



April 27, 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 an unplatted parcel adjoining S. Waterman St., east of S. Post St., Detroit, MI, no Tax ID (MDOT Parcel 5715)
Potentially toward S. Waterman Street right-of-way to the east and/or railroad right-of-way to the south
Notification No. 5715-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 an approximately 50-foot wide strip of land between South Post Street and South Waterman Street, Detroit, Michigan ("the Site") in relation to the Gordie Howe International Bridge project underway in the vicinity of the rights-of-ways 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 MAY - 2 2018

For DEQ Use Only ITS # _____ Site ID # _____ Category Code: _____
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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 5715	Owner* <input checked="" type="checkbox"/>
Address: Unknown – an approximately 50-foot wide strip of land north of 201 S. Post St., 276 & 274 S. Waterman St.; south of active Norfolk Southern railroad tracks	Operator <input type="checkbox"/>
Location: Michigan City/County: Detroit/Wayne	
Property Tax Identification Number, or if applicable, the ward and item number: Unavailable	
* MDOT is future owner; physical possession is anticipated by May 15, 2018	
Latitude (decimal degrees): 42.301660 °N	Longitude (decimal degrees): -83.107875 °W
Reference Point for Latitude and Longitude:	
Center of Site: <input checked="" type="checkbox"/>	Main/front door: <input type="checkbox"/>
Collection Method: Survey: <input type="checkbox"/>	Front gate/main entrance: <input type="checkbox"/>
Interpolation: <input type="checkbox"/>	Other: <input type="checkbox"/>
GPS: <input checked="" type="checkbox"/>	



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 5715; 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: Unknown – an approximately 50-foot wide strip of land north of 201 S. Post St., 276 & 274 S. Waterman St., south of active Norfolk Southern railroad tracks (subject property)
City/State: Detroit, MI
Property Tax ID number: Unavailable
Other: Honeywell International Inc. Notified? No Yes Date: April 27, 2018

Address: 274 S. Waterman St.
City/State: Detroit, MI
Property Tax ID number: 1800023600
Other: Lafayette Properties, LLC Notified? No Yes Date: April 27, 2018

Address: 6952 W. Jefferson Ave.
City/State: Detroit, MI
Property Tax ID number: 18000107
Other: DTE Electric Company Notified? No Yes Date: April 27, 2018

Address: 6952 W. Jefferson Ave.
City/State: Detroit, MI
Property Tax ID number: 18000107
Other: Potential easement holder: International Transmission Company (ITC) Notified? No Yes Date: April 27, 2018

Address: 6952 W. Jefferson Ave.
City/State: Detroit, MI
Property Tax ID number: 18000107
Other: MDOT Parcel 5714 Notified? No Yes Date: April 27, 2018



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDIATION AND REDEVELOPMENT DIVISION

Address: 276 S. Waterman St. Notified? No Yes Date: April 27, 2018
City/State: Detroit, MI
Property Tax ID number: 18000236-0
Other: MDOT Parcel 5322

Address: 201 S. Post St. Notified? No Yes Date: April 27, 2018
City/State: Detroit, MI
Property Tax ID number: 18008644.001
Other: MDOT Parcel 5409

Address: 157 S. Post St. Notified? No Yes Date: April 27, 2018
City/State: Detroit, MI
Property Tax ID number: 18008645-68
Other: MDOT Parcel 5445

Address: 221 S. Post St. Notified? No Yes Date: April 27, 2018
City/State: Detroit, MI
Property Tax ID number: 18008644.002L
Other: MDOT Parcel 5446

Address: Unknown – an approximately 60' wide strip of Notified? No Yes Date: April 27, 2018
land approximately 50' north of 201 S. Post St. /
18008644.001, 246 S. Waterman St. / 18000236-0, &
274 S. Waterman St. / 1800023600, occupied by active
Norfolk Southern railroad tracks
City/State: Detroit, MI
Property Tax ID number: Unavailable
Other: Norfolk Southern Corp.

Address: 27700 Donald Court Notified? No Yes Date: April 27, 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: April 27, 2018
City/State: Detroit, MI, 48226
Property Tax ID number: NA
Other: City of Detroit (S. Waterman Street adjacent to
the subject property)

Address: 27175 Energy Way Notified? No Yes Date: April 27, 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: April 27, 2018
City/State: Detroit, MI, 48226
Property Tax ID number: NA
Other: Great Lakes Water Authority (utility holder)



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDATION 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: April 27, 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: April 27, 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: April 27, 2018

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

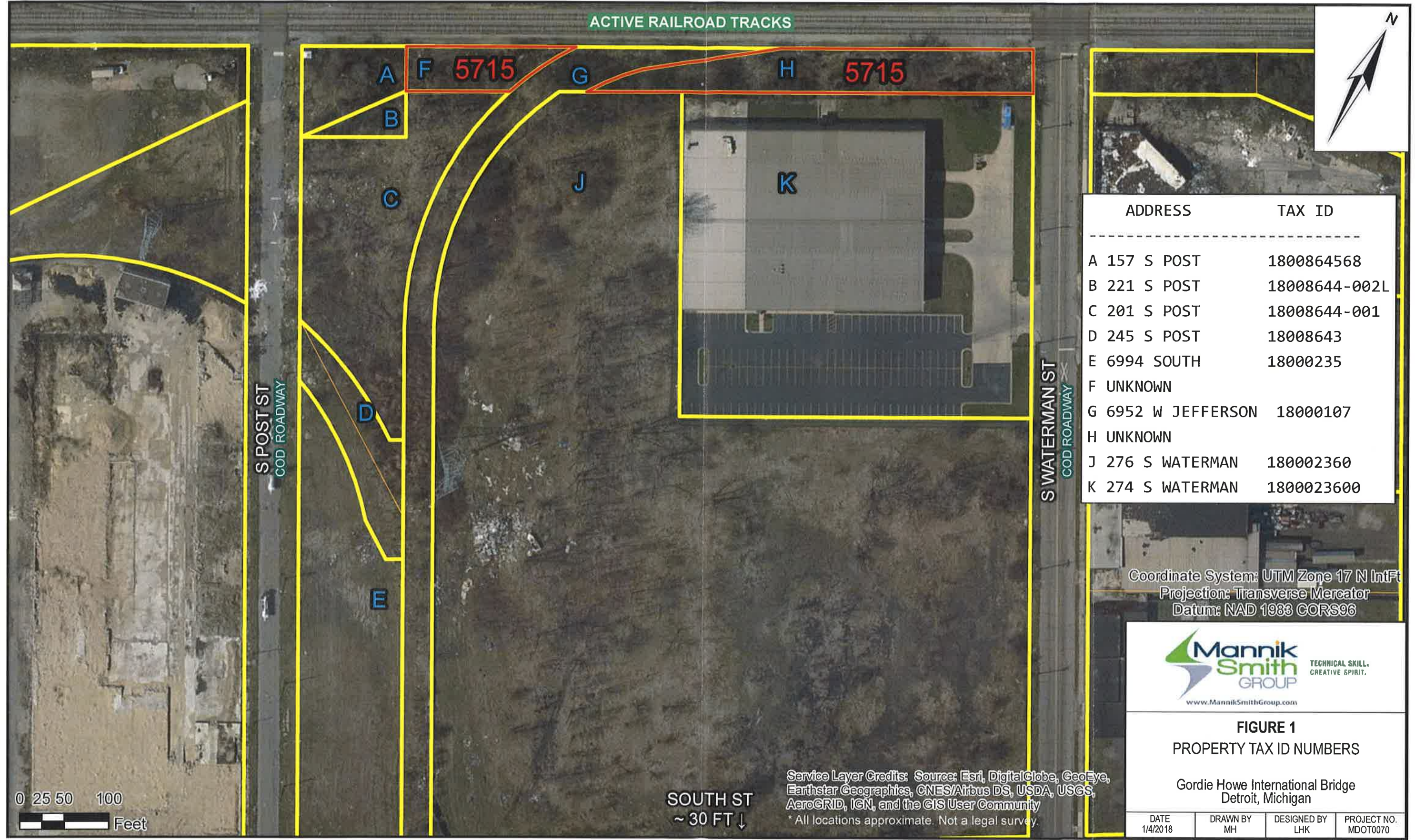
Notified? No Yes Date: April 27, 2018

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: April 27, 2018

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

MAP OF PROPERTY TAX ID NUMBERS



ADDRESS	TAX ID
A 157 S POST	1800864568
B 221 S POST	18008644-002L
C 201 S POST	18008644-001
D 245 S POST	18008643
E 6994 SOUTH	18000235
F UNKNOWN	
G 6952 W JEFFERSON	18000107
H UNKNOWN	
J 276 S WATERMAN	180002360
K 274 S WATERMAN	1800023600

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



FIGURE 1
 PROPERTY TAX ID NUMBERS

Gordie Howe International Bridge
 Detroit, Michigan

DATE 1/4/2018	DRAWN BY MH	DESIGNED BY LHK	PROJECT NO. MDOT0070
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Date Saved: 1/4/2018 2:18:07 PM
 Path: S:\Projects\Project K-OMDOT0070\ENGAPPS\GIS\Map_Files\Notification Maps\5715_TaxID_Map.mxd

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.



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? | <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 Date April 27, 2018
(Owner or person legally authorized to bind the person making this report)

Name (Typed or Printed) Walter J. Bolt

Title (Typed or Printed) Project Manager, Environmental Owners Representative Consultant, Gordie Howe International Bridge Project



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 H 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"
Benzene	71-43-2	930	5715_SB-07_1-2_S_SME_20171116	Soil	10 feet	Unknown	-	-	-
1,2,4-Trimethylbenzene	95-63-6	740	5715_SB-05_1-2_S_SME_20171116	Soil	15 feet	Unknown	-	-	-
Xylenes (Total)	1330-20-7	3,100	5715_SB-05_1-2_S_SME_20171116	Soil	15 feet	Unknown	-	-	-
Benz(a)pyrene	50-32-8	4,800	5715_SB-06_0-1_S_SME_20171116	Soil	10 feet	Unknown	-	-	-
Fluoranthene	206-44-0	9,300	5715_DUP-02_S_SME_20171116 *	Soil	20 feet	Unknown	-	-	-
Naphthalene	91-20-3	2,200	5715_DUP-02_S_SME_20171116 *	Soil	20 feet	Unknown	-	-	-
Phenanthrene	85-01-8	5,300	5715_DUP-02_S_SME_20171116 *	Soil	20 feet	Unknown	-	-	-
Arsenic	7440-38-2	350,000	5715_SS-01_S_SME_20171116	Soil	20 feet	Unknown	-	-	-
Cadmium	7440-43-9	13,000	5715_SS-01_S_SME_20171116	Soil	20 feet	Unknown	-	-	-
Copper	7440-50-8	340,000	5715_SS-01_S_SME_20171116	Soil	20 feet	Unknown	-	-	-
Lead - Total (calculated)	7439-92-1	410,000	5715_SS-01_S_SME_20171116	Soil	20 feet	Unknown	-	-	-
Lead - Fine Fraction	7439-92-1	480,000	5715_SS-01_S_SME_20171116	Soil	20 feet	Unknown	-	-	-
Mercury	7439-97-6	1,800	5715_DUP-02_S_SME_20171116 *	Soil	20 feet	Unknown	-	-	-
Selenium	7782-49-2	5,300	5715_SS-01_S_SME_20171116	Soil	20 feet	Unknown	-	-	-
Silver	7440-22-4	1,200	5715_DUP-02_S_SME_20171116 *	Soil	20 feet	Unknown	-	-	-
Zinc	7440-66-6	1,200,000	5715_DUP-02_S_SME_20171116 *	Soil	20 feet	Unknown	-	-	-
Cyanide (Available)	57-12-5	220	5715_SB-07_1-2_S_SME_20171116	Soil	10 feet	Unknown	-	-	-
Benz(a)pyrene	50-32-8	2,300	5715_DP-03_S_SME_20171116	Debris Pile	10 feet	Unknown	-	-	-
Phenanthrene	85-01-8	2,400	5715_DP-03_S_SME_20171116	Debris Pile	10 feet	Unknown	-	-	-
Arsenic	7440-38-2	85,000	5715_DP-02_S_SME_20171116	Debris Pile	0 feet	Unknown	-	-	-
Cadmium	7440-43-9	11,000	5715_DP-03_S_SME_20171116	Debris Pile	10 feet	Unknown	-	-	-
Copper	7440-50-8	1,400,000	5715_DP-03_S_SME_20171116	Debris Pile	10 feet	Unknown	-	-	-
Lead - Total (calculated)	7439-92-1	560,000	5715_DP-03_S_SME_20171116	Debris Pile	10 feet	Unknown	-	-	-
Lead - Fine Fraction	7439-92-1	560,000	5715_DP-03_S_SME_20171116	Debris Pile	10 feet	Unknown	-	-	-
Lead - Coarse Fraction	7439-92-1	550,000	5715_DP-03_S_SME_20171116	Debris Pile	10 feet	Unknown	-	-	-
Mercury	7439-97-6	1,900	5715_DP-02_S_SME_20171116	Debris Pile	0 feet	Unknown	-	-	-
Selenium	7782-49-2	11,000	5715_DP-02_S_SME_20171116	Debris Pile	0 feet	Unknown	-	-	-
Silver	7440-22-4	1,400	5715_DP-02_S_SME_20171116	Debris Pile	0 feet	Unknown	-	-	-
Zinc	7440-66-6	1,900,000	5715_DP-03_S_SME_20171116	Debris Pile	10 feet	Unknown	-	-	-
Cyanide (Available)	57-12-5	150	5715_DP-02_S_SME_20171116	Debris Pile	0 feet	Unknown	-	-	-

Total Number of Samples Collected: 24 soil, 3 debris pile, 1 groundwater

Total Number of Samples Exceeding Criteria: 23 soil, 3 debris pile, 0 groundwater

* Duplicate sample corresponding to 5715_SS-01_S_SME_20171116



MDOT Parcel 5715
SME Project No. 073213.04
Soil Residential and Nonresidential
Contamination Estimation Diagram
Figure No. 2

* Basemap provided by MSG.

Shaded area indicates estimated horizontal extent of impact. Refer to PSI report for area/quantity estimate assumptions and qualifications.



Analyte	5715	
	DP-03	NA
	11/16/17	
	TPSL/SAND	
PAHs		
Benzo(a)pyrene	2,300	
Phenanthrene	2,400	
Metals		
Arsenic	30,000	
Cadmium	11,000	
Copper	1,400,000	
Lead coarse fraction	550,000	
Lead, fine fraction	560,000	
Lead, total (calculated)	560,000	
Mercury	360	
Selenium	6,800	
Zinc	1,900,000	

Analyte	5715	
	DP-02	NA
	11/16/17	
	TPSL/SAND	
Metals		
Arsenic	85,000	
Cadmium	6,000	
Copper	220,000	
Lead, fine fraction	430,000	
Lead, total (calculated)	410,000	
Mercury	1,900	
Selenium	11,000	
Silver	1,400	
Zinc	990,000	
Other		
Cyanide, Available	150	

Analyte	5715	
	SB-04	Duplicate
	0.5-3	
	11/16/17	
SAND		
Metals		
Arsenic	57,000	28,000
Selenium	1,300	<2,600

Analyte	5715	
	SB-04	4-5
	11/16/17	
	SAND	
Metals		
Selenium	940	

Analyte	5715	
	SB-03	1-2
	11/16/17	
	SAND	
Metals		
Selenium	830	

Analyte	5715	
	SB-01	0-1
	11/16/17	
	TPSL/SAND	
PAHs		
Benzo(a)pyrene	3,100	
Metals		
Arsenic	53,000	
Cadmium	3,200	
Copper	110,000	
Selenium	2,600	
Zinc	290,000	

Analyte	5715	
	SB-07	1-2
	11/16/17	
	SAND	
VOCs		
Benzene	930	
Xylenes, Total	1,700	
Metals		
Selenium	1,100	
Other		
Cyanide, Available	220	

Analyte	5715	
	SB-06	0-1
	11/16/17	
	TPSL/SAND	
VOCs		
Xylenes, Total	840	
PAHs		
Benzo(a)pyrene	4,800	
Metals		
Arsenic	75,000	
Cadmium	4,000	
Copper	81,000	
Mercury	280	
Selenium	3,000	
Zinc	190,000	

Analyte	5715	
	SB-05	1-2
	11/16/17	
	SAND	
VOCs		
1,2,4-Trimethylbenzene	740	
Benzene	140	
Xylenes, Total	3,100	
Metals		
Selenium	2,000	

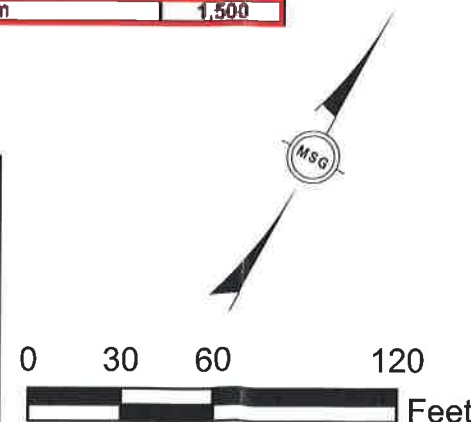
Analyte	5715	
	SS-01	Duplicate
	0-0.5	
	11/16/17	
SAND		
PAHs		
Benzo(a)pyrene	1,100	4,600
Fluoranthene	5,400	9,300
Naphthalene	1,700	2,200
Phenanthrene	2,500	5,300
Metals		
Arsenic	350,000	84,000
Cadmium	13,000	7,100
Copper	340,000	180,000
Lead, fine fraction	480,000	440,000
Lead, total (calculated)	410,000	400,000
Mercury	200	1,800
Selenium	5,300	5,000
Silver	950	1,200
Zinc	810,000	1,200,000

Analyte	5715	
	SB-02	0-1
	11/16/17	
	TPSL/SAND	
VOCs		
Benzene	160	
Xylenes, Total	980	
Metals		
Arsenic	74,000	
Cadmium	3,200	
Copper	100,000	
Mercury	470	
Selenium	2,600	
Zinc	230,000	
Other		
Cyanide, Available	110	

Analyte	5715	
	DP-01	NA
	11/16/17	
	TPSL/SAND	
Metals		
Arsenic	44,000	
Cadmium	4,800	
Copper	120,000	
Mercury	220	
Selenium	4,100	
Zinc	500,000	
Other		
Cyanide, Available	140	

Legend

- Historical Rail Spur Location
 - Railroad Tie Sample Location
 - PSI Soil Boring Location
 - Surface Sample Location
 - Debris Pile Location
 - Concentration Exceeds Residential and Nonresidential Criteria
- Concentrations are µg/kg (ppb)



Notes:
 Historical feature locations are approximate and based on review of available Sanborn® maps provided by MSG.

Groundwater Surface Water Interface Protection and Drinking Water Protection Criteria do not represent exposure concerns, but are relevant for Due Care for preconstruction and construction activities.

Refer to the geophysical report appended to the PSI report for information about and figures depicting inferred buried utilities and other features, as applicable.

**Sample RRT01 is a composite sample of railroad ties in the area shown on the Figure, collected for analysis of waste characterization parameters. Results did not exceed applicable criteria, as discussed in the PSI report.

Debris pile analytical results were not included in the area of impact estimations.

Duplicate sample analytical results were listed for each analyte where a residential or nonresidential Part 201 Criteria exceedance was noted in either of the duplicate pair samples.