



October 17, 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 409 S. Livernois Avenue, Detroit, MI, Tax ID 16016910-3 (MDOT Parcel 5351)
Potentially toward S. Livernois Avenue right-of-way to the west and/or vacated alley easement right-of-way to the east
Notification No. 5351-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 409 South Livernois Avenue, Detroit, Michigan ("the Site") in relation to the Gordie Howe International Bridge project underway in the vicinity of the right-of-way and easement 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

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TECHNICAL SKILL.
CREATIVE SPIRIT.

5351.Notice Cover Letter.DetroitDPW.docx



<p>For DEQ Use Only ITS # _____ Site ID # _____ Category Code: _____</p>
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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 MCL324.20107a, 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) Parcel 5351 Owner
Address: 409 S. Livernois Avenue Operator
Location: Michigan
City/County: Detroit/Wayne
Property Tax Identification Number, or if applicable, the ward and item number: 16016910-3

Latitude (decimal degrees): 42.302746 Longitude (decimal degrees): -83.100189

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 5351; EPA Handler ID: MIK694333063; 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: 303 S. Livernois Ave. Notified? No Yes Date: Oct. 17, 2018
City/State: Detroit, MI
Property Tax ID number: 16016914-20
Other: Detroit Water & Sewerage Dept. (owner)

Address: 303 S. Livernois Ave. Notified? No Yes Date: Oct. 17, 2018
City/State: Detroit, MI
Property Tax ID number: 16016914-20
Other: Great Lakes Water Authority (operator)

Address: 27700 Donald Court Notified? No Yes Date: Oct. 17, 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: Oct. 17, 2018
City/State: Detroit, MI, 48226
Property Tax ID number: NA
Other: City of Detroit (South Livernois Avenue and vacated alley adjacent to 409 S. Livernois Ave. / 16016910-3)

Address: 27175 Energy Way Notified? No Yes Date: Oct. 17, 2018
City/State: Novi, MI, 48377
Property Tax ID number: NA
Other: International Transmission Company (ITC) (utility holder)



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDIATION AND REDEVELOPMENT DIVISION

Address: 735 Randolph Street, Ste. 1900
City/State: Detroit, MI, 48226
Property Tax ID number: NA
Other: Great Lakes Water Authority (utility holder)

Notified? No Yes Date: Oct. 17, 2018

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

Notified? No Yes Date: Oct. 17, 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: Oct. 17, 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: Oct. 17, 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: Oct. 17, 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: Oct. 17, 2018

(Attach additional pages as needed) PLEASE SEE ATTACHED MAP OF PROPERTY TAX ID NUMBERS.



6. Complete the Table on Page 6 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 6, 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 6, 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? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10. Is this notice in addition to a notice that was submitted prior to <i>December 21, 2002</i> ? (R 299.51017(4)(c)) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. Is this notice related to an oil and gas well permit (R 299.51017(2))? Permit #: | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Is this notice related to an easement (R 299.51017(3))? (NOTE: All easement grantors <i>must</i> receive this notice.) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13. Has surface water been affected (R 299.51017(1))? (If yes, please identify the affected surface water body.) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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 10/16/2008

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 5 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 2**

TABLE 1

DEQ NOTICE OF MIGRATION ATTACHMENT

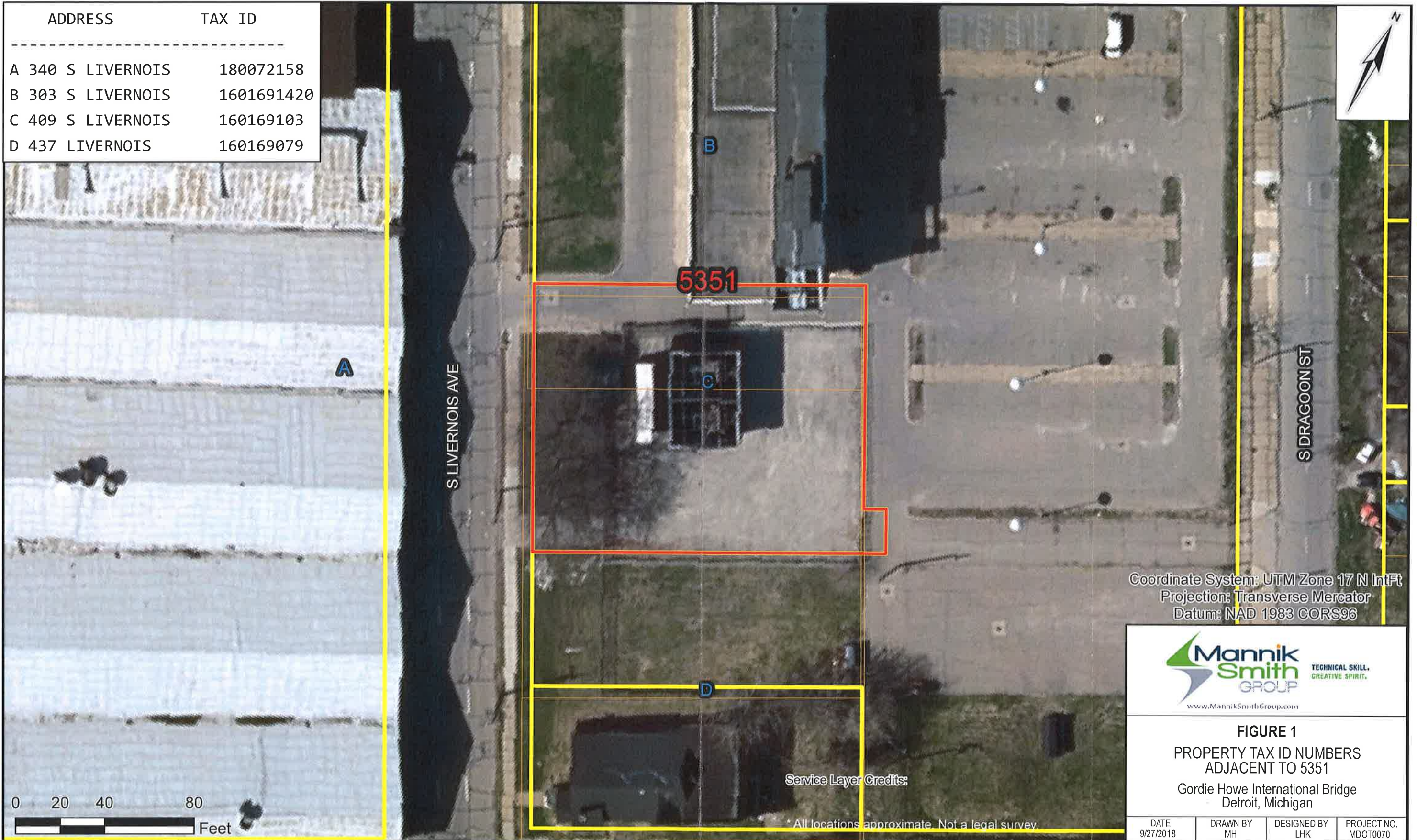
A	B	C	D	E	F	G	H	I	J
Hazardous Substance	CAS Number	Maximum Concentration	Sample Location for "C"	Environmental Medium for "C"	Distance to Property Boundary	Direction of Migration	Boundary Concentration	Sample Location for "H"	Environmental Medium for "H"
Benzo(a)pyrene	50-32-8	3,200	5351_SS-02_0-0.5_S_SOM_20180813	Soil	40 feet	Unknown	-	-	-
Arsenic	7440-38-2	21,000	5351_SS-02_0-0.5_S_SOM_20180813	Soil	40 feet	Unknown	-	-	-
Cadmium	7440-43-9	9,900	5351_SS-02_0-0.5_S_SOM_20180813	Soil	40 feet	Unknown	-	-	-
Chromium (Total)	7440-47-3	160,000	5351_SS-02_0-0.5_S_SOM_20180813	Soil	40 feet	Unknown	-	-	-
Copper	7440-50-8	2,100,000	5351_SS-02_0-0.5_S_SOM_20180813	Soil	40 feet	Unknown	-	-	-
Lead - Total (calculated)	7439-92-1	1,800,000	5351_SS-02_0-0.5_S_SOM_20180813	Soil	40 feet	Unknown	-	-	-
Lead - Fine Fraction	7439-92-1	3,300,000	5351_SS-01_0-0.5_S_SOM_20180813	Soil	35 feet	Unknown	-	-	-
Lead - Coarse Fraction	7439-92-1	700,000	5351_SS-02_0-0.5_S_SOM_20180813	Soil	40 feet	Unknown	-	-	-
Selenium	7782-49-2	2,700	5351_SS-02_0-0.5_S_SOM_20180813	Soil	40 feet	Unknown	-	-	-
Silver	7440-22-4	1,200	5351_SS-02_0-0.5_S_SOM_20180813	Soil	40 feet	Unknown	-	-	-
Zinc	7440-66-6	2,200,000	5351_SS-02_0-0.5_S_SOM_20180813	Soil	40 feet	Unknown	-	-	-

Total Number of Samples Collected: 13 soil, 3 groundwater

Total Number of Samples Exceeding Criteria: 6 soil, 0 groundwater

MAP OF PROPERTY TAX ID NUMBERS

ADDRESS	TAX ID
A 340 S LIVERNOIS	180072158
B 303 S LIVERNOIS	1601691420
C 409 S LIVERNOIS	160169103
D 437 LIVERNOIS	160169079



Date Saved: 9/27/2018 3:27:02 PM
 Path: S:\Projects\Project K-OMDO\T0070\ENG\APPS\GIS\Map_Files\Notification Maps\5351_TaxID_Map.mxd



FIGURE 1
 PROPERTY TAX ID NUMBERS
 ADJACENT TO 5351
 Gordie Howe International Bridge
 Detroit, Michigan

DATE 9/27/2018	DRAWN BY MH	DESIGNED BY LHK	PROJECT NO. MDOT0070
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5351

MDOT PARCELS

PARCEL BOUNDARIES

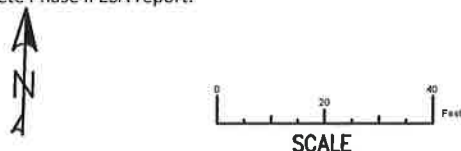
LEGEND

- SITE
 - BORING LOCATION
 - SURFACE (CONCRETE) SAMPLE LOCATION
 - TEMPORARY WELL LOCATION
- Color Key for location symbols:
 "Red" = 2016 Phase II ESA; approximated locations
 "Black" = 2018 PSI
- LIMITS OF EXISTING BUILDING(S)
(APPROXIMATE)
 - ESTIMATED AREA OF IMPACT BY SVOCs
 - ESTIMATED AREA OF IMPACT BY METALS
 - ZONE FOR VOLUME ESTIMATION

ABBREVIATIONS	
As	Arsenic
Cd	Cadmium
Cr, Tot	Chromium, Total
Cu	Copper
Pb, Coarse	Lead, Coarse Fraction
Pb, Fine	Lead, Fine Fraction
Pb, Tot Calc	Lead, Total Calculated
Se	Selenium
Ag	Silver
Zn	Zinc

ACRONYMS	
DCC	Direct Contact Criteria
DWPC	Drinking Water Protection Criteria
GSIPC	Groundwater Surface Water
SVOC	Semi-Volatile Organic Compound

NOTES:
 1. Concentrations are reported in micrograms per kilogram (µg/kg). Parentheses shown in figure represent the deepest depth of impact detected at a respective boring based on analytical data; eg. (10').
 2. 2018 PSI: Refer to Table 3 of the PSI Report for a detailed summary of PSI analytical data compared to residential GCC. Samples were analyzed for VOCs, SVOCs, MI-10 metals, and PCB. VOCs and PCBs were either not detected or detected at concentrations that do not exceed residential GCC. Shallow samples were analyzed for asbestos. Asbestos was not detected. Exceedances (if present) are represented in the data blocks of this figure.
 3. 2016 Phase II ESA: Refer to Table 1 of the PSI report for a detailed summary of 2016 analytical data compared to residential GCC. Samples were analyzed for PAHs and PCBs. PAHs were either not detected or detected at concentrations below residential GCC. PCBs were not detected. Refer to Appendix B of the PSI report for the complete Phase II ESA report.



LOCATION ID	5351_SB-02
SAMPLE DEPTH	0.5 - 2
DATE SAMPLED	8/13/2018
Metals	-
Cr, Tot	36,000 GSIPC, DWPC
Cu	140,000 GSIPC
Se	690 GSIPC
Zn	160,000 GSIPC

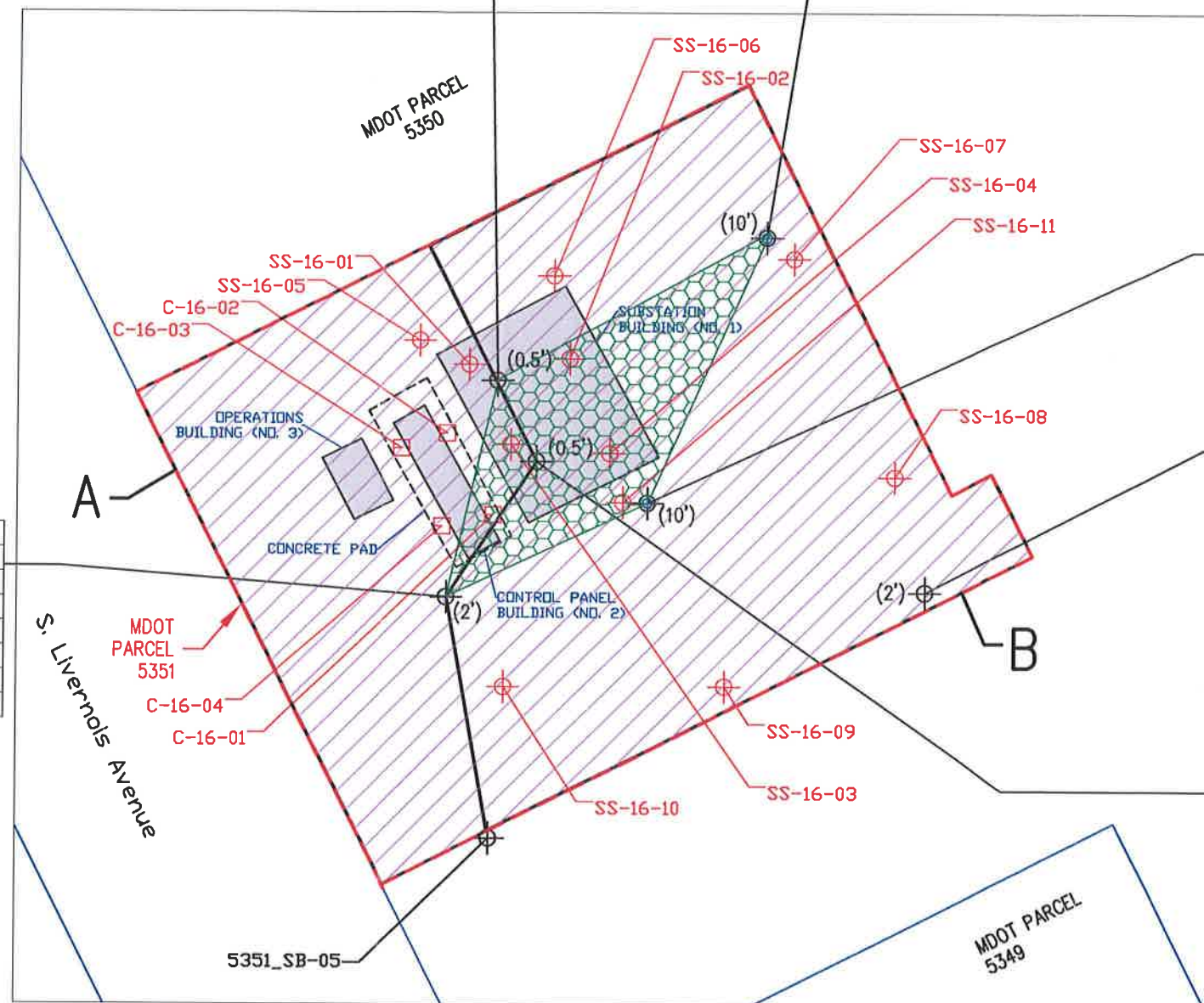
LOCATION ID	5351_SS-01
SAMPLE DEPTH	0 - 0.5
DATE SAMPLED	8/13/2018
Metals	-
Cd	5,400 GSIPC
Cr, Tot	40,000 GSIPC, DWPC
Cu	790,000 GSIPC
Pb, Coarse	500,000 DCC
Pb, Fine	3,300,000 DCC
Pb, Tot Calc	1,100,000 DWPC
Zn	560,000 GSIPC

LOCATION ID	5351_SB-01
SAMPLE DEPTH	8 - 10
DATE SAMPLED	8/13/2018
Metals	-
Se	890 GSIPC

LOCATION ID	5351_SB-03
SAMPLE DEPTH	8 - 10
DATE SAMPLED	8/13/2018
Metals	-
Zn	170,000 GSIPC

LOCATION ID	5351_SB-04
SAMPLE DEPTH	0.5 - 2
DATE SAMPLED	8/13/2018
Metals	-
Zn	150,000 GSIPC

LOCATION ID	5351_SS-02
SAMPLE DEPTH	0 - 0.5
DATE SAMPLED	8/13/2018
SVOCs	GSIPC, DWPC, DCC
Metals	-
As	21,000 GSIPC, DWPC, DCC
Cd	9,900 GSIPC, DWPC
Cr, Tot	160,000 GSIPC, DWPC
Cu	2,100,000 GSIPC
Pb, Coarse	700,000 DCC
Pb, Fine	2,700,000 DCC
Pb, Tot Calc	1,800,000 DWPC
Se	2,700 GSIPC
Ag	1,200 GSIPC
Zn	2,200,000 GSIPC



DRAWN BY:
W. TRAM

DATE DRAWN:
08/23/2018

CHECKED BY:
B. YELEN

DATE CHECKED:
08/24/2018

PAGE 8 OF 8



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

PREPARED FOR:



FIGURE 2
 SOIL RESIDENTIAL EXCEEDANCE MAP
 PRELIMINARY SITE INVESTIGATION
 PLAZA AREA MDOT PARCEL 5351
 409 S. Livernois Avenue
 Detroit, Michigan