard Street
City/State: Dallas, TX, 75202
Property Tax ID number: NA
Other: AT&T Headquarters (utility holder)

Notified? No Yes Date: May 30, 2018

Address: One Energy Plaza, Ste. 1935
City/State: Detroit, MI, 48226
Property Tax ID number: NA
Other: Detroit Edison, DTE (utility holder)

Notified? No Yes Date: May 30, 2018

Address: 6425 Huber Street
City/State: Detroit, MI, 48211
Property Tax ID number: NA
Other: Detroit Water & Sewerage Department (utility holder) – via email

Notified? No Yes Date: May 30, 2018

Address: 3245 E. Jefferson Avenue, Ste. 100
City/State: Detroit, MI, 48207
Property Tax ID number: NA
Other: Detroit Health Department – via email

Notified? No Yes Date: May 30, 2018

(Attach additional pages as needed) **PLEASE SEE ATTACHED FIGURES 1 AND 2**

MAP OF PROPERTY TAX ID NUMBERS

ADDRESS	TAX ID
A 4610 W JEFFERSON	16000065.001
B 4600 W JEFFERSON	16000065.002L
C 4500 W JEFFERSON	14000014
D 235 S MCKINSTRY	14000013
E 176 S CLARK	1400001516
F 4300 W JEFFERSON	14000017



Coordinate System: UTM Zone 17 N IntFt
 Projection: Transverse Mercator
 Datum: NAD 1983 CORS96

FIGURE 1
 PROPERTY TAX ID NUMBERS
 ADJACENT TO 5699
 Gordie Howe International Bridge
 Detroit, Michigan

DATE 5/21/2018	DRAWN BY MH	DESIGNED BY LHK	PROJECT NO. MDOT0070
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Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 * All locations approximate. Not a legal survey.

Date Saved: 5/21/2018 11:44:19 AM
 Path: S:\Projects\Project K-OWDOT0070\ENGAPP\GIS\Map_Files\Notification Maps\5699_TaxID_Map.mxd



FIGURE 2

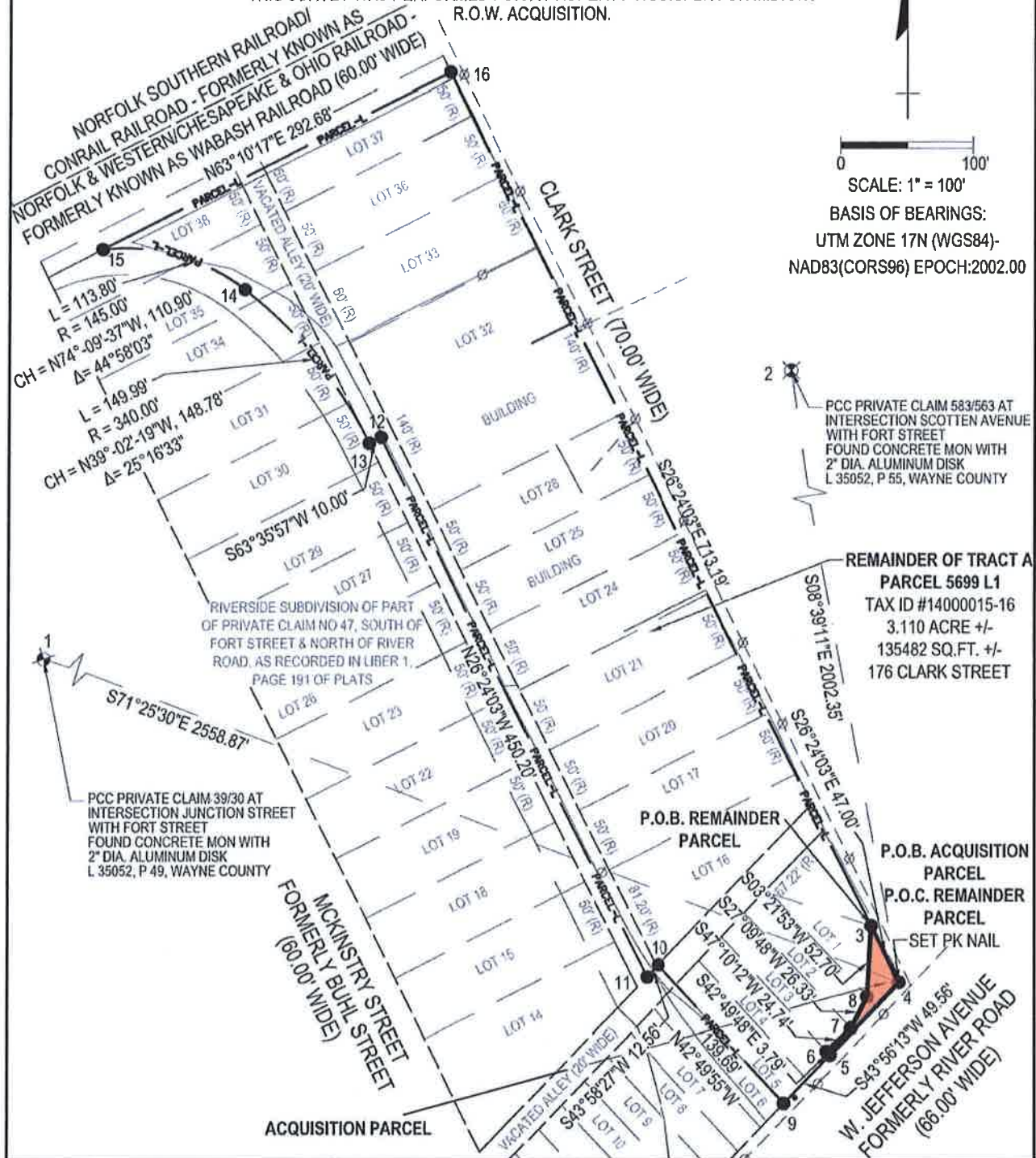
CERTIFICATE OF SURVEY

THIS SURVEY WAS PERFORMED FOR A PROPERTY TRANSFER FOR M.D.O.T.
R.O.W. ACQUISITION.

N

0 100'
SCALE: 1" = 100'

BASIS OF BEARINGS:
UTM ZONE 17N (WGS84)-
NAD83(CORS96) EPOCH:2002.00



PCC PRIVATE CLAIM 583/563 AT
INTERSECTION SCOTTEN AVENUE
WITH FORT STREET
FOUND CONCRETE MON WITH
2" DIA. ALUMINUM DISK
L 35052, P 55, WAYNE COUNTY

REMAINDER OF TRACT A
PARCEL 5699 L1
TAX ID #14000015-16
3.110 ACRE +/-
135482 SQ.FT. +/-
176 CLARK STREET

PCC PRIVATE CLAIM 39/30 AT
INTERSECTION JUNCTION STREET
WITH FORT STREET
FOUND CONCRETE MON WITH
2" DIA. ALUMINUM DISK
L 35052, P 49, WAYNE COUNTY

P.O.B. ACQUISITION
PARCEL
P.O.C. REMAINDER
PARCEL
SET PK NAIL



I, Jeffrey D. Bartlett, being a Surveyor Licensed in the State of Michigan, hereby certify that I have surveyed and mapped the above parcel of land, that the ratio of closure shall be less than 1:5000 and that I have complied with the regulations of P.A. 132 of 1970 as amended.

JB
4-27-17
JEFFREY D. BARTLETT, P.S. DATE
LICENSED PROFESSIONAL SURVEYOR
MICHIGAN LICENSE NO. 47943

FOR: Michigan Department of Transportation	
CS: 82194	JN: 113717B
ROUTE: GHIB	DATE: 4-24-2017
DRAWN BY: KLM	PAGE 5 OF 9
CHECKED BY: JDB	
PREPARED BY: SURVEYING SOLUTIONS, INC. 4471 M-61 STANDISH, MI 48658	



6. Complete the Table on Page 7 of this Form for each hazardous substance which has migrated, or is likely to have migrated, beyond the property boundary at a concentration that exceeds a Generic Residential Cleanup Criterion developed by the DEQ pursuant to MCL 324.20120a(1). Complete and attach additional copies of Page 7, if necessary, to list all hazardous substances that must be reported. Include a scaled map or drawing that shows the location of sampling points identified on the Table on Page 7, the property boundaries, and the adjacent property owners if providing notice pursuant to R 299.1017(1) or all impacted property owners if providing notice pursuant to MCL 324.20114(1).

7. Provide a summary of the information which shows that contamination is emanating from, or has emanated from, and is present beyond the boundary of the source property at a concentration which exceeds the generic residential criteria developed by the DEQ pursuant to MCL 324.20120a(1)(a). This summary shall identify the environmental media affected, specific hazardous substances, and the concentrations of those hazardous substances in all affected environmental media at the property boundary and in any sample locations beyond the property boundary. The summary shall also describe the basis for the conclusion that the contamination is emanating, has emanated, or is present beyond the boundary of the source property, including whether the conclusion is based on groundwater analytical data or fate and transport modeling, both, or neither.

8. If the person making this notice has reason to believe that a migrating hazardous substance has affected, or is likely to affect, a private or public water supply, then that water supply must be identified here:

NA

YES NO

9. Is this notice being submitted within the timeframes established under R 299.51017 and/or MCL 324.20114(1), as applicable?

10. Is this notice in addition to a notice that was submitted prior to *December 21, 2002*? (R 299.51017(4)(c))

11. Is this notice related to an oil and gas well permit (R 299.51017(2))? Permit #:

12. Is this notice related to an easement (R 299.51017(3))? (NOTE: All easement grantors *must* receive this notice.)

13. Has surface water been affected (R 299.51017(1))? (If yes, please identify the affected surface water body.)

CERTIFICATION:

With my signature below, I certify that I am the owner of the facility or that I am legally authorized to execute this notice on behalf of the owner or operator named on this form, and that to the best of my knowledge and belief the above representations are complete and accurate. I understand that intentionally submitting false information to the DEQ is a felony and may result in fines up to \$25,000 for each violation.

Signature Walter J. Bolt
(Owner or person legally authorized to bind the person making this report)

Date May 30, 2018

Name (Typed or Printed) Walter J. Bolt

Title (Typed or Printed) Project Manager, Environmental Owners Representative Consultant, Gordie Howe International Bridge Project, on behalf of Michigan Department of Transportation



See Item 6 on Page 6 of this Form for instructions to be used in completing this table. Attach additional pages if necessary. The information to be included in each column of the table is:

- Column A Name of hazardous substance.
- Column B Chemical Abstract Service (CAS) Number for the hazardous substance.
- Column C Maximum hazardous substance concentration measured on the property, expressed in parts per billion (e.g., ug/L or ug/Kg). Report maximum concentration separately for each environmental medium.
- Column D Sample location for Column C (relate to label on map).
- Column E Environmental medium in which concentration reported in Column C was measured (e.g., soil or groundwater).
- Column F Distance from point of maximum measured concentration (Column D) to property boundary, in direction of contaminant migration, if direction is known or can reasonably be inferred. If direction is unknown, list distance to nearest property boundary.
- Column G Direction of contaminant migration, if known.
- Column H Concentration closest to property boundary, if known. If a concentration lower than the maximum concentration reported in Column C has been measured at a point closer to the property boundary in the direction of contaminant migration, use Column I to list the concentration that was measured closest to the property boundary in the direction of contaminant migration.
- Column I Sample location for Column H (relate to label on map).
- Column J Environmental medium for measurement reported in Column H, if applicable.

PLEASE SEE ATTACHED TABLE 1

A Hazardous Substance	B CAS Number	C Maximum Concentration	D Sample Location for "C"	E Environmental Medium for "C"	F Distance to Property Boundary	G Direction of Migration	H Boundary Concentration	I Sample Location for "H"	J Environmental Medium for "H"

Total Number Samples Collected: _____ Total Number of Samples Exceeding Criteria: _____

**A scaled map or drawing showing these locations and the property boundaries must be submitted with this Notice
PLEASE SEE ATTACHED FIGURE 3**

TABLE 1

DEQ NOTICE OF MIGRATION ATTACHMENT

A	B	C	D	E	F	G	H	I	J
Hazardous Substance	CAS Number	Maximum Concentration	Sample Location for "C"	Environmental Medium for "C"	Distance to Property Boundary	Direction of Migration	Boundary Concentration	Sample Location for "H"	Environmental Medium for "H"
Phenanthrene	85-01-8	3,100	5699_SB-02_0-2_S_SOM_20180223	Soil	5 feet	Unknown	-	-	-
Barium	7440-39-3	330,000	5699_DUP-1_S_SOM_20180223 *	Soil	0 feet	Unknown	-	-	-
Chromium, Hexavalent	18540-29-9	9,900	5699_SB-01_0-2_S_SOM_20180223	Soil	0 feet	Unknown	-	-	-
Chromium (Total)	7440-47-3	290,000	5699_SB-01_0-2_S_SOM_20180223	Soil	0 feet	Unknown	-	-	-
Copper	7440-50-8	2,500,000	5699_SB-02_0-2_S_SOM_20180223	Soil	5 feet	Unknown	-	-	-
Lead - Fine Fraction	7439-92-1	440,000	5699_SB-02_0-2_S_SOM_20180223	Soil	5 feet	Unknown	-	-	-
Selenium	7782-49-2	2,400	5699_SB-01_0-2_S_SOM_20180223	Soil	0 feet	Unknown	-	-	-
Zinc	7440-66-6	470,000	5699_SB-02_0-2_S_SOM_20180223	Soil	5 feet	Unknown	-	-	-

Total Number of Samples Collected: 5

Total Number of Samples Exceeding Criteria: 5

* Duplicate sample corresponding to 5699_SB-01_0-2_S_SOM_20180223

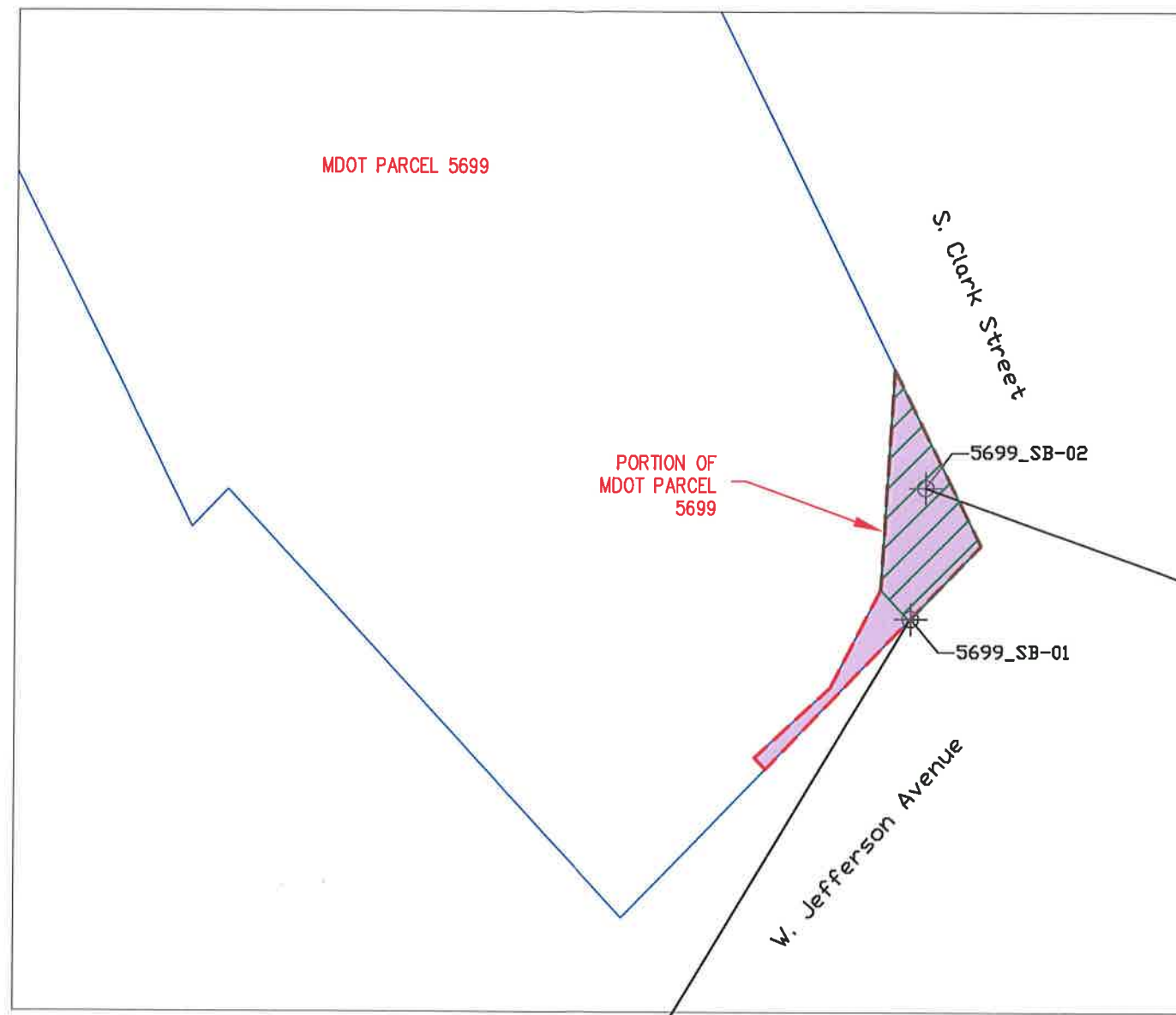
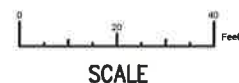
LEGEND

- SITE
- BORING LOCATION
- ESTIMATED AREA OF IMPACT BY METALS
- ESTIMATED AREA OF IMPACT BY SVOCs

ACRONYMS	
DCC	Direct Contact Criteria
DWPC	Drinking Water Protection Criteria
GSIPC	Groundwater Surface Water Interface
NE	No Exceedance
PSIC	Particulate Soil Inhalation Criteria
SVOC	Semi-Volatile Organic Compound

ABBREVIATIONS	
Ba	Barium
Cr, Hex	Hexavalent Chromium
Cr, Tot	Chromium, Total
Cu	Copper
Pb	Lead (Unfractionated total)
Pb, Fine	Lead, Fine fraction
Se	Selenium
Zn	Zinc

- NOTES:
1. Concentrations are reported in micrograms per kilogram (µg/kg).
 2. Refer to Table 1 of the PSI Report for a detailed summary of analytical data compared to residential GCC.
 3. Samples were analyzed for VOCs, SVOCs, MI-10 metals, and PCBs. VOCs were either not detected or detected at concentrations below residential GCC. PCBs were not detected.
 4. Shallow samples were analyzed for asbestos. Asbestos was not detected.



LOCATION ID	5699_SB-02	5699_SB-02
DEPTH (FT)	0 - 2	5 - 7
SAMPLE DATE	2/23/2018	2/23/2018
SVOCs	GSIPC, DWPC	GSIPC, DWPC
Metals	-	-
	Cu 2,500,000 GSIPC	NE
	Pb, Fine 440,000 DCC	NE
	Se 1,500 GSIPC	1,700 GSIPC
	Zn 470,000 GSIPC	NE

LOCATION ID	5669_SB-01	5669_SB-01	5669_SB-01
DEPTH (FT)	0 - 2	0 - 2 (DUP)	5 - 7
SAMPLE DATE	2/23/2018	2/23/2018	2/23/2018
Metals	-	-	-
	Ba NE	330,000 GSIPC	NE
	Cr, Hex 9,900 GSIPC	4,600 GSIPC	NE
	Cr, Tot 290,000 GSIPC, DWPC, PSIC	210,000 GSIPC, DWPC	NE
	Cu 150,000 GSIPC	170,000 GSIPC	NE
	Pb 2,300,000 DCC	NE	NE
	Se 2,400 GSIPC	2,100 GSIPC	1,600 GSIPC
	Zn 390,000 GSIPC	450,000 GSIPC	NE

DRAWN BY: W. TRAM	DATE DRAWN: 03/21/2018
CHECKED BY: B. YELEN	DATE CHECKED: 03/26/2018
PAGE 9 OF 9	

SE
Somat Engineering, Inc.
3031 WEST GRAND BOULEVARD, SUITE 228
DETROIT, MI 48202
PHONE: (313) 963-2721
FAX: (313) 963-2736

PREPARED FOR:
 Mannik Smith GROUP

FIGURE 3
SOIL RESIDENTIAL EXCEEDANCE MAP
PRELIMINARY SITE INVESTIGATION
PORTION OF INTERCHANGE AREA MDOT PARCEL 5699
176 S. Clark Street