

May 4, 2017

City of Detroit – Department of Public Works
2 Woodward Avenue, Suite 611
Detroit, Michigan 48226

Subject: Notice of Migration
1522 E. Woodbridge Street and 1560, 1828, and 1831 Franklin Street
Detroit, Michigan
AKT Project No. 7773F2

To Whom It May Concern:

AKT Peerless is providing, on behalf of Rivertown Phase I, LLC, this Notice of Migration documentation as required by the Michigan Department of Environmental Quality (MDEQ) under Part 10, rule 1013 (6). Contamination has been identified at 1522 E. Woodbridge Street and 1560, 1828, and 1831 Franklin Street (subject property) and appears to have migrated within the utility corridors along Woodbridge Street, Franklin Street, Orleans Street, Dequindre Cut recreational park, Atwater Street, and Riopelle Street. Necessary precautions should be taken when any subsurface utility work is to be done within the right-of-way of either of these streets adjacent to the subject property. Along with the Notice of Migration documentation, a site map has also been included with this notice.

If you have any questions please call me at (248) 615-1333.

Sincerely,

AKT PEERLESS

Deanna L. Hutsell

Deanna Hutsell
Project Manager

RECEIVED MAY 24 2017



For DEQ Use Only ITS # _____ Site ID # 82002878 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 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/degducare, 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/degducare.

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:

Name: Orleans Landing Development Project
Address: 1522 E. Woodbridge Street and 1560, 1828, and 1831 Franklin Street
Location: Bound to the north by E. Woodbridge Street, to the east by Dequindre Cut recreational park, to the south by Atwater Street, and to the west by Riopelle Street
City/County: Detroit/Wayne County
Property Tax Identification Number, or if applicable, the ward and item number: 07000044-50, 07000018-21, 07000039-41, and 0700014-7 | 2. Status relative to the property:
(Check one or both, as applicable.)

Owner <input checked="" type="checkbox"/>
Operator <input type="checkbox"/> |
|---|--|

Latitude (decimal degrees): 42.334073

Longitude (decimal degrees): -83.028416



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.):

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

Name: Rivertown Phase I, LLC
Address: 720 Olive Street, Suite 2500
City/State: St. Louis, Missouri 63101
Telephone Number: (314) 621-3400

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

Name: Deanna Hutsell (AKA Peerless)
Address: 22725 Orchard Lake Road
City/State: Farmington, Michigan
Telephone Number: 248-615-1333

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: 2 Woodward Avenue, Suite 611
City/State: Detroit, Michigan

Notified? No Yes Date: []

Property Tax ID number: []
Other: City of Detroit - Department of Public Works
(Utility Corridor along Woodbridge Street, Franklin Street, Orleans Street, Dequindre Cut recreational park, Atwater Street, and Riopelle Street)

Address: 2000 2nd Avenue
City/State: Detroit, Michigan

Notified? No Yes Date: []

Property Tax ID number: []
Other: DTE Energy (Utility Corridor along Woodbridge Street, Franklin Street, Orleans Street, Dequindre Cut recreational park, Atwater Street, and Riopelle Street)

Address: 425 W. Ottawa Street, P.O. Box 30050
City/State: Lansing, Michigan

Notified? No Yes Date: []

Property Tax ID number: []
Other: Michigan Department of Transportation (Area bounded by Woodbridge Street to the north, Atwater Street to the south, Dequindre Cut recreational park to the east, and Riopelle Street to the west)



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDIATION AND REDEVELOPMENT DIVISION

Address: P.O. Box 30028

City/State: Lansing, Michigan

Property Tax ID number:

Other: Michigan Department of Natural Resources
(Dequindre Cut recreational park bounded by
Woodbridge Street to the north and Atwater Street to
the south, and DNR Outdoor Adventure Center)

Notified? No Yes Date:

(Attach additional pages as needed)



6. Complete the Table on Page 3 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 3, 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 3, 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.

Concentrations of metals, volatile organic compounds (VOCs), and/or Semi-VOCs (SVOCs) were detected in select soil samples collected from the subject property during due diligence related subsurface investigations. Remedial activities were completed and engineering controls installed to mitigate unacceptable exposure to site occupants. The concentrations of contaminants remaining exceed the Part 201 Drinking Water Protection, Groundwater Surface Water Interface Protection, and Direct Contact Criteria. The horizontal extent of impacted soil has not been defined. Therefore, the potential exists for impacted soils to extend beyond the property boundaries.

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:

- | | 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 type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Is this notice in addition to a notice that was submitted prior to December 21, 2002? (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.

RIVERTOWN PHASE I, LLC, a Michigan limited liability company
BY: DETROIT PRIVATE EQUITY INVESTOR LLC, a Delaware limited liability company, its Managing Member
BY: MBS DETROIT, LLC, a Delaware limited liability company, its Managing Member
BY: MUDCO 3, INC., a Missouri corporation, its Sole Member

Signature  Date 5/2/17
(Owner or person legally authorized to bind the person making this report)

Name (Typed or Printed) Michael C. Duffy

Title (Typed or Printed) Vice President



See Item 6 on Page 3 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.

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	88,000 ug/Kg	TP-36	Soil	~80 ft	South	8,800 ug/Kg	TP-28	Soil
n-Butylbenzene	104-51-8	2,500 ug/Kg	TP-1	Soil	~30 ft	South	2,500 ug/Kg	TP-1	Soil
Naphthalene	91-20-3	8,500 ug/Kg	SB-64	Soil	~30 ft	South	3,300 ug/Kg	SB-9	Soil
n-Propylbenzene	103-65-1	3,800 ug/Kg	SB-9	Soil	~20 ft	South	3,300 ug/Kg	SB-9	Soil
1, 2, 3 Trimethylbenzene	526-73-8	8,700 ug/Kg	TP-1	Soil	~30 ft	South	7,200 ug/Kg	SB-9	Soil
1, 2, 4 Trimethylbenzene	95-63-6	26,000 ug/Kg	TP-1	Soil	~30 ft	South	20,000 ug/Kg	SB-9	Soil
1, 2, 5 Trimethylbenzene	108-67-8	10,000 ug/Kg	TP-1	Soil	~30 ft	South	6,700 ug/Kg	SB-9	Soil
Xylenes	1330-20-7	17,000 ug/Kg	TP-1	Soil	~30 ft	South	8,300 ug/Kg	SB-9	Soil
Fluoranthrene	206-44-0	130,000 ug/Kg	TP-36	Soil	~80 ft	South	9,800 ug/Kg	SB-64	Soil
Benzene	71-43-2	950 ug/Kg	TP-24	Soil	~185 ft	South	140 ug/Kg	TP-28	Soil
Ethylbenzene	100-41-4	4,000 ug/Kg	SB-9	Soil	~20 ft	South	4,000 ug/Kg	SB-9	Soil
Toluene	108-88-3	5,700 ug/Kg	TP-24	Soil	~185 ft	South	5,700 ug/Kg	TP-24	Soil
Benzo(a)pyrene	50-32-8	50,000 ug/Kg	TP-36	Soil	~80 ft	South	3,300 ug/Kg	SB-64	Soil
2-Methylnaphthalene	91-57-6	29,000 ug/Kg	TP-17	Soil	~50 ft	South	12,000 ug/Kg	TP-30	Soil

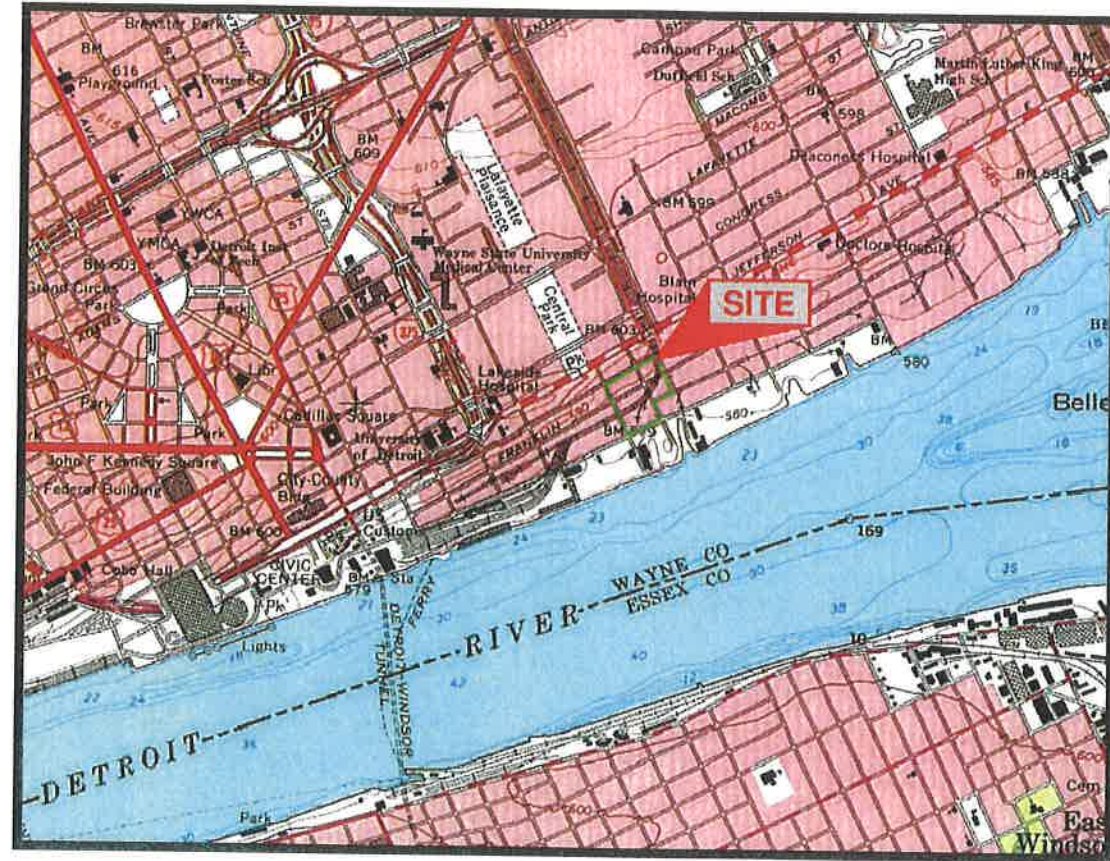


A Hazardous Substance	B CAS Number	C Maximum Concentration	D Sample Location for "C"	E Environmental Medium for "C"	F Distance to Property Boundary	G Direction of Migration	H Boundary Concentration	I Sample Location for "H"	J Environmental Medium for "H"
Dibenzofuran	132-64-9	5,600 ug/Kg	TP-36	Soil	~80 ft	South	2,200 ug/Kg	SB-64	Soil
	86-74-8	11,000 ug/Kg	TP-36, TP-36	Soil	~35 ft	South	1,200 ug/Kg	SB-64	Soil
Benzo(a)anthracene	56-55-3	52,000 ug/Kg	TP-36	Soil	~80 ft	South	36,000 ug/Kg	TP-35	Soil
Benzo(b)fluoranthene	205-99-2	65,000 ug/Kg	TP-36	Soil	~80 ft	South	43,000 ug/Kg	TP-35	Soil
Dibenzo(a,h)anthracene	53-70-3	8,800 ug/Kg	TP-36	Soil	~80 ft	South	2,200 ug/Kg	TP-37	Soil
Fluorene	86-73-7	8,600 ug/Kg	TP-36	Soil	~80 ft	South	7,700 ug/Kg	TP-35	Soil
Indeno(1,2,3-cd)pyrene	193-39-5	33,000 ug/Kg	TP-36	Soil	~80 ft	South	23,000 ug/Kg	TP-35	Soil
Arsenic	7440-38-2	41,000 ug/Kg	TP-33	Soil	~10 ft	South	9,700 ug/Kg	TP-28	Soil
Chromium	7440-47-3	220,000 ug/Kg	TP-24	Soil	~60 ft	South	190,000 ug/Kg	SB-77	Soil
Mercury	7439-97-6	3,300 ug/Kg	TP-21	Soil	~30 ft	South	500 ug/Kg	TP-28	Soil
Selenium	7782-49-2	3,300 ug/Kg	TP-30, TP-33	Soil	~10 ft	South	1,100 ug/Kg	TP-28	Soil
Lead	7439-92-1	4,600,000 ug/Kg	SB-2	Soil	~20 ft	South	510,000 ug/Kg	TP-1	Soil
Manganese	7439-96-5	2,500,000 ug/Kg	TP-27	Soil	~50 ft	South	1,400,000 ug/Kg	TP-28	Soil
Cadmium	7440-43-9	20,000 ug/Kg	TP-24	Soil	~60 ft	South	20,000 ug/Kg	TP-24	Soil
Silver	7440-22-4	1,700 ug/Kg	SB-2	Soil	~20 ft	South	1,700 ug/Kg	SB-2	Soil
Zinc	7440-66-6	3,000,000 ug/Kg	SB-2	Soil	~20 ft	South	3,000,000 ug/Kg	SB-2	Soil
Copper	7440-50-8	8,900,000 ug/Kg	SB-2	Soil	~20 ft	South	8,900,000 ug/Kg	SB-2	Soil

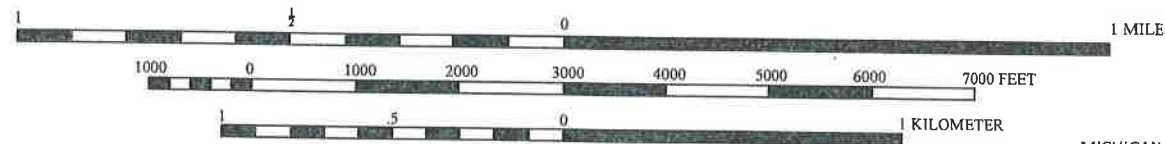
Total Number Samples Collected: >100 Total Number of Samples Exceeding Criteria: 66

A scaled map or drawing showing these locations and the property boundaries must be submitted with this Notice

DETROIT QUADRANGLE
 MICHIGAN - WAYNE COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)



T.2 S. - R.12 E.



CONTOUR INTERVAL 5 FEET
 DATUM IS MEAN SEA LEVEL



IMAGE TAKEN FROM 1991 U.S.G.S. TOPOGRAPHIC MAP

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TOPOGRAPHIC SITE LOCATION MAP

ORLEANS LANDING DEVELOPMENT PROJECT
 DETROIT, MICHIGAN
 PROJECT NUMBER : 7773F2-12-27

DRAWN BY: ARR
 DATE: 12/16/2016

FIGURE 1



DRAWN BY: ARR
 DATE: 12/16/2016
 SCALE: 1" = 80'-31"
 0 40' 80'

FIGURE 3

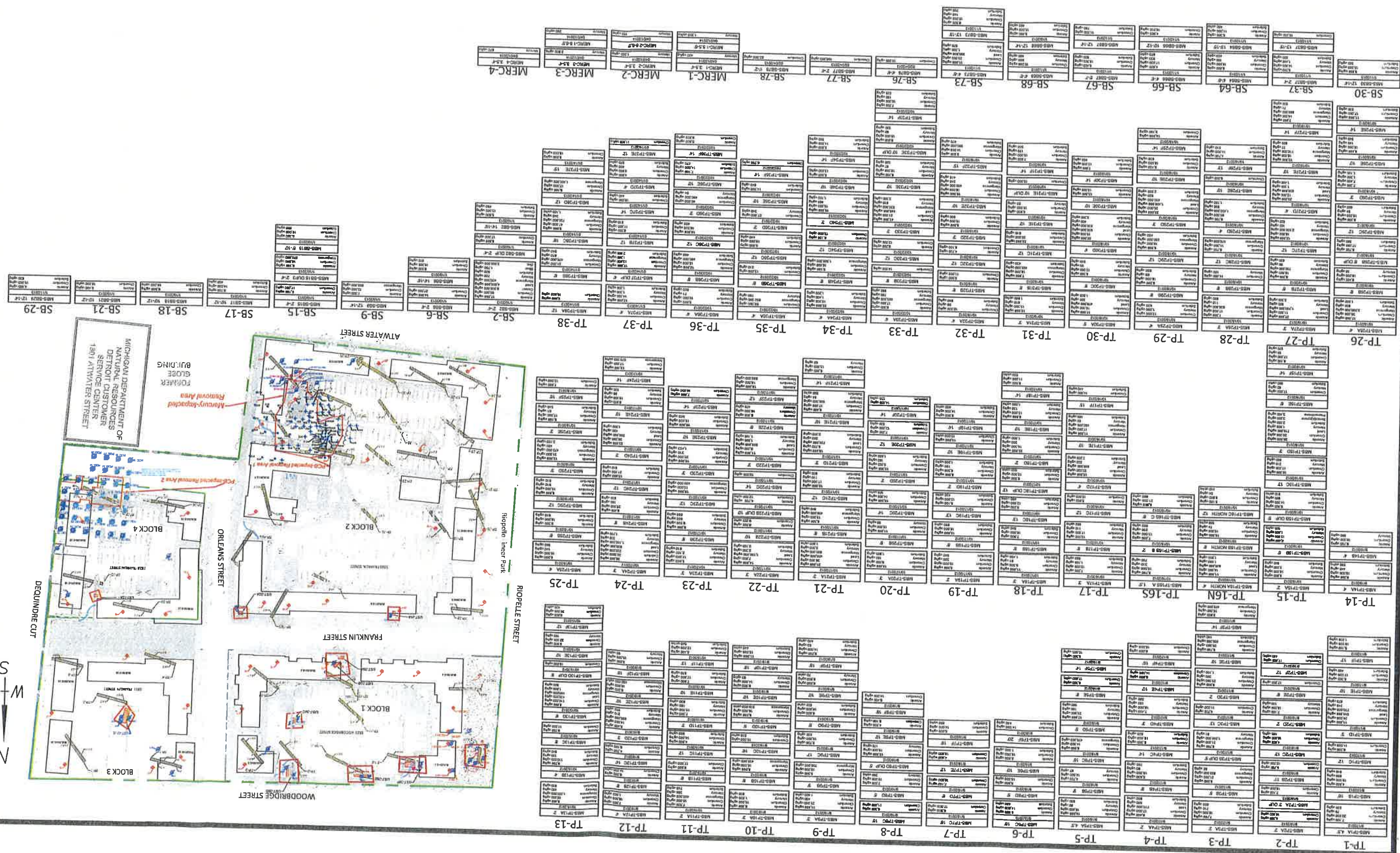
- LEGEND**
- - - PROPERTY LINE
 - - - PARCEL LINE
 - ▭ UST
 - TEST PIT
 - SOIL BORING
 - SOIL GAS
 - TEMPORARY MONITOR WELL

SITE MAP WITH SAMPLE LOCATIONS AND DEVELOPMENT

ORLEANS LANDING DEVELOPMENT PROJECT
 DETROIT, MICHIGAN
 PROJECT NUMBER : 7773F2-12-27

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NOTE: **BOLD** = PARAMETER EXCEEDED MDEQ RESIDENTIAL DIRECT CONTACT CRITERIA
BOLD/UNDERLINE = PARAMETER EXCEEDED MDEQ RESIDENTIAL VOLATILIZATION TO INDOOR AIR INHALATION CRITERIA

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SITE MAP WITH SOIL ANALYTICAL RESULTS
 ABOVE MDEQ RCC - METALS
 (TEST PIT AND SOIL BORING EVALUATION)

ORLEANS LANDING DEVELOPMENT PROJECT
 DETROIT, MICHIGAN
 PROJECT NUMBER : 773FP-12-27

LEGEND
 ——— = PROPERTY LINE
 - - - - - = PARCEL LINE
 [Symbol] = TEST PIT
 [Symbol] = SOIL BORING
 [Symbol] = TEMPORARY MONITOR WELL

DRAWN BY: ARR
 DATE: 12/16/2016
 SCALE: 1" = 80'-11"
 0' 40' 80'

FIGURE 4.0

TP-1	
MBS-TP1A	4.5'
9/17/2012	
n-Butylbenzene	2,500 ug/kg
Naphthalene	3,100 ug/kg
n-Propylbenzene	2,700 ug/kg
1,2,3 Trimethylbenzene	8,700 ug/kg
1,2,4 Trimethylbenzene	26,000 ug/kg
1,3,5 Trimethylbenzene	10,000 ug/kg
Xylenes	17,000 ug/kg

TP-27	
MBS-TP27A	3'
10/19/2012	
Naphthalene	1,400 ug/kg
2-Methylnaphthalene	4,900 ug/kg
Phenanthrene	6,000 ug/kg
1,2,4 Trimethylbenzene	770 ug/kg
Xylenes	2,600 ug/kg

TP-6	
MBS-TP6D	5'
9/18/2012	
Phenanthrene	3,700 ug/kg

MBS-TP27D 4'	
10/19/2012	
Naphthalene	2,800 ug/kg
2-Methylnaphthalene	5,200 ug/kg
Benzene	630 ug/kg
Ethylbenzene	620 ug/kg
1,2,4 Trimethylbenzene	1,200 ug/kg
Xylenes	4,700 ug/kg

TP-10	
MBS-TP10A	3'
9/19/2012	
Benzo(a)pyrene	2,900 ug/kg
Fluorene	6,800 ug/kg
Phenanthrene	6,100 ug/kg

TP-28	
MBS-TP28D	4'
10/18/2012	
Naphthalene	1,500 ug/kg
Benzene	140 ug/kg
1,2,4 Trimethylbenzene	750 ug/kg
Xylenes	2,900 ug/kg

TP-16S	
MBS-TP16S A	1.5'
10/16/2012	
Xylenes	1,100 ug/kg

TP-30	
MBS-TP30A	5'
10/18/2012	
Naphthalene	2,000 ug/kg
2-Methylnaphthalene	12,000 ug/kg
Benzene	410 ug/kg
Ethylbenzene	440 ug/kg
1,2,4 Trimethylbenzene	840 ug/kg
Xylenes	3,600 ug/kg

TP-17	
MBS-TP17D	4'
10/16/2012	
Benzene	600 ug/kg
Ethylbenzene	1,000 ug/kg
1,2,3 Trimethylbenzene	710 ug/kg
1,2,4 Trimethylbenzene	1,300 ug/kg
Xylenes	5,300 ug/kg

MBS-TP30D 4'	
10/18/2012	
Naphthalene	1,300 ug/kg
Benzene	540 ug/kg
Ethylbenzene	650 ug/kg
1,2,4 Trimethylbenzene	860 ug/kg
Xylenes	3,400 ug/kg

TP-19	
MBS-TP19D	2'
10/17/2012	
Xylenes	1,100 ug/kg

TP-34	
MBS-TP34A	4'
10/22/2012	
2-Methylnaphthalene	7,900 ug/kg

TP-20	
MBS-TP20A	3'
10/17/2012	
Naphthalene	860 ug/kg
Benzene	240 ug/kg
Ethylbenzene	430 ug/kg
1,2,4 Trimethylbenzene	630 ug/kg
Xylenes	2,900 ug/kg

TP-35	
MBS-TP35A	4'
10/22/2012	
Naphthalene	1,000 ug/kg

MBS-TP20D 2'	
10/17/2012	
Naphthalene	850 ug/kg
Xylenes	1,800 ug/kg

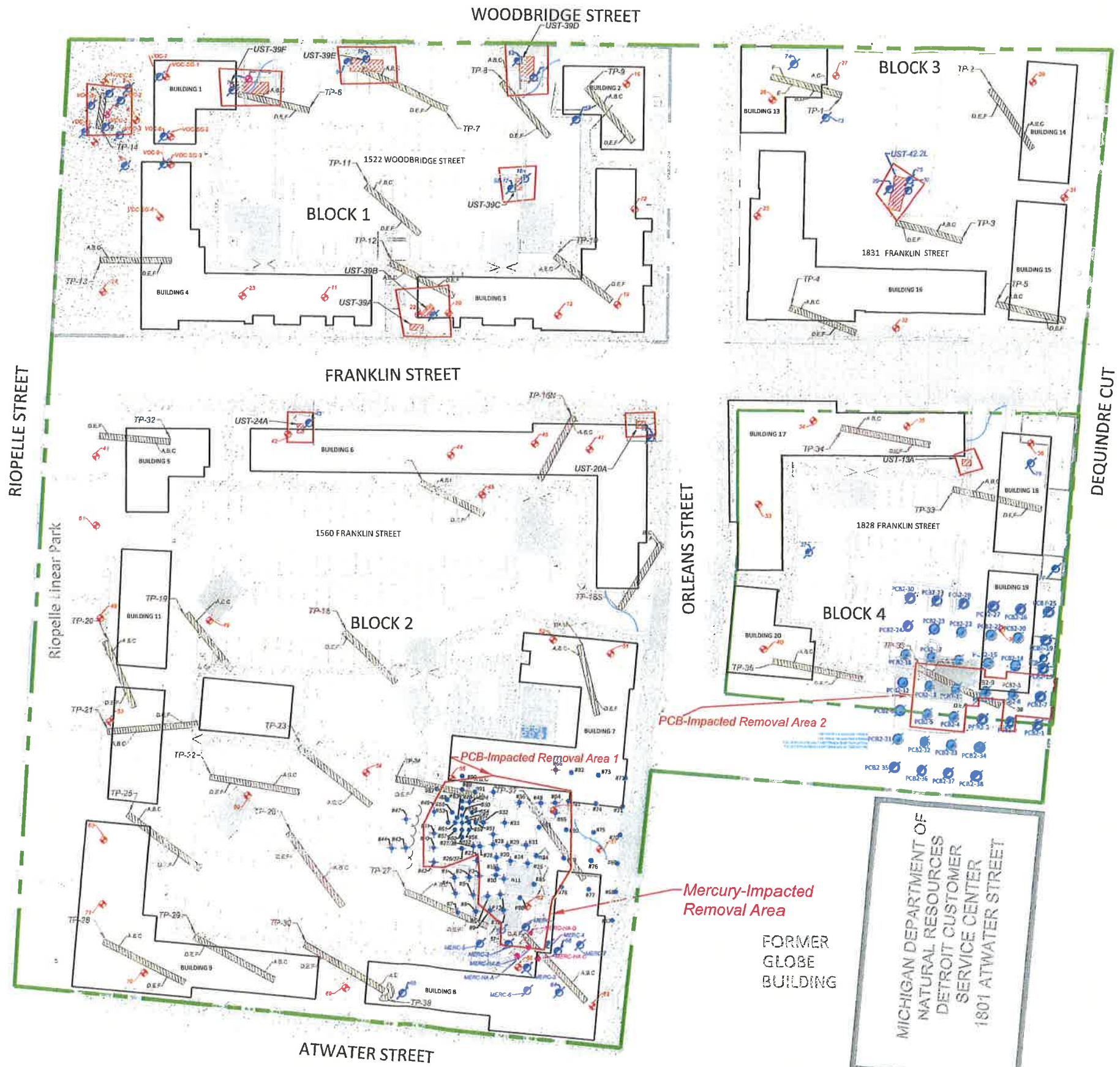
TP-37	
MBS-TP37 DUP	4'
10/22/2012	
Xylenes	870 ug/kg

TP-24	
MBS-TP24A	3'
10/17/2012	
Benzene	150 ug/kg
Xylenes	1,300 ug/kg

SB-9	
MBS-SB9	12'-14'
01/10/2013	
Ethylbenzene	4,000 ug/kg
Naphthalene	3,300 ug/kg
n-Propylbenzene	3,800 ug/kg
1,2,3-Trimethylbenzene	7,200 ug/kg
1,2,4-Trimethylbenzene	20,000 ug/kg
1,2,5-Trimethylbenzene	6,700 ug/kg
Xylenes	8,300 ug/kg

MBS-TP24D 3'	
10/17/2012	
Naphthalene	3,700 ug/kg
Benzene	950 ug/kg
Ethylbenzene	750 ug/kg
Toluene	5,700 ug/kg
1,2,3 Trimethylbenzene	1,000 ug/kg
1,2,4 Trimethylbenzene	1,800 ug/kg
Xylenes	7,500 ug/kg

SB-64	
MBS-SB64	4'-6'
01/11/2013	
Naphthalene	6,500 ug/kg



DRAWN BY: ARR
DATE: 12/16/2016
SCALE: 1" = 80'-3"

LEGEND
 - - - - - = PROPERTY LINE
 - - - - - = PARCEL LINE
 [Symbol] = UST
 [Symbol] = TEST PIT
 [Symbol] = SOIL BORING
 [Symbol] = SOIL GAS
 [Symbol] = TEMPORARY MONITOR WELL

SITE MAP WITH SOIL ANALYTICAL RESULTS
 ABOVE MDEQ RCC - VOCs
 ORLEANS LANDING DEVELOPMENT PROJECT
 DETROIT, MICHIGAN
 PROJECT NUMBER : 7773F2-12-27

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FIGURE 4.1

TP-1	
MBS-TP1A 4.5'	
9/17/2012	
Naphthalene	3,100 ug/kg
Phenanthrene	4,300 ug/kg
MBS-TP1D 3'	
9/17/2012	
Benzo(a)pyrene	3,800 ug/kg
Fluoranthene	7,100 ug/kg
Phenanthrene	3,000 ug/kg

TP-25	
MBS-TP25D 3'	
10/18/2012	
Benzo(a)pyrene	3,700 ug/kg
Phenanthrene	3,400 ug/kg
TP-27	
MBS-TP27A 3'	
10/19/2012	
Naphthalene	1,400 ug/kg
Benzo(a)pyrene	3,900 ug/kg
Fluoranthene	7,100 ug/kg
2-Methylnaphthalene	4,900 ug/kg
Phenanthrene	6,000 ug/kg

TP-35	
MBS-TP35A 4'	
10/22/2012	
Carbazole	8,200 ug/kg
Naphthalene	1,000 ug/kg
Benzo(a)anthracene	36,000 ug/kg
Benzo(a)pyrene	37,000 ug/kg
Benzo(b)fluoranthene	42,000 ug/kg
Fluoranthene	89,000 ug/kg
Fluorene	7,700 ug/kg
Indeno(1,2,3-cd)pyrene	23,000 ug/kg
Phenanthrene	71,000 ug/kg

TP-3	
MBS-TP3D 2'	
9/17/2012	
Benzo(a)pyrene	5,600 ug/kg
Fluoranthene	13,000 ug/kg
Phenanthrene	7,500 ug/kg

MBS-TP27D 4'	
10/19/2012	
Carbazole	2,300 ug/kg
Dibenzofuran	2,300 ug/kg
Naphthalene	2,800 ug/kg
Benzo(a)pyrene	9,300 ug/kg
Fluoranthene	26,000 ug/kg
2-Methylnaphthalene	5,200 ug/kg
Phenanthrene	24,000 ug/kg

MBS-TP35D 3'	
10/22/2012	
Carbazole	11,000 ug/kg
Benzo(a)anthracene	36,000 ug/kg
Benzo(a)pyrene	34,000 ug/kg
Benzo(b)fluoranthene	43,000 ug/kg
Fluoranthene	96,000 ug/kg
Fluorene	7,500 ug/kg
Indeno(1,2,3-cd)pyrene	21,000 ug/kg
Phenanthrene	78,000 ug/kg

TP-15	
MBS-TP15D 3'	
10/16/2012	
Benzo(a)pyrene	3,000 ug/kg
Phenanthrene	3,400 ug/kg

TP-28	
MBS-TP28A 3'	
10/18/2012	
Benzo(a)pyrene	3,200 ug/kg
Fluoranthene	7,200 ug/kg
Phenanthrene	4,500 ug/kg

MBS-TP35E 10'	
10/22/2012	
Benzo(a)pyrene	3,100 ug/kg

TP-16S	
MBS-TP16S A 1.5'	
10/16/2012	
Naphthalene	780 ug/kg
Benzo(a)pyrene	2,500 ug/kg

MBS-TP28D 4'	
10/18/2012	
Naphthalene	1,500 ug/kg
Benzo(a)pyrene	8,800 ug/kg
Fluoranthene	14,000 ug/kg
Phenanthrene	8,800 ug/kg

TP-36	
MBS-TP36A 4'	
10/22/2012	
Phenanthrene	2,300 ug/kg

TP-17	
MBS-TP17D 4'	
10/16/2012	
Dibenzofuran	5,300 ug/kg
Naphthalene	3,600 ug/kg
2-Methylnaphthalene	29,000 ug/kg
Phenanthrene	9,200 ug/kg

TP-29	
MBS-TP29D 3'	
10/18/2012	
Benzo(a)pyrene	3,500 ug/kg
Fluoranthene	6,400 ug/kg
Phenanthrene	4,700 ug/kg

MBS-TP36D 3'	
10/22/2012	
Carbazole	11,000 ug/kg
Dibenzofuran	5,600 ug/kg
Benzo(a)anthracene	52,000 ug/kg
Benzo(a)pyrene	50,000 ug/kg
Benzo(b)fluoranthene	65,000 ug/kg
Dibenzo(a,h)anthracene	8,800 ug/kg
Fluoranthene	130,000 ug/kg
Fluorene	8,600 ug/kg
Indeno(1,2,3-cd)pyrene	33,000 ug/kg
Phenanthrene	98,000 ug/kg

TP-18	
MBS-TP18D 2'	
10/17/2012	
Phenanthrene	2,300 ug/kg

TP-30	
MBS-TP30A 5'	
10/18/2012	
Dibenzofuran	2,600 ug/kg
Naphthalene	2,000 ug/kg
Benzo(a)pyrene	2,100 ug/kg
2-Methylnaphthalene	12,000 ug/kg
Phenanthrene	5,800 ug/kg

TP-37	
MBS-TP37 18'	
10/22/2012	
Phenanthrene	3,000 ug/kg

TP-20	
MBS-TP20A 3'	
10/17/2012	
Naphthalene	880 ug/kg
2-Methylnaphthalene	5,300 ug/kg
Phenanthrene	2,800 ug/kg

MBS-TP30D 4'	
10/18/2012	
Naphthalene	1,300 ug/kg
Phenanthrene	2,200 ug/kg

SB-30	
MBS-SB30 12'-14'	
1/11/2013	
Benzo(a)pyrene	2,300 ug/kg
Fluoranthene	5,700 ug/kg
Phenanthrene	5,000 ug/kg

MBS-TP20D 2'	
10/17/2012	
Naphthalene	850 ug/kg
2-Methylnaphthalene	4,800 ug/kg
Phenanthrene	2,600 ug/kg

TP-31	
MBS-TP31A 3'	
10/19/2012	
Phenanthrene	2,600 ug/kg

SB-37	
MBS-SB37 2'-4'	
1/11/2013	
Carbazole	1,300 ug/kg
Benzo(a)pyrene	12,000 ug/kg
Dibenzo(a,h)anthracene	2,200 ug/kg
Fluoranthene	28,000 ug/kg
Phenanthrene	22,000 ug/kg

TP-21	
MBS-TP21D 3'	
10/17/2012	
Phenanthrene	2,200 ug/kg

TP-33	
MBS-TP33D 3'	
10/22/2012	
Benzo(a)pyrene	4,600 ug/kg
Fluoranthene	11,000 ug/kg
Phenanthrene	9,000 ug/kg

SB-64	
MBS-SB64 4'-6'	
1/11/2013	
Carbazole	1,200 ug/kg
Dibenzofuran	2,200 ug/kg
Naphthalene	6,500 ug/kg
Benzo(a)pyrene	3,300 ug/kg
Fluoranthene	9,800 ug/kg
Phenanthrene	13,000 ug/kg

TP-23	
MBS-TP23D 3'	
10/17/2012	
Benzo(a)pyrene	4,000 ug/kg
Fluoranthene	8,200 ug/kg
Phenanthrene	5,600 ug/kg

TP-34	
MBS-TP34A 4'	
10/22/2012	
Phenanthrene	3,800 ug/kg

TP-24	
MBS-TP24A 3'	
10/17/2012	
Benzo(a)pyrene	2,200 ug/kg
Phenanthrene	5,300 ug/kg

MBS-TP24D 3'	
10/17/2012	
Carbazole	1,300 ug/kg
Dibenzofuran	2,100 ug/kg
Naphthalene	3,700 ug/kg
Benzo(a)pyrene	5,400 ug/kg
Fluoranthene	12,000 ug/kg
2-Methylnaphthalene	7,100 ug/kg
Phenanthrene	10,000 ug/kg



DRAWN BY: ARR
 DATE: 12/16/2016
 SCALE: 1" = 80'-0"
 0 40' 80'
 FIGURE 4.2

LEGEND
 - - - PROPERTY LINE
 - - - PARCEL LINE
 - - - UST
 [Symbol] TEST PIT
 [Symbol] SOIL BORING
 [Symbol] SOIL GAS
 [Symbol] TEMPORARY MONITOR WELL

SITE MAP WITH SOIL ANALYTICAL RESULTS ABOVE MDEQ RCC - SVOCs
 ORLEANS LANDING DEVELOPMENT PROJECT
 DETROIT, MICHIGAN
 PROJECT NUMBER : 7773F2-12-27

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METALS

SB-3W

MBS-SB3W	10'-15'
01/10/2013	
Manganese	540 ug/kg
Selenium	39 ug/kg

SB-8W

MBS-SB8W	7'-12'
01/10/2013	
Manganese	370 ug/kg

SB-22W

MBS-SB22W	3'-8'
01/10/2013	
Lead	9.7 ug/kg

SVOCs

SB-22W

MBS-SB22W	3'-8'
01/10/2013	
Naphthalene	1,400 ug/kg
2-Methylnaphthalene	1,400 ug/kg

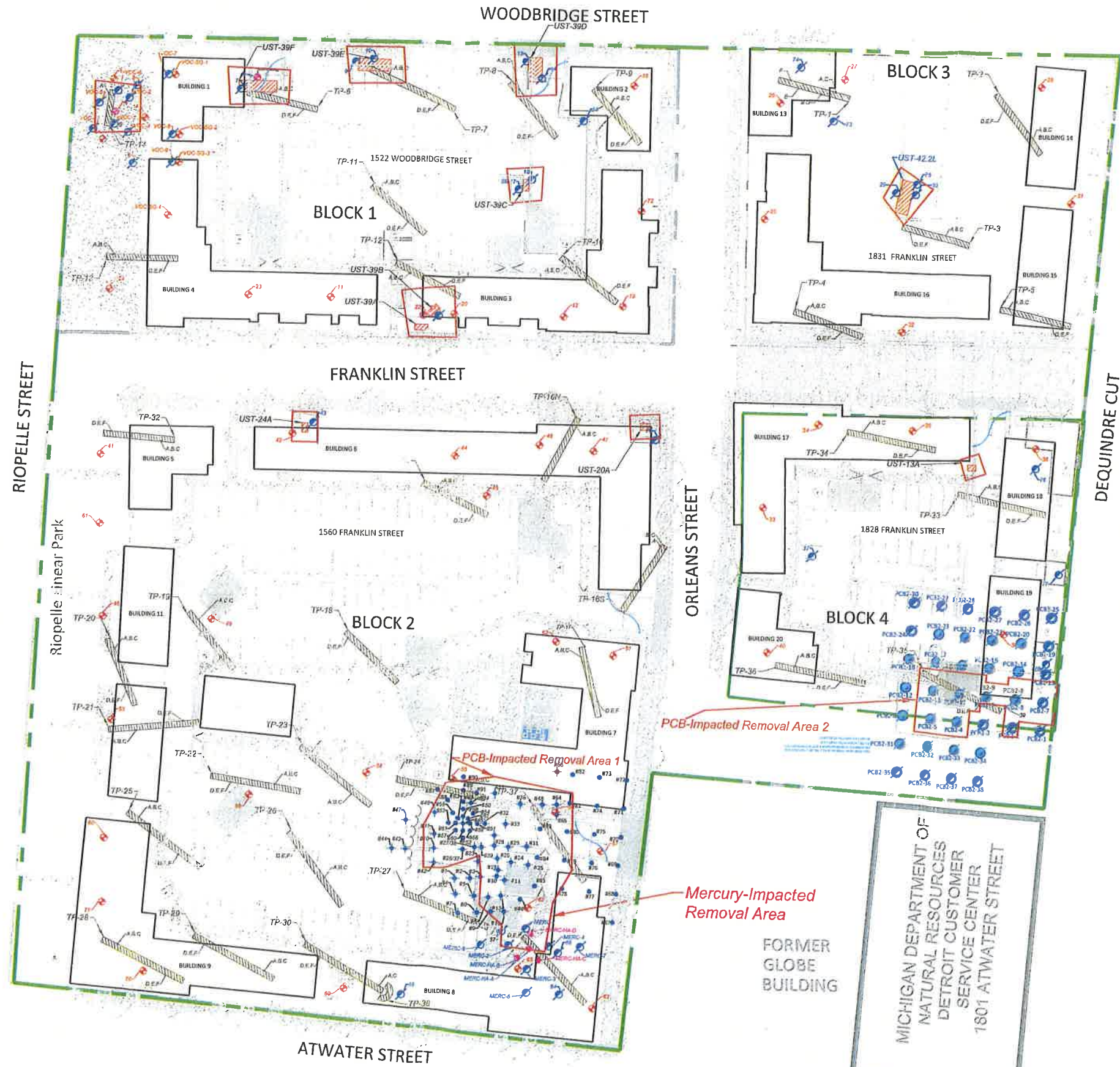
VOCs

SB-3W

MBS-SB3W	10'-15'
01/10/2013	
Tetrachloroethylene	8.0 ug/kg

SB-22W

MBS-SB22W	3'-8'
01/10/2013	
n-Butylbenzene	1,100 ug/kg
sec-Butylbenzene	920 ug/kg
Ethylbenzene	1,400 ug/kg
Isopropylbenzene	1,200 ug/kg
2-Methylnaphthalene	1,400 ug/kg
Naphthalene	1,400 ug/kg
n-Propylbenzene	1,800 ug/kg
1,2,3-Trimethylbenzene	7,000 ug/kg
1,2,4-Trimethylbenzene	15,000 ug/kg
1,3,5-Trimethylbenzene	3,500 ug/kg
Xylenes	6,400 ug/kg



DRAWN BY: ARR
DATE: 12/16/2016
SCALE: 1" = 80'-0"
FIGURE 4.3

- LEGEND
- PROPERTY LINE
 - - - PARCEL LINE
 - UST
 - TEST PIT
 - SOIL BORING
 - SOIL GAS
 - TEMPORARY MONITOR WELL

SITE MAP WITH GROUNDWATER ANALYTICAL RESULTS ABOVE MDEQ RCC

ORLEANS LANDING DEVELOPMENT PROJECT
DETROIT, MICHIGAN
PROJECT NUMBER : 7773F2-12-27

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 DATE: 05/31/2016



FIGURE 2

SITE MAP WITH REDEVELOPMENT PROJECT

ORLEANS LANDING DEVELOPMENT PROJECT
 DETROIT, MICHIGAN
 PROJECT NUMBER : 7773F-10-20

LEGEND
 - - - - - = PROPERTY LINE
 BUILDING DESIGNATION "BUILDING 1"
 BY HAMILTON ANDERSON

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FORMER
 GLOBE
 BUILDING