



1430 Broadway
10th Floor
New York, NY 10018

212.221.7822 PHONE
212.221.7840 FAX

www.TRCSolutions.com

October 17, 2017

Mr. David Newell
Consultant Manager
New York State Department of Transportation
1220 Washington Avenue
Albany, NY 12232

Attention: Ms. Gretchen Fitzgerald

**Re: PIN 8807.31.101
Harrison Sub-Residency Petroleum Spill Area (Spill #94-07349)
5th Quarter Monitoring Report
West Harrison, New York**

Dear Ms. Fitzgerald:

TRC Engineers, Inc. (TRC) has prepared the following letter report to present the findings of the groundwater monitoring conducted at the Harrison Sub-Residency Petroleum Spill Area (hereafter referred to as the "Site"). The Harrison Sub-Residency is located at the intersection of New York Route 120 and King Street. The Site is a historic seasonal highway support and salt storage facility which is currently occupied by the Town of Harrison. The New York State Department of Transportation (NYSDOT) document titled "Operation and Maintenance Plan for the Harrison Sub-residency Landfill and Petroleum Spill Area" (hereafter referred to as the "O&M Plan") and dated February 2010 outlines the fifth quarter monitoring program established by the New York State Department of Environmental Conservation (NYSDEC) relating to Spill #94-07349 at the Site. The spill was closed by NYSDEC on October 10, 2002 following the discontinuation of operations of an on-site air sparge/soil vapor extraction system. Only two (2) monitoring wells installed in response to the spill, MW-11 and PC-1, have not been decommissioned by NYSDOT. TRC performed the Site groundwater monitoring of these two wells for the NYSDOT in accordance with TRC's May 2017 approved scope of service.

Groundwater Sampling Activities

On July 10, 2017, TRC mobilized to the Site and conducted reconnaissance of the groundwater monitoring wells. On July 11 and 12, 2017, TRC sampled groundwater to monitor the migration and natural attenuation of the previously documented contaminant plume associated with the historic spill. Figure 1 provides a Site location map and Figure 2 provides a site map of the previously documented spill area. No signs of well damage or tampering were noted during a visual inspection of the wells prior to commencing sampling. Depth to groundwater and total

depth measurements of the monitoring wells were measured with a water level sensing device relative to the top of the inner well casing. No non-aqueous phase liquid was visually observed in the two wells during sampling or detected in the wells with an oil-water interface probe. Additionally, an organic vapor headspace reading was measured at each monitoring well using a photoionization detector (PID). There were no headspace PID detections above background levels at either of the two monitoring wells.

Groundwater in each well was purged utilizing a peristaltic pump and dedicated new tubing and containerized for off-site disposal. During purging, field readings for pH, conductivity, temperature, dissolved oxygen, and turbidity were monitored using a flow-through cell and multi parameter meter and documented. The groundwater sampling logs completed by TRC are provided in Appendix A.

Groundwater samples were immediately collected from each well following stabilization of groundwater conditions from the well purging. Groundwater samples, including one blind duplicate and one equipment blank, were analyzed for the five volatile organic compounds (VOCs) benzene, toluene, ethylbenzene, xylenes (collectively referred to as BTEX), and methyl tert-butyl ether (MTBE) and specified natural attenuation parameters including dissolved iron, dissolved manganese, nitrate, sulfate, total sulfide, total alkalinity, and bicarbonate alkalinity. The groundwater samples for dissolved iron and dissolved manganese were field filtered with dedicated disposable filters prior to preservation.

Groundwater samples were containerized in laboratory supplied jars, labeled, and placed in a chilled cooler for shipment to Hampton-Clarke/Veritech, Inc, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory. Trip blank samples provided by the laboratory with the sample containers also accompanied each sample shipment to the laboratory and were analyzed for Target Compound List VOCs.

Investigation-derived wastes consisting of decontamination water and well purge water were drummed and staged on the Site, pending receipt of the groundwater sample test data and acceptance of the waste profile by the selected wastewater treatment facility Veolia Environment Services (Schenectady, New York). The drummed water was transported off-Site by MC Environmental Services of Queensbury, New York on August 21, 2017 for treatment at the Veolia facility. The investigation-derived waste transport and disposal documentation is provided in Appendix B.

Groundwater Sample Results

Results of the groundwater sample analyses were compared to the NYSDEC Class GA Groundwater Standards or Guidance Values (NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1, June 1998) and are summarized in Table 1. A copy of the laboratory sample data report is provided in Appendix C. Appendix C includes laboratory



analytical data from the Harrison Sub-Residency landfill site as both sites were sampled concurrently. A separate letter report is provided for the landfill site monitoring.

Well MW-11 is located downgradient of the spill area and within the previously reported leading edge of the previously identified plume while well PC-1 is located down/sidegradient of the plume. There were no VOCs detected above the laboratory reporting limit. Dissolved iron was detected in both monitoring wells above the corresponding Class GA groundwater standard while dissolved manganese was detected above the corresponding Class GA groundwater standard at PC-1. The table below provides a summary of the exceedances.

**Detected Groundwater Concentrations
 Greater than Class GA Groundwater Standards**

Analyte	NYSDEC Class GA Groundwater Standards (µg/L)	Monitoring Well Identification		
		PC-1 (µg/L)	PC-FD-201707 ¹ (µg/L)	MW-11 (µg/L)
Iron	300/500 ²	1,400	1,400	370
Manganese	300/500 ²	1,500	1,500	680

Notes:

¹ – FD-01-201707 is a blind duplicate of PC-1-201707

² – Standard of 300 ug/L applies to each substance and 500 ug/L applies to the sum of these substances
 µg/L – micrograms per liter

Sulfate is the only natural attenuation parameter analyzed with a Class GA Standard (250,000 µg/L). Sulfate was detected in each of the wells below the Class GA Standard. Bicarbonate alkalinity and total alkalinity concentrations ranged from 280 µg/L at MW-11 to 400 µg/L in the blind duplicate sample collected at PC-1. Nitrate was not detected above the laboratory reporting limit in either of the samples collected.

Quality Assurance/Quality Control Sample Results

A duplicate sample (i.e., PC-FD-201707) was collected from groundwater monitoring well PC-1 for quality assurance/quality control (QA/QC) purposes and submitted to the laboratory as a blind duplicate sample (i.e., well number not identified) for the same analyses. The relative percent difference (RPD) between the duplicate sample results is calculated using the following formula:

$$\% RPD = \frac{X_1 - X_2}{(X_1 + X_2)/2} * 100\%$$

where, X₁ is the original value (PC-1), and
 X₂ is the duplicate value (PC-FD-201707)

Alkalinity and sulfate were the only analytes with concentrations detected which differed between the two samples. The RPD for alkalinity and sulfate were 3% and 9%, respectively. The United



States Department of Environmental Protection suggests that a RPD of 20% as the standard upper limit in field duplicate comparisons.

There were no VOCs detected in the two trip blank samples.

Discussion of Groundwater Sample Results

TRC updated the database of historical groundwater quality data and concentration trend graphs previously prepared by HDR/EPM to support an evaluation of trends in groundwater quality data at the Site over time. The database and corresponding trend graphs are provided in Appendix D of this letter report.

BTEX compounds were not detected above the laboratory reporting limits in the groundwater samples from wells MW-11 or PC-1 during the July 2017 sampling event. Whereas, in the last monitoring event in April 2016, BTEX compounds were detected at a total concentration of 105.82 µg/L at MW-11 and were not detected above the laboratory reporting limits at PC-1. When comparing the down/sidegradient well (PC-1) and downgradient well (MW-11) natural attenuation parameter data, the alkalinity, dissolved iron and dissolved manganese concentrations are generally elevated which is evidence that natural biodegradation continues to occur in the plume. Based on the recent variability of BTEX groundwater concentrations, the current scope of groundwater monitoring at the Harrison Sub-Residency Petroleum Spill Area should continue on a fifth-quarterly basis unless otherwise directed by NYSDEC.

Please contact me at (212) 221-7822 ext. 105 or kmyers@trcsolutions.com with any questions or comments.

Sincerely,

TRC Engineers, Inc.



Kirsten Myers, P.E.
Project Manager

cc: J. Peronto, TRC



Attachments:

Figures

Figure 1 – Site Location Map

Figure 2 – Monitoring Well Location Plan

Table

Table 1 – Groundwater Analytical Data Summary

Appendices

Appendix A – Groundwater Sampling Logs

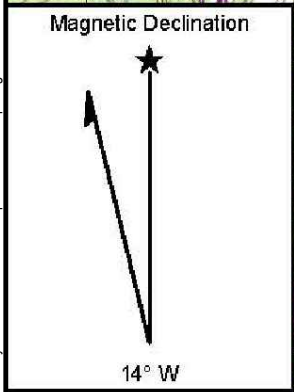
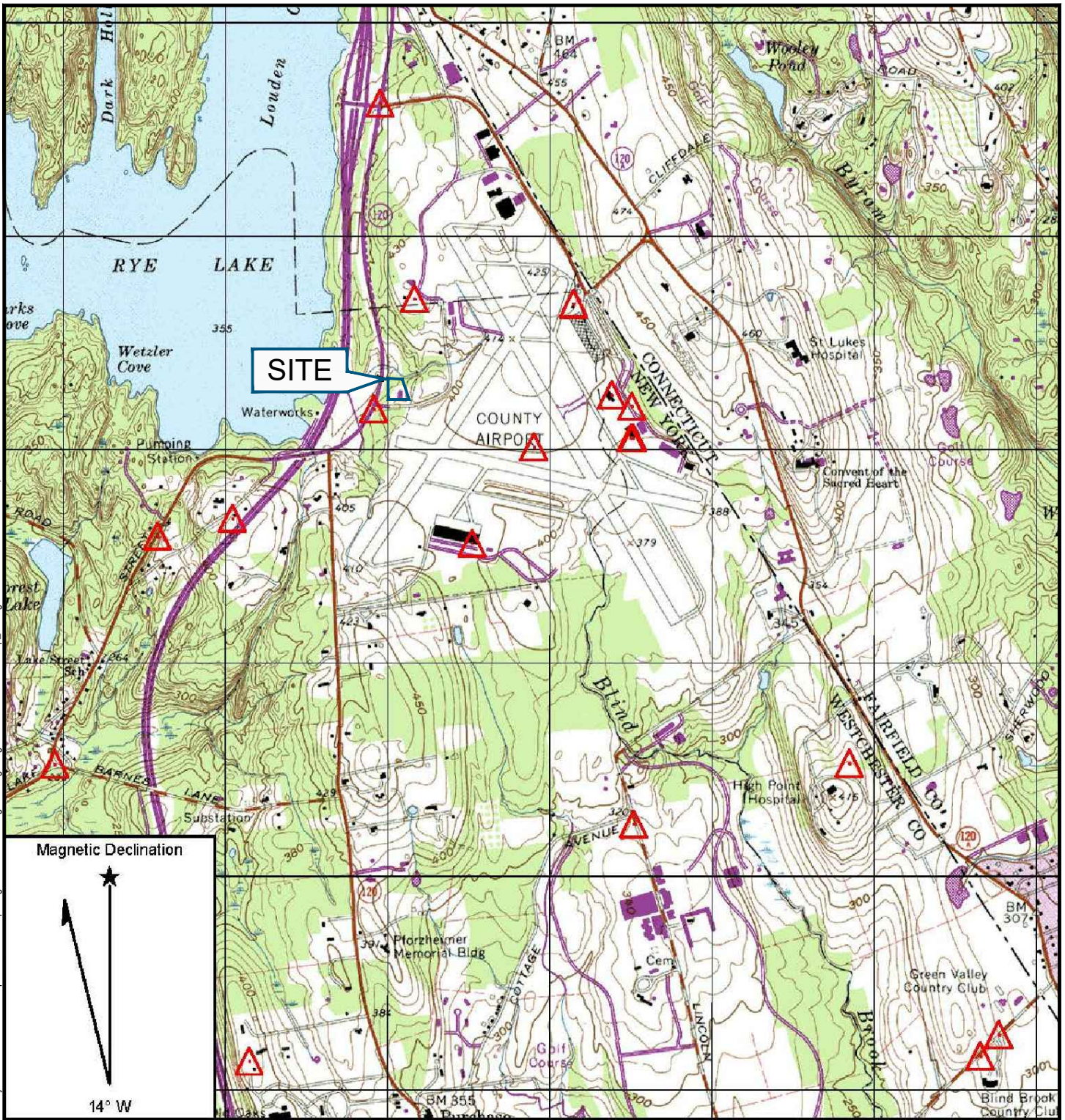
Appendix B – Investigation-Derived Waste Disposal Documentation

Appendix C – Laboratory Analytical Data Report

Appendix D – Groundwater Historical Data and Trend Graphs

FIGURES

8.5x11P --- ATTACHED XREFS: --- ATTACHED IMAGES: Harrison Landfill Figures, Page 1: --- PLOT DATE: October 10, 2017 --- 5:53PM --- LAYOUT: 8.5x11P
 DRAWING NAME: I:\Projects\NYSDOT - D03137\Assignments #2 - 3 - Bryant Pond + Harrison\Reports\Harrison Spill\Figures\TRC Working Drawings\Figure 1 - Site Location Map_r1.dwg



73° 44' 00.00" W 073° 43' 00.00" W 073° 42' 00.00" W 073° 41' 00.00" W
 Map source: USGS 7.5 min. Quadrangle Series, Glenville, NY
 Date: 1/23/2008
 Location: 041° 04' 00.92" N 073° 42' 27.38" W NAD 27
 Copyright (C) 1997, Maptech, Inc.



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 New York, NY 10018
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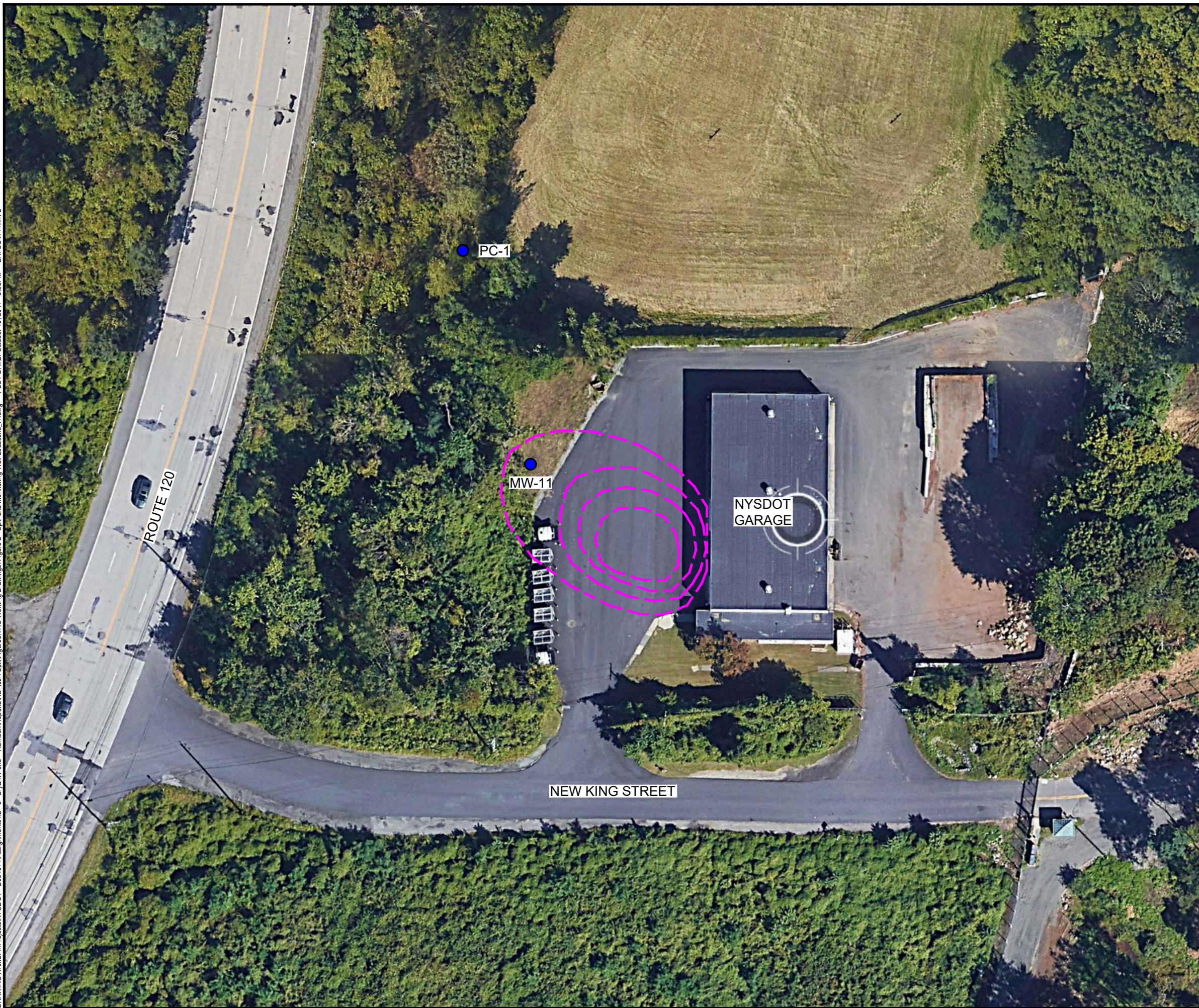
PROJECT: **NEW YORK STATE DEPARTMENT OF TRANSPORTATION**
PIN 8807.31.101 - HARRISON SPILL SITE (SPILL #94-07349)
HARRISON SUB-RESIDENCY
WEST HARRISON, NEW YORK

TITLE: **SITE LOCATION MAP**

DRAWN BY:	H. DELGADO
CHECKED BY:	A. CHALMERS
APPROVED BY:	K. MYERS
DATE:	OCTOBER 2017
PROJ. NO.:	280089.0001.0000
FILE:	Figure 1 - Site Location Map_r1.dwg

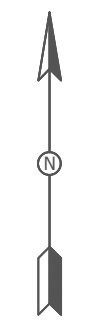
FIGURE 1

11X17 - ATTACHED REFS: --- ATTACHED IMAGES: Harrison Spill Site GEPRO-160FT; DRAWING NAME: I:\Projects\NYS DOT - D0337\Assignments #2 +3 - Bryant Pond + Harrison\Reports\Harrison Spill\Figures\TRC Working Drawings\Figure 2 - Spill Site Monitoring Well Locations_r1.dwg --- PLOT DATE: October 10, 2017 - 5:55PM --- LAYOUT: 11X17L

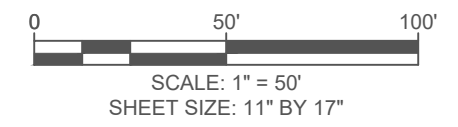



LEGEND (SYMBOLS NOT TO SCALE):

- GP-XX OR MW-XX GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION NUMBER
- (pink dashed line) — APPROXIMATE PLUME LOCATION



- SOURCES:**
- AERIAL IMAGE FROM GOOGLE EARTH PRO, DATED APRIL 16, 2016.
 - APPROXIMATE PLUME LOCATION FROM HDR ENGINEERING, INC.



PROJECT: NEW YORK STATE DEPARTMENT OF TRANSPORTATION PIN 8807.31.101 - HARRISON SPILL SITE (SPILL #94-07349) HARRISON SUB-RESIDENCY WEST HARRISON, NEW YORK	
TITLE: MONITORING WELL LOCATION MAP	
DRAWN BY: H. DELGADO	PROJ NO.: 280089.0000.0000
CHECKED BY: A. CHALMERS	FIGURE 2
APPROVED BY: K. MYERS	
DATE: OCTOBER 2017	
	
FILE NO.:	Figure 2 - Spill Site Monitoring Well Locations_r1.dwg

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10th Floor
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Phone: 212.221.7822

TABLE

TABLE 1
 NYSDOT - Harrison Sub-Residency Petroleum Spill Area
 Groundwater Analytical Data Summary
 July 2017

	CLIENT ID: LAB ID: COLLECTION DATE:	PC-1-201707 AC98940-001/2 7/12/17	PC-FD-2017074 AC98940-003/4 7/12/17	MW-11-201707 AC98905-017/18 7/11/17	TRIP BLANKS ⁵ VARIOUS 7/11/2017 - 7/12/17				
Analyte	NYSDEC Class GA Standards ¹	Result	RL	Result	RL	Result	RL	Result	RL
Volatile Organic Compounds (µg/L)									
Benzene	1	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Ethylbenzene	5	ND	1	ND	1	ND	1	ND	1
m&p-Xylenes	5 ²	ND	1	ND	1	ND	1	ND	1
Methyl-t-butyl ether	10	ND	0.5	ND	0.5	ND	0.5	ND	0.5
o-Xylene	5 ²	ND	1	ND	1	ND	1	ND	1
Toluene	5	ND	1	ND	1	ND	1	ND	1
Xylenes (Total)	5 ²	ND	1	ND	1	ND	1	ND	1
Total BTEX	NS	ND	1	ND	1	ND	1	ND	1
Metals (µg/L)									
Iron	300/500 ³	1,400	300	1,400	300	370	300		
Manganese	300/500 ³	1,500	40	1,500	40	680	40		
Natural Attenuation Parameters (µg/L)									
Alkalinity (Total)	NS	390	10	400	10	280	10		
Alkalinity (Bicarbonate)	NS	390	10	400	10	280	10		
Alkalinity (Carbonate)	NS	ND	10	ND	10	ND	10		
Nitrate	NS	ND	1,000	ND	1,000	ND	1,000		
Sulfate	250,000	120,000	20,000	110,000	20,000	8,500	20,000		

Notes:

- (1) - NYSDEC Class GA Standards are from Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, revised April 2000.
 - (2) - There is no GA value for total xylenes. The standards for o-xylene, m-xylene, and p-xylene is 5 µg/L
 - (3) Standard of 300 ug/L applies to each substance and 500 ug/L applies to the sum of these substances
 - (4) FD-01-201707 is blind duplicate of PC-1-201707
 - (5) Trip Blanks and dates collected: TB-01-201707 (7/11/17) and TB-02-201707 (7/12/17)
- NS - No Standard
 ND - Analyte not detected at the listed reporting limit
 RL - Reporting Limit
 µg/L - micrograms per liter
 Shaded and bolded values exceed regulatory criteria
 Alkalinity values are reported in milligrams of CaCO3 per liter (mg CaCO3/L)



APPENDIX A
GROUNDWATER SAMPLING LOGS



Groundwater Sampling Data Record Form

TRC Personnel: MS/ JMR

Well Identification: MW-11-201707

WELL INTEGRITY	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective Casing Stick-up _____ ft.
(from Ground)

WELL DIAMETER	<input checked="" type="checkbox"/>	2 inch
	<input type="checkbox"/>	4 inch
	<input type="checkbox"/>	6 inch

WELL MATERIAL	
<input checked="" type="checkbox"/>	PVC
<input type="checkbox"/>	SS

Well Depth (ft.):	18.21	<input checked="" type="checkbox"/> top of riser	<input type="checkbox"/> historical measured:
Depth to Water (ft.):	10.11	<input type="checkbox"/> top of casing	<input checked="" type="checkbox"/> notch
Depth of pump intake (ft.):	16		<input type="checkbox"/> north side
Height of water column (ft.):	8.1		<input type="checkbox"/> high pt
Volume of Water in Well (gal):	1.32		<input type="checkbox"/> pen mark
Total Gallons Purged:	1.39		<input type="checkbox"/> .16 gal/ft (2 in.)
[Vol. = r ² h(0.163)]			<input type="checkbox"/> .65 gal/ft (4 in.)
			<input type="checkbox"/> 1.5 gal/ft (6 in.)
			<input type="checkbox"/> gal/ft (___ in.)
			Depth to NAPL (ft.):
			Thickness of NAPL (ft.):

PID SCREENING (ppmV)	
Background	0
Well Mouth	0 (if required)

FIELD WATER QUALITY MEASUREMENTS

Time	13:40	13:45	13:50	13:55	14:00	14:05	14:10	14:15
Temp. (C.) - (±10%)	18.82	16.66	16.52	16.28	15.97	15.88	15.81	15.85
pH (Std.Units) - (± 0.1)	6	6.16	6.01	6	6.01	6.02	6.03	6.04
ORP (millivolts) - (± 10)	194	135	115	101	98	93	87	84
Conduct.(mS/cm) - (±3%)	0.803	0.758	0.766	0.722	0.771	0.770	0.771	0.772
Turb. (NTU) - (± 10%)	14.7	1.1	9.3	9.5	8.8	9.5	10.4	11
DO (mg/L) - (± 10%)	1.13	0	0	0	0.00	0	0	0
Depth to water (ft)	11.56	11.76	11.83	11.90	12.15	12.31	12.41	12.42
Flow (ml/min)	150	150	150	150	150	150	150	150
Salinity								
Comments								

Time	13:40	13:45	13:50	13:55	14:00	14:05	14:10	14:15
Temp. (C.) - (±10%)								
pH (Std.Units) - (± 0.1)								
ORP (millivolts) - (± 10)								
Conduct.(mS/cm) - (±3%)								
Turb. (NTU) - (± 10%)								
DO (mg/L) - (± 10%)								
Depth to water (ft)								
Flow (ml/min)								
Salinity								
Comments								

Pump Type	Purge	Sample	Description of Sampling Equipment
Peristaltic Pump	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bladder Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bailer:	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameters	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
	N	HCl	40ml x 3	14:20	MW-11-201707
	N	None	1L x 2	14:20	MW-11-201707
	N	None	5 ml Poly	14:20	MW-11-201707
	Y	HNO3	1L Poly	14:20	MW-11-201707
	N	Zn Acetate	5 mL Poly	14:20	MW-11-201707
	Y	NaOH	200 ml	14:20	MW-11-201707

Remarks:



Project: Harrison Landfill **Project No.:** 280088 **Date/Time:** 7/12/2017 **Sheet** of 1 OF 1

TRC Personnel: MS/ JMR

Groundwater Sampling Data Record Form

Well Identification: PC-1-201707

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Protective Casing Stick-up _____ ft.
(from Ground)

WELL DIAMETER

<input checked="" type="checkbox"/>	2 inch
<input type="checkbox"/>	4 inch
<input type="checkbox"/>	6 inch

Well Depth (ft.):	17.81	Reference Point: <input checked="" type="checkbox"/> top of riser <input type="checkbox"/> top of casing	historical measured:
Depth to Water (ft.):	6.46		<input checked="" type="checkbox"/> north side <input type="checkbox"/> high pt <input type="checkbox"/> pen mark
Depth of pump intake (ft.):	16		

PID SCREENING (ppmV)

Background	0
Well Mouth	0 (if required)

WELL MATERIAL

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PVC	SS	

Height of water column (ft.):	11.35	<input type="checkbox"/> .16 gal/ft (2 in.) <input type="checkbox"/> .65 gal/ft (4 in.) <input type="checkbox"/> 1.5 gal/ft (6 in.) <input type="checkbox"/> gal/ft (in.)
Volume of Water in Well (gal):	1.85	Depth to NAPL (ft.):
Total Gallons Purged:	1.32	Thickness of NAPL (ft.):
[Vol. = r ² h(0.163)]		

FIELD WATER QUALITY MEASUREMENTS

Time	10:05	10:10	10:15	10:20	10:25			
Temp. (C.) - (±10%)	18.19	18.63	18.77	18.70	18.66			
pH (Std.Units) - (± 0.1)	6.72	6.72	6.74	6.75	6.76			
ORP (millivolts) - (± 10)	-62	-67	-72	-77	-78			
Conduct.(mS/cm) - (±3%)	1.520	1.530	1.510	1.500	1.500			
Turb. (NTU) - (± 10%)	9.5	8.7	8.6	8.7	8.4			
DO (mg/L) - (± 10%)	0.00	0	0	0	0.00			
Depth to water (ft)	7.35	7.15	7.15	7.10	7.10			
Flow (ml/min)	250	150	150	150	150			
Salinity								
Comments								

Time								
Temp. (C.) - (±10%)								
pH (Std.Units) - (± 0.1)								
ORP (millivolts) - (± 10)								
Conduct.(mS/cm) - (±3%)								
Turb. (NTU) - (± 10%)								
DO (mg/L) - (± 10%)								
Depth to water (ft)								
Flow (ml/min)								
Salinity								
Comments								

Pump Type	Purge	Sample	Description of Sampling Equipment
Peristaltic Pump	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bladder Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bailer:	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameters	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
	N	HCl	40ml x 3	10:30	PC-1-201707
	N	None	1L x 2	10:30	PC-1-201707
	N	None	5 ml Poly	10:30	PC-1-201707
	Y	HNO3	1L Poly	10:30	PC-1-201707
	Y	NaOH	200 ml	10:30	PC-1-201707

Remarks:

APPENDIX B
WASTE DISPOSAL DOCUMENTATION

QVEDIA

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
n/a

2. Page 1 of 1

3. Emergency Response Phone
800-451-8984

4. Waste Tracking Number
082117 - D2

Received Region 8 CONSTRUCTION UNIT

5. Generator's Name and Mailing Address
NYS DOT Region 8
Attn: Gretchen Fitzgerald 4 Burnett Blvd.
Poughkeepsie, NY 12603

Generator's Site Address (if different than mailing address)
NY 120 & New King Street
West Harrison, NY 10604

SEP - 6 2017

Generator's Phone: 845-431-5825

6. Transporter 1 Company Name
MC Environmental Services, Inc.

U.S. EPA ID Number
NYR000021071

7. Transporter 2 Company Name
Veolia ES Technical Solutions

U.S. EPA ID Number
NJ0080631369

8. Designated Facility Name and Site Address
Veolia ES Technical Solutions, LLC
4301 Inlinary Road
West Carrollton, OH 45449 USA

U.S. EPA ID Number
OHD093945293

Facility's Phone: 937-859-2207-169

9. Waste Shipping Name and Description
1. Non RCRA, Non DOT-Regulated
None None

10. Containers	11. Total Quantity	12. Unit Wt./Vol.
1	55	DM

13. Special Handling Instructions and Additional Information
Petroleum-impacted water
WIP # 153050
Approval # SRRLFLIQUID-NH

Emergency Contact: M. Craft - 800-451-8984

Received Region 8 CONSTRUCTION UNIT
AUG 17 2017
Fed-X

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Gretchen Fitzgerald
Signature: [Signature]
Month Day Year: 8 18 17

15. International Shipments
 Import to U.S. Export from U.S.
Port of entry/exit: _____
Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John Remble
Signature: [Signature]
Month Day Year: 8 28 17
Transporter 2 Printed/Typed Name: John Kurdziolek
Signature: [Signature]
Month Day Year: 8 21 17


17. Discrepancy
17a. Discrepancy Indication Space
 Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator)
Facility's Name: _____
Facility's Phone: _____
U.S. EPA ID Number: _____

17c. Signature of Alternate Facility (or Generator)
Signature: _____
Month Day Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Anthony Blankenship
Signature: [Signature]
Month Day Year: 8 29 17

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

SHIPPING DOCUMENT (Continuation Sheet)		21. Generator ID Number NIA	22. Page 2	23. Shipping Document Tracking Number 052117-102		
24. Generator's Name NYS DOT Region 8.						
25. Transporter 3 Company Name Freehold Cartage Inc		U.S. EPA ID Number MSD057126064		U.S. EPA ID Number		
26. Transporter _____ Company Name						
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Codes
		No.	Type			
<div style="position: absolute; left: -100px; top: 50%; transform: translateY(-50%); font-weight: bold;">GENERATOR</div> <div style="position: absolute; left: -100px; bottom: 50%; transform: translateY(50%); font-weight: bold;">TRANSPORTER</div> <div style="position: absolute; left: -100px; bottom: 50%; transform: translateY(50%); font-weight: bold;">DESIGNATED FACILITY</div>						
32. Special Handling Instructions and Additional Information						
33. Transporter 3 Acknowledgment of Receipt of Shipment Printed/Typed Name Henry Patterson		Signature 		Month 8	Day 25	Year 17
34. Transporter _____ Acknowledgment of Receipt of Shipment Printed/Typed Name		Signature		Month	Day	Year
35. Discrepancy						
36. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)						

APPENDIX C
ANALYTICAL LABORATORY REPORTS

Hampton-Clarke Report Of Analysis

Client: TRC Engineering

HC Project #: 7071123

Project: Harrison Sub Residency

Sample ID: LMW-2-201707 U

Collection Date: 7/10/2017

Lab#: AC98905-001

Receipt Date: 7/11/2017

Matrix: Aqueous

Chloride (Water) 300.0

Analyte	DF	Units	RL	Result
Chloride	1	mg/l	2.0	15

Semivolatiles Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.2	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.2	ND
2,4,5-Trichlorophenol	1	ug/l	2.2	ND
2,4,6-Trichlorophenol	1	ug/l	2.2	ND
2,4-Dichlorophenol	1	ug/l	0.87	ND
2,4-Dimethylphenol	1	ug/l	0.54	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.2	ND
2,6-Dinitrotoluene	1	ug/l	2.2	ND
2-Chloronaphthalene	1	ug/l	2.2	ND
2-Chlorophenol	1	ug/l	2.2	ND
2-Methylnaphthalene	1	ug/l	2.2	ND
2-Methylphenol	1	ug/l	0.54	ND
2-Nitroaniline	1	ug/l	2.2	ND
2-Nitrophenol	1	ug/l	2.2	ND
3&4-Methylphenol	1	ug/l	0.54	ND
3,3'-Dichlorobenzidine	1	ug/l	2.2	ND
3-Nitroaniline	1	ug/l	2.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.2	ND
4-Chloro-3-methylphenol	1	ug/l	2.2	ND
4-Chloroaniline	1	ug/l	0.54	ND
4-Chlorophenyl-phenylether	1	ug/l	2.2	ND
4-Nitroaniline	1	ug/l	2.2	ND
4-Nitrophenol	1	ug/l	2.2	ND
Acenaphthene	1	ug/l	2.2	ND
Acenaphthylene	1	ug/l	2.2	ND
Acetophenone	1	ug/l	2.2	ND
Anthracene	1	ug/l	2.2	ND
Atrazine	1	ug/l	2.2	ND
Benzaldehyde	1	ug/l	2.2	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	2.2	ND
Benzo[k]fluoranthene	1	ug/l	2.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.54	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.2	ND
Butylbenzylphthalate	1	ug/l	2.2	ND
Caprolactam	1	ug/l	2.2	ND
Carbazole	1	ug/l	2.2	ND
Chrysene	1	ug/l	2.2	ND
Dibenzo[a,h]anthracene	1	ug/l	2.2	ND
Dibenzofuran	1	ug/l	0.54	ND
Diethylphthalate	1	ug/l	2.2	ND
Dimethylphthalate	1	ug/l	2.2	ND
Di-n-butylphthalate	1	ug/l	0.54	ND
Di-n-octylphthalate	1	ug/l	2.2	ND
Fluoranthene	1	ug/l	2.2	ND
Fluorene	1	ug/l	2.2	ND

Sample ID: LMW-2-201707 U

Collection Date: 7/10/2017

Lab#: AC98905-001

Receipt Date: 7/11/2017

Matrix: Aqueous

Hexachlorobenzene	1	ug/l	2.2	ND
Hexachlorobutadiene	1	ug/l	2.2	ND
Hexachlorocyclopentadiene	1	ug/l	2.2	ND
Hexachloroethane	1	ug/l	2.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.2	ND
Isophorone	1	ug/l	2.2	ND
Naphthalene	1	ug/l	0.54	ND
Nitrobenzene	1	ug/l	2.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.54	ND
N-Nitrosodiphenylamine	1	ug/l	2.2	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.2	ND
Phenol	1	ug/l	2.2	ND
Pyrene	1	ug/l	2.2	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14	49.83	50	55	146	100	
Phenol-d5	37.73	100	27	115	38	
Nitrobenzene-d5	46.07	50	51	139	92	
2-Fluorophenol	53.11	100	29	113	53	
2-Fluorobiphenyl	45.02	50	53	129	90	
2,4,6-Tribromophenol	88.33	100	54	149	88	

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND

Sample ID: LMW-2-201707 U

Lab#: AC98905-001

Matrix: Aqueous

Collection Date: 7/10/2017

Receipt Date: 7/11/2017

Tetrachloroethene	1	ug/l	1.0		ND		
Toluene	1	ug/l	1.0		ND		
trans-1,2-Dichloroethene	1	ug/l	1.0		ND		
trans-1,3-Dichloropropene	1	ug/l	1.0		ND		
Trichloroethene	1	ug/l	1.0		ND		
Trichlorofluoromethane	1	ug/l	1.0		ND		
Vinyl chloride	1	ug/l	1.0		ND		
Xylenes (Total)	1	ug/l	1.0		ND		
Surrogate		Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8		29.15	30	79	111	97	
Dibromofluoromethane		35.88	30	73	131	120	
Bromofluorobenzene		28.81	30	82	112	96	
1,2-Dichloroethane-d4		34.04	30	78	128	113	

Sample ID: LMW-2-201707 F
Lab#: AC98905-002
Matrix: Aqueous

Collection Date: 7/10/2017
Receipt Date: 7/11/2017

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	1	ug/l	50	85
Calcium	1	ug/l	5000	60000
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	ND
Magnesium	1	ug/l	5000	22000
Manganese	1	ug/l	40	ND
Nickel	1	ug/l	50	ND
Potassium	1	ug/l	5000	ND
Silver	1	ug/l	20	ND
Sodium	1	ug/l	5000	22000
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID: LMW-4-201707 U

Lab#: AC98905-003

Matrix: Aqueous

Collection Date: 7/10/2017

Receipt Date: 7/11/2017

Chloride (Water) 300.0

Analyte	DF	Units	RL	Result
Chloride	1	mg/l	2.0	16

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.2	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.2	ND
2,4,5-Trichlorophenol	1	ug/l	2.2	ND
2,4,6-Trichlorophenol	1	ug/l	2.2	ND
2,4-Dichlorophenol	1	ug/l	0.89	ND
2,4-Dimethylphenol	1	ug/l	0.56	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.2	ND
2,6-Dinitrotoluene	1	ug/l	2.2	ND
2-Chloronaphthalene	1	ug/l	2.2	ND
2-Chlorophenol	1	ug/l	2.2	ND
2-Methylnaphthalene	1	ug/l	2.2	ND
2-Methylphenol	1	ug/l	0.56	ND
2-Nitroaniline	1	ug/l	2.2	ND
2-Nitrophenol	1	ug/l	2.2	ND
3&4-Methylphenol	1	ug/l	0.56	ND
3,3'-Dichlorobenzidine	1	ug/l	2.2	ND
3-Nitroaniline	1	ug/l	2.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.2	ND
4-Chloro-3-methylphenol	1	ug/l	2.2	ND
4-Chloroaniline	1	ug/l	0.56	ND
4-Chlorophenyl-phenylether	1	ug/l	2.2	ND
4-Nitroaniline	1	ug/l	2.2	ND
4-Nitrophenol	1	ug/l	2.2	ND
Acenaphthene	1	ug/l	2.2	ND
Acenaphthylene	1	ug/l	2.2	ND
Acetophenone	1	ug/l	2.2	ND
Anthracene	1	ug/l	2.2	ND
Atrazine	1	ug/l	2.2	ND
Benzaldehyde	1	ug/l	2.2	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	2.2	ND
Benzo[k]fluoranthene	1	ug/l	2.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.56	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.2	ND
Butylbenzylphthalate	1	ug/l	2.2	ND
Caprolactam	1	ug/l	2.2	ND
Carbazole	1	ug/l	2.2	ND
Chrysene	1	ug/l	2.2	ND
Dibenzo[a,h]anthracene	1	ug/l	2.2	ND
Dibenzofuran	1	ug/l	0.56	ND
Diethylphthalate	1	ug/l	2.2	ND
Dimethylphthalate	1	ug/l	2.2	ND
Di-n-butylphthalate	1	ug/l	0.56	ND
Di-n-octylphthalate	1	ug/l	2.2	ND
Fluoranthene	1	ug/l	2.2	ND
Fluorene	1	ug/l	2.2	ND
Hexachlorobenzene	1	ug/l	2.2	ND
Hexachlorobutadiene	1	ug/l	2.2	ND
Hexachlorocyclopentadiene	1	ug/l	2.2	ND
Hexachloroethane	1	ug/l	2.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.2	ND
Isophorone	1	ug/l	2.2	ND
Naphthalene	1	ug/l	0.56	ND
Nitrobenzene	1	ug/l	2.2	ND

Sample ID: LMW-4-201707 U

Collection Date: 7/10/2017

Lab#: AC98905-003

Receipt Date: 7/11/2017

Matrix: Aqueous

N-Nitroso-di-n-propylamine	1	ug/l	0.56		ND
N-Nitrosodiphenylamine	1	ug/l	2.2		ND
Pentachlorophenol	1	ug/l	11		ND
Phenanthrene	1	ug/l	2.2		ND
Phenol	1	ug/l	2.2		ND
Pyrene	1	ug/l	2.2		ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14	50.75	50	55	146	102	
Phenol-d5	36.40	100	27	115	36	
Nitrobenzene-d5	43.68	50	51	139	87	
2-Fluorophenol	50.70	100	29	113	51	
2-Fluorobiphenyl	43.47	50	53	129	87	
2,4,6-Tribromophenol	92.46	100	54	149	92	

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: LMW-4-201707 U

Lab#: AC98905-003

Matrix: Aqueous

Collection Date: 7/10/2017

Receipt Date: 7/11/2017

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	28.86	30	79	111	96	
Dibromofluoromethane	36.24	30	73	131	121	
Bromofluorobenzene	29.69	30	82	112	99	
1,2-Dichloroethane-d4	34.80	30	78	128	116	

Sample ID: LMW-4-201707 F

Lab#: AC98905-004

Matrix: Aqueous

Collection Date: 7/10/2017

Receipt Date: 7/11/2017

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	1200
Barium	1	ug/l	50	180
Calcium	1	ug/l	5000	43000
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	110000
Magnesium	1	ug/l	5000	17000
Manganese	1	ug/l	40	12000
Nickel	1	ug/l	50	ND
Potassium	1	ug/l	5000	ND
Silver	1	ug/l	20	ND
Sodium	1	ug/l	5000	28000
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	4.2
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	7.0
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID: PC-2-201707 U
 Lab#: AC98905-005
 Matrix: Aqueous

Collection Date: 7/10/2017
 Receipt Date: 7/11/2017

Chloride (Water) 300.0

Analyte	DF	Units	RL	Result
Chloride	1	mg/l	2.0	18

Semivolatle Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.1	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.1	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.1	ND
2,4,5-Trichlorophenol	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	0.85	ND
2,4-Dimethylphenol	1	ug/l	0.53	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Methylnaphthalene	1	ug/l	2.1	ND
2-Methylphenol	1	ug/l	0.53	ND
2-Nitroaniline	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3&4-Methylphenol	1	ug/l	0.53	ND
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND
3-Nitroaniline	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chloroaniline	1	ug/l	0.53	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitroaniline	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Acetophenone	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Atrazine	1	ug/l	2.1	ND
Benzaldehyde	1	ug/l	2.1	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	2.1	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.53	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Caprolactam	1	ug/l	2.1	ND
Carbazole	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND
Dibenzofuran	1	ug/l	0.53	ND
Diethylphthalate	1	ug/l	2.1	ND
Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	0.53	ND
Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND
Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	2.1	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	1	ug/l	0.53	ND
Nitrobenzene	1	ug/l	2.1	ND

Sample ID: PC-2-201707 U

Lab#: AC98905-005

Matrix: Aqueous

Collection Date: 7/10/2017

Receipt Date: 7/11/2017

N-Nitroso-di-n-propylamine	1	ug/l	0.53	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	1	ug/l	2.1	ND
Pyrene	1	ug/l	2.1	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14	49.97	50	55	146	100	
Phenol-d5	34.30	100	27	115	34	
Nitrobenzene-d5	43.35	50	51	139	87	
2-Fluorophenol	48.94	100	29	113	49	
2-Fluorobiphenyl	43.67	50	53	129	87	
2,4,6-Tribromophenol	88.53	100	54	149	89	

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: PC-2-201707 U
Lab#: AC98905-005
Matrix: Aqueous

Collection Date: 7/10/2017
Receipt Date: 7/11/2017

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	28.76	30	79	111	96	
Dibromofluoromethane	36.23	30	73	131	121	
Bromofluorobenzene	29.23	30	82	112	97	
1,2-Dichloroethane-d4	35.00	30	78	128	117	

Sample ID: PC-2-201707 F
Lab#: AC98905-006
Matrix: Aqueous

Collection Date: 7/10/2017
Receipt Date: 7/11/2017

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	1	ug/l	50	140
Calcium	1	ug/l	5000	84000
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	62000
Magnesium	1	ug/l	5000	20000
Manganese	1	ug/l	40	10000
Nickel	1	ug/l	50	ND
Potassium	1	ug/l	5000	ND
Silver	1	ug/l	20	ND
Sodium	1	ug/l	5000	36000
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID: SW-4-201707 U

Lab#: AC98905-007

Matrix: Aqueous

Collection Date: 7/11/2017

Receipt Date: 7/11/2017

Chloride (Water) 300.0

Analyte	DF	Units	RL	Result
Chloride	1	mg/l	2.0	10

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	110

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

Semivolatiles Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.2	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.2	ND
2,4,5-Trichlorophenol	1	ug/l	2.2	ND
2,4,6-Trichlorophenol	1	ug/l	2.2	ND
2,4-Dichlorophenol	1	ug/l	0.89	ND
2,4-Dimethylphenol	1	ug/l	0.56	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.2	ND
2,6-Dinitrotoluene	1	ug/l	2.2	ND
2-Chloronaphthalene	1	ug/l	2.2	ND
2-Chlorophenol	1	ug/l	2.2	ND
2-Methylnaphthalene	1	ug/l	2.2	ND
2-Methylphenol	1	ug/l	0.56	ND
2-Nitroaniline	1	ug/l	2.2	ND
2-Nitrophenol	1	ug/l	2.2	ND
3&4-Methylphenol	1	ug/l	0.56	ND
3,3'-Dichlorobenzidine	1	ug/l	2.2	ND
3-Nitroaniline	1	ug/l	2.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.2	ND
4-Chloro-3-methylphenol	1	ug/l	2.2	ND
4-Chloroaniline	1	ug/l	0.56	ND
4-Chlorophenyl-phenylether	1	ug/l	2.2	ND
4-Nitroaniline	1	ug/l	2.2	ND
4-Nitrophenol	1	ug/l	2.2	ND
Acenaphthene	1	ug/l	2.2	ND
Acenaphthylene	1	ug/l	2.2	ND
Acetophenone	1	ug/l	2.2	ND
Anthracene	1	ug/l	2.2	ND
Atrazine	1	ug/l	2.2	ND
Benzaldehyde	1	ug/l	2.2	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	2.2	ND
Benzo[k]fluoranthene	1	ug/l	2.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.56	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.2	ND
Butylbenzylphthalate	1	ug/l	2.2	ND
Caprolactam	1	ug/l	2.2	ND
Carbazole	1	ug/l	2.2	ND
Chrysene	1	ug/l	2.2	ND
Dibenzo[a,h]anthracene	1	ug/l	2.2	ND
Dibenzofuran	1	ug/l	0.56	ND
Diethylphthalate	1	ug/l	2.2	ND

Sample ID: SW-4-201707 U

Lab#: AC98905-007

Matrix: Aqueous

Collection Date: 7/11/2017

Receipt Date: 7/11/2017

Dimethylphthalate	1	ug/l	2.2	ND			
Di-n-butylphthalate	1	ug/l	0.56	ND			
Di-n-octylphthalate	1	ug/l	2.2	ND			
Fluoranthene	1	ug/l	2.2	ND			
Fluorene	1	ug/l	2.2	ND			
Hexachlorobenzene	1	ug/l	2.2	ND			
Hexachlorobutadiene	1	ug/l	2.2	ND			
Hexachlorocyclopentadiene	1	ug/l	2.2	ND			
Hexachloroethane	1	ug/l	2.2	ND			
Indeno[1,2,3-cd]pyrene	1	ug/l	2.2	ND			
Isophorone	1	ug/l	2.2	ND			
Naphthalene	1	ug/l	0.56	ND			
Nitrobenzene	1	ug/l	2.2	ND			
N-Nitroso-di-n-propylamine	1	ug/l	0.56	ND			
N-Nitrosodiphenylamine	1	ug/l	2.2	ND			
Pentachlorophenol	1	ug/l	11	ND			
Phenanthrene	1	ug/l	2.2	ND			
Phenol	1	ug/l	2.2	ND			
Pyrene	1	ug/l	2.2	ND			
Surrogate		Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14		49.23	50	55	146	98	
Phenol-d5		36.47	100	27	115	36	
Nitrobenzene-d5		44.19	50	51	139	88	
2-Fluorophenol		51.37	100	29	113	51	
2-Fluorobiphenyl		43.31	50	53	129	87	
2,4,6-Tribromophenol		86.90	100	54	149	87	

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	260
Barium	1	ug/l	50	ND
Calcium	1	ug/l	5000	34000
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	980
Magnesium	1	ug/l	5000	9500
Manganese	1	ug/l	40	700
Nickel	1	ug/l	50	ND
Potassium	1	ug/l	5000	ND
Silver	1	ug/l	20	ND
Sodium	1	ug/l	5000	13000
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND

Sample ID: SW-4-201707 U

Collection Date: 7/11/2017

Lab#: AC98905-007

Receipt Date: 7/11/2017

Matrix: Aqueous

1,2-Dichloroethane	1	ug/l	0.50	ND		
1,2-Dichloropropane	1	ug/l	1.0	ND		
1,3-Dichlorobenzene	1	ug/l	1.0	ND		
1,4-Dichlorobenzene	1	ug/l	1.0	ND		
1,4-Dioxane	1	ug/l	50	ND		
2-Butanone	1	ug/l	1.0	ND		
2-Hexanone	1	ug/l	1.0	ND		
4-Methyl-2-pentanone	1	ug/l	1.0	ND		
Acetone	1	ug/l	5.0	ND		
Benzene	1	ug/l	0.50	ND		
Bromochloromethane	1	ug/l	1.0	ND		
Bromodichloromethane	1	ug/l	1.0	ND		
Bromoform	1	ug/l	1.0	ND		
Bromomethane	1	ug/l	1.0	ND		
Carbon disulfide	1	ug/l	1.0	ND		
Carbon tetrachloride	1	ug/l	1.0	ND		
Chlorobenzene	1	ug/l	1.0	ND		
Chloroethane	1	ug/l	1.0	ND		
Chloroform	1	ug/l	1.0	ND		
Chloromethane	1	ug/l	1.0	ND		
cis-1,2-Dichloroethene	1	ug/l	1.0	ND		
cis-1,3-Dichloropropene	1	ug/l	1.0	ND		
Cyclohexane	1	ug/l	1.0	ND		
Dibromochloromethane	1	ug/l	1.0	ND		
Dichlorodifluoromethane	1	ug/l	1.0	ND		
Ethylbenzene	1	ug/l	1.0	ND		
Isopropylbenzene	1	ug/l	1.0	ND		
m&p-Xylenes	1	ug/l	1.0	ND		
Methyl Acetate	1	ug/l	1.0	ND		
Methylcyclohexane	1	ug/l	1.0	ND		
Methylene chloride	1	ug/l	1.0	ND		
Methyl-t-butyl ether	1	ug/l	0.50	ND		
o-Xylene	1	ug/l	1.0	ND		
Styrene	1	ug/l	1.0	ND		
Tetrachloroethene	1	ug/l	1.0	ND		
Toluene	1	ug/l	1.0	ND		
trans-1,2-Dichloroethene	1	ug/l	1.0	ND		
trans-1,3-Dichloropropene	1	ug/l	1.0	ND		
Trichloroethene	1	ug/l	1.0	ND		
Trichlorofluoromethane	1	ug/l	1.0	ND		
Vinyl chloride	1	ug/l	1.0	ND		
Xylenes (Total)	1	ug/l	1.0	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	28.55	30	79	111	95	
Dibromofluoromethane	36.95	30	73	131	123	
Bromofluorobenzene	29.82	30	82	112	99	
1,2-Dichloroethane-d4	34.58	30	78	128	115	

Sample ID: SD-4-201707
 Lab#: AC98905-009
 Matrix: Sediment/Encore

Collection Date: 7/11/2017
 Receipt Date: 7/11/2017

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		68

Chloride (Soil) 9056A

Analyte	DF	Units	RL	Result
Chloride	1	mg/kg	29	ND

Cyanide (Soil/Waste) 9012B

Analyte	DF	Units	RL	Result
Cyanide	1	mg/kg	0.35	ND

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.12	ND

Semivolatle Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.049	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.049	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.049	ND
2,4,5-Trichlorophenol	1	mg/kg	0.049	ND
2,4,6-Trichlorophenol	1	mg/kg	0.049	ND
2,4-Dichlorophenol	1	mg/kg	0.012	ND
2,4-Dimethylphenol	1	mg/kg	0.012	ND
2,4-Dinitrophenol	1	mg/kg	0.25	ND
2,4-Dinitrotoluene	1	mg/kg	0.049	ND
2,6-Dinitrotoluene	1	mg/kg	0.049	ND
2-Chloronaphthalene	1	mg/kg	0.049	ND
2-Chlorophenol	1	mg/kg	0.049	ND
2-Methylnaphthalene	1	mg/kg	0.049	ND
2-Methylphenol	1	mg/kg	0.012	ND
2-Nitroaniline	1	mg/kg	0.049	ND
2-Nitrophenol	1	mg/kg	0.049	ND
3&4-Methylphenol	1	mg/kg	0.012	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.049	ND
3-Nitroaniline	1	mg/kg	0.049	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.25	ND
4-Bromophenyl-phenylether	1	mg/kg	0.049	ND
4-Chloro-3-methylphenol	1	mg/kg	0.049	ND
4-Chloroaniline	1	mg/kg	0.012	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.049	ND
4-Nitroaniline	1	mg/kg	0.049	ND
4-Nitrophenol	1	mg/kg	0.049	ND
Acenaphthene	1	mg/kg	0.049	ND
Acenaphthylene	1	mg/kg	0.049	ND
Acetophenone	1	mg/kg	0.049	ND
Anthracene	1	mg/kg	0.049	ND
Atrazine	1	mg/kg	0.049	ND
Benzaldehyde	1	mg/kg	0.049	ND
Benzo[a]anthracene	1	mg/kg	0.049	ND
Benzo[a]pyrene	1	mg/kg	0.049	ND
Benzo[b]fluoranthene	1	mg/kg	0.049	ND
Benzo[g,h,i]perylene	1	mg/kg	0.049	ND
Benzo[k]fluoranthene	1	mg/kg	0.049	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.049	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.012	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.049	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.049	ND
Butylbenzylphthalate	1	mg/kg	0.049	ND
Caprolactam	1	mg/kg	0.049	ND
Carbazole	1	mg/kg	0.049	ND
Chrysene	1	mg/kg	0.049	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.049	ND
Dibenzofuran	1	mg/kg	0.012	ND
Diethylphthalate	1	mg/kg	0.049	ND

Sample ID: SD-4-201707
 Lab#: AC98905-009
 Matrix: Sediment/Encore

Collection Date: 7/11/2017
 Receipt Date: 7/11/2017

Dimethylphthalate	1	mg/kg	0.049	ND
Di-n-butylphthalate	1	mg/kg	0.012	ND
Di-n-octylphthalate	1	mg/kg	0.049	ND
Fluoranthene	1	mg/kg	0.049	ND
Fluorene	1	mg/kg	0.049	ND
Hexachlorobenzene	1	mg/kg	0.049	ND
Hexachlorobutadiene	1	mg/kg	0.049	ND
Hexachlorocyclopentadiene	1	mg/kg	0.12	ND
Hexachloroethane	1	mg/kg	0.049	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.049	ND
Isophorone	1	mg/kg	0.049	ND
Naphthalene	1	mg/kg	0.012	ND
Nitrobenzene	1	mg/kg	0.049	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.012	ND
N-Nitrosodiphenylamine	1	mg/kg	0.049	ND
Pentachlorophenol	1	mg/kg	0.25	ND
Phenanthrene	1	mg/kg	0.049	ND
Phenol	1	mg/kg	0.049	ND
Pyrene	1	mg/kg	0.049	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14	54.04	50	58	148	108	
Phenol-d5	87.10	100	49	129	87	
Nitrobenzene-d5	42.62	50	52	129	85	
2-Fluorophenol	84.55	100	43	128	85	
2-Fluorobiphenyl	46.87	50	58	125	94	
2,4,6-Tribromophenol	107.04	100	54	145	107	

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	mg/kg	290	11000
Barium	1	mg/kg	15	130
Calcium	1	mg/kg	1500	15000
Chromium	1	mg/kg	7.4	29
Cobalt	1	mg/kg	3.7	7.6
Copper	1	mg/kg	7.4	11
Iron	1	mg/kg	290	27000
Lead	1	mg/kg	7.4	13
Magnesium	1	mg/kg	740	12000
Manganese	1	mg/kg	15	1900
Nickel	1	mg/kg	7.4	22
Potassium	1	mg/kg	740	2000
Sodium	1	mg/kg	370	ND
Vanadium	1	mg/kg	15	39
Zinc	1	mg/kg	15	81

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	1.2	ND
Arsenic	1	mg/kg	0.29	2.0
Beryllium	1	mg/kg	0.29	ND
Cadmium	1	mg/kg	0.59	ND
Selenium	1	mg/kg	2.9	ND
Silver	1	mg/kg	0.29	ND
Thallium	1	mg/kg	0.59	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1.07	mg/kg	0.0031	ND
1,1,2,2-Tetrachloroethane	1.07	mg/kg	0.0031	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1.07	mg/kg	0.0031	ND
1,1,2-Trichloroethane	1.07	mg/kg	0.0031	ND
1,1-Dichloroethane	1.07	mg/kg	0.0031	ND
1,1-Dichloroethene	1.07	mg/kg	0.0031	ND
1,2,3-Trichlorobenzene	1.07	mg/kg	0.0031	ND
1,2,4-Trichlorobenzene	1.07	mg/kg	0.0031	ND
1,2-Dibromo-3-chloropropane	1.07	mg/kg	0.0031	ND
1,2-Dibromoethane	1.07	mg/kg	0.0016	ND
1,2-Dichlorobenzene	1.07	mg/kg	0.0031	ND

Sample ID: SD-4-201707
 Lab#: AC98905-009
 Matrix: Sediment/Encore

Collection Date: 7/11/2017
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1,2-Dichloroethane	1.07	mg/kg	0.0031	ND		
1,2-Dichloropropane	1.07	mg/kg	0.0031	ND		
1,3-Dichlorobenzene	1.07	mg/kg	0.0031	ND		
1,4-Dichlorobenzene	1.07	mg/kg	0.0031	ND		
1,4-Dioxane	1.07	mg/kg	0.16	ND		
2-Butanone	1.07	mg/kg	0.0031	ND		
2-Hexanone	1.07	mg/kg	0.0031	ND		
4-Methyl-2-pentanone	1.07	mg/kg	0.0031	ND		
Acetone	1.07	mg/kg	0.016	ND		
Benzene	1.07	mg/kg	0.0016	ND		
Bromochloromethane	1.07	mg/kg	0.0031	ND		
Bromodichloromethane	1.07	mg/kg	0.0031	ND		
Bromoform	1.07	mg/kg	0.0031	ND		
Bromomethane	1.07	mg/kg	0.0031	ND		
Carbon disulfide	1.07	mg/kg	0.0031	ND		
Carbon tetrachloride	1.07	mg/kg	0.0031	ND		
Chlorobenzene	1.07	mg/kg	0.0031	ND		
Chloroethane	1.07	mg/kg	0.0031	ND		
Chloroform	1.07	mg/kg	0.0031	ND		
Chloromethane	1.07	mg/kg	0.0031	ND		
cis-1,2-Dichloroethene	1.07	mg/kg	0.0031	ND		
cis-1,3-Dichloropropene	1.07	mg/kg	0.0031	ND		
Cyclohexane	1.07	mg/kg	0.0031	ND		
Dibromochloromethane	1.07	mg/kg	0.0031	ND		
Dichlorodifluoromethane	1.07	mg/kg	0.0031	ND		
Ethylbenzene	1.07	mg/kg	0.0016	ND		
Isopropylbenzene	1.07	mg/kg	0.0016	ND		
m&p-Xylenes	1.07	mg/kg	0.0016	ND		
Methyl Acetate	1.07	mg/kg	0.0031	ND		
Methylcyclohexane	1.07	mg/kg	0.0031	ND		
Methylene chloride	1.07	mg/kg	0.0031	ND		
Methyl-t-butyl ether	1.07	mg/kg	0.0016	ND		
o-Xylene	1.07	mg/kg	0.0016	ND		
Styrene	1.07	mg/kg	0.0031	ND		
Tetrachloroethene	1.07	mg/kg	0.0031	ND		
Toluene	1.07	mg/kg	0.0016	ND		
trans-1,2-Dichloroethene	1.07	mg/kg	0.0031	ND		
trans-1,3-Dichloropropene	1.07	mg/kg	0.0031	ND		
Trichloroethene	1.07	mg/kg	0.0031	ND		
Trichlorofluoromethane	1.07	mg/kg	0.0031	ND		
Vinyl chloride	1.07	mg/kg	0.0031	ND		
Xylenes (Total)	1.07	mg/kg	0.0016	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	27.64	30	68	122	92	
Dibromofluoromethane	34.09	30	63	140	114	
Bromofluorobenzene	30.29	30	64	129	101	
1,2-Dichloroethane-d4	36.55	30	63	143	122	

Sample ID: SW-2-201707 U
 Lab#: AC98905-010
 Matrix: Aqueous

Collection Date: 7/11/2017
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Chloride (Water) 300.0

Analyte	DF	Units	RL	Result
Chloride	1	mg/l	2.0	7.0

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	110

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

Semivolatle Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.80	ND
2,4-Dimethylphenol	1	ug/l	0.50	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.50	ND
Diethylphthalate	1	ug/l	2.0	ND

Sample ID: SW-2-201707 U

Lab#: AC98905-010

Matrix: Aqueous

Collection Date: 7/11/2017

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Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.50	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.50	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14	43.33	50	55	146	87	
Phenol-d5	42.29	100	27	115	42	
Nitrobenzene-d5	34.62	50	51	139	69	
2-Fluorophenol	48.59	100	29	113	49	
2-Fluorobiphenyl	36.06	50	53	129	72	
2,4,6-Tribromophenol	69.70	100	54	149	70	

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	1	ug/l	50	ND
Calcium	1	ug/l	5000	36000
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	650
Magnesium	1	ug/l	5000	9900
Manganese	1	ug/l	40	370
Nickel	1	ug/l	50	ND
Potassium	1	ug/l	5000	ND
Silver	1	ug/l	20	ND
Sodium	1	ug/l	5000	10000
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND

Sample ID: SW-2-201707 U

Collection Date: 7/11/2017

Lab#: AC98905-010

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Matrix: Aqueous

1,2-Dichloroethane	1	ug/l	0.50	ND		
1,2-Dichloropropane	1	ug/l	1.0	ND		
1,3-Dichlorobenzene	1	ug/l	1.0	ND		
1,4-Dichlorobenzene	1	ug/l	1.0	ND		
1,4-Dioxane	1	ug/l	50	ND		
2-Butanone	1	ug/l	1.0	ND		
2-Hexanone	1	ug/l	1.0	ND		
4-Methyl-2-pentanone	1	ug/l	1.0	ND		
Acetone	1	ug/l	5.0	ND		
Benzene	1	ug/l	0.50	ND		
Bromochloromethane	1	ug/l	1.0	ND		
Bromodichloromethane	1	ug/l	1.0	ND		
Bromoform	1	ug/l	1.0	ND		
Bromomethane	1	ug/l	1.0	ND		
Carbon disulfide	1	ug/l	1.0	ND		
Carbon tetrachloride	1	ug/l	1.0	ND		
Chlorobenzene	1	ug/l	1.0	ND		
Chloroethane	1	ug/l	1.0	ND		
Chloroform	1	ug/l	1.0	ND		
Chloromethane	1	ug/l	1.0	ND		
cis-1,2-Dichloroethene	1	ug/l	1.0	ND		
cis-1,3-Dichloropropene	1	ug/l	1.0	ND		
Cyclohexane	1	ug/l	1.0	ND		
Dibromochloromethane	1	ug/l	1.0	ND		
Dichlorodifluoromethane	1	ug/l	1.0	ND		
Ethylbenzene	1	ug/l	1.0	ND		
Isopropylbenzene	1	ug/l	1.0	ND		
m&p-Xylenes	1	ug/l	1.0	ND		
Methyl Acetate	1	ug/l	1.0	ND		
Methylcyclohexane	1	ug/l	1.0	ND		
Methylene chloride	1	ug/l	1.0	ND		
Methyl-t-butyl ether	1	ug/l	0.50	ND		
o-Xylene	1	ug/l	1.0	ND		
Styrene	1	ug/l	1.0	ND		
Tetrachloroethene	1	ug/l	1.0	ND		
Toluene	1	ug/l	1.0	ND		
trans-1,2-Dichloroethene	1	ug/l	1.0	ND		
trans-1,3-Dichloropropene	1	ug/l	1.0	ND		
Trichloroethene	1	ug/l	1.0	ND		
Trichlorofluoromethane	1	ug/l	1.0	ND		
Vinyl chloride	1	ug/l	1.0	ND		
Xylenes (Total)	1	ug/l	1.0	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	28.78	30	79	111	96	
Dibromofluoromethane	36.21	30	73	131	121	
Bromofluorobenzene	29.50	30	82	112	98	
1,2-Dichloroethane-d4	34.48	30	78	128	115	

Sample ID: SD-2-201707
 Lab#: AC98905-012
 Matrix: Sediment/Encore

Collection Date: 7/11/2017
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% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		12

Chloride (Soil) 9056A

Analyte	DF	Units	RL	Result
Chloride	1	mg/kg	170	ND

Cyanide (Soil/Waste) 9012B

Analyte	DF	Units	RL	Result
Cyanide	1	mg/kg	2.0	ND

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.69	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.28	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.28	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.28	ND
2,4,5-Trichlorophenol	1	mg/kg	0.28	ND
2,4,6-Trichlorophenol	1	mg/kg	0.28	ND
2,4-Dichlorophenol	1	mg/kg	0.069	ND
2,4-Dimethylphenol	1	mg/kg	0.069	ND
2,4-Dinitrophenol	1	mg/kg	1.4	ND
2,4-Dinitrotoluene	1	mg/kg	0.28	ND
2,6-Dinitrotoluene	1	mg/kg	0.28	ND
2-Chloronaphthalene	1	mg/kg	0.28	ND
2-Chlorophenol	1	mg/kg	0.28	ND
2-Methylnaphthalene	1	mg/kg	0.28	ND
2-Methylphenol	1	mg/kg	0.069	ND
2-Nitroaniline	1	mg/kg	0.28	ND
2-Nitrophenol	1	mg/kg	0.28	ND
3&4-Methylphenol	1	mg/kg	0.069	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.28	ND
3-Nitroaniline	1	mg/kg	0.28	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	1.4	ND
4-Bromophenyl-phenylether	1	mg/kg	0.28	ND
4-Chloro-3-methylphenol	1	mg/kg	0.28	ND
4-Chloroaniline	1	mg/kg	0.069	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.28	ND
4-Nitroaniline	1	mg/kg	0.28	ND
4-Nitrophenol	1	mg/kg	0.28	ND
Acenaphthene	1	mg/kg	0.28	ND
Acenaphthylene	1	mg/kg	0.28	ND
Acetophenone	1	mg/kg	0.28	ND
Anthracene	1	mg/kg	0.28	ND
Atrazine	1	mg/kg	0.28	ND
Benzaldehyde	1	mg/kg	0.28	ND
Benzo[a]anthracene	1	mg/kg	0.28	ND
Benzo[a]pyrene	1	mg/kg	0.28	ND
Benzo[b]fluoranthene	1	mg/kg	0.28	0.41
Benzo[g,h,i]perylene	1	mg/kg	0.28	ND
Benzo[k]fluoranthene	1	mg/kg	0.28	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.28	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.069	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.28	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.28	ND
Butylbenzylphthalate	1	mg/kg	0.28	ND
Caprolactam	1	mg/kg	0.28	ND
Carbazole	1	mg/kg	0.28	ND
Chrysene	1	mg/kg	0.28	0.30
Dibenzo[a,h]anthracene	1	mg/kg	0.28	ND
Dibenzofuran	1	mg/kg	0.069	ND
Diethylphthalate	1	mg/kg	0.28	ND

Sample ID: SD-2-201707
 Lab#: AC98905-012
 Matrix: Sediment/Encore

Collection Date: 7/11/2017
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Dimethylphthalate	1	mg/kg	0.28	ND		
Di-n-butylphthalate	1	mg/kg	0.069	ND		
Di-n-octylphthalate	1	mg/kg	0.28	ND		
Fluoranthene	1	mg/kg	0.28	0.41		
Fluorene	1	mg/kg	0.28	ND		
Hexachlorobenzene	1	mg/kg	0.28	ND		
Hexachlorobutadiene	1	mg/kg	0.28	ND		
Hexachlorocyclopentadiene	1	mg/kg	0.65	ND		
Hexachloroethane	1	mg/kg	0.28	ND		
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.28	ND		
Isophorone	1	mg/kg	0.28	ND		
Naphthalene	1	mg/kg	0.069	ND		
Nitrobenzene	1	mg/kg	0.28	ND		
N-Nitroso-di-n-propylamine	1	mg/kg	0.069	ND		
N-Nitrosodiphenylamine	1	mg/kg	0.28	ND		
Pentachlorophenol	1	mg/kg	1.4	ND		
Phenanthrene	1	mg/kg	0.28	ND		
Phenol	1	mg/kg	0.28	ND		
Pyrene	1	mg/kg	0.28	0.49		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14	37.19	50	58	148	74	
Phenol-d5	107.22	100	49	129	107	
Nitrobenzene-d5	36.67	50	52	129	73	
2-Fluorophenol	89.59	100	43	128	90	
2-Fluorobiphenyl	33.43	50	58	125	67	
2,4,6-Tribromophenol	82.34	100	54	145	82	

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	mg/kg	1700	20000
Barium	1	mg/kg	83	1100
Calcium	1	mg/kg	8300	26000
Chromium	1	mg/kg	42	53
Cobalt	1	mg/kg	21	23
Copper	1	mg/kg	42	80
Iron	1	mg/kg	1700	110000
Lead	1	mg/kg	42	100
Magnesium	1	mg/kg	4200	10000
Manganese	2	mg/kg	170	52000
Nickel	1	mg/kg	42	45
Potassium	1	mg/kg	4200	ND
Sodium	1	mg/kg	2100	ND
Vanadium	1	mg/kg	83	ND
Zinc	1	mg/kg	83	520

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	6.7	ND
Arsenic	1	mg/kg	1.7	16
Beryllium	2	mg/kg	3.3	ND
Cadmium	1	mg/kg	3.3	ND
Selenium	1	mg/kg	17	ND
Silver	1	mg/kg	1.7	ND
Thallium	1	mg/kg	3.3	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1.77	mg/kg	0.030	ND
1,1,2,2-Tetrachloroethane	1.77	mg/kg	0.030	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1.77	mg/kg	0.030	ND
1,1,2-Trichloroethane	1.77	mg/kg	0.030	ND
1,1-Dichloroethane	1.77	mg/kg	0.030	ND
1,1-Dichloroethene	1.77	mg/kg	0.030	ND
1,2,3-Trichlorobenzene	1.77	mg/kg	0.030	ND
1,2,4-Trichlorobenzene	1.77	mg/kg	0.030	ND
1,2-Dibromo-3-chloropropane	1.77	mg/kg	0.030	ND
1,2-Dibromoethane	1.77	mg/kg	0.015	ND
1,2-Dichlorobenzene	1.77	mg/kg	0.030	ND

Sample ID: SD-2-201707
 Lab#: AC98905-012
 Matrix: Sediment/Encore

Collection Date: 7/11/2017
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1,2-Dichloroethane	1.77	mg/kg	0.030	ND		
1,2-Dichloropropane	1.77	mg/kg	0.030	ND		
1,3-Dichlorobenzene	1.77	mg/kg	0.030	ND		
1,4-Dichlorobenzene	1.77	mg/kg	0.030	ND		
1,4-Dioxane	1.77	mg/kg	1.5	ND		
2-Butanone	1.77	mg/kg	0.030	ND		
2-Hexanone	1.77	mg/kg	0.030	ND		
4-Methyl-2-pentanone	1.77	mg/kg	0.030	ND		
Acetone	1.77	mg/kg	0.15	ND		
Benzene	1.77	mg/kg	0.015	ND		
Bromochloromethane	1.77	mg/kg	0.030	ND		
Bromodichloromethane	1.77	mg/kg	0.030	ND		
Bromoform	1.77	mg/kg	0.030	ND		
Bromomethane	1.77	mg/kg	0.030	ND		
Carbon disulfide	1.77	mg/kg	0.030	ND		
Carbon tetrachloride	1.77	mg/kg	0.030	ND		
Chlorobenzene	1.77	mg/kg	0.030	ND		
Chloroethane	1.77	mg/kg	0.030	ND		
Chloroform	1.77	mg/kg	0.030	ND		
Chloromethane	1.77	mg/kg	0.030	ND		
cis-1,2-Dichloroethene	1.77	mg/kg	0.030	ND		
cis-1,3-Dichloropropene	1.77	mg/kg	0.030	ND		
Cyclohexane	1.77	mg/kg	0.030	ND		
Dibromochloromethane	1.77	mg/kg	0.030	ND		
Dichlorodifluoromethane	1.77	mg/kg	0.030	ND		
Ethylbenzene	1.77	mg/kg	0.015	ND		
Isopropylbenzene	1.77	mg/kg	0.015	ND		
m&p-Xylenes	1.77	mg/kg	0.015	ND		
Methyl Acetate	1.77	mg/kg	0.030	ND		
Methylcyclohexane	1.77	mg/kg	0.030	ND		
Methylene chloride	1.77	mg/kg	0.030	ND		
Methyl-t-butyl ether	1.77	mg/kg	0.015	ND		
o-Xylene	1.77	mg/kg	0.015	ND		
Styrene	1.77	mg/kg	0.030	ND		
Tetrachloroethene	1.77	mg/kg	0.030	ND		
Toluene	1.77	mg/kg	0.015	ND		
trans-1,2-Dichloroethene	1.77	mg/kg	0.030	ND		
trans-1,3-Dichloropropene	1.77	mg/kg	0.030	ND		
Trichloroethene	1.77	mg/kg	0.030	ND		
Trichlorofluoromethane	1.77	mg/kg	0.030	ND		
Vinyl chloride	1.77	mg/kg	0.030	ND		
Xylenes (Total)	1.77	mg/kg	0.015	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	28.95	30	68	122	96	
Dibromofluoromethane	31.02	30	63	140	103	
Bromofluorobenzene	32.62	30	64	129	109	
1,2-Dichloroethane-d4	35.50	30	63	143	118	

Sample ID: SW-1-201707 U
 Lab#: AC98905-013
 Matrix: Aqueous

Collection Date: 7/11/2017
 Receipt Date: 7/11/2017

Chloride (Water) 300.0

Analyte	DF	Units	RL	Result
Chloride	1	mg/l	2.0	5.4

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	120

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

Semivolatiles Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.1	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.1	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.1	ND
2,4,5-Trichlorophenol	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	0.84	ND
2,4-Dimethylphenol	1	ug/l	0.53	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Methylnaphthalene	1	ug/l	2.1	ND
2-Methylphenol	1	ug/l	0.53	ND
2-Nitroaniline	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3&4-Methylphenol	1	ug/l	0.53	ND
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND
3-Nitroaniline	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chloroaniline	1	ug/l	0.53	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitroaniline	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Acetophenone	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Atrazine	1	ug/l	2.1	ND
Benzaldehyde	1	ug/l	2.1	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	2.1	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.53	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Caprolactam	1	ug/l	2.1	ND
Carbazole	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND
Dibenzofuran	1	ug/l	0.53	ND
Diethylphthalate	1	ug/l	2.1	ND

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Matrix: Aqueous

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Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	0.53	ND
Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND
Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	2.1	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	1	ug/l	0.53	ND
Nitrobenzene	1	ug/l	2.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.53	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	1	ug/l	2.1	ND
Pyrene	1	ug/l	2.1	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14	49.14	50	55	146	98	
Phenol-d5	29.29	100	27	115	29	
Nitrobenzene-d5	46.89	50	51	139	94	
2-Fluorophenol	42.23	100	29	113	42	
2-Fluorobiphenyl	44.58	50	53	129	89	
2,4,6-Tribromophenol	85.47	100	54	149	85	

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	1	ug/l	50	ND
Calcium	1	ug/l	5000	39000
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	1400
Magnesium	1	ug/l	5000	11000
Manganese	1	ug/l	40	1300
Nickel	1	ug/l	50	ND
Potassium	1	ug/l	5000	ND
Silver	1	ug/l	20	ND
Sodium	1	ug/l	5000	9000
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND

Sample ID: SW-1-201707 U

Collection Date: 7/11/2017

Lab#: AC98905-013

Receipt Date: 7/11/2017

Matrix: Aqueous

1,2-Dichloroethane	1	ug/l	0.50	ND		
1,2-Dichloropropane	1	ug/l	1.0	ND		
1,3-Dichlorobenzene	1	ug/l	1.0	ND		
1,4-Dichlorobenzene	1	ug/l	1.0	ND		
1,4-Dioxane	1	ug/l	50	ND		
2-Butanone	1	ug/l	1.0	ND		
2-Hexanone	1	ug/l	1.0	ND		
4-Methyl-2-pentanone	1	ug/l	1.0	ND		
Acetone	1	ug/l	5.0	ND		
Benzene	1	ug/l	0.50	ND		
Bromochloromethane	1	ug/l	1.0	ND		
Bromodichloromethane	1	ug/l	1.0	ND		
Bromoform	1	ug/l	1.0	ND		
Bromomethane	1	ug/l	1.0	ND		
Carbon disulfide	1	ug/l	1.0	ND		
Carbon tetrachloride	1	ug/l	1.0	ND		
Chlorobenzene	1	ug/l	1.0	ND		
Chloroethane	1	ug/l	1.0	ND		
Chloroform	1	ug/l	1.0	ND		
Chloromethane	1	ug/l	1.0	ND		
cis-1,2-Dichloroethene	1	ug/l	1.0	ND		
cis-1,3-Dichloropropene	1	ug/l	1.0	ND		
Cyclohexane	1	ug/l	1.0	ND		
Dibromochloromethane	1	ug/l	1.0	ND		
Dichlorodifluoromethane	1	ug/l	1.0	ND		
Ethylbenzene	1	ug/l	1.0	ND		
Isopropylbenzene	1	ug/l	1.0	ND		
m&p-Xylenes	1	ug/l	1.0	ND		
Methyl Acetate	1	ug/l	1.0	ND		
Methylcyclohexane	1	ug/l	1.0	ND		
Methylene chloride	1	ug/l	1.0	ND		
Methyl-t-butyl ether	1	ug/l	0.50	ND		
o-Xylene	1	ug/l	1.0	ND		
Styrene	1	ug/l	1.0	ND		
Tetrachloroethene	1	ug/l	1.0	ND		
Toluene	1	ug/l	1.0	ND		
trans-1,2-Dichloroethene	1	ug/l	1.0	ND		
trans-1,3-Dichloropropene	1	ug/l	1.0	ND		
Trichloroethene	1	ug/l	1.0	ND		
Trichlorofluoromethane	1	ug/l	1.0	ND		
Vinyl chloride	1	ug/l	1.0	ND		
Xylenes (Total)	1	ug/l	1.0	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	28.66	30	79	111	96	
Dibromofluoromethane	37.17	30	73	131	124	
Bromofluorobenzene	30.33	30	82	112	101	
1,2-Dichloroethane-d4	35.79	30	78	128	119	

Sample ID: SD-1-201707
 Lab#: AC98905-015
 Matrix: Sediment/Encore

Collection Date: 7/11/2017
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% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		48

Chloride (Soil) 9056A

Analyte	DF	Units	RL	Result
Chloride	1	mg/kg	42	ND

Cyanide (Soil/Waste) 9012B

Analyte	DF	Units	RL	Result
Cyanide	1	mg/kg	0.50	ND

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.17	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.069	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.069	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.069	ND
2,4,5-Trichlorophenol	1	mg/kg	0.069	ND
2,4,6-Trichlorophenol	1	mg/kg	0.069	ND
2,4-Dichlorophenol	1	mg/kg	0.017	ND
2,4-Dimethylphenol	1	mg/kg	0.017	ND
2,4-Dinitrophenol	1	mg/kg	0.35	ND
2,4-Dinitrotoluene	1	mg/kg	0.069	ND
2,6-Dinitrotoluene	1	mg/kg	0.069	ND
2-Chloronaphthalene	1	mg/kg	0.069	ND
2-Chlorophenol	1	mg/kg	0.069	ND
2-Methylnaphthalene	1	mg/kg	0.069	ND
2-Methylphenol	1	mg/kg	0.017	ND
2-Nitroaniline	1	mg/kg	0.069	ND
2-Nitrophenol	1	mg/kg	0.069	ND
3&4-Methylphenol	1	mg/kg	0.017	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.069	ND
3-Nitroaniline	1	mg/kg	0.069	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.35	ND
4-Bromophenyl-phenylether	1	mg/kg	0.069	ND
4-Chloro-3-methylphenol	1	mg/kg	0.069	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.069	ND
4-Nitroaniline	1	mg/kg	0.069	ND
4-Nitrophenol	1	mg/kg	0.069	ND
Acenaphthene	1	mg/kg	0.069	ND
Acenaphthylene	1	mg/kg	0.069	ND
Acetophenone	1	mg/kg	0.069	ND
Anthracene	1	mg/kg	0.069	ND
Atrazine	1	mg/kg	0.069	ND
Benzaldehyde	1	mg/kg	0.069	ND
Benzo[a]anthracene	1	mg/kg	0.069	0.095
Benzo[a]pyrene	1	mg/kg	0.069	0.12
Benzo[b]fluoranthene	1	mg/kg	0.069	0.19
Benzo[g,h,i]perylene	1	mg/kg	0.069	0.11
Benzo[k]fluoranthene	1	mg/kg	0.069	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.069	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.017	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.069	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.069	ND
Butylbenzylphthalate	1	mg/kg	0.069	ND
Caprolactam	1	mg/kg	0.069	ND
Carbazole	1	mg/kg	0.069	ND
Chrysene	1	mg/kg	0.069	0.13
Dibenzo[a,h]anthracene	1	mg/kg	0.069	ND
Dibenzofuran	1	mg/kg	0.017	ND
Diethylphthalate	1	mg/kg	0.069	ND

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Dimethylphthalate	1	mg/kg	0.069	ND		
Di-n-butylphthalate	1	mg/kg	0.017	ND		
Di-n-octylphthalate	1	mg/kg	0.069	ND		
Fluoranthene	1	mg/kg	0.069	0.17		
Fluorene	1	mg/kg	0.069	ND		
Hexachlorobenzene	1	mg/kg	0.069	ND		
Hexachlorobutadiene	1	mg/kg	0.069	ND		
Hexachlorocyclopentadiene	1	mg/kg	0.16	ND		
Hexachloroethane	1	mg/kg	0.069	ND		
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.069	0.086		
Isophorone	1	mg/kg	0.069	ND		
Naphthalene	1	mg/kg	0.017	ND		
Nitrobenzene	1	mg/kg	0.069	ND		
N-Nitroso-di-n-propylamine	1	mg/kg	0.017	ND		
N-Nitrosodiphenylamine	1	mg/kg	0.069	ND		
Pentachlorophenol	1	mg/kg	0.35	ND		
Phenanthrene	1	mg/kg	0.069	ND		
Phenol	1	mg/kg	0.069	ND		
Pyrene	1	mg/kg	0.069	0.20		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14	52.58	50	58	148	105	
Phenol-d5	75.55	100	49	129	76	
Nitrobenzene-d5	38.38	50	52	129	77	
2-Fluorophenol	73.03	100	43	128	73	
2-Fluorobiphenyl	41.73	50	58	125	83	
2,4,6-Tribromophenol	101.58	100	54	145	102	

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	mg/kg	420	28000
Barium	1	mg/kg	21	330
Calcium	1	mg/kg	2100	8100
Chromium	1	mg/kg	10	68
Cobalt	1	mg/kg	5.2	24
Copper	1	mg/kg	10	54
Iron	1	mg/kg	420	78000
Lead	1	mg/kg	10	52
Magnesium	1	mg/kg	1000	9600
Manganese	1	mg/kg	21	5800
Nickel	1	mg/kg	10	47
Potassium	1	mg/kg	1000	5400
Sodium	1	mg/kg	520	ND
Vanadium	1	mg/kg	21	99
Zinc	1	mg/kg	21	180

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	1.7	ND
Arsenic	1	mg/kg	0.42	6.2
Beryllium	1	mg/kg	0.42	0.50
Cadmium	1	mg/kg	0.83	ND
Selenium	1	mg/kg	4.2	ND
Silver	1	mg/kg	0.42	ND
Thallium	1	mg/kg	0.83	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.975	mg/kg	0.0041	ND
1,1,2,2-Tetrachloroethane	0.975	mg/kg	0.0041	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.975	mg/kg	0.0041	ND
1,1,2-Trichloroethane	0.975	mg/kg	0.0041	ND
1,1-Dichloroethane	0.975	mg/kg	0.0041	ND
1,1-Dichloroethene	0.975	mg/kg	0.0041	ND
1,2,3-Trichlorobenzene	0.975	mg/kg	0.0041	ND
1,2,4-Trichlorobenzene	0.975	mg/kg	0.0041	ND
1,2-Dibromo-3-chloropropane	0.975	mg/kg	0.0041	ND
1,2-Dibromoethane	0.975	mg/kg	0.0020	ND
1,2-Dichlorobenzene	0.975	mg/kg	0.0041	ND

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1,2-Dichloroethane	0.975	mg/kg	0.0041	ND		
1,2-Dichloropropane	0.975	mg/kg	0.0041	ND		
1,3-Dichlorobenzene	0.975	mg/kg	0.0041	ND		
1,4-Dichlorobenzene	0.975	mg/kg	0.0041	ND		
1,4-Dioxane	0.975	mg/kg	0.20	ND		
2-Butanone	0.975	mg/kg	0.0041	ND		
2-Hexanone	0.975	mg/kg	0.0041	ND		
4-Methyl-2-pentanone	0.975	mg/kg	0.0041	ND		
Acetone	0.975	mg/kg	0.020	ND		
Benzene	0.975	mg/kg	0.0020	ND		
Bromochloromethane	0.975	mg/kg	0.0041	ND		
Bromodichloromethane	0.975	mg/kg	0.0041	ND		
Bromoform	0.975	mg/kg	0.0041	ND		
Bromomethane	0.975	mg/kg	0.0041	ND		
Carbon disulfide	0.975	mg/kg	0.0041	ND		
Carbon tetrachloride	0.975	mg/kg	0.0041	ND		
Chlorobenzene	0.975	mg/kg	0.0041	ND		
Chloroethane	0.975	mg/kg	0.0041	ND		
Chloroform	0.975	mg/kg	0.0041	ND		
Chloromethane	0.975	mg/kg	0.0041	ND		
cis-1,2-Dichloroethene	0.975	mg/kg	0.0041	ND		
cis-1,3-Dichloropropene	0.975	mg/kg	0.0041	ND		
Cyclohexane	0.975	mg/kg	0.0041	ND		
Dibromochloromethane	0.975	mg/kg	0.0041	ND		
Dichlorodifluoromethane	0.975	mg/kg	0.0041	ND		
Ethylbenzene	0.975	mg/kg	0.0020	ND		
Isopropylbenzene	0.975	mg/kg	0.0020	ND		
m&p-Xylenes	0.975	mg/kg	0.0020	ND		
Methyl Acetate	0.975	mg/kg	0.0041	ND		
Methylcyclohexane	0.975	mg/kg	0.0041	ND		
Methylene chloride	0.975	mg/kg	0.0041	ND		
Methyl-t-butyl ether	0.975	mg/kg	0.0020	ND		
o-Xylene	0.975	mg/kg	0.0020	ND		
Styrene	0.975	mg/kg	0.0041	ND		
Tetrachloroethene	0.975	mg/kg	0.0041	ND		
Toluene	0.975	mg/kg	0.0020	ND		
trans-1,2-Dichloroethene	0.975	mg/kg	0.0041	ND		
trans-1,3-Dichloropropene	0.975	mg/kg	0.0041	ND		
Trichloroethene	0.975	mg/kg	0.0041	ND		
Trichlorofluoromethane	0.975	mg/kg	0.0041	ND		
Vinyl chloride	0.975	mg/kg	0.0041	ND		
Xylenes (Total)	0.975	mg/kg	0.0020	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	26.47	30	68	122	88	
Dibromofluoromethane	31.56	30	63	140	105	
Bromofluorobenzene	30.32	30	64	129	101	
1,2-Dichloroethane-d4	30.39	30	63	143	101	

Sample ID: TB-1-201707
 Lab#: AC98905-016
 Matrix: Aqueous

Collection Date: 7/11/2017
 Receipt Date: 7/11/2017

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result		
1,1,1-Trichloroethane	1	ug/l	1.0	ND		
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND		
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND		
1,1,2-Trichloroethane	1	ug/l	1.0	ND		
1,1-Dichloroethane	1	ug/l	1.0	ND		
1,1-Dichloroethene	1	ug/l	1.0	ND		
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND		
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND		
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND		
1,2-Dibromoethane	1	ug/l	1.0	ND		
1,2-Dichlorobenzene	1	ug/l	1.0	ND		
1,2-Dichloroethane	1	ug/l	0.50	ND		
1,2-Dichloropropane	1	ug/l	1.0	ND		
1,3-Dichlorobenzene	1	ug/l	1.0	ND		
1,4-Dichlorobenzene	1	ug/l	1.0	ND		
1,4-Dioxane	1	ug/l	50	ND		
2-Butanone	1	ug/l	1.0	ND		
2-Hexanone	1	ug/l	1.0	ND		
4-Methyl-2-pentanone	1	ug/l	1.0	ND		
Acetone	1	ug/l	5.0	ND		
Benzene	1	ug/l	0.50	ND		
Bromochloromethane	1	ug/l	1.0	ND		
Bromodichloromethane	1	ug/l	1.0	ND		
Bromoform	1	ug/l	1.0	ND		
Bromomethane	1	ug/l	1.0	ND		
Carbon disulfide	1	ug/l	1.0	ND		
Carbon tetrachloride	1	ug/l	1.0	ND		
Chlorobenzene	1	ug/l	1.0	ND		
Chloroethane	1	ug/l	1.0	ND		
Chloroform	1	ug/l	1.0	ND		
Chloromethane	1	ug/l	1.0	ND		
cis-1,2-Dichloroethene	1	ug/l	1.0	ND		
cis-1,3-Dichloropropene	1	ug/l	1.0	ND		
Cyclohexane	1	ug/l	1.0	ND		
Dibromochloromethane	1	ug/l	1.0	ND		
Dichlorodifluoromethane	1	ug/l	1.0	ND		
Ethylbenzene	1	ug/l	1.0	ND		
Isopropylbenzene	1	ug/l	1.0	ND		
m&p-Xylenes	1	ug/l	1.0	ND		
Methyl Acetate	1	ug/l	1.0	ND		
Methylcyclohexane	1	ug/l	1.0	ND		
Methylene chloride	1	ug/l	1.0	ND		
Methyl-t-butyl ether	1	ug/l	0.50	ND		
o-Xylene	1	ug/l	1.0	ND		
Styrene	1	ug/l	1.0	ND		
Tetrachloroethene	1	ug/l	1.0	ND		
Toluene	1	ug/l	1.0	ND		
trans-1,2-Dichloroethene	1	ug/l	1.0	ND		
trans-1,3-Dichloropropene	1	ug/l	1.0	ND		
Trichloroethene	1	ug/l	1.0	ND		
Trichlorofluoromethane	1	ug/l	1.0	ND		
Vinyl chloride	1	ug/l	1.0	ND		
Xylenes (Total)	1	ug/l	1.0	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	29.17	30	79	111	97	
Dibromofluoromethane	36.25	30	73	131	121	
Bromofluorobenzene	30.05	30	82	112	100	
1,2-Dichloroethane-d4	34.35	30	78	128	115	

Sample ID: MW-11-201707 U

Lab#: AC98905-017

Matrix: Aqueous

Collection Date: 7/11/2017

Receipt Date: 7/11/2017

Alkalinity-Bicarbonate (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg cac03/l	10	280

Alkalinity-Carbonate (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg cac03/l	10	ND

Alkalinity-Total (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg cac03/l	10	280

BTEX & Extra Compounds (8260)

Analyte	DF	Units	RL	Result		
Benzene	1	ug/l	0.50	ND		
Ethylbenzene	1	ug/l	1.0	ND		
m&p-Xylenes	1	ug/l	1.0	ND		
Methyl-t-butyl ether	1	ug/l	0.50	ND		
o-Xylene	1	ug/l	1.0	ND		
Toluene	1	ug/l	1.0	ND		
Xylenes (Total)	1	ug/l	1.0	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	29.06	30	79	111	97	
Dibromofluoromethane	35.51	30	73	131	118	
Bromofluorobenzene	29.43	30	82	112	98	
1,2-Dichloroethane-d4	35.19	30	78	128	117	

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Sulfate (Water) 300.0

Analyte	DF	Units	RL	Result
Sulfate	1	mg/l	2.0	8.5

Sample ID: MW-11-201707 F

Lab#: AC98905-018

Matrix: Aqueous

Collection Date: 7/11/2017

Receipt Date: 7/11/2017

Metals Pair 6010

Analyte	DF	Units	RL	Result
Iron	1	ug/l	300	370
Manganese	1	ug/l	40	680

Sample ID: SW-FD-201707 U
 Lab#: AC98905-019
 Matrix: Aqueous

Collection Date: 7/11/2017
 Receipt Date: 7/11/2017

Chloride (Water) 300.0

Analyte	DF	Units	RL	Result
Chloride	1	mg/l	2.0	6.9

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Hardness 200.7

Analyte	DF	Units	RL	Result
Hardness	1	mg cac03/l	6.6	120

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

Semivolatiles Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.80	ND
2,4-Dimethylphenol	1	ug/l	0.50	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.50	ND
Diethylphthalate	1	ug/l	2.0	ND

Sample ID: SW-FD-201707 U

Lab#: AC98905-019

Matrix: Aqueous

Collection Date: 7/11/2017

Receipt Date: 7/11/2017

Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.50	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.50	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14	44.12	50	55	146	88	
Phenol-d5	35.44	100	27	115	35	
Nitrobenzene-d5	42.85	50	51	139	86	
2-Fluorophenol	48.72	100	29	113	49	
2-Fluorobiphenyl	43.22	50	53	129	86	
2,4,6-Tribromophenol	83.17	100	54	149	83	

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	240
Barium	1	ug/l	50	ND
Calcium	1	ug/l	5000	36000
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	430
Magnesium	1	ug/l	5000	10000
Manganese	1	ug/l	40	240
Nickel	1	ug/l	50	ND
Potassium	1	ug/l	5000	ND
Silver	1	ug/l	20	ND
Sodium	1	ug/l	5000	10000
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND

Sample ID: SW-FD-201707 U

Collection Date: 7/11/2017

Lab#: AC98905-019

Receipt Date: 7/11/2017

Matrix: Aqueous

1,2-Dichloroethane	1	ug/l	0.50	ND		
1,2-Dichloropropane	1	ug/l	1.0	ND		
1,3-Dichlorobenzene	1	ug/l	1.0	ND		
1,4-Dichlorobenzene	1	ug/l	1.0	ND		
1,4-Dioxane	1	ug/l	50	ND		
2-Butanone	1	ug/l	1.0	ND		
2-Hexanone	1	ug/l	1.0	ND		
4-Methyl-2-pentanone	1	ug/l	1.0	ND		
Acetone	1	ug/l	5.0	ND		
Benzene	1	ug/l	0.50	ND		
Bromochloromethane	1	ug/l	1.0	ND		
Bromodichloromethane	1	ug/l	1.0	ND		
Bromoform	1	ug/l	1.0	ND		
Bromomethane	1	ug/l	1.0	ND		
Carbon disulfide	1	ug/l	1.0	ND		
Carbon tetrachloride	1	ug/l	1.0	ND		
Chlorobenzene	1	ug/l	1.0	ND		
Chloroethane	1	ug/l	1.0	ND		
Chloroform	1	ug/l	1.0	ND		
Chloromethane	1	ug/l	1.0	ND		
cis-1,2-Dichloroethene	1	ug/l	1.0	ND		
cis-1,3-Dichloropropene	1	ug/l	1.0	ND		
Cyclohexane	1	ug/l	1.0	ND		
Dibromochloromethane	1	ug/l	1.0	ND		
Dichlorodifluoromethane	1	ug/l	1.0	ND		
Ethylbenzene	1	ug/l	1.0	ND		
Isopropylbenzene	1	ug/l	1.0	ND		
m&p-Xylenes	1	ug/l	1.0	ND		
Methyl Acetate	1	ug/l	1.0	ND		
Methylcyclohexane	1	ug/l	1.0	ND		
Methylene chloride	1	ug/l	1.0	ND		
Methyl-t-butyl ether	1	ug/l	0.50	ND		
o-Xylene	1	ug/l	1.0	ND		
Styrene	1	ug/l	1.0	ND		
Tetrachloroethene	1	ug/l	1.0	ND		
Toluene	1	ug/l	1.0	ND		
trans-1,2-Dichloroethene	1	ug/l	1.0	ND		
trans-1,3-Dichloropropene	1	ug/l	1.0	ND		
Trichloroethene	1	ug/l	1.0	ND		
Trichlorofluoromethane	1	ug/l	1.0	ND		
Vinyl chloride	1	ug/l	1.0	ND		
Xylenes (Total)	1	ug/l	1.0	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	28.33	30	79	111	94	
Dibromofluoromethane	32.84	30	73	131	109	
Bromofluorobenzene	28.60	30	82	112	95	
1,2-Dichloroethane-d4	32.28	30	78	128	108	

Hampton-Clarke, Inc. (WBE/DBE/SBE)
 175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
 Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
 Service Center: 137-D Gaitler Drive, Mount Laurel, New Jersey 08054
 Ph (Service Center): 856-780-6057 Fax: 856-780-6056



Project # (Lab Use Only) 7071123 Page 1 of 2
3) Reporting Requirements (Please Circle)
 Turnaround: _____ Report Type: _____ Electronic Data Deliv.
 When Available:
 1 Business Day (100%)*
 2 Business Days (75%)*
 3 Business Days (50%)*
 4 Business Days (35%)*
 5 Business Days (25%)
 8 Business Days (Stand.)
 Other: _____

Customer Information
 1a) Customer: TRC
 Address: 1430 Broadway
New York, NY 10018
 1b) Email/Cell/Fax/Pr: Amyers@Hcsolohos.com
 1c) Send Invoice to: "
 1d) Send Report to: "

Project Information
 2a) Project: West Hamson Sub Residency
 2b) Project Mgr: Kirsten Myers
 2c) Project Location (City/State): Harrison, NY
 2d) Quote/PO # (If Applicable): _____

Summary: Results + QC (Waste)
 Reduced: NJ NY PA
 PA Other _____
 NJ Full / NY ASP CatB
 NY ASP CatA
 Other: Region 2 or 5

FOR LAB USE ONLY
 Batch # ACS8905
 Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Waste Water, S - Soil, SL - Sludge, OL - Oil, A - Air, OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)
 VO²⁺ IS
 BNA²⁺ IS
 TAL Met (thru Filtr)
 CN (Filtr Filtr)
 Chloride
 % Solids
 Hardness

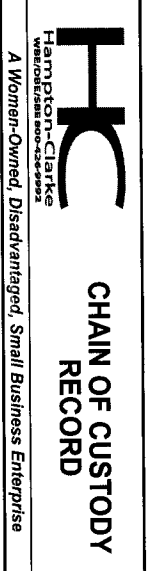
8) # of Bottles
 None, MeOH, En Core, NaOH, HCl, H2SO4, HNO3, Other: _____
9) Comments

Lab Sample #	4) Customer Sample ID	Matrix	6) Sample		Composite (C)	Grab (G)	7) Analysis	8) # of Bottles							9) Comments			
			Date	Time				None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3		Other:		
001/002	LMW-2-201707	GW	7/11/10	1225	X	X		3										
003/004	LMW-4-201707	GW	7/11/10	1410	X	X		3										
005/006	PC-2-201707	GW	7/11/10	1530	X	X		3										
007/008	SW-4-201707	SW	7/11/10	1015	X	X		3										
009/010	SD-4-201707	SED	7/11/10	1110	X	X		3										
011/012	SW-2-201707	SW	7/11/10	1115	X	X		3										
013/014	SW-1-201707	SW	7/11/10	1210	X	X		3										
015/016	SW-1-201707	SW	7/11/10	1215	X	X		3										
017/018	TRB-1-201707	TRB	7/11/10	1215	X	X		3										Trip Blank

10) Relinquished by: [Signature] Accepted by: [Signature] Date: 7/11/10 Time: 14:30
 11) Sampler (print name): James Robinson Date: 7/11/10
 Comments, Notes, Special Requirements, HAZARDS
 Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
 BN or BNA (8270D SIM) _____
 VOC (8260C SIM or 8011) _____
 SPLP (BN, BNA, Metals) _____
 1,4 Dioxane _____
 Check if applicable:
 Project-Specific Reporting Limits
 High Contaminant Concentrations _____
 NJ LSRP Project (also check boxes above/right) _____
 Please note NUMBERED items. If not completed your analytical work may be delayed.
 A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.
 Internal use: sampling plan (check box) HC or client FSP# _____

Additional Notes: Please Batsfall Hamson Sub Res Samples on site lab report
 Cooler Temperature: 2.0, 2.1, 3.1, 2.4

Hampton-Clarke, Inc. (WBE/DBE/SBE)
 175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
 Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
 Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
 Ph (Service Center): 856-780-6057 Fax: 856-780-6056
 NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved



Project # (Lab Use Only) **707123** Page **2** of **2**
3) Reporting Requirements (Please Circle)

Turnaround	When Available:	Report Type	Electronic Data Deliv.
1 Business Day (100%)*	Results + OC (Waste)	Summary	NU HazSite
2 Business Days (75%)*	Reduced:	[] NJ [] NY	Excel Reg. NU <input checked="" type="checkbox"/> NY <input type="checkbox"/> PA
3 Business Days (50%)*	[] PA [] Other	NY Full / NY ASP Carb	EnviroData
4 Business Days (35%)*	NY ASP Carb <input checked="" type="checkbox"/>	Other:	EQUIS:
5 Business Days (25%)			[] 4File [] EZ
8 Business Days (Stand.)			<input checked="" type="checkbox"/> NYDEC
Other:			[] Region 2 or 5

Customer Information

1a) Customer: _____
 Address: _____
 1b) Email/Cell/Fax/Ph: **SEE Pg 1**
 1c) Send Invoice to: _____
 1d) Send Report to: _____

Project Information

2a) Project: _____
 2b) Project Mgr: **See Pg 1**
 2c) Project Location (City/State): _____
 2d) Quote/PO # (if Applicable): _____

7) Analysis (specify methods & parameter lists)

Matrix Codes
 DW - Drinking Water S - Soil A - Air
 GW - Ground Water SL - Sludge
 WW - Waste Water OL - Oil
 OT - Other (please specify under Item 9, Comments)

FOR LAB USE ONLY	Batch #	Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	7) Analysis (specify methods & parameter lists)
	Ac98895	07/018	MW-11-20107	GW	7/11	1415	X	X	VO BTEX + MTBE Fe, Mn (Field Filtr) Alkalinity & Bicarb Alc NO ₃ & Sulfate

FOR LAB USE ONLY

====> Check if Contingent <====>

8) # of Bottles

None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: Zn Acetate
4				3		1	1

9) Comments

====< Check if Contingent <====

10) Relinquished by: _____
Accepted by: _____
 Date: 7/11/17 Time: 14:30

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
 BN or BNA (8270D SIM)
 VOC (8260C SIM or 8011)
 SPLP (BN, BNA, Metals)
 1,4 Dioxane

Check if applicable:
 Project-Specific Reporting Limits
 High Contaminant Concentrations
 NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:
 NUDEP GWQS
 NUDEP SRS
 NUDEP SPLP
 Other (specify): **4, 0₂**

Additional Notes

11) Sampler (print name): **James Robinson** Date: **7/11/17**

Internal use: sampling plan (check box) HC [] or client [] FSP# _____

Cooler Temperature **16°C**

Hampton-Clarke Report Of Analysis

Client: TRC Engineering

HC Project #: 7071123

Project: Harrison Sub Residency

Sample ID: PC-1-201707 U

Collection Date: 7/12/2017

Lab#: AC98940-001

Receipt Date: 7/12/2017

Matrix: Aqueous

Alkalinity-Bicarbonate (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg caco3/l	10	390

Alkalinity-Carbonate (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg caco3/l	10	ND

Alkalinity-Total (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg caco3/l	10	390

Chloride (Water) 300.0

Analyte	DF	Units	RL	Result
Chloride	10	mg/l	20	260

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.2	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.2	ND
2,4,5-Trichlorophenol	1	ug/l	2.2	ND
2,4,6-Trichlorophenol	1	ug/l	2.2	ND
2,4-Dichlorophenol	1	ug/l	0.89	ND
2,4-Dimethylphenol	1	ug/l	0.56	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.2	ND
2,6-Dinitrotoluene	1	ug/l	2.2	ND
2-Chloronaphthalene	1	ug/l	2.2	ND
2-Chlorophenol	1	ug/l	2.2	ND
2-Methylnaphthalene	1	ug/l	2.2	ND
2-Methylphenol	1	ug/l	0.56	ND
2-Nitroaniline	1	ug/l	2.2	ND
2-Nitrophenol	1	ug/l	2.2	ND
3&4-Methylphenol	1	ug/l	0.56	ND
3,3'-Dichlorobenzidine	1	ug/l	2.2	ND
3-Nitroaniline	1	ug/l	2.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.2	ND
4-Chloro-3-methylphenol	1	ug/l	2.2	ND
4-Chloroaniline	1	ug/l	0.56	ND
4-Chlorophenyl-phenylether	1	ug/l	2.2	ND
4-Nitroaniline	1	ug/l	2.2	ND
4-Nitrophenol	1	ug/l	2.2	ND
Acenaphthene	1	ug/l	2.2	ND
Acenaphthylene	1	ug/l	2.2	ND
Acetophenone	1	ug/l	2.2	ND
Anthracene	1	ug/l	2.2	ND
Atrazine	1	ug/l	2.2	ND
Benzaldehyde	1	ug/l	2.2	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	2.2	ND

Sample ID: PC-1-201707 U

Lab#: AC98940-001

Matrix: Aqueous

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Benzo[k]fluoranthene	1	ug/l	2.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.56	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.2	ND
Butylbenzylphthalate	1	ug/l	2.2	ND
Caprolactam	1	ug/l	2.2	ND
Carbazole	1	ug/l	2.2	ND
Chrysene	1	ug/l	2.2	ND
Dibenzo[a,h]anthracene	1	ug/l	2.2	ND
Dibenzofuran	1	ug/l	0.56	ND
Diethylphthalate	1	ug/l	2.2	ND
Dimethylphthalate	1	ug/l	2.2	ND
Di-n-butylphthalate	1	ug/l	0.56	ND
Di-n-octylphthalate	1	ug/l	2.2	ND
Fluoranthene	1	ug/l	2.2	ND
Fluorene	1	ug/l	2.2	ND
Hexachlorobenzene	1	ug/l	2.2	ND
Hexachlorobutadiene	1	ug/l	2.2	ND
Hexachlorocyclopentadiene	1	ug/l	2.2	ND
Hexachloroethane	1	ug/l	2.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.2	ND
Isophorone	1	ug/l	2.2	ND
Naphthalene	1	ug/l	0.56	ND
Nitrobenzene	1	ug/l	2.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.56	ND
N-Nitrosodiphenylamine	1	ug/l	2.2	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.2	ND
Phenol	1	ug/l	2.2	ND
Pyrene	1	ug/l	2.2	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14	55.12	50	55	146	110	
Phenol-d5	34.46	100	27	115	34	
Nitrobenzene-d5	39.96	50	51	139	80	
2-Fluorophenol	51.10	100	29	113	51	
2-Fluorobiphenyl	45.51	50	53	129	91	
2,4,6-Tribromophenol	90.94	100	54	149	91	

Sulfate (Water) 300.0

Analyte	DF	Units	RL	Result
Sulfate	10	mg/l	20	120

Sulfide-Total (SM4500-S2F-11)

Analyte	DF	Units	RL	Result
Sulfide (Total)	1	mg/l	2	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND

Sample ID: PC-1-201707 U

Lab#: AC98940-001

Matrix: Aqueous

Collection Date: 7/12/2017

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Acetone	1	ug/l	5.0	ND		
Benzene	1	ug/l	0.50	ND		
Bromochloromethane	1	ug/l	1.0	ND		
Bromodichloromethane	1	ug/l	1.0	ND		
Bromoform	1	ug/l	1.0	ND		
Bromomethane	1	ug/l	1.0	ND		
Carbon disulfide	1	ug/l	1.0	ND		
Carbon tetrachloride	1	ug/l	1.0	ND		
Chlorobenzene	1	ug/l	1.0	ND		
Chloroethane	1	ug/l	1.0	ND		
Chloroform	1	ug/l	1.0	ND		
Chloromethane	1	ug/l	1.0	ND		
cis-1,2-Dichloroethene	1	ug/l	1.0	ND		
cis-1,3-Dichloropropene	1	ug/l	1.0	ND		
Cyclohexane	1	ug/l	1.0	ND		
Dibromochloromethane	1	ug/l	1.0	ND		
Dichlorodifluoromethane	1	ug/l	1.0	ND		
Ethylbenzene	1	ug/l	1.0	ND		
Isopropylbenzene	1	ug/l	1.0	ND		
m&p-Xylenes	1	ug/l	1.0	ND		
Methyl Acetate	1	ug/l	1.0	ND		
Methylcyclohexane	1	ug/l	1.0	ND		
Methylene chloride	1	ug/l	1.0	ND		
Methyl-t-butyl ether	1	ug/l	0.50	ND		
o-Xylene	1	ug/l	1.0	ND		
Styrene	1	ug/l	1.0	ND		
Tetrachloroethene	1	ug/l	1.0	ND		
Toluene	1	ug/l	1.0	ND		
trans-1,2-Dichloroethene	1	ug/l	1.0	ND		
trans-1,3-Dichloropropene	1	ug/l	1.0	ND		
Trichloroethene	1	ug/l	1.0	ND		
Trichlorofluoromethane	1	ug/l	1.0	ND		
Vinyl chloride	1	ug/l	1.0	ND		
Xylenes (Total)	1	ug/l	1.0	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	28.89	30	79	111	96	
Dibromofluoromethane	35.61	30	73	131	119	
Bromofluorobenzene	29.32	30	82	112	98	
1,2-Dichloroethane-d4	35.33	30	78	128	118	

Sample ID: PC-1-201707 F
Lab#: AC98940-002
Matrix: Aqueous

Collection Date: 7/12/2017
Receipt Date: 7/12/2017

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	210
Barium	1	ug/l	50	180
Calcium	1	ug/l	5000	170000
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	1400
Magnesium	1	ug/l	5000	24000
Manganese	1	ug/l	40	1500
Nickel	1	ug/l	50	ND
Potassium	1	ug/l	5000	6300
Silver	1	ug/l	20	ND
Sodium	1	ug/l	5000	160000
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID: PC-FD-201707 U

Lab#: AC98940-003

Matrix: Aqueous

Collection Date: 7/12/2017

Receipt Date: 7/12/2017

Alkalinity-Bicarbonate (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg cacO ₃ /l	10	400

Alkalinity-Carbonate (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg cacO ₃ /l	10	ND

Alkalinity-Total (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg cacO ₃ /l	10	400

Chloride (Water) 300.0

Analyte	DF	Units	RL	Result
Chloride	10	mg/l	20	260

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.2	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.2	ND
2,4,5-Trichlorophenol	1	ug/l	2.2	ND
2,4,6-Trichlorophenol	1	ug/l	2.2	ND
2,4-Dichlorophenol	1	ug/l	0.89	ND
2,4-Dimethylphenol	1	ug/l	0.56	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.2	ND
2,6-Dinitrotoluene	1	ug/l	2.2	ND
2-Chloronaphthalene	1	ug/l	2.2	ND
2-Chlorophenol	1	ug/l	2.2	ND
2-Methylnaphthalene	1	ug/l	2.2	ND
2-Methylphenol	1	ug/l	0.56	ND
2-Nitroaniline	1	ug/l	2.2	ND
2-Nitrophenol	1	ug/l	2.2	ND
3&4-Methylphenol	1	ug/l	0.56	ND
3,3'-Dichlorobenzidine	1	ug/l	2.2	ND
3-Nitroaniline	1	ug/l	2.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.2	ND
4-Chloro-3-methylphenol	1	ug/l	2.2	ND
4-Chloroaniline	1	ug/l	0.56	ND
4-Chlorophenyl-phenylether	1	ug/l	2.2	ND
4-Nitroaniline	1	ug/l	2.2	ND
4-Nitrophenol	1	ug/l	2.2	ND
Acenaphthene	1	ug/l	2.2	ND
Acenaphthylene	1	ug/l	2.2	ND
Acetophenone	1	ug/l	2.2	ND
Anthracene	1	ug/l	2.2	ND
Atrazine	1	ug/l	2.2	ND
Benzaldehyde	1	ug/l	2.2	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	2.2	ND
Benzo[k]fluoranthene	1	ug/l	2.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.56	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.2	ND
Butylbenzylphthalate	1	ug/l	2.2	ND
Caprolactam	1	ug/l	2.2	ND
Carbazole	1	ug/l	2.2	ND

Sample ID: PC-FD-201707 U

Lab#: AC98940-003

Matrix: Aqueous

Collection Date: 7/12/2017

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Chrysene	1	ug/l	2.2	ND
Dibenzo[a,h]anthracene	1	ug/l	2.2	ND
Dibenzofuran	1	ug/l	0.56	ND
Diethylphthalate	1	ug/l	2.2	ND
Dimethylphthalate	1	ug/l	2.2	ND
Di-n-butylphthalate	1	ug/l	0.56	ND
Di-n-octylphthalate	1	ug/l	2.2	ND
Fluoranthene	1	ug/l	2.2	ND
Fluorene	1	ug/l	2.2	ND
Hexachlorobenzene	1	ug/l	2.2	ND
Hexachlorobutadiene	1	ug/l	2.2	ND
Hexachlorocyclopentadiene	1	ug/l	2.2	ND
Hexachloroethane	1	ug/l	2.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.2	ND
Isophorone	1	ug/l	2.2	ND
Naphthalene	1	ug/l	0.56	ND
Nitrobenzene	1	ug/l	2.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.56	ND
N-Nitrosodiphenylamine	1	ug/l	2.2	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.2	ND
Phenol	1	ug/l	2.2	ND
Pyrene	1	ug/l	2.2	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14	53.98	50	55	146	108	
Phenol-d5	28.27	100	27	115	28	
Nitrobenzene-d5	42.66	50	51	139	85	
2-Fluorophenol	42.82	100	29	113	43	
2-Fluorobiphenyl	45.75	50	53	129	91	
2,4,6-Tribromophenol	88.35	100	54	149	88	

Sulfate (Water) 300.0

Analyte	DF	Units	RL	Result
Sulfate	10	mg/l	20	110

Sulfide-Total (SM4500-S2F-11)

Analyte	DF	Units	RL	Result
Sulfide (Total)	1	mg/l	2	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND

Sample ID: PC-FD-201707 U**Collection Date: 7/12/2017****Lab#: AC98940-003****Receipt Date: 7/12/2017****Matrix: Aqueous**

Chlorobenzene	1	ug/l	1.0	ND		
Chloroethane	1	ug/l	1.0	ND		
Chloroform	1	ug/l	1.0	ND		
Chloromethane	1	ug/l	1.0	ND		
cis-1,2-Dichloroethene	1	ug/l	1.0	ND		
cis-1,3-Dichloropropene	1	ug/l	1.0	ND		
Cyclohexane	1	ug/l	1.0	ND		
Dibromochloromethane	1	ug/l	1.0	ND		
Dichlorodifluoromethane	1	ug/l	1.0	ND		
Ethylbenzene	1	ug/l	1.0	ND		
Isopropylbenzene	1	ug/l	1.0	ND		
m&p-Xylenes	1	ug/l	1.0	ND		
Methyl Acetate	1	ug/l	1.0	ND		
Methylcyclohexane	1	ug/l	1.0	ND		
Methylene chloride	1	ug/l	1.0	ND		
Methyl-t-butyl ether	1	ug/l	0.50	ND		
o-Xylene	1	ug/l	1.0	ND		
Styrene	1	ug/l	1.0	ND		
Tetrachloroethene	1	ug/l	1.0	ND		
Toluene	1	ug/l	1.0	ND		
trans-1,2-Dichloroethene	1	ug/l	1.0	ND		
trans-1,3-Dichloropropene	1	ug/l	1.0	ND		
Trichloroethene	1	ug/l	1.0	ND		
Trichlorofluoromethane	1	ug/l	1.0	ND		
Vinyl chloride	1	ug/l	1.0	ND		
Xylenes (Total)	1	ug/l	1.0	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	29.19	30	79	111	97	
Dibromofluoromethane	34.57	30	73	131	115	
Bromofluorobenzene	28.82	30	82	112	96	
1,2-Dichloroethane-d4	35.43	30	78	128	118	

Sample ID: PC-FD-201707 F

Lab#: AC98940-004

Matrix: Aqueous

Collection Date: 7/12/2017

Receipt Date: 7/12/2017

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	1	ug/l	50	170
Calcium	1	ug/l	5000	170000
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	1400
Magnesium	1	ug/l	5000	23000
Manganese	1	ug/l	40	1500
Nickel	1	ug/l	50	ND
Potassium	1	ug/l	5000	6100
Silver	1	ug/l	20	ND
Sodium	1	ug/l	5000	150000
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID: PC-3-201707 U

Lab#: AC98940-005

Matrix: Aqueous

Collection Date: 7/12/2017

Receipt Date: 7/12/2017

Chloride (Water) 300.0

Analyte	DF	Units	RL	Result
Chloride	10	mg/l	20	230

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.2	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.2	ND
2,4,5-Trichlorophenol	1	ug/l	2.2	ND
2,4,6-Trichlorophenol	1	ug/l	2.2	ND
2,4-Dichlorophenol	1	ug/l	0.89	ND
2,4-Dimethylphenol	1	ug/l	0.56	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.2	ND
2,6-Dinitrotoluene	1	ug/l	2.2	ND
2-Chloronaphthalene	1	ug/l	2.2	ND
2-Chlorophenol	1	ug/l	2.2	ND
2-Methylnaphthalene	1	ug/l	2.2	ND
2-Methylphenol	1	ug/l	0.56	ND
2-Nitroaniline	1	ug/l	2.2	ND
2-Nitrophenol	1	ug/l	2.2	ND
3&4-Methylphenol	1	ug/l	0.56	ND
3,3'-Dichlorobenzidine	1	ug/l	2.2	ND
3-Nitroaniline	1	ug/l	2.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.2	ND
4-Chloro-3-methylphenol	1	ug/l	2.2	ND
4-Chloroaniline	1	ug/l	0.56	ND
4-Chlorophenyl-phenylether	1	ug/l	2.2	ND
4-Nitroaniline	1	ug/l	2.2	ND
4-Nitrophenol	1	ug/l	2.2	ND
Acenaphthene	1	ug/l	2.2	ND
Acenaphthylene	1	ug/l	2.2	ND
Acetophenone	1	ug/l	2.2	ND
Anthracene	1	ug/l	2.2	ND
Atrazine	1	ug/l	2.2	ND
Benzaldehyde	1	ug/l	2.2	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	2.2	ND
Benzo[k]fluoranthene	1	ug/l	2.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.56	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.2	ND
Butylbenzylphthalate	1	ug/l	2.2	ND
Caprolactam	1	ug/l	2.2	ND
Carbazole	1	ug/l	2.2	ND
Chrysene	1	ug/l	2.2	ND
Dibenzo[a,h]anthracene	1	ug/l	2.2	ND
Dibenzofuran	1	ug/l	0.56	ND
Diethylphthalate	1	ug/l	2.2	ND
Dimethylphthalate	1	ug/l	2.2	ND
Di-n-butylphthalate	1	ug/l	0.56	ND
Di-n-octylphthalate	1	ug/l	2.2	ND
Fluoranthene	1	ug/l	2.2	ND
Fluorene	1	ug/l	2.2	ND
Hexachlorobenzene	1	ug/l	2.2	ND
Hexachlorobutadiene	1	ug/l	2.2	ND
Hexachlorocyclopentadiene	1	ug/l	2.2	ND
Hexachloroethane	1	ug/l	2.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.2	ND
Isophorone	1	ug/l	2.2	ND
Naphthalene	1	ug/l	0.56	ND
Nitrobenzene	1	ug/l	2.2	ND

Sample ID: PC-3-201707 U

Lab#: AC98940-005

Matrix: Aqueous

Collection Date: 7/12/2017

Receipt Date: 7/12/2017

N-Nitroso-di-n-propylamine	1	ug/l	0.56		ND	
N-Nitrosodiphenylamine	1	ug/l	2.2		ND	
Pentachlorophenol	1	ug/l	11		ND	
Phenanthrene	1	ug/l	2.2		ND	
Phenol	1	ug/l	2.2		ND	
Pyrene	1	ug/l	2.2		ND	
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14	49.78	50	55	146	100	
Phenol-d5	30.64	100	27	115	31	
Nitrobenzene-d5	37.65	50	51	139	75	
2-Fluorophenol	44.78	100	29	113	45	
2-Fluorobiphenyl	41.06	50	53	129	82	
2,4,6-Tribromophenol	80.08	100	54	149	80	

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: PC-3-201707 U
Lab#: AC98940-005
Matrix: Aqueous

Collection Date: 7/12/2017
Receipt Date: 7/12/2017

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	28.37	30	79	111	95	
Dibromofluoromethane	34.85	30	73	131	116	
Bromofluorobenzene	28.46	30	82	112	95	
1,2-Dichloroethane-d4	34.24	30	78	128	114	

Sample ID: PC-3-201707 F
Lab#: AC98940-006
Matrix: Aqueous

Collection Date: 7/12/2017
Receipt Date: 7/12/2017

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	1	ug/l	50	140
Calcium	1	ug/l	5000	72000
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	350
Magnesium	1	ug/l	5000	19000
Manganese	1	ug/l	40	240
Nickel	1	ug/l	50	ND
Potassium	1	ug/l	5000	5600
Silver	1	ug/l	20	ND
Sodium	1	ug/l	5000	81000
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID: TB-2-201707
 Lab#: AC98940-007
 Matrix: Aqueous

Collection Date: 7/12/2017
 Receipt Date: 7/12/2017

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result		
1,1,1-Trichloroethane	1	ug/l	1.0	ND		
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND		
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND		
1,1,2-Trichloroethane	1	ug/l	1.0	ND		
1,1-Dichloroethane	1	ug/l	1.0	ND		
1,1-Dichloroethene	1	ug/l	1.0	ND		
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND		
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND		
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND		
1,2-Dibromoethane	1	ug/l	1.0	ND		
1,2-Dichlorobenzene	1	ug/l	1.0	ND		
1,2-Dichloroethane	1	ug/l	0.50	ND		
1,2-Dichloropropane	1	ug/l	1.0	ND		
1,3-Dichlorobenzene	1	ug/l	1.0	ND		
1,4-Dichlorobenzene	1	ug/l	1.0	ND		
1,4-Dioxane	1	ug/l	50	ND		
2-Butanone	1	ug/l	1.0	ND		
2-Hexanone	1	ug/l	1.0	ND		
4-Methyl-2-pentanone	1	ug/l	1.0	ND		
Acetone	1	ug/l	5.0	ND		
Benzene	1	ug/l	0.50	ND		
Bromochloromethane	1	ug/l	1.0	ND		
Bromodichloromethane	1	ug/l	1.0	ND		
Bromoform	1	ug/l	1.0	ND		
Bromomethane	1	ug/l	1.0	ND		
Carbon disulfide	1	ug/l	1.0	ND		
Carbon tetrachloride	1	ug/l	1.0	ND		
Chlorobenzene	1	ug/l	1.0	ND		
Chloroethane	1	ug/l	1.0	ND		
Chloroform	1	ug/l	1.0	ND		
Chloromethane	1	ug/l	1.0	ND		
cis-1,2-Dichloroethene	1	ug/l	1.0	ND		
cis-1,3-Dichloropropene	1	ug/l	1.0	ND		
Cyclohexane	1	ug/l	1.0	ND		
Dibromochloromethane	1	ug/l	1.0	ND		
Dichlorodifluoromethane	1	ug/l	1.0	ND		
Ethylbenzene	1	ug/l	1.0	ND		
Isopropylbenzene	1	ug/l	1.0	ND		
m&p-Xylenes	1	ug/l	1.0	ND		
Methyl Acetate	1	ug/l	1.0	ND		
Methylcyclohexane	1	ug/l	1.0	ND		
Methylene chloride	1	ug/l	1.0	ND		
Methyl-t-butyl ether	1	ug/l	0.50	ND		
o-Xylene	1	ug/l	1.0	ND		
Styrene	1	ug/l	1.0	ND		
Tetrachloroethene	1	ug/l	1.0	ND		
Toluene	1	ug/l	1.0	ND		
trans-1,2-Dichloroethene	1	ug/l	1.0	ND		
trans-1,3-Dichloropropene	1	ug/l	1.0	ND		
Trichloroethene	1	ug/l	1.0	ND		
Trichlorofluoromethane	1	ug/l	1.0	ND		
Vinyl chloride	1	ug/l	1.0	ND		
Xylenes (Total)	1	ug/l	1.0	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	28.36	30	79	111	95	
Dibromofluoromethane	35.43	30	73	131	118	
Bromofluorobenzene	29.16	30	82	112	97	
1,2-Dichloroethane-d4	34.94	30	78	128	116	

Hampton-Clarke, Inc. (WBE/DBE/SBE)
 175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
 Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
 Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
 Ph (Service Center): 856-780-6057 Fax: 856-780-6056

HC
 HAMPTON-CLARKE
 www.hampton-clark.com 800-426-9992
CHAIN OF CUSTODY RECORD
 A Women-Owned, Disadvantaged, Small Business Enterprise
 NELAC/NU #07071 | PA #68-00463 | NY #1408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Project # (Lab Use Only) **7071123** Page **1** of **2**
3) Reporting Requirements (Please Circle)
 Turnaround Report Type: **Electronic Data Deliv.**
 When Available: Summary Results + QC (Waste)
 1 Business Day (100%)*
 2 Business Days (75%)*
 3 Business Days (50%)*
 4 Business Days (35%)*
 5 Business Days (25%)
 8 Business Days (Stand.)
 Other: Expedited TAT Not Always Available. Please Check with Lab.

1a) Customer: **TRC**
 Address: **1430 Broadway New York, NY 10018**
1b) Email/Cell/Fax/Pr: **Rmyers@hsclohas.com**
1c) Send Invoice to: " "
1d) Send Report to: " "

2a) Project: **West Harrison Sub Residency**
2b) Project Mgr: **Kirsten Myers**
2c) Project Location (City/State): **Harrison, NY**
2d) Quote/PO # (if applicable): _____

Report Type: **NY Hazmat**
 Excel Reg. **NY PA**
 EnviroData
 EQUIS: 4File EZ
 NYDEC
 Region 2 or 5
 Other: _____

FOR LAB USE ONLY **Check if Contingent**

Batch # **ACS8905**

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Waste Water, S - Soil, SL - Sludge, OL - Oil, A - Air, OT - Other (please specify under item 9, Comments)

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample		Composite (C)	Grab (G)	7) Analysis (specify methods & parameter lists)							8) # of Bottles							9) Comments						
			Date	Time			VO	TA	Mer	Chloride	% Solids	Hardness	None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:							
001002	LMW-2-201707	GW	7/10	1225	X	X	VO	TA	Mer	Chloride	% Solids	Hardness	3														
003004	LMW-4-201707	GW	7/10	1410	X	X	VO	TA	Mer	Chloride	% Solids	Hardness	3														
005006	PC-2-201707	GW	7/10	1530	X	X	VO	TA	Mer	Chloride	% Solids	Hardness	3														
007008	SW-4-201707	SW	7/11	1015	X	X	VO	TA	Mer	Chloride	% Solids	Hardness	3														
008010	SD-4-201707	SED	7/11	1015	X	X	VO	TA	Mer	Chloride	% Solids	Hardness	3														
009012	SW-2-201707	SW	7/11	1110	X	X	VO	TA	Mer	Chloride	% Solids	Hardness	3														
010014	SD-2-201707	SED	7/11	1115	X	X	VO	TA	Mer	Chloride	% Solids	Hardness	3														
011016	SW-1-201707	SW	7/11	1210	X	X	VO	TA	Mer	Chloride	% Solids	Hardness	3														
012018	SD-1-201707	SED	7/11	1215	X	X	VO	TA	Mer	Chloride	% Solids	Hardness	3														
013020	TR-1-201707	TR			X	X	VO	TA	Mer	Chloride	% Solids	Hardness	3														

10) Relinquished by: [Signature] **Accepted by:** [Signature] **Date:** 7/11/17 **Time:** 14:30

11) Sampler (print name): James Robinson **Date:** 7/11/17

Additional Notes: Please Batch all Harrison Sub Res Samples on site lab report

Comments, Notes, Special Requirements, HAZARDS:
 Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
 BN or BNA (8270D SIM)
 VOC (8260C SIM or 8011)
 SPLP (BN, BNA, Metals)
 1,4 Dioxane
 Check if applicable:
 Project-Specific Reporting Limits
 High Contaminant Concentrations
 NJ LSRP Project (also check boxes above/right)
 Please note NUMBERED items. If not completed your analytical work may be delayed.
 A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.
 Internal use: sampling plan (check box) HC [] or client [] FSP#

Cooler Temperature: **2.0, 2.1, 3.1, 2.4**

Hampton-Clarke, Inc. (WBE/DBE/SBE)
 175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
 Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
 Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
 Ph (Service Center): 856-780-6057 Fax: 856-780-6056



Project # (Lab Use Only) **707123** Page **2** of **2**
3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NU Hazsite
1 Business Day (100%)*	Results + QC (Waste)	Excel Reg. NU <input checked="" type="checkbox"/> NY PA
2 Business Days (75%)*	Reduced:	EnviroData
3 Business Days (50%)*	<input type="checkbox"/> NJ <input type="checkbox"/> NY	EQUIS:
4 Business Days (35%)*	<input type="checkbox"/> PA <input type="checkbox"/> Other	<input type="checkbox"/> 4File <input type="checkbox"/> EZ
5 Business Days (25%)	NY Full / NY ASP Carb	<input checked="" type="checkbox"/> NYDEC
8 Business Days (Stand.)	NY ASP Carb	<input type="checkbox"/> Region 2 or 5
Other:		Other:

Customer Information

1a) Customer: _____
 Address: _____
 1b) Email/Cell/Fax/Ph: **SEE Pg 1**
 1c) Send Invoice to: _____
 1d) Send Report to: _____

Project Information

2a) Project: _____
 2b) Project Mgr: **See Pg 1**
 2c) Project Location (City/State): _____
 2d) Quote/PO # (if Applicable): _____

FOR LAB USE ONLY

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Waste Water, S - Soil, SL - Sludge, OL - Oil, A - Air, OT - Other (please specify under Item 9, Comments)

Batch # **Ac98925**

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample		Composite (C) Grab (G)	7) Analysis (specify methods & parameter lists)	8) # of Bottles						9) Comments	
			Date	Time			None	MeOH	En Core	NaOH	HCl	H2SO4		HNO3
07/018	MW-11-20107	GW	7/11	1415	X	VO BTEX + MTBE Fe, Mn (Field Filtr) Alkalinity + Bicarb Alk NO₃ + Sulfate	4				3	1	1	Zn Acetate

10) Relinquished by: _____ **Accepted by:** _____

Date: **7/11/17** **Time:** **14:30**

11) Sampler (print name): **James Robinson** **Date:** **7/11/17**

Additional Notes

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
 BN or BNA (8270D SIM)
 VOC (8260C SIM or 8011)
 SPLP (BN, BNA, Metals)
 1,4 Dioxane

Check if applicable:
 Project-Specific Reporting Limits
 High Contaminant Concentrations
 NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:
 NUDEP GWQS
 NUDEP SRS
 NUDEP SPLP
 Other (specify): **4, OR**

Cooler Temperature **68**

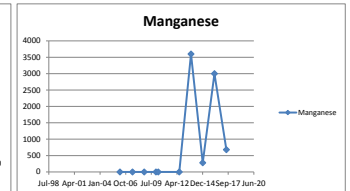
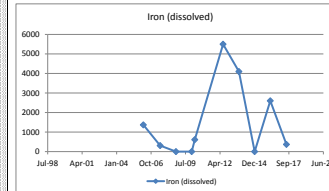
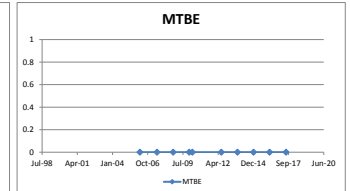
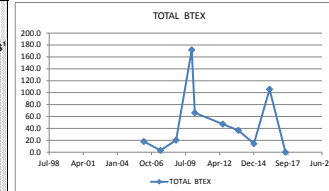
Internal use: sampling plan (check box) HC or client FSP# _____

Please note NUMBERED items. If not completed your analytical work may be delayed.
 A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

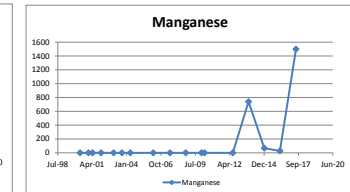
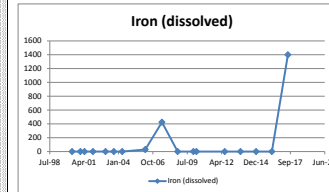
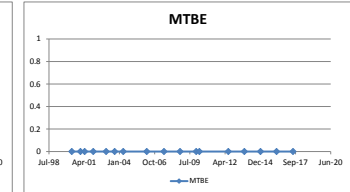
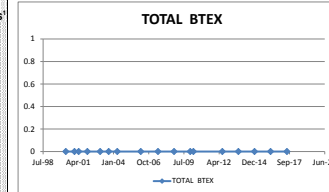
APPENDIX D
PARAMETER TREND ANALYSIS

APPENDIX D
 MONITORING WELL HISTORICAL DATA SUMMARY
 May 2000 to July 2017
 Harrison Sub-Residency Spill Site

WELL ID: MW 11	BASELINE														NYSDEC CLASS GA STANDARDS		
	(May 2000)	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005/ Mar 2006)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)		(Jan 2015)	(April 2016)
Volatile Organics (ug/L)																	
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Benzene	ND	ND	0.88	0.88	ND	1.9	2.7	ND	0.82	ND	ND	ND	ND	ND	ND	ND	1
Toluene	1 J	ND	2.9	ND	ND	ND	ND	24	1.2	ND	ND	ND	ND	ND	ND	ND	5
Ethylbenzene	10	3J	13	130	53	32	24	13	93	ND	5	5	5	5	5	5	5
m,p-Xylene	7	ND	3.8	35	12	11	6.2	1.4	9.9	ND	5	5	5	5	5	5	5
O-Xylene	ND	ND	1.6	3.1	1.2	2.3	2.4	ND	2.1	ND	5	5	5	5	5	5	5
Xylenes (total)	7	ND	5.4	38.1	13.2	13.3	8.6	1.4	12	ND	5	5	5	5	5	5	5
TOTAL BTEX	18	3	20.28	171.88	66.2	47.2	36.5	14.4	105.82	ND	NS	NS	NS	NS	NS	NS	NS
Semi-volatile Org.(ug/L)																	
2-Methylnaphthalene	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Naphthalene	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Metals (ug/L)																	
Chloride	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	250,000
Sodium	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20,000
Iron (total)	174,000	23,400	*	*	*	*	*	*	*	*	*	*	*	*	*	*	300/500
Iron (dissolved)	1370	307	ND	ND	610	5500	4100	ND	2600	370	3000	680	25	25	25	25	300/500
Manganese	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25
Lead	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25
Other																	
Nitrogen, Nitrate (ug/L)	0.98	240	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
Sulfate (ug/L)	57,000	15,000	19	9	14,000	3,300	3,500	20,000	8,000	8,500	250,000	NS	NS	NS	NS	NS	NS
TOC (ug/L)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Petroleum Hydrocarbons (ug/L)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Carbon Dioxide (ug/L)	230,000	140,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Dissolved Oxygen (mg/L)	3.70	5.45	3.30	3.01	16.25	5.03	8.30	8.70	3.02	1.13	NS	NS	NS	NS	NS	NS	NS

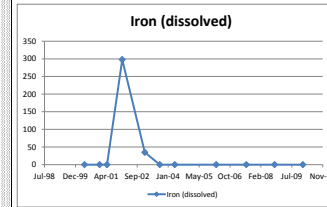
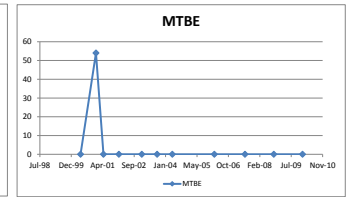
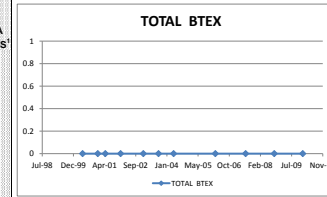


WELL ID: PC-1	BASELINE														NYSDEC CLASS GA STANDARDS		
	(May 2000)	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005/ Mar 2006)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)		(Jan 2015)	(April 2016)
Volatile Organics (ug/L)																	
MTBE	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10
Benzene	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1
Toluene	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5
Ethylbenzene	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5
m,p-Xylene	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5
O-Xylene	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5
Xylenes (total)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5
TOTAL BTEX	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Semi-volatile Org.(ug/L)																	
2-Methylnaphthalene	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Naphthalene	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Metals (ug/L)																	
Chloride	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	250,000
Sodium	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20,000
Iron (total)	599	952	*	*	*	*	*	*	*	*	*	*	*	*	*	*	300/500
Iron (dissolved)	*	*	28.6	425	ND	ND	ND	ND	ND	ND	1400	1500	25	25	25	25	300/500
Manganese	*	*	*	*	*	*	*	*	*	*	740	67	28	1500	25	25	25
Lead	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25
Other																	
Nitrogen, Nitrate (ug/L)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Sulfate (ug/L)	*	*	5000	37,000	34	96	13,000	1,400	2,100	24,000	12,000	120,000	250,000	NS	NS	NS	NS
TOC (ug/L)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Petroleum Hydrocarbons (ug/L)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Carbon Dioxide (ug/L)	10,000	35,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Dissolved Oxygen (mg/L)	2.72	3.02	4.1	1.92	16.57	5.13	3.11	4.3	0.13	0	NS	NS	NS	NS	NS	NS	NS

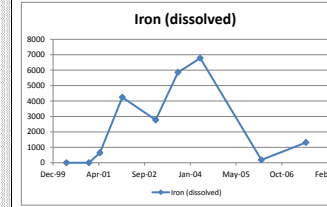
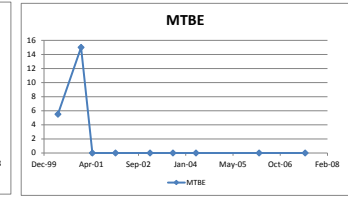
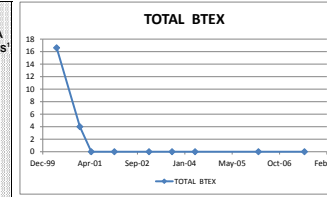


APPENDIX D
MONITORING WELL HISTORICAL DATA SUMMARY
 May 2000 to July 2017
 Harrison Sub-Residency Spill Site

WELL ID: MW 1	BASELINE																		NYSDEC CLASS GA STANDARDS
	(May 2000)	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005) (Mar 2006)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)		
	May-00	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-11	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17		
Volatiles Organics (ug/L)	ND	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
m,p-Xylene	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
O-Xylene	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
TOTAL BTEX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	
Semi-volatile Org.(ug/L)																		NS	
2-Methylnaphthalene			ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS	
Naphthalene			ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS	
Metals (ug/L)																		250,000	
Chloride	7,000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	20,000	
Sodium	27,000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	300,000	
Iron (total)	ND	•	207	3,760	264	•	•	5810	4840	•	•	•	•	•	•	•	•	300,000	
Iron (dissolved)	ND	•	ND	298	35	85.1 B	56.5 B	58 B	96.1 B	ND	ND	•	•	•	•	•	•	300,000	
Manganese	ND	•	•	•	•	•	•	•	•	•	•	•	•	3600	•	•	•	25	
Lead	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	25	
Other																		NS	
Nitrogen, Nitrate (ug/L)	4,100	•	11,000	3,000	7,700	6,200	6,800	6,200	6,900	2,500	2,700	•	•	•	•	•	•	NS	
Sulfate (ug/L)	15,000	•	13,000	17,000	15,000	17,000	14,000	17,000	13,000	17,000	21,000	•	•	•	•	•	•	250,000	
TOC (ug/L)	4,000	•	9,000	8,000	ND	•	•	•	•	•	•	•	•	•	•	•	•	NS	
Petroleum Hydrocarbons (ug/L)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS	
Carbon Dioxide (ug/L)	97,400	•	59,000	42,000	30,000	16,000	45,000 H	56,000	73,000	•	•	•	•	•	•	•	•	NS	
Dissolved Oxygen (mg/L)	3.6	1.97	6.42	8.3	2.5	3.89	4.2	5.9	7.36	5.10	3.45	•	•	•	•	•	•	NS	

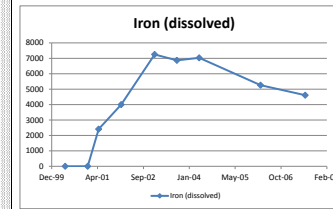
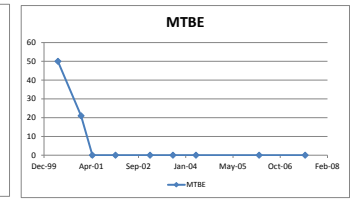
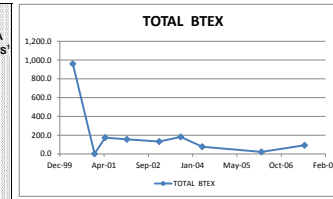


WELL ID: MW 2	BASELINE																		NYSDEC CLASS GA STANDARDS
	(May 2000)	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005) (Mar 2006)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)		
	May-00	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-11	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17		
Volatiles Organics (ug/L)	5.5	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	
MTBE	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	
Benzene	8.0	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
Toluene	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
Ethylbenzene	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
m,p-Xylene	3.8	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
O-Xylene	3.8	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
Xylenes (total)	3.8	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	
TOTAL BTEX	16.6	4	ND	ND	ND	ND	ND	ND	ND	•	•	•	•	•	•	•	•	NS	
Semi-volatile Org.(ug/L)																		NS	
2-Methylnaphthalene			ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS	
Naphthalene			ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS	
Metals (ug/L)																		250,000	
Chloride	10,000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	20,000	
Sodium	22,000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	300,000	
Iron (total)	•	•	6,330	75,600	10,400	•	•	3780	12,800	•	•	•	•	•	•	•	•	300,000	
Iron (dissolved)	•	•	646	4,240	2,770	5,860	6,780	187	1,310	•	•	•	•	•	•	•	•	300,000	
Manganese	•	•	•	•	•	•	•	•	•	•	•	•	•	3600	•	•	•	25	
Lead	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	25	
Other																		NS	
Nitrogen, Nitrate (ug/L)	•	•	ND	ND	81	58	70	230	87	•	•	•	•	•	•	•	•	NS	
Sulfate (ug/L)	•	•	14,000	150,000	25,000	15,000	15,000	26,000	9,700	•	•	•	•	•	•	•	•	NS	
TOC (ug/L)	•	•	17,000	18,000	ND	•	•	•	•	•	•	•	•	•	•	•	•	250,000	
Petroleum Hydrocarbons (ug/L)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS	
Carbon Dioxide (ug/L)	•	•	49,000	40,000	23,000	33,000	43,000 H	46,000	51,000	•	•	•	•	•	•	•	•	NS	
Dissolved Oxygen (mg/L)	2.6	3.08	4.23	3.6	1.5	1.07	1.3	1.7	3.03	•	•	•	•	•	•	•	•	NS	

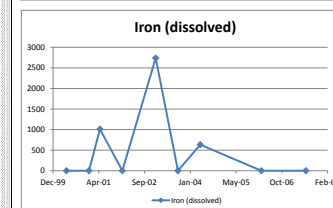
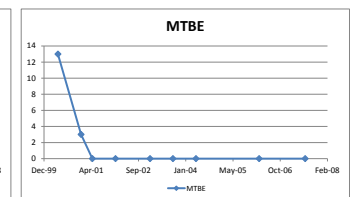
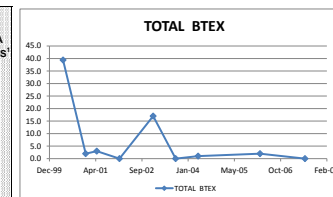


APPENDIX D
MONITORING WELL HISTORICAL DATA SUMMARY
 May 2000 to July 2017
 Harrison Sub-Residency Spill Site

WELL ID: MW 3	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Mar 2006)	1-Jul	Oct-08	Jan-10	Apr-10	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
	May-00	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-10	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE	50	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Benzene	64	ND	2	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	21	ND	2	3	ND	ND	ND	ND	ND	1J	ND	ND	ND	ND	ND	ND	ND	5
Ethylbenzene	350	ND	ND	40	82	120	61	ND	82	ND	ND	ND	ND	ND	ND	ND	ND	5
m,p-Xylene	460	-	-	-	44	56	15	20	10	ND	ND	ND	ND	ND	ND	ND	ND	5
O-Xylene	85	-	-	-	6	5	1J	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Xylenes (total)	525	2	170	110	50	61	16	22	10	ND	ND	ND	ND	ND	ND	ND	ND	5
TOTAL BTEX	960.0	2	174	156	132	181	77	22	93	ND	ND	ND	ND	ND	ND	ND	ND	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene	+	ND	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	NS
Naphthalene	160	4J	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	NS
Metals (ug/L)																		
Chloride	24,000	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	250,000
Sodium	43,000	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20,000
Iron (total)	18,000	+	8,880	35,100	14,400	+	+	20,800	17,200	+	+	+	+	+	+	+	+	300,000
Iron (dissolved)	ND	+	2,410	4,000	7,250	6,870	7,030	5,260	4,610	+	+	+	+	+	+	+	+	300,000
Manganese	8	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Lead	8	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Other																		
Nitrogen, Nitrate (ug/L)	ND	+	ND	ND	ND	ND	ND	32	ND	+	+	+	+	+	+	+	+	NS
Sulfate (ug/L)	ND	+	18,000	24,000	27,000	6,500	7,300	14,000	ND	+	+	+	+	+	+	+	+	NS
TOC (ug/L)	10,000	+	27,000	70,000	6,300	+	+	+	+	+	+	+	+	+	+	+	+	250,000
Petroleum Hydrocarbons (ug/L)	9,200	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	NS
Carbon Dioxide (ug/L)	105,000	+	48,000	70,000	45,000	84,000	51,000 H	61,000	65,000	+	+	+	+	+	+	+	+	NS
Dissolved Oxygen (mg/L)	2.1	2.93	1.89	3.0	1.1	1.36	1.04	1.26	1.33	+	+	+	+	+	+	+	+	NS

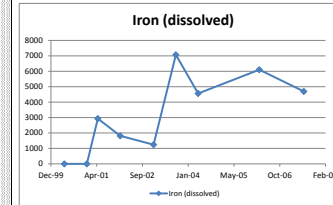
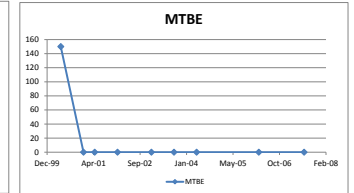
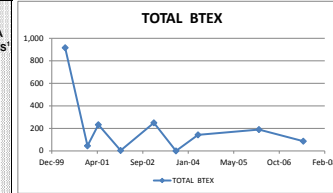


WELL ID: MW 4	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Mar 2006)	1-Jul	Oct-08	Jan-10	Apr-10	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
	May-00	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-10	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE	13	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Benzene	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Ethylbenzene	22	2	2	ND	16	ND	1J	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
m,p-Xylene	+	-	-	-	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
O-Xylene	+	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Xylenes (total)	13	ND	1	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
TOTAL BTEX	39.4	2	3	ND	17	ND	1	2	ND	+	+	+	+	+	+	+	+	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene			ND	+	+	+	+	+	+	+	+	+	+	+	+	+	+	NS
Naphthalene			ND	+	+	+	+	+	+	+	+	+	+	+	+	+	+	NS
Metals (ug/L)																		
Chloride	8,000	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	250,000
Sodium	22,000	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20,000
Iron (total)	+	+	1,360	1,330	3,480	+	+	307	14,600	+	+	+	+	+	+	+	+	300,000
Iron (dissolved)	+	+	1,010	ND	2,740	61.0 B	635	55.1 B	199B	+	+	+	+	+	+	+	+	300,000
Manganese	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Lead	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Other																		
Nitrogen, Nitrate (ug/L)	+	+	ND	3,200	ND	2,400	530	450	960	+	+	+	+	+	+	+	+	NS
Sulfate (ug/L)	+	+	15,000	22,000	21,000	18,000	13,000	13,000	13,000	+	+	+	+	+	+	+	+	NS
TOC (ug/L)	+	+	14,000	13,000	44,000	+	+	+	+	+	+	+	+	+	+	+	+	250,000
Petroleum Hydrocarbons (ug/L)	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	NS
Carbon Dioxide (ug/L)	+	+	55,000	40,000	55,000	21,000	65,000 H	98,000	91,000	+	+	+	+	+	+	+	+	NS
Dissolved Oxygen (mg/L)	3.5	2.35	4.29	3.9	0.82	1.42	2	1.6	2.97	+	+	+	+	+	+	+	+	NS

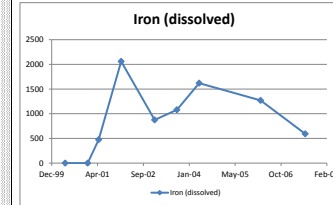
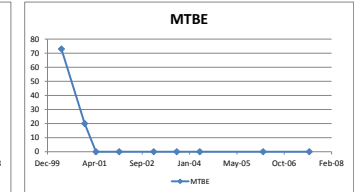
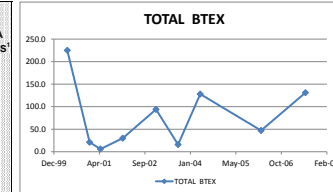


APPENDIX D
MONITORING WELL HISTORICAL DATA SUMMARY
 May 2000 to July 2017
 Harrison Sub-Residency Spill Site

WELL ID: MW 5	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)							(Mar 2006)	1-Jul									
	May-00	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-11	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE	150	ND	ND	ND	ND	ND	ND	ND	ND	*	*	*	*	*	*	*	*	10
Benzene	14	ND	1	ND	ND	ND	ND	ND	ND	*	*	*	*	*	*	*	*	1
Toluene	32	2	2	ND	2	ND	ND	1J	ND	*	*	*	*	*	*	*	*	5
Ethylbenzene	410	ND	ND	ND	150	ND	99	140	75	*	*	*	*	*	*	*	*	5
m,p-Xylene	*	-	-	-	93	ND	42	46	12	*	*	*	*	*	*	*	*	5
O-Xylene	*	-	-	-	5	ND	2J	3J	ND	*	*	*	*	*	*	*	*	5
Xylenes (total)	460	43	230	4	98	ND	44	46	12	*	*	*	*	*	*	*	*	5
TOTAL BTEX	916	45	233	4	250	ND	143	190	87	*	*	*	*	*	*	*	*	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene			10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Naphthalene			ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Metals (ug/L)																		
Chloride	60,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	250,000
Sodium	32,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20,000
Iron (total)	*	*	9,630	3,910	4,500	*	*	9770	9,830	*	*	*	*	*	*	*	*	300/500
Iron (dissolved)	*	*	2,930	1,820	1,240	7,070	4,560	6,100	4,690	*	*	*	*	*	*	*	*	300/500
Manganese	*	*	*	*	*	*	*	*	*	*	*	*	*	3600	280	3000	680	25
Lead	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25
Other																		
Nitrogen, Nitrate (ug/L)	*	*	ND	620	210	ND	ND	220	29	*	*	*	*	*	*	*	*	NS
Sulfate (ug/L)	*	*	17,000	12,000	16,000	42,000	8,500	ND	ND	*	*	*	*	*	*	*	*	250,000
TOC (ug/L)	*	*	23,000	14,000	12,000	*	*	*	*	*	*	*	*	*	*	*	*	NS
Petroleum Hydrocarbons (ug/L)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Carbon Dioxide (ug/L)	*	*	68,000	12,000	28,000	100,000	73,000 H	74,000	ND	*	*	*	*	*	*	*	*	NS
Dissolved Oxygen (mg/L)	3.4	3.09	6.12	9.0	1.6	1.19	1.73	1.23	1.52	*	*	*	*	*	*	*	*	NS

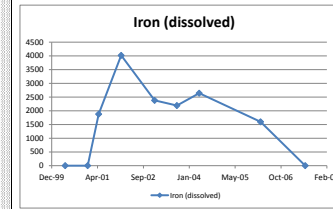
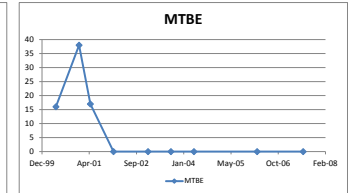
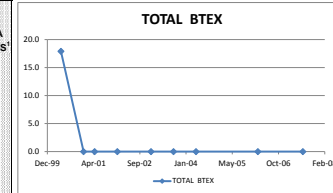


WELL ID: MW 6	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)							(Mar 2006)	1-Jul									
	May-00	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-11	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE	73	20	ND	ND	ND	ND	ND	ND	ND	*	*	*	*	*	*	*	*	10
Benzene	7.9	ND	ND	ND	ND	ND	ND	ND	ND	*	*	*	*	*	*	*	*	1
Toluene	7	ND	ND	ND	ND	ND	ND	ND	ND	*	*	*	*	*	*	*	*	5
Ethylbenzene	98	ND	ND	3	61	ND	88	16	100	*	*	*	*	*	*	*	*	5
m,p-Xylene	*	-	-	-	30	14	37	27	28	*	*	*	*	*	*	*	*	5
O-Xylene	*	-	-	-	2	1	3J	4J	3J	*	*	*	*	*	*	*	*	5
Xylenes (total)	112	21	6	27	33	16	40	31	31	*	*	*	*	*	*	*	*	5
TOTAL BTEX	224.9	21	6	30	94	16	128	47	131	*	*	*	*	*	*	*	*	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene			ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Naphthalene			ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Metals (ug/L)																		
Chloride	40,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	250,000
Sodium	33,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20,000
Iron (total)	*	*	1,720	2,410	2,750	*	*	4610	5,630	*	*	*	*	*	*	*	*	300/500
Iron (dissolved)	*	*	475	2,060	874	1,080	1,620	1,270	593	*	*	*	*	*	*	*	*	300/500
Manganese	*	*	*	*	*	*	*	*	*	*	*	*	*	3600	280	3000	680	25
Lead	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25
Other																		
Nitrogen, Nitrate (ug/L)	*	*	ND	ND	ND	ND	ND	ND	ND	*	*	*	*	*	*	*	*	NS
Sulfate (ug/L)	*	*	17,000	19,000	22,000	10,000	7,400	7,200	ND	*	*	*	*	*	*	*	*	250,000
TOC (ug/L)	*	*	17,000	25,000	ND	*	*	*	*	*	*	*	*	*	*	*	*	NS
Petroleum Hydrocarbons (ug/L)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Carbon Dioxide (ug/L)	*	*	60,000	32,000	27,000	33,000	48,000	45,000	49,000	*	*	*	*	*	*	*	*	NS
Dissolved Oxygen (mg/L)	3.1	6.05	4.1	3.5	0.89	1.41	2.9	3.3	1.57	*	*	*	*	*	*	*	*	NS

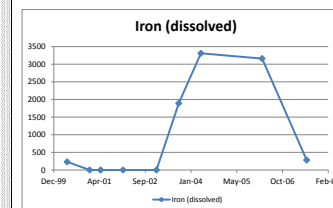
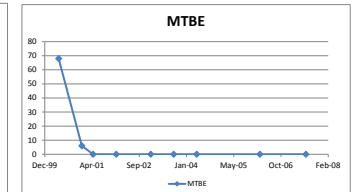
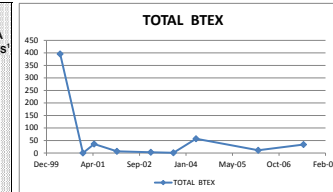


APPENDIX D
MONITORING WELL HISTORICAL DATA SUMMARY
 May 2000 to July 2017
 Harrison Sub-Residency Spill Site

WELL ID: MW 7	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Mar 2006)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	
	May-00	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-11	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE	16	38	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Benzene	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Ethylbenzene	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
m,p-Xylene	*	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
O-Xylene	*	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
Xylenes (total)	4.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5*
TOTAL BTEX	17.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene			ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Naphthalene			ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Metals (ug/L)																		
Chloride	40,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	250,000
Sodium	35,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20,000
Iron (total)	*	*	2,700	30,000	3,080	*	*	3960	18,000	*	*	*	*	*	*	*	*	300/500*
Iron (dissolved)	*	*	1,880	4,020	2,380	2,190	2,640	1,600	1658	*	*	*	*	3600	280	3000	680	300/500*
Manganese	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25
Lead	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25
Other																		
Nitrogen, Nitrate (ug/L)	*	*	ND	ND*	150	ND	160	330	ND	*	*	*	*	*	*	*	*	NS
Sulfate (ug/L)	*	*	15,000	38,000	20,000	8,200	13,000	11,000	7,400	*	*	*	*	*	*	*	*	250,000
TOC (ug/L)	*	*	16,000	21,000	11,000	*	*	*	*	*	*	*	*	*	*	*	*	NS
Petroleum Hydrocarbons (ug/L)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Carbon Dioxide (ug/L)	*	*	78,000	35,000	37,000	27,000	42,000	63,000	41,000	*	*	*	*	*	*	*	*	NS
Dissolved Oxygen (mg/L)	3.2	3.12	4.43	3.4	1.0	2.2	1.8	2.0	2.66	*	*	*	*	*	*	*	*	NS

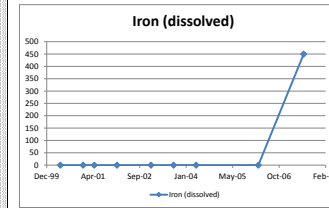
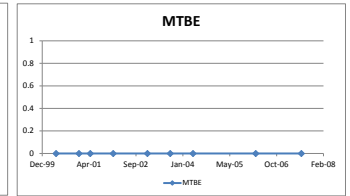
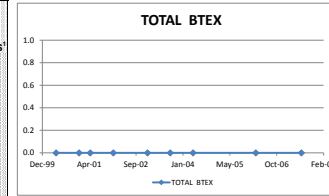


WELL ID: MW 8	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Mar 2006)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	
	May-00	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-11	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE	68	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Benzene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	26	ND	2	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Ethylbenzene	60	ND	ND	ND	2	1	41	2J	27	*	*	*	*	*	*	*	*	5
m,p-Xylene	160	-	-	-	1	ND	12	7	5	*	*	*	*	*	*	*	*	5*
O-Xylene	40	-	-	-	ND	ND	2 J	2J	2J	*	*	*	*	*	*	*	*	5*
Xylenes (total)	200	ND	24	7	1	ND	14	9	7	*	*	*	*	*	*	*	*	5*
TOTAL BTEX	396	ND	36	7	3	1	57	11	34	*	*	*	*	*	*	*	*	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene	*		ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Naphthalene	34		ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Metals (ug/L)																		
Chloride	5,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	250,000
Sodium	63,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20,000
Iron (total)	8,600	*	545	4,370	3,320	*	*	7160	4,070	*	*	*	*	*	*	*	*	300/500*
Iron (dissolved)	230	*	ND	48.7 B	ND	1,890	3,310	3,160	282	*	*	*	*	3600	280	3000	680	300/500*
Manganese	ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25
Lead	ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25
Other																		
Nitrogen, Nitrate (ug/L)	33	*	ND	ND*	190	ND	ND	120	28	*	*	*	*	*	*	*	*	NS
Sulfate (ug/L)	ND	*	31,000	ND	ND	ND	3,800	ND	ND	*	*	*	*	*	*	*	*	250,000
TOC (ug/L)	12,000	*	21,000	25,000	ND	*	*	*	*	*	*	*	*	*	*	*	*	NS
Petroleum Hydrocarbons (ug/L)	7,600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Carbon Dioxide (ug/L)	264,000	*	37,000	22,000	19,000	30,000	56,000	55,000	42,000	*	*	*	*	*	*	*	*	NS
Dissolved Oxygen (mg/L)	1.5	6.3	4.6	4.5	0.89	0.88	2.18	3.13	1.96	*	*	*	*	*	*	*	*	NS

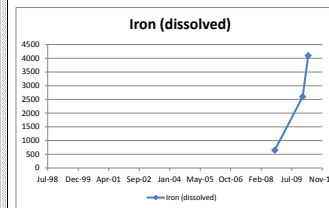
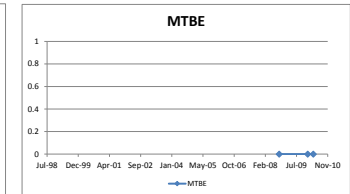
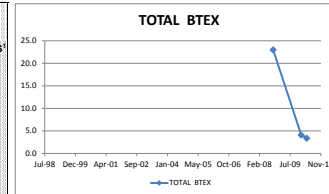


APPENDIX D
MONITORING WELL HISTORICAL DATA SUMMARY
 May 2000 to July 2017
 Harrison Sub-Residency Spill Site

WELL ID: MW 9	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005) (Mar 2006)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-10	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
m,p-Xylene	*	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
O-Xylene	*	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
TOTAL BTEX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene			2 J	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Napthalene			ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Metals (ug/L)																		
Chloride	260,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	250,000
Sodium	160,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20,000
Iron (total)	*	*	4,570	7,870	12,600	*	*	232	16,000	*	*	*	*	*	*	*	*	300/500
Iron (dissolved)	*	*	ND	ND	ND	32.2 B	ND	44.9 B	450	*	*	*	*	*	*	*	*	300/500
Manganese	*	*	*	*	*	*	*	*	*	*	*	*	*	3600	280	3000	680	300/500
Lead	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25
Other																		
Nitrogen, Nitrate (ug/L)	*	*	ND	690	340	730	870	770	1,100	*	*	*	*	*	*	*	*	NS
Sulfate (ug/L)	*	*	21,000	23,000	19,000	12,000	12,000	17,000	19,000	*	*	*	*	*	*	*	*	250,000
TOC (ug/L)	*	*	18,000	15,000	9,000	*	*	*	*	*	*	*	*	*	*	*	*	NS
Petroleum Hydrocarbons (ug/L)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Carbon Dioxide (ug/L)	*	*	ND	*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Dissolved Oxygen (mg/L)	3.3	7.5	5.49	12.3	6.30	3.65	7.60	8.20	6.65	*	*	*	*	*	*	*	*	NS

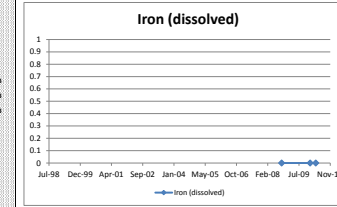
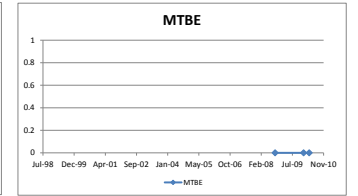
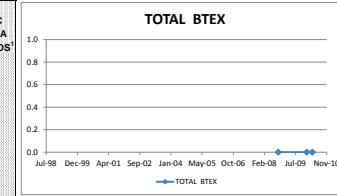


WELL ID: MW 12	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005) (Mar 2006)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-10	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE										ND	ND	ND	*	*	*	*	*	10
Benzene										ND	ND	ND	*	*	*	*	*	1
Toluene										ND	ND	ND	*	*	*	*	*	5
Ethylbenzene										23	4.1	3.4	*	*	*	*	*	5
m,p-Xylene										ND	ND	ND	*	*	*	*	*	5
O-Xylene										ND	ND	ND	*	*	*	*	*	5
Xylenes (total)										ND	ND	ND	*	*	*	*	*	5
TOTAL BTEX										23	4.1	3.4	*	*	*	*	*	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene										*	*	*	*	*	*	*	*	NS
Napthalene										*	*	*	*	*	*	*	*	NS
Metals (ug/L)																		
Chloride										*	*	*	*	*	*	*	*	250,000
Sodium										*	*	*	*	*	*	*	*	20,000
Iron (total)										*	*	*	*	*	*	*	*	300/500
Iron (dissolved)										650	2600	4100	*	*	*	*	*	300/500
Manganese								*	*	*	*	*	*	3600	280	3000	680	300/500
Lead								*	*	*	*	*	*	*	*	*	*	25
Other																		
Nitrogen, Nitrate (ug/L)										ND	0.35	ND	*	*	*	*	*	NS
Sulfate (ug/L)										5.6	19.0	13,000	*	*	*	*	*	250,000
TOC (ug/L)										*	*	*	*	*	*	*	*	NS
Petroleum Hydrocarbons (ug/L)										*	*	*	*	*	*	*	*	NS
Carbon Dioxide (ug/L)										*	*	*	*	*	*	*	*	NS
Dissolved Oxygen (mg/L)										1.10	2.61	4.51	*	*	*	*	*	NS

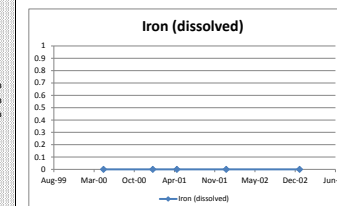
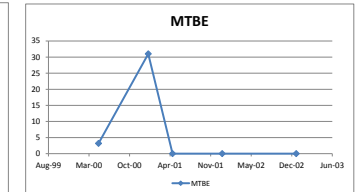
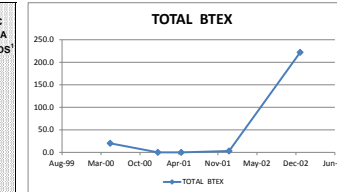


APPENDIX D
MONITORING WELL HISTORICAL DATA SUMMARY
 May 2000 to July 2017
 Harrison Sub-Residency Spill Site

WELL ID: MW 13	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005) (Mar 2006)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Mar 2006)	1-Jul	Oct-08	Jan-10	Apr-10	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE																		10
Benzene																		1
Toluene																		5
Ethylbenzene																		5
m,p-Xylene																		5 ²
O-Xylene																		5 ²
Xylenes (total)																		5 ²
TOTAL BTEX																		NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene																		NS
Naphthalene																		NS
Metals (ug/L)																		
Chloride																		250,000
Sodium																		20,000
Iron (total)																		300/500 ²
Iron (dissolved)																		300/500 ²
Manganese																		300/500 ²
Lead																		25
Other																		
Nitrogen, Nitrate (ug/L)										0.46	1.5	1300						NS
Sulfate (ug/L)										13	23	25,000						250,000
TOC (ug/L)																		NS
Petroleum Hydrocarbons (ug/L)																		NS
Carbon Dioxide (ug/L)																		NS
Dissolved Oxygen (mg/L)										1.80	5.87	5.87						NS

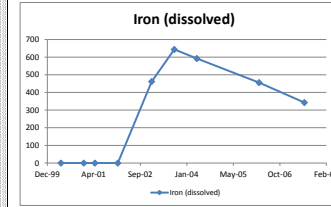
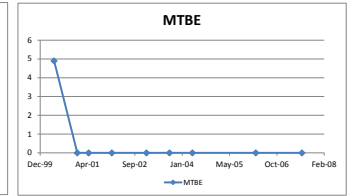
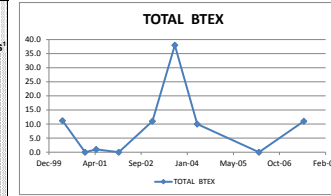


WELL ID: SP 1	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005) (Mar 2006)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Mar 2006)	1-Jul	Oct-08	Jan-10	Apr-10	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE	3.2	31	ND	ND	ND	*	*	*	*	*	*	*	*	*	*	*	*	10
Benzene	1.4	ND	ND	ND	ND	*	*	*	*	*	*	*	*	*	*	*	*	1
Toluene	3.7	ND	ND	ND	60	*	*	*	*	*	*	*	*	*	*	*	*	5
Ethylbenzene	4.0	ND	ND	2	22	*	*	*	*	*	*	*	*	*	*	*	*	5
m,p-Xylene	8.1	-	-	-	100	*	*	*	*	*	*	*	*	*	*	*	*	5 ²
O-Xylene	2.9	-	-	-	42	*	*	*	*	*	*	*	*	*	*	*	*	5 ²
Xylenes (total)	11.0	ND	ND	1	140	*	*	*	*	*	*	*	*	*	*	*	*	5 ²
TOTAL BTEX	20.1	ND	ND	3	222	*	*	*	*	*	*	*	*	*	*	*	*	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene			ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Naphthalene			ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Metals (ug/L)																		
Chloride	16,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	250,000
Sodium	45,000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20,000
Iron (total)	*	*	3,940	3,720	NA	*	*	*	*	*	*	*	*	*	*	*	*	300/500 ²
Iron (dissolved)	*	*	52.1 B	68.0 B	NA	*	*	*	*	*	*	*	*	*	*	*	*	300/500 ²
Manganese	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	300/500 ²
Lead	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25
Other																		
Nitrogen, Nitrate (ug/L)	*	*	ND ⁴	160	NA	*	*	*	*	*	*	*	*	*	*	*	*	NS
Sulfate (ug/L)	*	*	48,000	46,000	NA	*	*	*	*	*	*	*	*	*	*	*	*	250,000
TOC (ug/L)	*	*	25,000	17,000	ND	*	*	*	*	*	*	*	*	*	*	*	*	NS
Petroleum Hydrocarbons (ug/L)	*	*	*	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	NS
Carbon Dioxide (ug/L)	*	*	18,000	19,000	NA	*	*	*	*	*	*	*	*	*	*	*	*	NS
Dissolved Oxygen (mg/L)	4.6	9.66	4.6	2.3	NA	*	*	*	*	*	*	*	*	*	*	*	*	NS

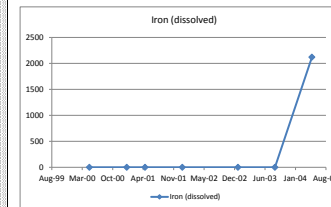
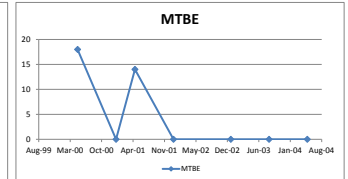
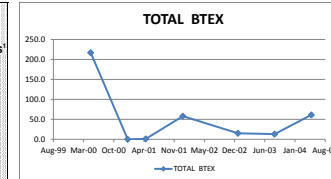


APPENDIX D
MONITORING WELL HISTORICAL DATA SUMMARY
 May 2000 to July 2017
 Harrison Sub-Residency Spill Site

WELL ID: MW 10 B	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-10	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE	4.9	•	ND	NA	ND	ND	ND	ND	ND	•	•	•	•	•	•	•	•	10
Benzene	2.1	•	ND	NA	ND	ND	ND	ND	ND	•	•	•	•	•	•	•	•	1
Toluene	ND	•	ND	NA	ND	ND	ND	ND	ND	•	•	•	•	•	•	•	•	5
Ethylbenzene	ND	•	1	NA	9	23	8	ND	9	•	•	•	•	•	•	•	•	5
m,p-Xylene	3.5	•	-	NA	2	15	2 J	ND	2J	•	•	•	•	•	•	•	•	5*
O-Xylene	5.6	•	-	NA	ND	ND	ND	ND	ND	•	•	•	•	•	•	•	•	5*
Xylenes (total)	9.1	•	•	NA	2	15	2 J	ND	2	•	•	•	•	•	•	•	•	5*
TOTAL BTEX	11.2	•	1	NA	11	38	10	ND	11	•	•	•	•	•	•	•	•	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene			ND	NA	•	•	•	•	•	•	•	•	•	•	•	•	•	NS
Naphthalene			ND	NA	•	•	•	•	•	•	•	•	•	•	•	•	•	NS
Metals (ug/L)																		
Chloride	34,000	•	•	NA	•	•	•	•	•	•	•	•	•	•	•	•	•	250,000
Sodium	27,000	•	•	NA	•	•	•	•	•	•	•	•	•	•	•	•	•	20,000
Iron (total)	•	•	1,080	NA	1,190	•	•	1460	1,880	•	•	•	•	•	•	•	•	300/500*
Iron (dissolved)	•	•	32.8 B	NA	462	644	592	456	343	•	•	•	•	•	•	•	•	300/500*
Manganese	•	•	•	NA	•	•	•	•	•	•	•	•	•	•	•	•	•	300/500*
Lead	•	•	•	NA	•	•	•	•	•	•	•	•	•	•	•	•	•	25
Other																		
Nitrogen, Nitrate (ug/L)	•	•	ND*	NA	ND	9,000	12,000	12,000	8,100	•	•	•	•	•	•	•	•	NS
Sulfate (ug/L)	•	•	27,000	NA	19,000	9,000	12,000	12,000	8,100	•	•	•	•	•	•	•	•	250,000
TOC (ug/L)	•	•	14,000	NA	9,400	•	•	•	•	•	•	•	•	•	•	•	•	NS
Petroleum Hydrocarbons (ug/L)	•	•	•	NA	•	•	•	•	•	•	•	•	•	•	•	•	•	NS
Carbon Dioxide (ug/L)	•	•	39,000	NA	39,000	25,000	32,000	25,000	14,000	•	•	•	•	•	•	•	•	NS
Dissolved Oxygen (mg/L)	4.7	•	4.91	NA	2.0	2.9	2.4	1.1	5.35	•	•	•	•	•	•	•	•	NS

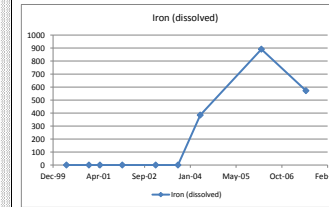
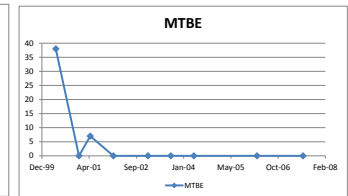
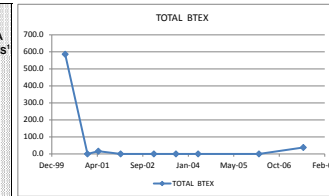


WELL ID: SP 2	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-10	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE	18	•	14	ND	ND	ND	ND	•	•	•	•	•	•	•	•	•	•	1
Benzene	19	•	ND	7	7	5	2 J	•	•	•	•	•	•	•	•	•	•	5
Toluene	25	•	ND	6	2	2	4 J	•	•	•	•	•	•	•	•	•	•	5
Ethylbenzene	110	•	1	42	ND	5	42	•	•	•	•	•	•	•	•	•	•	5*
m,p-Xylene	52	•	-	4	1	13	•	•	•	•	•	•	•	•	•	•	•	5*
O-Xylene	11	•	-	2	ND	ND	•	•	•	•	•	•	•	•	•	•	•	5*
Xylenes (total)	63	•	•	3	6	13	•	•	•	•	•	•	•	•	•	•	•	5*
TOTAL BTEX	217.0	•	1	58	15	13	61	•	•	•	•	•	•	•	•	•	•	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene			ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS
Naphthalene			ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS
Metals (ug/L)																		
Chloride	36,000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	250,000
Sodium	75,000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	20,000
Iron (total)	•	•	9,750	7,590	2,700	•	•	•	•	•	•	•	•	•	•	•	•	300/500*
Iron (dissolved)	•	•	ND	126 B	ND	166 B	2,120	•	•	•	•	•	•	•	•	•	•	300/500*
Manganese	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	300/500*
Lead	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	25
Other																		
Nitrogen, Nitrate (ug/L)	•	•	ND*	100	ND	37	ND	•	•	•	•	•	•	•	•	•	•	NS
Sulfate (ug/L)	•	•	26,000	64,000	18,000	7,900	7,200	•	•	•	•	•	•	•	•	•	•	250,000
TOC (ug/L)	•	•	17,000	29,000	14,000	•	•	•	•	•	•	•	•	•	•	•	•	NS
Petroleum Hydrocarbons (ug/L)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS
Carbon Dioxide (ug/L)	•	•	36,000	42,000	38,000	37,000	58,000	•	•	•	•	•	•	•	•	•	•	NS
Dissolved Oxygen (mg/L)	2.5	•	3.1	4.0	1.0	1.47	1.7	•	•	•	•	•	•	•	•	•	•	NS

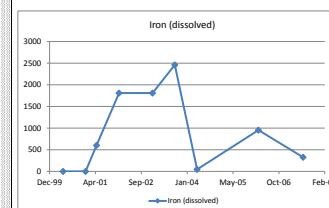
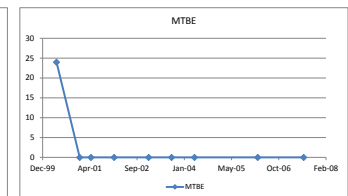
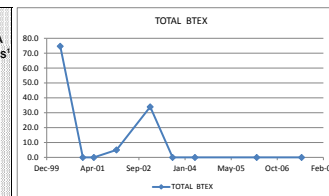


APPENDIX D
 MONITORING WELL HISTORICAL DATA SUMMARY
 May 2000 to July 2017
 Harrison Sub-Residency Spill Site

WELL ID: SP 3	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Mar 2006)	(Jul 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(Jul 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(Jul 2017)	
	May-00	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-10	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE	38	•	7	ND	ND	ND	ND	ND	ND	•	•	•	•	•	•	•	•	10
Benzene	110	•	ND	ND	ND	ND	ND	ND	ND	•	•	•	•	•	•	•	•	1
Toluene	39	•	1	ND	ND	ND	ND	ND	ND	•	•	•	•	•	•	•	•	5
Ethylbenzene	200	•	ND	ND	ND	ND	ND	ND	ND	31	•	•	•	•	•	•	•	5
m,p-Xylene	180	•	-	ND	ND	ND	ND	ND	ND	43	•	•	•	•	•	•	•	5
O-Xylene	57	•	-	ND	ND	ND	ND	ND	ND	33	•	•	•	•	•	•	•	5
Xylenes (total)	237	•	15	ND	ND	ND	ND	ND	ND	7	•	•	•	•	•	•	•	5
TOTAL BTEX	586.0	•	16	ND	ND	ND	ND	ND	ND	38	•	•	•	•	•	•	•	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene			ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS
Naphthalene			ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS
Metals (ug/L)																		
Chloride	6,000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	250,000
Sodium	38,000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	20,000
Iron (total)	•	•	2,970	1,060	133 B	•	•	3380	3,170	•	•	•	•	•	•	•	•	300/500
Iron (dissolved)	•	•	ND	ND	ND	116 B	384	891	572	•	•	•	•	•	•	•	•	300/500
Manganese	•	•	•	•	•	•	•	•	•	•	•	•	•	3600	280	3000	680	300/500
Lead	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	25
Other																		
Nitrogen, Nitrate (ug/L)	•	•	ND*	100	ND	ND	25	66	ND	•	•	•	•	•	•	•	•	NS
Sulfate (ug/L)	•	•	56,000	16,000	19,000	5,900	22,000	ND	ND	•	•	•	•	•	•	•	•	250,000
TOC (ug/L)	•	•	11,000	18,000	41,000	•	•	•	•	•	•	•	•	•	•	•	•	NS
Petroleum Hydrocarbons (ug/L)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS
Carbon Dioxide (ug/L)	•	•	11,000	11,000	20,000	19,000	26,000	57,000	32,000	•	•	•	•	•	•	•	•	NS
Dissolved Oxygen (mg/L)	3.4	•	4.21	5.7	1.1	1.7	2.2	1.05	3.27	•	•	•	•	•	•	•	•	NS

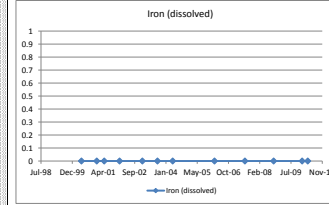
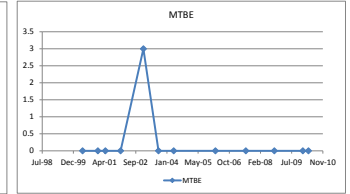
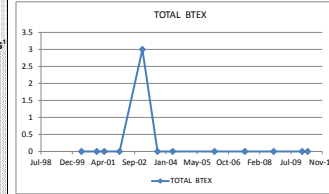


WELL ID: SP 4	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS
	(May 2000)	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Mar 2006)	(Jul 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(Jul 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(Jul 2017)	
	May-00	Jan-01	May-01	Jan-02	Jan-03	Sep-03	May-04	Mar-06	1-Jul	Oct-08	Jan-10	Apr-10	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE	24	•	ND	ND	ND	ND	ND	ND	ND	•	•	•	•	•	•	•	•	10
Benzene	24	•	ND	ND	ND	ND	ND	ND	ND	•	•	•	•	•	•	•	•	1
Toluene	3.8	•	ND	ND	ND	ND	ND	ND	ND	•	•	•	•	•	•	•	•	5
Ethylbenzene	35	•	ND	3	26	ND	ND	ND	ND	•	•	•	•	•	•	•	•	5
m,p-Xylene	9.5	•	-	-	8	ND	ND	ND	ND	•	•	•	•	•	•	•	•	5
O-Xylene	2.4	•	-	-	ND	ND	ND	ND	ND	•	•	•	•	•	•	•	•	5
Xylenes (total)	11.9	•	ND	2	8	ND	ND	ND	ND	•	•	•	•	•	•	•	•	5
TOTAL BTEX	74.7	•	ND	5	34	ND	ND	ND	ND	•	•	•	•	•	•	•	•	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene			ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS
Naphthalene			ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS
Metals (ug/L)																		
Chloride	16,000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	250,000
Sodium	24,000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	20,000
Iron (total)	•	•	3,790	5,350	2,490	•	•	10,400	25,400	•	•	•	•	•	•	•	•	300/500
Iron (dissolved)	•	•	602	1,810	1,810	2,460	44.5	953	326	•	•	•	•	•	•	•	•	300/500
Manganese	•	•	•	•	•	•	•	•	•	•	•	•	•	3600	280	3000	680	300/500
Lead	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	25
Other																		
Nitrogen, Nitrate (ug/L)	•	•	ND*	ND*	ND	ND	150	200	ND	•	•	•	•	•	•	•	•	NS
Sulfate (ug/L)	•	•	34,000	22,000	37,000	26,000	8,400	24,000	13,000	•	•	•	•	•	•	•	•	250,000
TOC (ug/L)	•	•	14,000	24,000	11,000	•	•	•	•	•	•	•	•	•	•	•	•	NS
Petroleum Hydrocarbons (ug/L)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	NS
Carbon Dioxide (ug/L)	•	•	39,000	24,000	31,000	26,000	23,000	39,000	ND	•	•	•	•	•	•	•	•	NS
Dissolved Oxygen (mg/L)	4.2	•	6.89	4.2	2.4	6.2	3.4	3.8	5.6	•	•	•	•	•	•	•	•	NS



APPENDIX D
 MONITORING WELL HISTORICAL DATA SUMMARY
 May 2000 to July 2017
 Harrison Sub-Residency Spill Site

WELL ID: GP 2	BASELINE	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Oct 2005/ Mar 2006)	(July 2007)	(Oct 2008)	(Jan 2010)	(Apr 2011)	(July 2012)	(Oct 2013)	(Jan 2015)	(April 2016)	(July 2017)	NYSDEC CLASS GA STANDARDS ¹
	(May 2000)	(Jan 2001)	(May 2001)	(Jan 2002)	(Jan 2003)	(Sept 2003)	(May 2004)	(Mar 2006)	1-Jul	Oct-08	Jan-10	Apr-10	Jul-12	Oct-13	Jan-15	Apr-16	Jul-17	
Volatile Organics (ug/L)																		
MTBE	*	*	*	*	3	ND	ND	*	*	*	ND	*	*	*	*	*	*	10
Benzene	*	*	*	*	ND	ND	ND	*	*	*	*	*	*	*	*	*	*	1
Toluene	*	*	*	*	ND	ND	ND	*	*	*	*	*	*	*	*	*	*	5
Ethylbenzene	*	*	*	*	ND	ND	ND	*	*	*	*	*	*	*	*	*	*	5
m,p-Xylene	*	*	*	*	ND	ND	ND	*	*	*	*	*	*	*	*	*	*	5 ²
O-Xylene	*	*	*	*	ND	ND	ND	*	*	*	*	*	*	*	*	*	*	5 ²
Xylenes (total)	*	*	*	*	ND	ND	ND	*	*	*	*	*	*	*	*	*	*	5 ²
TOTAL BTEX	*	*	*	*	3	ND	ND	*	*	*	*	ND	*	*	*	*	*	NS
Semi-volatile Org.(ug/L)																		
2-Methylnaphthalene	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Naphthalene	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Metals (ug/L)																		
Chloride	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	250,000
Sodium	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20,000
Iron (total)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	300/500 ³
Iron (dissolved)	*	*	*	*	*	*	*	*	*	*	*	ND	*	*	*	*	*	300/500 ³
Manganese	*	*	*	*	*	*	*	*	*	*	*	*	*	3600	280	3000	680	300/500 ³
Lead	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25
Other																		
Nitrogen, Nitrate (ug/L)	*	*	*	*	*	*	*	*	*	*	*	ND	*	*	*	*	*	NS
Sulfate (ug/L)	*	*	*	*	*	*	*	*	*	*	*	21,000	*	*	*	*	*	250,000
TOC (ug/L)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Petroleum Hydrocarbons (ug/L)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Carbon Dioxide (ug/L)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NS
Dissolved Oxygen (mg/L)	*	*	*	*	*	*	*	*	*	*	*	16.79	*	*	*	*	*	NS



Notes:
 (1) - NYSDEC Class GA Standards are from Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, revised April 2000.
 (2) - There is no GA value for total xylenes. The standards for o-xylene, m-xylene, and p-xylene is 5 ug/L.
 (3) Standard of 300 ug/L applies to each substance and 500 ug/L applies to the sum of these substances
 NS = No Standard
 ND = Analyte not detected at the listed reporting limit
 * = Not Analyzed
 B = Concentration below the reporting limit equal to or above the detection limit.
 J = Concentration below the reporting limit.
 H = Analyzed outside of the holding time.
 * Nitrogen, Nitrate was analyzed outside the recommended holding time for this sample and therefore the analytical results may be biased low.

